TWENTY-SECOND BIENNIAL REPORT

OF THE

STATE ENGINEER

TO THE

GOVERNOR OF COLORADO

FOR THE YEARS

1923-1924

G.C. HEZMALHALCH

DENVER:

GOLD

CALIFORNIA DEFENDANTS

Exhibit No.....

Identification: ..... Admitted: .....

Twenty-Second Biennial Report

OF THE

STATE ENGINEER

TO THE

Governor of Colorado

For the Years 1923-1924

DENVER, COLORADO
BRADFORD-ROBINSON PTG. CO.
1925

HUMPHREY'S CONCRETE ARCH DAM
Goose Creek, Colorado

LETTER OF TRANSMITTAL

SIR:

In compliance with the provisions of law, I have the honor to transmit herewith the Twenty-second Biennial Report of the activities of the Department of the State Engineer for the two fiscal years ending November 30, 1924.

Very respectfully yours,

M. C. HINDERLIDER,
State Engineer.

To His Excellency,

WILLIAM E. SWEET,
GOVERNOR

Table of Contents

CHAPTER VIII.

CHAPTER IX

CHAPTER X.

CHAPTER XI.

CHAPTER XII.

CHAPTER XIII.

CHAPTER XIV.

LIST OF OFFICERS AND EMPLOYES

State Engineering Department

State Engineer (1923) ..... Addison J. McCune
State Engineer (1924) ..... M. C. Hinderlider
Deputy State Engineer (1923) ..... R. G. Hosea
Deputy State Engineer (1924) ..... C. C. Hezmalhalch
Chief Hydrographer ..... J. H. Baily
Hydrographer, Division No. 1 (1923) ..... W. T. Blight
Hydrographer, Division No. 1 (1924) ..... C. E. Feetham
Hydrographers, Division No. 2—
Division Hydrographer in Charge ..... H. D. Amsley
Assistants ..... F. C. Snyder, J. R. Williams, Thos. Curtis
Hydrographer, Division No. 3 ..... D. S. Jones, Jr.
Hydrographer, Division No. 4 (1923) ..... C. E. Feetham
Hydrographer, Division No. 4 ..... A. W. Ingham
Chief Clerk and Draftsman (1923) ..... C. C. Hezmalhalch
Chief Clerk and Draftsman (1924) ..... W. T. Blight
Filing Clerk ..... Ellie H. Rhodes
Stenographer ..... Bessie Clark

IRRIGATION DIVISION ENGINEERS

Div. No. 1	F. Cogswell	Denver
Div. No. 2	C. W. Beach	Pueblo
Div. No. 3	E. S. Counselor	Alamosa
Div. No. 4	H. C. Getty	Montrose
Div. No. 5	A. J. Dickson	Glenwood Springs
Div. No. 6	B. T. Chase	Steamboat Springs

WATER COMMISSIONERS

Div. No.	Dist. No.	Name	Address
1	1	J. K. Samples	Snyder
1	2	C. C. Pearce	Brighton
1	3	W. J. McAnelly	Fort Collins
1	4	H. H. Kelly	Loveland
1	5	J. A. Lee	Hygiene
1	6	James M. Platt	Boulder
1	7	A. E. Jones	Golden
1	8	Louis Bertolett	Littleton
1	9	H. S. Rainwater	Morrison
2	10	W. F. Starsmore	Colorado Springs
2	11	A. M. Carpenter	Salida
2	12	D. S. Jones	Canon City
2	13	H. W. Hendershot	Westcliffe
2	14	Joe Burgess	Pueblo
2	15	John Simonson	Buelah
2	16	W. S. Abbott	Walsenburg
2	17	S. W. Cressy	Rocky Ford
2	18	Juan A. Mestas	Aguilar
2	19	H. B. Bostick	Trinidad
3	20	Thomas Carr	Del Norte
3	21	W. F. Neff	La Jara
3	22	B. W. Harrison	Manassa
1-2	23	F. E. Lilley	Jefferson
3	24	Miguel Martinez	San Luis
3	25	John L. Charles	Crestone
3	26	S. O. Proffitt	Saguache
3	27	Jas. Medina	La Garita
4	28	J. Roy Hicks	Sargents
4	29	F. A. Byrne	Pagosa Springs
4	30	George H. Tyner, Jr.	Griffith
4	31	No Commissioner	
4	32	No Commissioner	
4	33	Jerry Griggs	Breen
4	34	Hugo Weston	Mancos
3	35	Stephen Calkins	Blanca
5	36	No Commissioner	
5	37	Earl McGlochlin	Gypsum
5	38	P. K. Bartheel	Carbondale
5	39	Isam W. Graham	Rifle
4	40	C. H. Luellen	Eckert
4	41	A. J. Baxter	Montrose
4	42	George M. Saunders	Mesa
6	43	F. A. Carstens	Meeker
6	44	Clifford Collom	Axial
5	45	R. S. Glenn	Silt
1	46	Consolidated with District 47	
1	47	Clarence Boston	Walden

Div. No.	Dist. No.	Name	Address
1	48	R. A. Mosier	Jelm, Wyoming
2	49	No Commissioner	
5	50	No Commissioner	
5	51	P. S. Elting	Sulphur Springs
5	52	Carl Forster	Radium
5	53	A. L. Plasters	Burns
6	54	E. W. Leggett	Baggs, Wyoming
6	55	No Commissioner	
6	56	No Commissioner	
6	57	C. W. Harkness	Hayden
6	58	E. H. Godfrey	Yampa
4	59	A. D. McKee	Gunnison
4	60	E. Lin Guy	Redvale
4	61	W. O. Roberts	Bedrock
4	62	Wm. Sammons	Powderhorn
4	63	No Commissioner	
1	64	John M. Shea	Sterling
1	65	John Hultquist	Laird
2	66	No Commissioner	
2	67	H. F. Syp	Lamar
4	68	J. W. Martin	Ridgway
4	69	No Commissioner	
5	70	John Moore	DeBeque

CHAPTER I

INTRODUCTION

The duties of the State Engineer are numerous and varied. As head of the department charged with the administration of our public water supplies, he is required to decide numerous questions, all of which are based upon statutory provisions or court decrees which are not always free from ambiguity. Proper rulings and decisions necessarily demand that he have a well grounded general knowledge of our water laws and supreme court decisions relating thereto.

As State guardian of all storage reservoirs, he should be highly qualified, through study and experience, to design and supervise the construction of important dams and engineering works, upon the safety of which depends human lives and immense property values.

He is charged with the collection and publication of all information and data relative to our public water supplies upon which our major industry depends. This duty requires one trained in hydrographic studies, with a knowledge of present and future needs and possibilities of land and power development, and problems of water conservation and use.

As a member of the State Irrigation District Commission he is required to pass upon the water supply, sufficiency and cost of proposed irrigation works of magnitude, land values, security of bond issues which are legitimate investments for public and trust funds, and upon the general feasibility of such undertakings.

Under the provisions of the compacts which have been and are being formulated for the equitable division of the waters of interstate streams, the State Engineer is the designated authority under whom the terms of the compacts are to be administered. Due to the nature of these compacts which must be drawn to cover diversified conditions in the various states involved, and the fact that such procedure is an innovation in the administration of our water laws, much attention must be given this new duty of the office to the end that unnecessary friction between ourselves and our neighbor states may be avoided and that the greatest possible benefits may be derived from the large sums of money which have been appropriated by the taxpayers for this purpose and from the efforts of those most responsible for this logical method of adjustment of our interstate water troubles.

We believe that a successful administration of the responsibilities attaching to this department, requires an abiding interest in the problems of the water user and full co-operation by the office in a solution of the same, but to accomplish this end a close relation must exist between the State Engineer and the water users. This may be had only through personal and frequent contact to enable the head of the office to become advised of the

problems of the latter and hence afford him opportunity to assist wherever possible.

Appropriations should be adequate to permit the State Engineer to keep in personal touch with all sections of the State, to consult and advise with water users, to take and give advice so as to more intelligently administer the duties of his office, and to devise new methods for aiding the agriculturist.

SEASONAL CONDITIONS AND OUTLOOK

The biennial period of 1923-1924 was marked by very unusual weather conditions, particularly during the growing season. The dearth of moisture following the dry year of 1922 extended over into 1923 particularly along the Eastern Slope of the Continental Divide, and resulted in a serious shortage of water for storage and for direct flow diversions, up until the early summer months.

April, 1923, was the driest of any like month in the preceding thirteen years in the South Platte Basin. The shortage in the amount of precipitation at Pueblo in the Arkansas Valley, amounted to 2.14 inches up to June 1. This period of deficiency in moisture was ended early in the summer by copious rainfall over the Eastern Slope, which continued intermittently throughout the balance of the growing season and well into the fall, resulting in the wettest October since 1892. This abnormal situation created unfavorable conditions for the germination of crops in the early part of the season with resultant losses during the months of harvest.

The excessive rainfall during July, August and September of 1923, lessened the demand for water for direct irrigation and at the same time furnished large accretions to the streams generally throughout the State. Practically all storage reservoirs took advantage of this unusually favorable condition and stored to capacity during the fall and early winter months, and yet large quantities of water passed out of the State unused. In the South Platte Drainage all reservoirs were 63 per cent filled by November 30, while in the Arkansas River Basin all reservoirs were practically filled upon the latter date.

The foregoing conditions were prevalent in the South Platte, Arkansas, San Juan and a portion of the Colorado River Drainage Basins. In the Upper Colorado, Rio Grande and Yampa River Basins, moisture and seasonal conditions were more favorable.

Due to the early filling of reservoirs on the Eastern Slope in the fall of 1923, the irrigation interests of the South Platte and Arkansas Valleys entered the season of 1924 in excellent shape. The moisture content of the soil both in the mountain and plain areas was well above normal, which materially contributed to the favorable outlook. In practically all other areas of the State, however, the amount of snowfall during the winter of 1923-1924 was below normal and in many instances occurring late in the winter, resulting in an early runoff.

With the advance of the season the usual rains failed to materialize and this, coupled with an unusually warm summer, developed a most serious situation for those interests not supplied with reservoired water.

In the South Platte division, the month of June proved to be the driest month of record, July was the third driest, and August the second driest, while the summer showed the greatest deficiency of any year of record. This condition was practically duplicated in all parts of the State. In the South Platte and Arkansas River Basins the extensive system of storage reservoirs provided, in general, ample water supplies for maturing all crops, and again definitely demonstrated their great value as a stabilizing factor in irrigation development. In the latter valleys good crops prevailed, while other sections of the State not provided with storage facilities, reported yields far below normal.

The two outstanding crops which have very materially aided the farmer to meet his obligations, are sugar beets and head-lettuce. The former is now one of the basic crops of our State and is rapidly growing in importance. As a source of revenue it appears to be taking a leading place in our farming industry.

The lettuce industry, while young and necessarily confined to limited areas, yet it appears to have grown in favor with the mountain farmers and to have become pretty definitely established. It is reported that at least 300 car loads of this succulent product, valued at $1,000 per car, were shipped from one valley alone.

The occurrence of two very dry years in a three-year period will stimulate interest in reservoir development and has shown the wisdom of expenditures along this line. On the other hand, the lessons learned through the enforced use of smaller quantities of water has certain compensating features of no small value.

For the agriculturist, stock grower and feeder, conditions for the past five years have been distressing and it is only within the past year that improvement in these conditions is apparent. In certain sections of the State the farmer, and particularly the cattlemen, received little or no benefit from the seemingly upward trend in the economic situation. The farmers in other parts of the State, however, have materially benefited as a result of the good crop yield and better prices received for many commodities produced in 1924, and as a result there exists a more hopeful feeling among our agricultural interests. The growing of sugar beets, where conditions are favorable, is receiving greater attention and is proving in most instances, to be a profitable crop. The cultivation of a larger acreage in corn we believe to be a move in the right direction. Diversified farming on smaller individual units in a more systematic and painstaking manner is much to be desired.

We have confidence that out of the slough of despond and discouragement in which the farmer and stockmen have been struggling, these industries so vital to the welfare of the entire State are bound to immerge, and we are also firmly of the opinion that success for these industries can best be assured through a

closer combination by each individual of the business of food production, stockraising and feeding. And as essential to success, questions relative to the selecting of the animal to be fed, character of feed, proper balancing of ration, pure water supply, shelter and care of the animal during feeding operations, the absolute elimination of all waste of feed, which is so prevalent in western feed yards, and the careful replenishment of the farm lands through crop rotation and application of all manure from the farm, feed yards and stables, must have careful consideration by all those who would succeed; and last but not least, the farmer cannot hope to succeed by employing all his labor, nor can he successfully farm out of an automobile.

Successful farming depends more than any other business upon thrift and industry; those qualities with which our forefathers were so thoroughly endowed but which seem to be foreign to the vocabulary of many of the more recent generation. Where these essentials are combined with even a modicum of intelligence, success is assured as is amply demonstrated by individuals in every community.

In this effort to rehabilitate the fortunes of the farmer and stockman, we feel that the water officials of the State can be of very material assistance. While the administration of the decrees and the handling of our water supplies has shown great progress in recent years, yet there remains ample opportunity for the water officials to take a more active part, by bringing about a more harmonious feeling between the water users through an unbiased administration of decrees, the correction of injustices and through the collection of data and dissemination of information pertaining to the construction of dams and other irrigation structures, conservation, storage, use and duty of our available water supply, and the careful administration of reservoir runs of water in the natural streams.

CHAPTER II

IRRIGATION STATISTICS OF COLORADO

Statistics for the State, compiled from the records of this office for 1924, show the following items of interest:

Amount of arable land possible of ultimate reclamation through all available water supplies, approximately 5,250,000 acres.

Amount of land now under ditch 4,700,000 acres.

Amount of land actually irrigated 3,400,000 acres.

Total quantity of water diverted from our natural streams for irrigation purposes 7,475,000 acre-feet.

Average quantity diverted for storage reservoirs 1,800,000 acre-feet.

Apparent gross duty of water about 2.20 acre-feet per acre of land irrigated.

Observed consumptive use in Poudre, South Platte and Arkansas River Valleys ranges from 1.23 to 1.67 acre-feet per acre per year.

(By consumptive use is meant the net amount of water used in promoting plant growth, and the amount of water evaporated from the soil and canal surfaces.)

Length of all main canals and laterals, approximately 28,000 miles.

Number of storage reservoirs and dams, about 1,000.

Capacity of storage reservoirs 2,400,000 acre-feet.

Height of dams ranges from 10 to 200 feet.

Cost of storage capacity ranges from $2.00 to $50.00 per acre-foot.

Yearly sales price for water in reservoirs range from 50c to $12.50 per acre-foot, depending upon location, character of crop and necessities of purchaser.

Storage reservoir capacity valued at from $5.00 to $75.00 per acre-foot, depending upon location of lands and efficiency of reservoir.

Number of decreed water rights administered through State Engineer's Office, 17,100.

Total number of gaging stations maintained by State Engineer's Office 1924	68
Total number of gaging stations maintained through co-operation between State Engineer's Office and U. S. Geological Survey	12
Total number of gaging stations maintained through co-operation with other states	5
Total number of gaging stations maintained through co-operation with corporations	19

Total number of gaging stations maintained independent of State Engineer's Office, by the U. S. Geological Survey and corporations	22
Grand total of all stream gaging stations maintained in State in 1924	126
Number of stream measurements made by State Engineer's Office in 1914	420
Number of stream measurements made by State Engineer's Office in 1919	680
Number of stream measurements made by State Engineer's Office in 1923	1,749
Number of stream measurements made by State Engineer's Office in 1924	1,916
Number of ditch and canal measurements made by State Engineer's Office in 1914	445
Number of ditch and canal measurements made by State Engineer's Office in 1919	560
Number of ditch and canal measurements made by State Engineer's Office in 1923	774
Number of ditch and canal measurements made by State Engineer's Office in 1924	1,151
Number of automatic registers maintained on streams in 1924	87
Number of automatic registers maintained on canals in 1924	49

Total cost to taxpayer for maintaining the office of State Engineer and all other water officials, hydrographers, etc., through legislative appropriations amounts to 1 1-3c per year per acre of land irrigated.

CHAPTER III

OFFICE AND CLERICAL WORK

FINANCIAL STATEMENT

Appropriations	1923	1924	Total
State Engineer, salary	$3,000.00	$3,000.00	$ 6,000.00
Deputy State Engineer, salary	2,400.00	2,400.00	4,800.00
Chief Clerk (Draftsman) salary	2,000.00	2,000.00	4,000.00
Chief Hydrographer, salary	2,400.00	2,400.00	4,800.00
Four Hydrographers, salaries	7,200.00	7,200.00	14,400.00
One Hydrographer, salary	900.00	1,800.00	2,700.00
Stenographer, salary	1,200.00	1,200.00	2,400.00
File Clerk, salary	1,200.00	1,200.00	2,400.00
Two Division Engineers, salaries	5,000.00	5,000.00	10,000.00
Four Division Engineers, salaries	8,400.00	8,400.00	16,800.00
Incidental expenses, including gage readers' salaries, purchase of equipment, repairs to same, installation and upkeep of river measuring stations	1,500.00	1,500.00	3,000.00
Traveling and contingent fund, State engineer and Deputies	1,250.00	1,250 00	2,500.00
Traveling expense, Chief Hydrographer	600.00	600.00	1,200.00
Traveling expense, six Division Engineers	6,000.00	6,000.00	12,000.00
Traveling expense, four hydrographers	3,000.00	3,000.00	6,000.00
Traveling expense, one hydrographer	375.00	750.00	1,125.00
Incidental and contingent expense, including printing, postage, stationery, supplies, telephone, express, etc	2,000.00	2,000.00	4,000.00

BALANCES TURNED BACK TO GENERAL FUND

Chief Clerk, salary	$ 333.32
Hydrographers' salaries	2.08
Traveling and contingent fund	61.41
Chief Hydrographer's expense	29.35
Hydrographers' expense	1.72
Division Engineers' expense	87.71
Incidental expense fund	24.96
Gaging fund	500.43
Total	$1,011.45

STATE WATER DEFENSE FUND

In addition to the regular appropriations, the following was expended from the Water Defense Fund for hydrographic work under the direction of the State Engineer.

South Platte River Investigations—

1923

Hydrographer's traveling expense	$ 120.43
Hydrographic equipment	155.75
Total for biennial period	$ 276.18

North Platte River Investigations—

1923

Hydrographers' traveling expense	$ 22.95
Hydrographic equipment and installation of gaging stations	368.07
Total	$ 391.02

1924

Hydrographers' traveling expense	110.91
Total for biennial period	$ 501.93

Arkansas River Investigations—

1923

Hydrographers' traveling expense	$1,972.26
Hydrographic equipment and installation of gaging stations	640.16
Automobile for hydrographer	475.00
Hydrographers' salaries	564.52
Miscellaneous	219.81
Total	$3,871.75

1924

Hydrographers' traveling expense	$ 303.78
Hydrographers' salaries	1,370.00
"I-S" Reservoir Survey	263.96
Miscellaneous	92.64
Total	$2,030.38
Total for biennial period	$5,902.13

Rio Grande Investigations—

1923

Hydrographers' expense	$ 245.24
Miscellaneous	25.80
Total	$ 271.04

1924

Hydrographers' expense	$ 164.18
Total for biennial period	$ 435.22

San Juan River Investigations—

1923

Hydrographers' traveling expense	$ 712.96
Hydrographers' salaries	699.00
Hydrographic equipment and installation of gaging stations	686.64
Automobile for hydrographer	600.16
Total	$2,698.76

1924

Hydrographers' traveling expense	$ 254.39
Hydrographers' salaries	198.37
Hydrographic equipment and installation of gaging stations	221.10
Miscellaneous	1.97
Total	$ 675.83
Total for biennial period	$3,374.59

DISTRIBUTION OF EXPENDITURES FROM GAGING FUND

1923

Gage readers' salaries	$2,866.05
Gaging equipment	409.78
Hydrographers' expense	375.39
Automobiles for hydrographers	756.06
Total	$4,407.78

1924

Gage readers' salaries	$2,380.62
Gaging equipment	381.82
Hydrographers' expense	601.88
Automobiles for hydrographers	876.74
Total	$4,241 06
Total for biennial period	$8,648.84
Balance returned to General Fund	500.43
Total gaging fund for biennial period	$9,149.27

Statement of Fees Received During the Biennial Period, December 1, 1922-November 30, 1924

(GAGING FUND)

Water filings	$7,406.00
Postage	2.69
Blue Prints	913.70
Certifications	232.00
Examination of Reservoir Plans	376.00
Filing transfer decrees	22.00
Office labor	63.50
Sale of gaging supplies	128.38
Recording water deeds	5.00
Total	$9,149.27

During the biennial period 403 filings representing one or more claims for water were filed in this office. These filings include 89 claims for reservoirs with a combined capacity of 105,000 acre-feet, 82 claims for pipelines for power development or domestic use, with a total amount claimed of 458 cubic feet per second and 308 claims for ditches or canals with an aggregate of 4,570 cubic feet per second claimed. In the majority of instances the amount of water claimed is small and indicates individual development or the enlargement and extension of existing structures. The largest claim was for 1,200 s. f. made by the City and County of Denver for a proposed system to divert water by means of a tunnel from the Western Slope.

The total number of water filings on record in this office is 18,500, and as the vast majority of these are prepared on tracing linen 24″x36″, consisting of one or more sheets, the volume of the record is readily seen.

Although a large number of these filings are void under the Supplemental Filing Act they are continually consulted and are of untold assistance to the public so that it is necessary to continue them in the files.

The number of priorities for ditches and reservoirs administered by this office is approximately 17,100. Certified copies of each decree are on file and have been indexed and bound in volumes so as to be readily accessible for the use of the water officials and general public.

The present statute requires that a certified copy of each decree, issued by a district court, be filed in this office and in the office of the Division Engineer, before such decree is in effect. Previous to the enactment of this statute, a large number of decrees were issued which were never filed in this or the division engineer's office, consequently the records have not been complete.

The present State Engineer to correct this condition requested each division engineer to check his records with the various clerks of the district court in his division and arrange to have copies prepared of the decrees missing from his files. The files of each division engineer, with the exception of Divisions 5 and 6 have been compared with the files in the State Engineer's Office and thus a complete check has been made and the records will ultimately be completed. The records in Divisions 1, 2, 3 and 4 have been checked and are substantially complete. Partial checks have been made in the other two divisions and will be completed during the next year.

A system of filing and indexing has been inaugurated in each division engineer's office and when finished will be of untold value to the public, as information in regard to any particular water right can be obtained from the division engineer's files and will obviate the necessity of a trip to the Denver office.

The files of decrees in the State Engineer's Office are consulted practically every day by attorneys examining abstracts to title, and engineers investigating water rights, so that in addi-

tion to their value to the office in the distribution of water, the general public is assisted materially.

As this is an office of record as well as an administrative branch of the state government, considerable office and clerical routine is involved. Proper indices are necessary to make the documents readily accessible for public use. This work has been handicapped somewhat through a lack of proper filing devices and vault fixtures, for the purchase of which no funds were available.

Hundreds of inquiries are received each year requesting information involving legal advice and questions pertaining to irrigation law. In most instances the office is able to answer such questions, based upon past experience, and from a familiarity with court decisions and the irrigation code; however, a compilation of the irrigation statutes and supreme court decisions would be a great benefit. Such a publication could be made self-sustaining by charging a nominal fee for each volume.

RESERVOIR PLANS

Plans and specifications for the construction or repair of the following reservoir dams were approved and filed in this office during the biennial period:

Kendrick Reservoir (repairs), Water District No. 9. H. S. Sanderson, Engineer.

Ireland Reservoir No. 5, Water District No. 1. R. W. Lindsay, Engineer.

Lake Humphreys (concrete arch dam), Water District No. 20. Carl A. Gould, Engineer.

Barnes Meadow Reservoir, Water District No. 3. Burgis G. Coy, Engineer.

Buckhorn Reservoir (repairs), Water District No. 4. John E. Field, Engineer.

Barrier at Rock Canyon, Pueblo Conservancy District. Dayton-Morgan Engineering Co., Engineers.

Chambers Lake Reservoir (enlargement), Water District No. 3. W. J. McAnelly, Engineer.

Valmont Lake, Public Service Company of Colorado, Water District No. 4. A. T. Ewell, Engineer.

Terminal Reservoir, Water District No. 8. Geo. M. Bull, Engineer.

Beaver Brook Reservoir No. 3, Water Supply City of Golden. Glen I. Izett, Engineer.

Manitou Reservoir (repairs), Water Supply City of Manitou. John E. Field, Engineer.

CHAPTER IV

APPEALS AND DECISIONS

Several appeals by water users from rulings of the Division Engineers came before the office for consideration and final decision during the biennium. Probably the most important of these was the Reed-Killian case which has been a source of much friction between water users in Huerfano and Pueblo Counties for more than a quarter of a century.

An appeal from the ruling of the Division Engineer of Irrigation Division No. 2 was filed with this office in the summer of 1924 by owners of priorities under the Reed decree, the oldest in Huerfano County. Decision was rendered and order issued by former State Engineer McCune in favor of plaintiff just before he retired from office on November 30, 1924.

Upon appeal by the interests under the Killian decree for a reversal of this order, the present State Engineer affirmed the former decision.

Upon presentation of what appeared to be additional evidence, a rehearing was granted the Killian decree interests and reargument had before this office. Mr. Roach, Deputy Attorney General, took a deep interest in this hearing and after a painstaking review of the case, advised this office that the Reed decree should be considered the result of a statutory proceeding, and hence the priorities thereunder could not be disturbed by the awards under a subsequent decree. The final decision of the office was a re-affirmation of previous decisions in favor of the Reed decree interests.

Another appeal from the ruling of the Division Engineer of Irrigation Division No. 2 by the reorganized Consolidated Catlin Canal Company in the matter of the use of 22 feet of early Jones Ditch water which had been transferred to the Catlin Company subject to a certain contract, was also decided in favor of the Division Engineer, it being held by this office that the decree of transfer embodied the contract and hence must be administered according to the terms of the latter.

Still another important case both as regards unusual physical conditions and the application of previous supreme court decisions, is that involving the ownership of the waters escaping from the Cucharas Reservoir in Huerfano County.

After considerable study of this case and the physical conditions affecting the same, the office decided that such waters belonged to the stream and that the Cucharas Irrigation Company could not re-capture and make use of same to the detriment of prior appropriators on the stream below, as had been permitted by the Division Engineer.

The final decisions of the courts in respect to these rulings will throw much needed light upon some of the complex problems with which the water officials are confronted in the administration of their duties.

Numerous disputes of a minor nature required trips to different parts of the State during the past season, but considering the trying conditions imposed by the lack of moisture throughout the State in 1924, the comparatively small number of complaints calling for a ruling of the State Engineer reflects a great deal of credit upon both the water officials and the water users.

CHAPTER V

FIELD WORK

The field work carried on by the office during the biennial period consisted, among other things, of the regular hydrographic investigations and compilations of data on stream-flow and the use of water in the State. The purpose of such studies is twofold.

In connection with the development of our irrigable areas and water power possibilities, complete and authentic knowledge of our natural water supplies is essential and of increasing importance. On the other hand, proper administration of the decrees by the water officials requires careful and constant knowledge of the amount of water carried in our streams and ditches at all times. To have such information available under constantly changing conditions of stream flow and ditch capacities, entails a large amount of work upon and close co-operation between the water officials and state hydrographers.

The regular hydrographic work was carried on under the immediate supervision of Mr. J. Harold Baily, Chief Hydrographer, whose report on the activities of this branch of the office will be found under Chapter IX.

Much of the hydrographic data has been compiled in connection with special investigations carried on in the South Platte, Arkansas, Rio Grande and other valleys under the immediate supervision of Messrs. R. I. Meeker, special deputy state engineer, H. D. Amsley, district hydrographer, and R. G. Hosea, former deputy state engineer. As a result of these special investigations a large amount of very valuable data has been accumulated by this office.

Early in the season of 1924, all water commissioners were required to submit reports on every ditch in his district in need of headgate repairs and measuring devices, and based upon such reports complete plans and instructions were mailed to each ditch owner requiring such installation, with the result that many needed improvements were made. On account of the financial conditions of the farmers, such installations must be made gradually so as not to work undue hardship.

Improved equipment and methods, particularly in the nature of automatic registers, have greatly increased the reliability and usefulness of our hydrographic records. This is of no small consequence to those making use of such data. To date, hydrographic investigations have been extended to cover the entire State in a fairly satisfactory manner, but much is yet to be desired in the way of a complete survey of our hydrographic and dependent resources, together with provision for publishing such data.

Some time was spent in making field surveys and studies of reservoir possibilities in the Arkansas River Basin both in Colorado and in Kansas in connection with the pending litigation between certain ditch interests in these states. As a result of such in-

vestigations and studies, it has been disclosed that apparently feasible storage facilities are available both on the Purgatoire River in Colorado and on Bear Creek in Kansas. Both of these developments may be made at a reasonable cost per acre-foot. The results of such investigations will be covered in separate reports.

While the construction of storage reservoirs in the State has not been so much in evidence the past few years, due to the marked depression in irrigation development, yet a number of dams were under construction during the biennium.

The law requires that the State Engineer shall act as supervising engineer during the construction of all dams more than ten feet in height. This obligation required numerous trips of inspection by the State Engineer or his deputy, frequent conferences and no little study of plans, specifications, local conditions and materials. Mention of the more important of these works is found in another chapter where comment in some detail on the characteristics of each structure, may be found.

Realizing the importance of a rigorous and definite method of inspection for all dams coming under the supervision of the office, and a systematic method of reporting the results of such inspections, the writer, upon assuming the duties of the office, issued for the use of all water officials, a six-page questionnaire in leaflet form, which, when filled out, constituted a reasonably comprehensive report on the conditions of every dam investigated. As a result, all the major dams and a large number of those of minor importance in the State, have been inspected and reported upon the past year. This has enabled the office to keep in fairly close touch with conditions affecting the stability of the dams throughout the State, and if carefully followed up will tend to a reduction in disasters from dam failures. As a result of such investigations, repairs to numerous dams were ordered made and the necessary work in this connection has been or is being carried out.

As a member of the Irrigation District Commission, former State Engineer A. J. McCune spent considerable time and effort in the investigations leading up to the organization of three irrigation districts within the past biennium. As his successor, the writer has kept in touch with the construction activities of the Del Norte Irrigation District, the only one of those recently organized which has been successful in financing its construction program. Further mention of these districts and the status of same will be found under a separate chapter of this report.

During the biennial period and particularly within the past year, numerous conferences were held by the State Engineer with water users for the purpose of seeking adjustments of their controversies outside the courts.

While the functions of this office as regards the distribution of water are only administrative in character, involving necessary police powers, we are firmly of the opinion that the most efficient administration of the duties of the office makes it incumbent upon the State Engineer and water officials to exercise every rea-

sonable effort in the promotion of amicable relations between all water users. Much more may be accomplished along this line through personal contact and conferences than by the tedious method of correspondence. While such conferences cannot be considered a panacea for the adjustment of all disputes and litigation, yet it is believed such are fruitful of much good and well worth the effort entailed.

CHAPTER VI

DAMS

New Construction

Considerable activity in new dam construction during the biennial period was in evidence.

Humphreys Dam

While creating small storage capacity one of the tallest and most interesting structures in the State is the Humphreys Dam built by Col. A. E. Humphreys above Wagon Wheel Gap. This dam is of the constant radius, arch type, depending entirely upon arch action for stability. The material used in construction was concrete. This dam is 96 feet in height above the lowest point of foundation, and has a crest length of 153 feet. The radius length of the upstream face is 85 feet. The spillway structure consists of a dam of gravity section 38 feet high with O. G. crest and roll-way, located near the northwesterly end of the main dam. Painstaking supervision was given this work, and the general design and appearance of the structure reflects great credit upon those responsible for the same.

This dam is designed for hydro-electric and fish cultural purposes. A complete description of same will be published in the Engineering News-Record within the immediate future.

Rock Canyon Dam

Another interesting and highly important example of dam construction coming under the supervision of this office, is the Rock Canyon Barrier now under construction by the Pueblo Conservancy District. This dam is purely for the purpose of flood control.

The structure consists of a spillway section of concrete with a maximum height of 35 feet, having an O. G. crest which is to be equipped with reinforced concrete flashboards 7 feet in height. The total length of this concrete structure is about 1,700 feet and involves the placing of about 22,000 yards of concrete.

The southerly portion of this dam will consist of an earth embankment of a maximum height of about 40 feet and length of 1,500 feet, and will involve the placing of about 100,000 yards of material.

Careful analysis of borrow pit material for porosity and soluble salt content were required to be made as a safeguard against future weakness of the structure.

BRUSH HOLLOW DAM

This structure, built of earth to replace the Shaffer Dam destroyed in 1921, is located near the town of Penrose.

The dam is 65 feet in maximum height and 875 feet in length. It is built across a dry canyon, the reservoir being filled

through a ditch from Beaver Creek. The dam has a slope of 3 : 1 on the water face, which is well paved with hand-placed stone, and a slope of 2 : 1 on the downstream face; a crest width of 12 feet and a freeboard of 7 feet with ample spillway facilities. The outlet consists of a 36-inch steel tube 7/16 of an inch thick surrounded with plain concrete. The transverse joints in the tube were electrically welded. The original control consisted of standard 36-inch gate valves located at the lower toe of the dam. This dam seems to have been well built, with cutoff and puddle trenches beneath the dam. Upon the first storage of water, however, a serious leak occurred at the lower toe near the outlet pipe. Orders were issued by this office to empty the reservoir, after which a careful examination of the outlet pipe was made.

This inspection disclosed that two of the transverse joints in the pipe, one just upstream and one just downstream from a concrete support located near the center line of the dam, had been pulled asunder, thereby permitting the water under reservoir pressure to force its way along the outlet pipe to the lower toe of the dam. This action doubtless was due to a settlement of the foundation beneath the pipe where the latter crossed the puddle trench.

Temporary repairs consisted of two specially constructed cast iron ribs 10 inches wide, placed inside the pipe at the points where the joints had failed, these ribs being so designed as to permit of caulking with lead wool. At about 2-foot intervals steel ribs of about 2-inch square steel were welded inside the pipe to prevent further displacement. A bead of greater thickness and area was welded over each transverse joint throughout the length of the pipe.

As a further safeguard it was required that a heavy cast iron sluice gate be installed at the upper end of the outlet. This gate is operated by means of an oil-pressure control from the crest of the dam.

These repairs seem to have been effective in curing the defects of design.

DAM No. 5 OF THE NORTHFIELD LAND & WATER CO.

This dam, just completed, is an earth structure located above Cascade, Colorado, and is the largest of a string of five dams owned by this company.

The dam is 55 feet in height, 500 feet in length, with a crest width of 16 feet and a freeboard of 7 feet. The water face is built on a slope of 3 : 1 and is protected by a layer of glacial boulders carefully hand placed over a blanket of gravel. The downstream face has a slope of 2 : 1. The spillway consists of a ruble-walled and paved channel at the southerly end of the embankment.

This dam was carefully designed and the work seems to be well executed.

The outlet consists of an 18-inch Matheson joint pipe surrounded with reinforced concrete. The valve is in a ruble masonry tower located at the upstream shoulder of the dam, the logical place for the valves for all earth dams in this latitude.

VALMONT DAMS

At Boulder Lake, four miles from the City of Boulder, the Public Service Company of Colorado is now building a large steam-driven electric power plant. For the purpose of providing ample water for power plant uses, the surface of Boulder Lake is being raised through the construction of three earth dams. The larger of these dams will be about 62 feet in height and will embody rather unique principles of design which have been advocated for years by the present State Engineer. These consist of two diaphragms of porous material which extend throughout the full length and height of the earth embankment, these diaphragms being connected with a complete drainage system beneath the dam.

The outlet will consist of twin 36-inch steel pipes encased in reinforced concrete. The control provides for two 36-inch gate valves in a reinforced concrete tower located just upstream from the crest of the dam.

An unusually elaborate study was made of the foundation conditions, materials available for construction purposes and other features common to designs for such structures.

TERMINAL RESERVOIR DAM

This dam consists of an earth structure now being built by the East Denver Municipal Irrigation District, about 25 miles east of Denver, the purpose being to impound water for irrigation.

This dam, consisting of an earth structure, will have a maximum height of 40 feet, with upstream and downstream slopes of 2½ to 1 and 2 to 1 respectively. The crest width will be 15 feet and provision made for freeboard of 7 feet.

The plans provide for a paving of hand-placed stone riprap over the water face, which will be done some time after the earth embankment has had a chance to properly settle.

The outlet structure will consist of a reinforced concrete conduit encasing a heavy steel pipe 42 inches in diameter.

The control will consist of a 36-inch gate valve installed in a concrete tower located at the upstream shoulder of the dam.

This reservoir will be served through the extension of a ditch taking water from the Highline Canal.

BEAVER BROOK DAM

Construction of this dam has just been commenced by the City of Golden. The plans contemplate an earth structure of a maximum height of 56 feet with an upstream slope of 3 to 1 and

a downstream slope of 2 to 1. The water face is to be paved with hand-placed stone overlying a blanket of gravel. The crest width will be 16 feet. The spillway will consist of a masonry structure located at the southerly end of the dam, and will provide a free-board of 7 feet. The outlet will consist of a 12-inch cast iron pipe encased in concrete located in a solid rock trench beneath the dam. This pipe will be equipped with twin 12-inch gate valves located at the upper end of the pipe, operated by means of inclined stems extending up the face of the dam.

The quantity of water which this dam will impound will be small and will be used for domestic purposes.

DAM FAILURES AND REPAIRS

Probably the most noted dam failure which has occurred in the State within recent years was that of the Apishapa Dam on the Apishapa River in Southeastern Colorado which occurred on August 22, 1923. This structure, 114 feet in height, was of earth construction and was used for irrigation purposes. Although in use for three years, the dam had never been subjected to full hydrostatic pressure previous to the time of failure. An unprecedented runoff, which the valves were unable to handle with sufficient dispatch, caused the water to rise to an unusual height against the dam. From personal inspection by the writer immediately following this disaster, it is believed the immediate cause of failure was due to settlement cracks which occurred near high-water line, and that such settlement was probably caused by the dissolving of soluble salts in the material forming the embankment of the dam. Fortunately, signs of incipient failure gave ample warning to enable notice to be conveyed to those living below the dam, so that no lives were lost, and but nominal damage resulted to property.

The greatest loss was inflicted upon the landowners under the reservoir, since, for some years at least, further development of their lands is impossible.

A complete description of this failure, together with subsequent discussions, will be found in various issues of the Engineering News-Record between August 30 and October 4, 1924.

Showing downstream face of Apishapa Dam a few moments before failure on August 22, 1923. Water is seen appearing at right-hand end of dam at point A.. Water entering dam at high water line just back of team seen standing on top of dam near C. From this point the water passed diagonally across and lengthwise of the dam to the right-hand end at A.

Showing down-stream view of dam-site after failure of dam. The concrete baffle walls, valve tower and remnants of the earth embankment may be seen on the canyon walls.

Another failure of minor importance, yet furnishing illuminating data on runoff conditions, was that of the Buckhorn Reservoir Dam a few miles above Longmont. This failure was also the result of an unprecedented rainfall above the reservoir which caused a rate of runoff in excess of the capacity of the spillway. Complete repairs to this dam have been made and additional spillway capacity provided.

Probably the most important, as well as interesting, pieces of work of this nature is that now in process of execution by the Board of Municipal Water Works of Denver. This consists of the driving of an outlet tunnel 60 feet below the crest of the spillway at Lake Cheesman and the installation of a 62-inch balanced needle valve of the Johnson patented type, together with heavy rectangular hydraulically operated emergency valves in the tunnel above. This installation will provide a safe service outlet from Lake Cheesman and remove a real menace to the city's water supply.

Investigations have disclosed the need for repairs to a number of the largest dams in the State. Necessary repairs have been ordered made and are in the main in process of execution.

These repairs were, in general, necessitated by slips occurring usually on the water face, settlements, water-logged conditions or erosions, while in other instances the demand arose from faulty outlet works or spillway conditions.

The unusually long period of storage between the fall of 1923 and the summer of 1924, made possible through the abundance of water, subjected all earth dams to a most searching test. This resulted in narrowly averted disasters in a number of instances.

From studies and observations relating to the construction of earth dams, we are of the opinion that such structures may be built so as to provide the requisite degree of safety even when built of rather inferior materials when designed and supervised by those competent to do such work. Unfortunately, however, many specimens of earth dam construction in the West show that few or none of the scientific principles of dam design were understood by the builders. Such conditions reflect little credit upon those responsible for the design and construction of such works. As a result there have been disasters and many such dams in this State are in a rather precarious condition and are maintained only through the exercise of constant vigilance.

Needless to state, the enormous economic values represented by our storage reservoirs, which are dependent upon safe design and construction, demand the most rigorous supervision on the part of this office, coupled with adequate knowledge of the principles involved in such work, which can only come through hard experience. Needed amendments to the present law covering the supervision of dam construction in this State are discussed under Chapter XII.

CHAPTER VII

IRRIGATION DISTRICTS

To date three irrigation districts have been organized under the provisions of the Irrigation District Act of 1921. These are the Del Norte and the Trinchera Irrigation Districts, both in the San Luis Valley, and the Maybell Irrigation District in Moffat County in Northwestern Colorado.

A brief history of the formation of these districts and the act under which the same were organized will be found in the biennial report of the State Engineer for 1921-1922.

Del Norte Irrigation District

Since the above report was published the Del Norte Irrigation District has succeeded in disposing of $228,500 par value of its bonds from the total issue of $350,000. Following this financing, active construction work on the canal system was begun early in the spring of 1924 and has been prosecuted diligently since commencement. Up to December 22, 1924, the reports submitted to this office show that 65 per cent of the work incident to the construction of the canal system had been completed and that about $40,000 will be required to finish this work.

Inspection by this office disclosed that the construction work was being well done and when completed will result in a first-class canal system. It is hoped to have the main canal, which has a maximum capacity of 140 second feet, ready for use the coming season of 1925.

The water rights of the district consist of an appropriation for storage purposes of 32,000 acre-feet of water and an appropriation of direct flow from the Rio Grande for 130 second feet.

In addition to construction work on the main canal system, work of an exploratory nature was carried on at the Continental dam site during the latter part of the fall of 1924. Such work consisted of sinking test pits to determine location and character of bed-rock precedent to preparing designs for the storage dam. It is now anticipated that active construction in this connection will be undertaken in 1925 as soon as plans for the dam have been approved, and the weather conditions are favorable for construction.

Up to December 22, 1924, there had been expended by the district for all purposes approximately $158,000.

The area of land to be served by this system when completed amounts to about 10,000 acres.

Trinchera Irrigation District

The landowners in the Trinchera Irrigation District originally voted an issue of $650,000 of bonds. Later it was deemed advisable to make certain modifications, as to the boundaries

of the district and certain improvements to the existing irrigation system and to provide for drainage requirements. Accordingly, at a subsequent election last spring, another issue of $750,000 of bonds was voted for the purpose of refunding all outstanding obligations and to provide additional funds for betterments to the irrigation system which would serve 35,000 acres of land. To date this district has not been successful in getting the holders of the original issue of bonds to unite in a plan which would permit of the retirement of the former by the new issue.

Maybell Irrigation District

The Maybell Irrigation District was organized in 1922 for the purpose of acquiring the irrigation system owned by the Maybell Canal Company. This system served about 2,500 acres of land, but due to the state of repair of the system and the difficulty of operating the same under the physical conditions confronting the landowners, the cost had been excessive and the water service unsatisfactory. The district was organized for the purpose of providing much-needed betterments to the present canal system and to extend the area served and for providing a better method of collecting assessments, etc.

The system is adequate to serve about 4,000 acres. The landowners voted a bond issue of $80,000, of which $60,000 par value of bonds were exchanged for the Canal Company's property. The remaining $20,000 of bonds was disposed of for cash, which was expended in the rehabilitation of the system.

Recent reports received from this district indicate that the operation of same has been a success from the start; that the reconstructed canal system provided ample water during the entire season of 1924, thereby greatly increasing the crop return to the farmers; that the canal assessments for maintenance have been much less per acre than formerly, and that these assessments for maintenance and bond interests have been met when due. Such a report is most gratifying and demonstrates the great advantages irrigation districts offer for effective management of irrigation enterprises which have proved unprofitable under corporate control.

CHAPTER VIII

LOSS OF RESERVOIR WATER IN TRANSIT

One of the most perplexing problems with which this office has to deal and one that is yearly becoming of greater importance, is that of determining the probable loss which should be charged against those using the natural streams as a carrier for stored water.

The law provides that public waters may be stored away against a time of need and that such waters may again be turned into the public streams to be conveyed to the point of usage and a like quantity rediverted from the stream minus a lossage in transit to be determined by the State Engineer. Obviously such provision for conserving our resources is a most wise one. It is equally obvious that in so doing, others having rights on the same stream must be protected. Accordingly the responsibility placed upon the State Engineer in this connection is no mean one, since his decision may result in unjust and serious economic losses to either party, and may also be the source of much friction or litigation.

Numerous attempts have been made by this office in years past, to determine the loss properly chargeable to the owner of reservoir water in transit, but on account of the continuously changing physical conditions, such results are very unsatisfactory.

The two major losses arising through the transit of reservoir water down a stream are due to headgate diversions and to evaporation. The former may be controlled through efficient headgate policing by the water officials. The latter is of a more or less intangible nature, yet we believe susceptible of reasonably accurate determination.

The great dearth of moisture during the summer of 1924 resulted in an unusual demand for stored water. Those ditches which are not fortunate enough to have storage facilities purchased reservoir water from any source attainable for the purpose of saving valuable crops. Numerous runs of water from Lake Cheesman to supply ditches down the South Platte, were made. On account of the excessive heat and low river flow conditions, the difficulties of administration were greatly intensified. These problems are also common to the Arkansas and Rio Grande Valleys where the river channel must be used to carry the stored waters from extensive reservoir systems.

It is evident that some adjustment based upon more logical reasons than present ones, must be devised and put into effect for the correct solution of the problems arising on account of reservoir runs of water. We believe that such solution involves a consideration of river benefits as well as losses, and that only upon some such basis is an equitable determination possible.

Sufficient funds have not heretofore been available for proper investigation of this problem of water distribution, but the importance of the question justifies immediate and careful studies looking to a proper solution of the question.

CHAPTER IX

HYDROGRAPHIC DEPARTMENT

By J. H. Baily, Chief Hydrographer

During the last two years the hydrographic work was conducted by the following men:

Hydrographers—H. D. Amsley, W. T. Blight, D. S. Jones, Jr., A. W. Ingham, F. C. Snyder, C. E. Feetham, Ray Williams, Thomas Curtis, hydrographer for the Arkansas Valley Protective Association.

Division Engineers—H. C. Getty, B. T. Chase, E. S. Counselor.

A. J. Dickson made a few stream measurements during the season of 1924, but most of the work in his division was handled from the Denver office.

The runoff for the year 1923 was above the average on nearly every stream and because of this heavy runoff during the fall and winter, the reservoirs were well filled by the beginning of the 1924 season. In 1924 the streams on the Eastern Slope had a high runoff in the spring and early summer, but after the first of July they dropped off so rapidly that the direct irrigation rights were short on water during July, August and September. On the Western Slope the runoff was low for the whole season and especially on streams that headed below 10,000 feet in elevation.

Below is a list of the base stations giving the number of years record and percentage of runoff in terms of the average for the period from October 1, 1922, to September 30, 1923, and from October 1, 1923, to September 30, 1924.

Station	Location	Length of Record in Years	Per Cent 1923	Per Cent 1924
Cache la Poudre River	Canon Mouth	41	140	140
South Platte River	Denver	27	115	157
North Platte River	Saratoga, Wyo.	19	105	82
Laramie River	Woods, Wyo.	20	109	98
Arkansas River	Canon City	37	108	118
Rio Grande	Del Norte	35	108	115
Animas River	Durango	21	...	...
Colorado River	Glenwood Springs	25	109	95
White River	Meeker	20	99	87
Yampa River	Steamboat Springs	18	112	86

During the coming season it is the intention to install stations on the following streams:

McElmo Canon Creek at State Line.

Grape Creek near Canon City, a co-operative station between the State, U. S. Geological Survey and Southern Colorado Power Co.

Pine River above Bayfield.

There are other stations that should be established, but due to lack of funds, it is impossible to do so.

The following stations were discontinued this fall:

Williams Fork River near Parshall.

Troublesome Creek near Troublesome.

Elk River at New Castle.
Lodgepole Creek at Ovid.

Several minor stations on the Arkansas River drainage were only maintained for a few months and found impractical.

There should be an investigation carried on in North Park to determine the amount of water contributed by this district to the North Platte River. There is a station on North Platte River at the State Line, but there is at least on an average of 130,000 acre-feet which flows through Encampment and Big Creeks on which we have no records. But one ditch in North Park in the last four years has been rated by this office. These ditches should all be rated so that the users may know just how much water they are using. We cannot do this on the funds available for hydrographic work.

In this office is a tabulation in acre-feet of the monthly runoff of most of the streams on which we have hydrographic data. For the base stations the data for the missing months has been filled in so that one may judge fairly accurately what the mean annual flow was for the period covered by stream estimates. These records may be obtained for the sum of 20 cents a sheet. It is hoped to publish this information soon, as it will be a valuable asset to the engineers of the State.

The farmers of this State have banks to take care of their money, elevators to take care of their grain, but they haven't sufficient hydrographers to measure the water, which is the main essential to produce the grain that makes their money.

The tabulated estimates of discharge of the streams of the State, together with a brief description of each station, will be found in the latter part of this report. Credit is given in each station description where credit is due for co-operation.

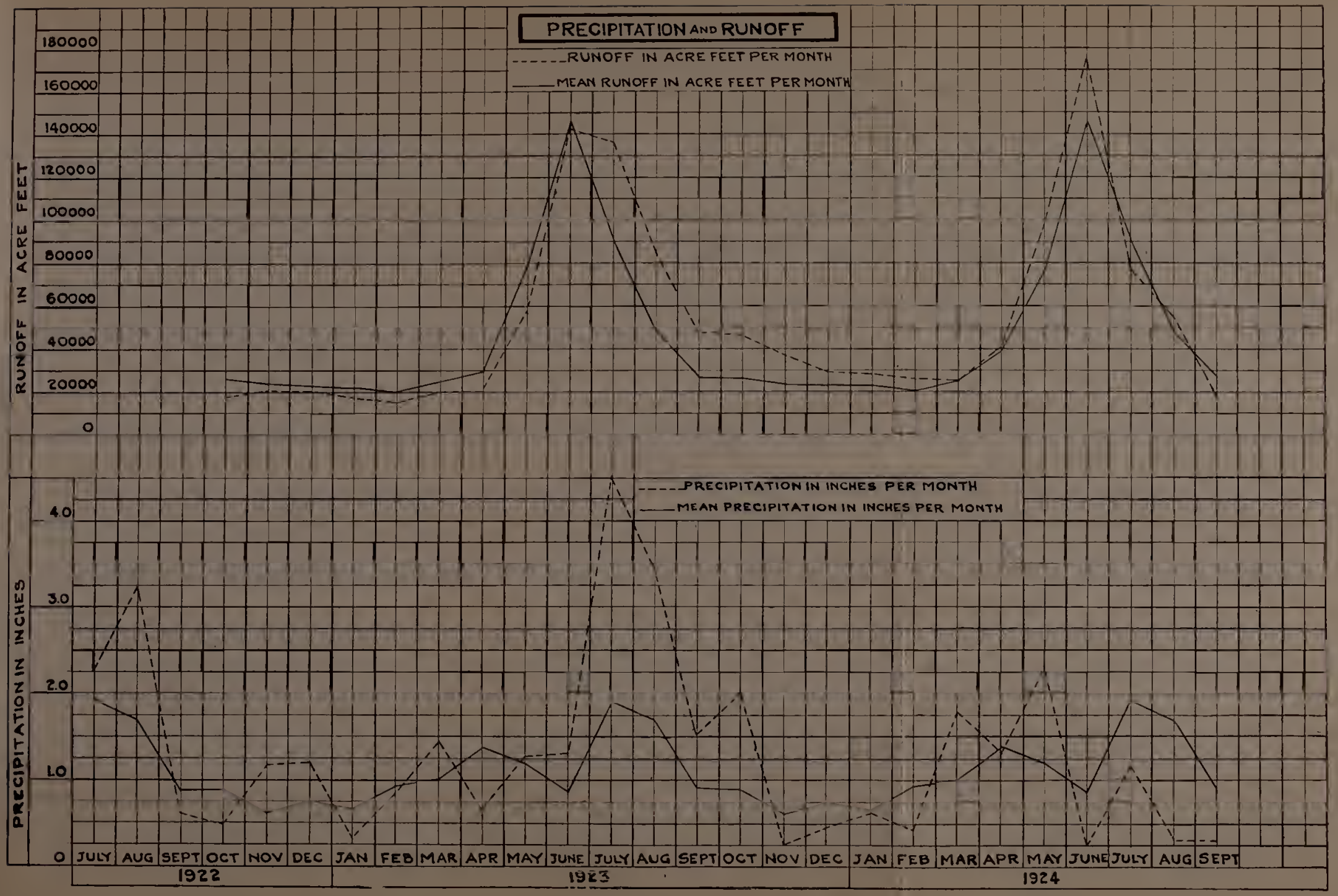
RELATION BETWEEN PRECIPITATION AND RUNOFF

By J. H. Baily, Chief Hydrographer

The attached plate shows a comparison between precipitation and runoff in the Arkansas Basin. This can only be used as a comparison as there are not sufficient rainfall stations to determine the average precipitation over the whole Basin. The precipitation curve is a composite curve of three stations above Canon City, while the hydrograph in acre-feet per month is for the gaging station on the river at Canon City.

The heavy line on the precipitation curve is the mean rainfall in inches per month, while the dotted line is the rainfall in inches per month, July, 1922, to September, 1924. The heavy lines on the hydrograph is the mean runoff in acre-feet per month, while the dotted line is the runoff in acre-feet for each month from October, 1922, to September, 1924.

From these curves it can be seen that summer precipitation is noticeable at once in runoff, while fall precipitation has a slight


PRECIPITATION AND RUNOFF
------RUNOFF IN ACRE FEET PER MONTH
——MEAN RUNOFF IN ACRE FEET PER MONTH
RUNOFF IN ACRE FEET
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
-----PRECIPITATION IN INCHES PER MONTH
——MEAN PRECIPITATION IN INCHES PER MONTH
PRECIPITATION IN INCHES
4.0
3.0
2.0
1.0
0
JULY AUG SEPT OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC JAN FEB MAR APR MAY JUNE JULY AUG SEPT
1922
1923
1924

effect on increasing the runoff at the time; most of the water runs off during the next spring. The lower snows melt in March and the highest snows in July and August, while the bulk of water is discharged in June.

During the season, 1923, the rainy season came in July, after the most of the snow had melted, giving an abnormal flow during July and August, while in 1924 the precipitation came in May, which tended to soften the snow at lower altitudes and provided a blanket of wet snow at higher altitudes, causing a high runoff in June. This diminished nature's storage so that the flow in July and August was just about normal. The lack of rainfall during July was another cause for the flow for this month, being below normal.

The summer of 1922 was a hot, dry summer and greatly depleted the ground water. While the precipitation of the winter of 1922 and 1923 was just about normal, the flow was only about 80 per cent of normal for the fall and early spring, as part of the water was dissipated in building up the ground water, instead of running off.

Another point emphasized by the diagram, is that the bulk of the snow is gone by the last of June, and, in order to have a good run of water during the months of July, August and September, the water from the little snow that is left must be augmented by rains in the higher areas. The lower area rains or cloudbursts are not of as much value as they run off too fast to be put to a maximum benefit.

Small showers are only of value to the area covered as the water is all taken up in the evaporation or transpiration of plants.

The last three months of 1924, as shown on the curves, are low in precipitation, so that we will probably have the same condition in the spring of 1925 that we did in 1923, a deficiency of ground water. This does not necessarily mean a low runoff, but that the moisture stored in snow will not give the maximum effect in runoff as it would in a normal year.

ARKANSAS RIVER INVESTIGATIONS

By H. D. Amsley, District Hydrographer

This investigation was originally the outcome of a desire of the State Engineer's office and the Arkansas Valley Ditch Association to obtain the best possible records of the diversion of water from the Arkansas River, to assist the water officials in obtaining the most equitable distribution possible and to collect data pertaining to water supply, gross duty of the ditches, consumptive use, drainage, seepage return and other data that might be valuable to water users.

The work was started in March, 1921, under a co-operative agreement between the State Engineer's office, the Colorado Experimental Station and The Arkansas Valley Ditch Association.

The work was well under way and records were being obtained when the disastrous flood of June 3-5th occurred. After the flood it was decided to discontinue the investigation for that year as a number of headgates and rating flumes were washed out and conditions were generally unfavorable for the collection of the data sought.

In February, 1922, the State Engineer's office, in co-operation with the Arkansas Valley Ditch Association, decided to take up the investigation again and it has been carried on through 1922, '23 and '24.

The work was done under the direction of Mr. J. H. Baily of the State Engineer's office in 1922 and 1923, and under the direction of Mr. M. C. Hinderlider, State Engineer, in 1924.

The writer has had direct charge of the field work since the beginning, assisted by hydrographers:

L. T. Burgess, March 1, 1922, to October 1, 1923.

Thos. Curtis, March 1, 1922, to July 1, 1923, and March 1, 1924, to December 31, 1924.

F. C. Snyder, July 1, 1923, to December 31, 1924.

J. R. Williams, July 1, 1923, to December 31, 1924.

Mr. William Anderson was employed as office statistician August 1, 1922, to November 30, 1922, and Thos. Grieve, Jr., was employed from October, 1923, to March, 1924, to assist in compiling data collected in 1923.

In 1922 and 1923 the investigation covered the section of the river from Pueblo to Holly and that area bounded on the north and south by ditches diverting water from the Arkansas River.

In 1924 it was decided to co-operate with the Arkansas Valley Protective Association and to enlarge the scope of the investigation to take in the upper areas of the more important tributaries of the Arkansas River.

The work has covered three different types of years.

In 1922 the precipitation in the plains area of the Arkansas River Drainage was about 75 per cent of normal and the mountain runoff was below normal.

The year 1923 was one of very heavy precipitation, the average for the plains area was about 150 per cent and the mountain runoff was 117 per cent. The precipitation in the plains area for the period from January 1 to May 1, was only 34 per cent of normal, but from May 1 to December 31, it was 191 per cent.

It is interesting to note that the flow of tributaries that reached the Arkansas River in 1922 was 148,000 acre-feet, while in 1923 it was 833,000 acre-feet. The precipitation in 1923 was double that of 1922 and the runoff to the River increased over five times. This is partly due to the intense rainfall in 1923, while in 1922 there was very few heavy rains.

The average of the precipitation at Pueblo, Rocky Ford, Las Animas, Lamar, and Holly was higher in 1923 than for any year shown by weather bureau records.

The annual precipitation of 1923 for the above stations has only been exceeded at Pueblo in 1875, 1895, 1914, and 1921, at Lamar in 1891 and 1915, and at Holly in 1915.

At Rocky Ford and Las Animas the annual precipitation has never been as high since weather bureau records have been obtained as it was in 1923.

During the fall and winter of 1923 all reservoirs deriving their supply from the Arkansas River were filled. The reservoirs in the upper Arkansas River were filled early in the fall so that run-off that would ordinarily be stored flowed to the lower reaches of the stream and contributed to the heavy winter flow of 1923 and 1924. Over 800,000 acre-feet passed the Colorado-Kansas state line.

The precipitation in 1924 was below normal and conditions were favorable for accurate estimates of the flow of all the streams.

There was a good flow in the Arkansas River until about July 1, and then the supply gradually diminished until the latter part of the summer when the natural flow at Pueblo was lower than it had been for a number of years.

Automatic gages have been maintained on all ditches diverting water from the Arkansas River in Colorado, below Pueblo. These gage records have been a great help to the water officials in the administration of the water and have helped iron out some of the troubles of past years.

Mr. Joe Burgess, S. W. Cressy, and H. P. Syp, Water Commissioners of districts Nos. 14, 17, and 67 respectively have changed these automatic records each week during the irrigation season.

Gaging stations have been maintained on all the important tributaries of the Arkansas River below Pueblo and also at a number of points on the main stream. Most of these stations are equipped with automatic gages.

Owing to shifting channel conditions of streams in the plains area of the Arkansas River Drainage, it requires frequent measurements of the flow to determine accurately the daily discharge of the streams.

Seepage determinations have been made on the main stream and the important tributaries.

On practically all drainage ditches measurements have been made to determine the amount of water developed.

Through this investigation we have been able to give the water users on the main stream more frequent ratings on their ditches so that a more equitable distribution of the water could be made and we have been able to render service to users on the tributaries where none or very little was rendered before.

A great deal of data has been collected and is being compiled and it is hoped that the results will be printed in the next biennial report.

CHAPTER X

INTERSTATE RIVER INVESTIGATIONS AND COMPACTS

By R. I. Meeker, Special Deputy State Engineer,

Engineer for Colorado on Colorado, La Plata, North Platte, Rio Grande and Arkansas Interstate Water Controversies.

PRESENT STATUS

River	Average Yearly Discharge at State Line Acre-Feet	States Affected	Status
Colorado	11,000,000	Arizona, California, Colorado, Nevada, New Mexico, Utah and Wyoming.	(Compact Concluded.) Ratified by legislative act by all states except Arizona.
La Plata (tributary of San Juan).....	35,000	Colorado, New Mexico.	(Compact Concluded.) Ratified by legislative act by both states; awaiting congressional ratification.
South Platte.....	430,000	Colorado, Nebraska.	(Compact Concluded.) Ratified by legislative act by Nebraska; compact framed after adjournment of Colorado Legislature in 1923.
North Platte.....(a)	725,000	Colorado, Nebraska and Wyoming.	Engineering investigations completed. Hearings held in 1924 in three states; active negotiations under way.
Rio Grande.....	615,000	Colorado, New Mexico and Texas.	Engineering investigations completed. Hearings scheduled for 1925; active negotiations under way.
Arkansas	305,000	Colorado, Kansas.	Litigation in progress. Engineering studies and negotiations under way.

(a) Includes Laramie River, headwaters Encampment and Big Creek. Average yearly discharge at North Gate, 410,000 acre-feet.

GENERAL STATEMENT

Colorado's geographical position, astride the Continental Divide, with stream systems radiating to the four points of the compass, is the basic cause of interstate river litigation which Colorado has been compelled to face and fight for years in a pioneer way, because water consumption is an inevitable phase of irrigation reclamation. Colorado has never been plaintiff in any interstate suit.

During the last decade of the 19th century and the first decade of the 20th century, rapid and extensive application of water to the lands in Colorado and other states, together with a low

cycle of stream-flow, culminating in the extremely dry year of 1902, shocked the stream systems of Colorado both internally and externally, and led to unwarranted but restricted ideas of water supply and future development both within and without the State.

Additional withdrawal of water in lower states, combined with reduction in stream-flow by the upper state, imposed an abnormal demand on stream-flow in low years, and resulted temporarily in depleted rivers. These conditions led to much apprehension concerning sufficiency of water supply, both present and future, and in some instances crystallized into interstate water litigation against Colorado, water embargoes against Colorado, or smouldering dissatisfaction over interstate relations. Generally the water shortages causing interstate strife occurred, at a period in irrigation history of several river basins, prior to the time when large areas had commenced to function as to return-flow. Return-flow is now becomming pronounced in irrigated river valleys and a large factor in water supply. A notable example of such return-flow is that section of the North Platte River between the Wyoming Line and Bridgeport, Nebraska, where, in 1924, measured return-flow amounted to 550,000 acre-feet per year. Fifteen years ago return-flow in that area was a negligible factor in water supply.

In the San Luis Valley, Colorado, at the headwaters of the Rio Grande, artificial drainage is progressing rapidly, and return-flow and drainage waters returned to the main Rio Grande (1924) exceeded 100,000 acre-feet per year. The heavy return-flow of the South Platte River in eastern Colorado is so well known, and substantial expansion in irrigated areas from it is so great, that specific comment is unnecessary.

Headgate diversions are no longer a "*measuring stick*" of water supply utilization of river basins. Instead, the pioneer method of water analysis must yield to the economic basis of "Consumptive Use" in studies of river basins, both as to a limit of development and interstate apportionment.

Careful and exhaustive studies of water supply of Colorado's interstate rivers have been completed, not only as to Colorado but also as to the irrigation needs of lower states. These studies point a way to increased development equal to the fondest ambitions and hopes of several river communities in lower states.

Litigation having proven an unsatisfactory solution of Colorado interstate water problems, the more rational method of interstate river treaties or compacts was substituted, and is proving a much more satisfactory basis for adjusting perplexing water conflicts. The object of the compact idea is to settle the title to river-flow as between states in order that present development may be protected and future development may avoid delay and litigation. To Delph E. Carpenter, Colorado's foremost irrigation authority, credit should be given for originating the "Compact" or treaty method of interstate adjustments.

Irrigation development is not static, and conditions surrounding water utilization should be elastic to meet the changing con-

ditions of economic pressure of these eventful years. Hence, in the compact method, a worship of legal precedent is replaced by constructive treatment of difficult water problems which vary with each river-system, according to physical and cultural conditions.

First publicly broached in 1919 by Mr. Carpenter, the compact idea was applied to the Colorado and La Plata interstate river conflicts, and in less than five years' time gives hope of wide adoption to interstate relations in other fields, such as fisheries, water power development, municipal needs, etc. Two eminent engineers have placed the stamp of approval on water compacts as a means of settlement of water disputes, viz., Herbert Hoover and Elwood Mead. Other states, east and south, are resorting to this method of water settlement. Texas and New Mexico are endeavoring to adjust a water problem on the Pecos River, a tributary of the Rio Grande. The three states of New York, New Jersey and Pennsylvania are seeking to protect by compact their potable waters and make an apportionment of the waters of the Delaware River. Within the present month (December, 1924) the Department of the Interior has announced its cordial sympathy and support of the interstate compact method of river settlement for the western United States.

While the table at the head of this article gives a concise summary of Colorado interstate compacts, it is thought advisable to make a few brief statements concerning the various rivers where compacts have been formulated, or are being negotiated.

Colorado River Compact

The text of the Colorado River Compact will be found in full in the 21st Biennial Report of the State Engineer of Colorado (1921-1922), pp 16-20. For that reason only Article I of the Compact is quoted, since the major purposes of the Compact are therein outlined.

> "The major purposes of this compact are to provide for the equitable division and apportionment of the use of the waters of the Colorado River System; to establish the relative importance of different beneficial uses of water; to promote interstate comity; to remove causes of present and future controversies; and to secure the expeditious agricultural and industrial development of the Colorado River Basin, the storage of its waters and the protection of life and property from floods. To these ends the Colorado River Basin is divided into two basins, and an apportionment of the use of part of the water of the Colorado River System is made to each of them with the provision that further equitable apportionments may be made."

Under the terms of the Colorado River Compact future Colorado irrigation development will not suffer the water embargoes and delays similar to those laid upon the San Luis Valley or North

Park, Colorado, from construction of large reservoirs along the lower reaches of the river.

The Colorado River Compact was framed at Santa Fe, New Mexico, in November, 1922, following extensive hearings held in various parts of the Colorado River Basin and Washington, D. C., during 1921-22, and prior meetings of the League of the Southwest in 1919-20-21.

Legislative enactment by Congress of the United States and the various states providing for the Compact method of settlement were made in 1921. The respective legislatures of the six states of California, Colorado, Nevada, New Mexico, Utah and Wyoming ratified the Compact at regular legislative sessions during the year 1923. In Arizona public opinion has been evenly divided for and against the Colorado River Compact. Opportunity for ratification is not closed and it is hoped that Arizona will ultimately ratify the pact.

Colorado's engineering study and field investigation of present irrigated and future irrigable areas of the Western Slope were very comprehensive and occupied two years, being made in 1921-22, by R. I. Meeker. A large amount of data concerning stream-flow, reservoir opportunities, location of projects, and related data of the Colorado River Basin are on file in the State Engineer's office.

The following commissioners represented their respective states and the United States:

For the United States—Herbert Hoover.
For the State of Arizona—W. S. Norviel.
For the State of California—W. F. McClure.
For the State of Colorado—Delph E. Carpenter.
For the State of Nevada—J. E. Scrugham.
For the State of New Mexico—Stephen B. Davis, Jr.
For the State of Utah—R. E. Caldwell.
For the State of Wyoming—Frank C. Emerson.

La Plata River Compact

The complete text of the La Plata River Compact will be found in the 21st Biennial Report of this office, pp 21-24. The preamble of the La Plata River Compact is worded as follows:

> "The State of Colorado and the State of New Mexico, desiring to provide for the equitable distribution of the waters of the La Plata River and to remove all causes of present and future controversy between them with respect thereto, and being moved by considerations of interstate comity, pursuant to acts of their respective Legislatures, have resolved to conclude a compact for these purposes and have named as their Commissioners:
>
> "Delph E. Carpenter, for the State of Colorado, and
> "Stephen B. Davis, Jr., for the State of New Mexico."

Engineering field and office studies of the La Plata River Basin in Colorado and New Mexico were made by R. I. Meeker, Irrigation Engineer, during a two-year period, viz. 1919-1920. Complete engineering reports and data concerning the La Plata area are on file in the State Engineer's office, Denver.

Legislative enactment providing for the La Plata River Compact was made in 1921. The compact was framed at Santa Fe in November, 1922, immediately following the signing of the Colorado River Compact. Legislative ratification was made by both states during 1923, and congressional ratification is anticipated at the present session of Congress, December, 1924.

South Platte River Compact

The following preamble is quoted from the South Platte River Compact:

> "The State of Colorado and the State of Nebraska, desiring to remove all causes of present and future controversy between said States, and between citizens of one against citizens of the other, with respect to waters of the South Platte River, and being moved by consideration of interstate comity, have resolved to conclude a compact for these purposes, and through their respective Governors, have named as their Commissioners:
>
> "Delph E. Carpenter, for the State of Colorado, and
> "Robt. H. Willis, for State of Nebraska."

Engineering field and office studies concerning the South Platte River were carried on for a number of years (1916-1921) under the direction of R. G. Hosea, hydrographer and Deputy State Engineer of Colorado. A mass of data concerning return-flow, irrigated areas, water priorities, and related data is on file in the State Engineer's office, Denver.

Legislative enactments providing for the compact method of settlement were passed in 1923. The South Platte River Compact was framed at Lincoln, Nebraska, in April, 1923. The State of Nebraska ratified the South Platte River Compact in April, 1923. The Colorado Legislature of 1923 adjourned before the framing of the Compact. The Compact will be presented to the 1925 Legislature of Colorado for ratification.

North Platte River Compact

Legislative enactments providing for settlement of North Platte River problems were passed by Wyoming in 1923, a special session of the Wyoming Legislature being called in this matter. Nebraska and Colorado appointed commissioners pending legislative sanction, and the Federal representative was appointed by President Coolidge. The Commission is composed of the following members:

For the United States—*Stephen B. Davis, Washington, D. C.
For Nebraska—R. H. Willis, Bridgeport, Nebraska.
For Wyoming—S. G. Hopkins, Cheyenne, Wyoming.
For Colorado—Delph E. Carpenter, Greeley, Colorado.

*Chairman.

During 1924, hearings on the North Platte River were held in the three states, and active negotiations are now under way.

For over fifteen years irrigation development above Pathfinder Reservoir in Colorado and Wyoming has been embargoed by the Department of the Interior because of the fear that some day there might be insufficient water for the extensive North Platte Project in Eastern Wyoming and Western Nebraska. This fear has been proven fallacious by careful engineering studies of the past six years. The early behavior of the North Platte River (when water demands of large areas were suddenly imposed upon the river in Western Nebraska shocking it), is largely responsible for this belief, and is similar to irrigation history on the South Platte, Rio Grande, and other western rivers where irrigation is extensively practiced.

"Headgate diversion" per acre per year was the old *"yard stick"* applied to water supply of the North Platte River during the period of rapid irrigation growth. At that time headgate diversions were practically a total loss to the river, because the canal losses and deep percolation from irrigation in the fields went to fill the underground soil reservoir. The soil reservoir in the North Platte Valley under the Interstate, Tri-State and other large canals has now become filled, and the canal and lateral losses and deep percolation from the irrigated fields (which amount to 50 per cent or more of the headgate diversions), return to the North Platte River as invisible return-flow and drainage recovery, approximately $750,000 having been expended on drain ditches in this area. The 1924 measured return-flow of the North Platte River between the Wyoming Line and Bridgeport, Nebraska, totaled 550,000 acre-feet.

"Consumptive Use" per acre per year (the difference between headgate diversions and return-flow) is the new basis used to measure and study the water supply of the North Platte River Basin and other river systems.

The determination of consumptive use is a progressive science. It is interesting to note that successive studies on consumptive use show decreasing values with improvement in methods of ascertainment. The more accurate the study and the older the irrigated area, the less the consumptive use.

During 1918 and 1919 a joint engineering field and office study of the entire North Platte River Basin from North Park, Colorado, to Kearney, Nebraska, was made by the United States Reclamation Service and the State of Wyoming. Harold Conkling and R. I. Meeker were the engineers, respectively, for the U. S. R. S. and the State of Wyoming. A voluminous report was the outcome of this engineering investigation. This report, known as

the Conkling-Meeker report, demonstrated the sufficiency of the water supply for all lands in the North Platte Basin in the three states likely of economic development. A board of review of three engineers affirmed the findings of the Conkling-Meeker report.

During 1924 additional studies of the Colorado area were made by Engineer Meeker.

Rio Grande Interstate Compact

Legislative enactments by the States of New Mexico and Colorado were made in 1923 providing for a compact on the Rio Grande. Texas was also invited to participate at that time. Since then Texas has awakened to the wisdom of the movement, and has requested time for legislative enactment. The Rio Grande Commission, as organized at Colorado Springs in October, 1924, consists of

For the United States, *Herbert Hoover, Washington, D. C.
For New Mexico, J. O. Seth, Santa Fe, New Mexico.
For Colorado, Delph E. Carpenter, Greeley, Colorado.
*Chairman.

Hearings in various parts of the Rio Grande Basin have been arranged for during 1925, as soon as Texas appoints a commissioner.

The Rio Grande is Colorado's oldest interstate river problem. The Colorado area was embargoed in 1896 because of the international situation with Mexico. After the international adjustment the Reclamation Service insisted on a continued embargo from 1907 to the present time on grounds of insufficient water supply for the Elephant Butte Reservoir. Slight concessions were made in 1907 for projects initiated prior to 1903. The Rio Grande embargo is parallel to the North Platte embargo, and has long been a thorn in Colorado's side.

Engineering field and office studies of the Rio Grande Basin have been carried on over a period of years by the State of Colorado under the direction of R. I. Meeker, Engineer. A series of six comprehensive reports dealing exhaustively of the water problems of the San Luis Valley and the Rio Grande Basin were prepared in 1924 by R. I. Meeker assisted by Engineer Royce J. Tipton of Monte Vista, Colorado, and will be used at Rio Grande hearings during 1925.

Arkansas River Compact

Legislative enactments were made by the States of Kansas and Colorado in 1921, and again in 1923. The commission at present consists of

For Kansas, George S. Knapp, Topeka, Kansas.
For Colorado, Delph E. Carpenter, Greeley, Colorado.

Negotiations are in active progress on this river at the present time. Comprehensive engineering field and office studies covering a period of several years have been made of irrigated areas in the two states by the State Engineer's Office under the direction of R. G. Hosea, M. C. Hinderlider and R. I. Meeker.

CHAPTER XI

NEEDS OF OFFICE AND RECOMMENDATIONS

One of the needs of the office is the adoption of a modern system for filing all correspondence and provision for suitable filing devices. The present system is obsolete, cumbersome and unsatisfactory.

Additional vault equipment for handling the ponderous plat books, of which there are more than 70, each weighing about 60 pounds, would materially add to the efficiency of the office.

An important aid toward increasing the usefulness of the office would be the publication of a weekly bulletin by the State Engineer, dealing with problems of water distribubtion, pertinent court decisions, water supply and moisture conditions, statistics, ditch management, river losses and return flow, problems of exchange, rotation and administration, crop data, remedial legislation, practical problems of hydraulics, water application, usage and waste, drainage, reclamation, etc. Such a publication would also provide an open forum for the water users for the exchange of their views with this office and others interested in problems common to our State.

Colorado, next to California, has the largest area of irrigated land in the Union. Unlike California and some other states, however, we have neglected to adequately foster development of our water resources. Such development has been permitted to proceed more or less in a haphazard manner with no systematic planning based upon a preconceived plan of procedure. Cities and states today are realizing the need of well thought out plans for future expansion and development. Realizing this need a few years ago, the State of California adopted measures for taking a complete inventory of her water resources and possibilities for future development, and provided ample funds for the State Engineer to put such plan into execution. As a result, that state has a complete compilation of all available data pertaining to the water resources and related potentialities of the state, upon which systematic planning may be based.

A large accumulation of valuable data on our water resources and possibilities for development has been gathered by employees of this office, but is of little value to the public through lack of funds for publishing same.

Provision should also be made for the publication of a volume containing a record of all water decrees and live appropriations of water of record in this office.

Another much felt want is that of an up-to-date revision of the digest of the irrigation statutes, supreme court decisions and statutory provisions pertaining to this office, published in 1909 under the direction of a former State Engineer.

In addition to the above there should be prepared for the use of our water officials, a pocket manual of brief gleanings from

our statutes and supreme court decisions pertaining to irrigation practice.

One of the objectives to be sought is a system of daily reports on stream-flow, water diversions and storage and other similar data for each of our more important drainage basins. Such a system is in operation on the Arkansas River and has been found of inestimable value in the administration of the decrees by the water officials. It is also a most potent factor in the elimination of friction between the water users and water officials. The printed daily reports also provide a permanent record of great value for future use. This daily bulletin or report is principally for the benefit of the water users and hence should be financed by the latter, preferably through the organization of Water Users Associations, as is being done in the Arkansas Valley.

While it is believed that much good has resulted from placing water officials under Civil Service, yet the present system has a strong tendency to defeat the purposes for which it was inaugurated, in lowering the efficiency and initiative of the employee. The greatest improvement in this respect has been in the office of the water commissioner and deputy.

While much yet remains to be done in improving this particular branch of the service, the present conditions are an improvement over those which formerly obtained. It is believed, however, that provision should be made for retiring all employees at certain age limits, such system being recognized in governmental departments.

It is understood that an effort will be made to enact legislation at the coming session of the Legislature, which will automatically increase the compensation of all State employees up to a certain limit. In this connection we wish to respectfully call your attention to the conditions which prevail in this office. The compensation now paid the head and assistants of this department is most unjust when consideration is taken of the fact that there is no other department of the State which bears such vital relation to our most important industry, nor is charged with greater responsibilities.

While Colorado is famous for the wealth her metalliferous mines have produced, yet such industries are of a transitory nature. The actual and permanent prosperity of this State is dependent upon our land and water resources. Stabilized stock-raising and feeding, a very necessary accessory to our farming industry, would not be possible without ample supplies of food products, which in turn are the result of the application of our water resources to the soil.

This office then has to do with the upbuilding of the principal source of our wealth, since it is under the supervision of this office and the water officials that all the waters of the State are stored and distributed, all dams for conserving water constructed, all irrigation district systems supervised and built, and all data on water supply collected and reported. This office may not be

considered a necessary evil as are some, neither is it the source of large expenditures of the people's money. On the contrary, all its activities are of a creative nature, designed for and directed to the creation of wealth. Hence we believe that most substantial recognition should be accorded this department in the way of appropriations for an increase in salaries commensurate with the importance of the work and the necessities for securing and maintaining trained specialists such as the activities of the office and services to the people demand.

Provision should also be made for employing additional hydrographers to more effectively meet the demand from the water users in this respect.

As heretofore stated, the entire cost to the taxpayer for running the State Engineer's Department amounts to less than 1½c per acre of irrigated land per year. Based upon the relative proportion of taxes paid by the agricultural and other interests of the State, this amounts to a cost to the farming industry of less than 1c per acre per year. An appropriation amounting to 2c per acre per year, would enable this office to greatly expand its activities along present lines of work and at the same time undertake new investigations which would be of great value to the agricultural, stock-feeding and commercial industries of the State.

CHAPTER XII

RECOMMENDED LEGISLATION

The following legislation designed for increasing the efficiency and usefulness of this office, is recommended.

Section 1818 of the Compiled Laws of 1921 should be amended to provide that all ditches with decrees amounting to 10 second feet or more be required to install automatic water stage registers under the supervision of the State Engineer with provision, however, that such requirement in respect to any ditch may be dispensed with at the discretion of the State Engineer.

Due to the heterogeneous mass of river obstructions consisting of diversion dams, embankments, river controls, bridge abutments and piers which are rapidly changing the safe flowage of our public streams thereby becoming a menace to diversion works and to property along the same, there should be enacted legislation which would provide that no structures could be built in any of our natural streams or adjacent to the same tending to impede the flow without first having had the plans for such structures approved by the State Engineer.

Section 1686 of the Compiled Laws of 1921 relating to the inspection of dams, should be amended to provide for the employment of an inspector, competent through experience, to supervise such works at a salary to be determined by the State Engineer and which, in no case, would exceed $15.00 per day, together with necessary living expenses, such services and expenses to be paid by the owner or owners of the dam in question.

Section 1685, Compiled Laws of 1921, pertaining to the construction of dams, should be amended to read as follows:

> "No reservoir of a capacity of more than 150 acre-feet of water or having a dam or embankment of a maximum height in excess of 10 feet above the lowest point in the valley floor under the dam, or having a surface area at high water line in excess of 20 acres, shall hereinafter be constructed in this State except that the plans and specifications for the same shall have first been approved by the State Engineer; and the State Engineer shall act as supervising engineer during the construction thereof, and shall have authority to require the material used and the work of construction to be done to his satisfaction; and no work shall be deemed complete, under the provisions of this act, until the State Engineer shall furnish to the owners of such structures a written statement of the work of construction and the full completion thereof, together with his acceptance of the same, which statement shall specify the dimensions of such dam and capacity of such reservoir or reservoirs."

CHAPTER XIII

TABLES OF STREAM DISCHARGE

WITH LOCATION AND DESCRIPTION
of
ALL GAGING STATIONS MAINTAINED
IN COLORADO
BY THE OFFICE OF STATE ENGINEER
AND THRU CO-OPERATION WITH
THE UNITED STATES GEOLOGICAL SURVEY
OTHER STATES AND CORPORATIONS

PLATTE RIVER DRAINAGE

SOUTH FORK OF SOUTH PLATTE RIVER AT LAKE GEORGE

Location—At highway bridge in Sec. 19, T. 12 S., R. 71 W., one-fourth mile below Lake George.

Records Available—October 22, 1910, to September 30, 1924.

Gage—Automatic and staff gages.

Accuracy—Records considered good.

NORTH FORK OF SOUTH PLATTE RIVER AT SOUTH PLATTE

Location—In Sec. 25, T. 7 S., R. 70 W., one-third mile above South Platte.

Records Available—January 4, 1909 to September 30, 1910. April 1, 1913, to September 30, 1924.

Gage—Inclined staff.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

SOUTH PLATTE RIVER AT SOUTH PLATTE

Location—In Sec. 25, T. 7 S., R. 70 W., three-fourths of a mile east of South Platte and about 300 feet below junction of North and South Forks.

Records Available—March 28, 1902, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Estimates are considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

SOUTH PLATTE RIVER AT DENVER

Location—Between 15th Street and 16th Street bridges in Denver and about 500 feet below the mouth of Cherry Creek.

Records Available—May 7, 1895, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Estimates considered good.

SOUTH PLATTE RIVER NEAR KERSEY

Location—Fifty feet below highway bridge in Sec. 9, T. 5 N., R. 64 W., and one and three-quarters miles north of Kersey.

Records Available—April 27, 1901, to October 31, 1903; March 1, 1905, to November 30, 1912; January 1, 1914, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Estimates considered fair.

SOUTH PLATTE RIVER AT BALZAC

Location—One-half mile below highway in Sec. 13, T. 5 N., R. 55 W., and three-quarters mile east of Balzac.

Records Available—January, 1917, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Estimates considered fair.

SOUTH PLATTE RIVER AT OVID

Location—At highway bridge south of Ovid in Sec. 8, T. 11 N., R. 45 W., Lodge Pole Creek enters one-half mile below station.

Records Available—At Julesburg April 2, 1902, to November 16, 1906; May 12, 1908, to May 10, 1922; at Ovid May 11, 1922, to September 30, 1924.

Gage—Automatic recording gage and chain gages.

Accuracy—Estimates considered fair.

Co-operation—Station maintained in co-operation with the Great Western Sugar Company.

BEAR CREEK AT STARBUCK

Location—In Sec. 32, T. 4 S., R. 70 W., at highway bridge at Starbuck postoffice.

Records available—October 1, 1919, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

CLEAR CREEK NEAR GOLDEN

Location—In Sec. 32, T. 3 S., R. 70 W., one and one-half miles above Golden.

Records Available—December 4, 1908, to December 31, 1909; June 8, to September 24, 1911; January 26, 1912, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Records were furnished by the United States Geological Survey.

SOUTH BOULDER CREEK AT ELDORADO SPRINGS

Location—In Sec. 30, T. 1 S., R. 70 W., at Eldorado Springs.

Records Available—May 15, 1895, to September 30, 1901; July 1, 1904, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Estimates considered good.

BOULDER CREEK NEAR ORODELL

Location—One mile above Orodell in Sec. 34, T. 1 N., R. 71 W.

Records Available—May 12, 1917, to September 30, 1924. From May 14, 1895, to December 20, 1909, station was located 4 miles below present station. From March 8, 1907, to November 26, 1914, and February 27 to December 12, 1916, the station was located one mile below present station. Four Mile Creek enters one and one-half miles below present station.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with Public Service Company.

ST. VRAIN CREEK AT LYONS

Location—Three-fourths mile below Lyons in Sec. 17, T. 3 N., R. 70 W., and one-fourth mile below the junction of the North and South Forks.

Records Available—August 1, 1887, to October 31, 1890; June 13, 1895, to October 31, 1903; July 1, 1904 to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

BIG THOMPSON RIVER NEAR DRAKE

Location—In the N.W.¼ Sec. 2, T. 5 N., R. 71 W., at Halfway, one-half mile east of Drake.

Records Available—September 18, 1917, to September 30, 1924.

Gage—Vertical staff.

Accuracy—Records considered good.

Co-operation—Records are furnished by the United States Geological Survey.

CACHE LA POUDRE RIVER AT MOUTH OF CANON NEAR FORT COLLINS

Location—In Sec. 15, T. 8 N., R. 70 W., 3 miles below the intake of Fort Collins Water Works.

Records Available—May 15, 1884, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

CACHE LA POUDRE RIVER NEAR MOUTH

Location—In Sec. 2, T. 5 N., R. 65 W. 2 miles east of Greeley just below highway bridge.

Records Available—March 24, 1903, to November 30, 1904; February 1, 1914, to December 17, 1919, and May 27 to September 21, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the Greeley-Poudre Irrigation District.

LODGEPOLE CREEK AT OVID

Location—At highway bridge in the town of Ovid in Sec. 8, T. 11 N., R. 45 W., one-half mile south of Lincoln highway.

Records Available—Oct. 1, 1923, to September 30, 1924.

Gage—Vertical staff gage.

Accuracy—Records considered fair.

NORTH PLATTE RIVER NEAR WALDEN

Location—In Sec. 12, T. 8 N., R. 81 W., on highway bridge 9 miles southwest of Walden. Roaring Fork enters above station.

Records Available—May 13, 1904, to October 31, 1905 and October 1, 1923, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

NORTH PLATTE RIVER NEAR NORTH GATE

Location—In Sec. 11, T. 11 N., R. 80 W., at highway bridge 6 miles south of Colorado-Wyoming line.

Records Available—May 23, 1915, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Results considered good.

Co-operation—Station maintained by the United States Geological Survey.

BIG GRIZZLY CREEK NEAR WALDEN

Location—Sec. 14, T. 7 N., R. 81 W., 14 miles southwest of Walden.

Records Available—May 13, 1904, to October 31, 1905, and May 1 to September 30, 1923.

Gage—Chain gage on highway bridge.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

ROARING FORK NEAR WALDEN

Location—In Sec. 11, T. 8 N., R. 81 W., on highway bridge 10 miles southwest of Walden.

Records Available—July 20, 1904, to October 31, 1905, and October 27, 1923, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with United States Geological Survey.

NORTH FORK OF THE NORTH PLATTE RIVER NEAR WALDEN

Location—In Sec. 19, T. 9 N., R. 80 W., about one-fourth mile above mouth and 8 miles west of Walden.

Records Available—May 14, 1904, to October 31, 1905, and October 1 to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

ILLINOIS CREEK NEAR WALDEN

Location—Sec. 20, T. 9 N., R. 79 W., on highway bridge one-half mile north of Walden.

Records Available—May 1, 1917, to August 31, 1918, and May 1, 1923, to September 30, 1924.

Gage—Staff gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

MICHIGAN RIVER NEAR WALDEN

Location—Sec. 20, T. 9 N., R. 79 W., on highway bridge north of Walden.

Records Available—May 8, 1904, to October 31, 1905; June 1, 1918, to July 26, 1918, and May 1, 1923, to September 30, 1924.

Gage—Chain gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

LARAMIE RIVER NEAR GLENDEVEY

Location—In Sec. 36, T. 10 N., R. 76 W., 5 miles east of Glendevey Postoffice.

Records Available—June 24, 1904, to October 31, 1905, and August 18, 1910, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

LARAMIE RIVER NEAR JELM, WYOMING

Location—At highway bridge in Sec. 15, T. 12 N., R. 77 W., one-fourth mile south of the Colorado-Wyoming line.

Records Available—May 7, 1911, to September 30, 1924. From June 22, 1904, to October 31, 1905, a station was maintained three-fourts of a mile south of this station.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained by the United States Geological Survey.

Discharge of South Fork of South Platte River at Lake George for Year Ending Sept. 30, 1923.
Drainage Area, 1,070 Square Miles. Altitude, 7,963 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	35	156	30	20	10	7	75	57	81	182	239	285
2....	35	163	30	19	8	7	78	55	86	186	302	285
3....	84	160	22	19	7	8	70	55	86	169	306	262
4....	112	163	24	19	7	7	70	58	98	132	345	254
5....	120	138	24	18	7	6	60	60	115	169	306	246
6....	126	144	27	20	8	6	65	77	112	153	266	246
7....	126	150	27	20	6	8	102	102	98	179	228	239
8....	132	147	27	20	7	8	120	102	100	186	281	154
9....	126	150	16	15	7	8	110	102	169	244	355	122
10....	120	166	18	15	7	12	120	105	267	240	327	106
11....	126	182	20	13	7	12	122	108	248	291	428	95
12....	135	204	20	14	7	14	140	112	147	480	460	95
13....	153	214	20	12	7	14	160	126	115	433	482	111
14....	153	214	20	10	7	16	210	193	141	556	544	138
15....	150	172	20	11	7	18	225	259	169	724	567	190
16....	150	144	20	12	7	22	200	251	189	784	567	147
17....	138	118	18	12	7	22	207	248	248	1030	471	262
18....	141	95	13	11	7	20	211	222	279	532	515	345
19....	144	72	18	11	7	20	214	211	244	650	504	368
20....	141	65	20	11	7	22	166	193	196	712	632	341
21....	141	30	18	11	7	22	135	200	225	538	561	323
22....	150	32	17	10	7	22	105	207	331	388	590	314
23....	150	34	17	10	7	20	86	225	295	398	532	289
24....	150	40	17	10	7	28	74	207	251	327	521	306
25....	150	28	17	11	7	24	72	126	229	293	413	314
26....	150	32	17	14	7	23	72	98	233	355	350	289
27....	144	35	16	14	7	23	72	77	225	561	319	285
28....	147	35	16	14	8	22	67	69	229	476	269	285
29....	147	34	20	14	....	30	65	81	211	345	254	273
30....	144	30	20	10	....	35	60	102	182	266	285	173
31....	135	....	19	10	....	60	....	90	....	221	281	....
Total	4055	3347	628	430	201	566	3533	4178	5599	12200	12500	7142
Mean.	131	112	20.3	13.9	7.18	18.3	118	135	187	394	403	238
Max..	153	214	30	20	10	60	225	259	331	1030	632	368
Min...	35	28	13	10	6	6	60	55	81	132	228	95
Acre-ft.	8060	6660	1250	855	399	1130	7020	8300	11100	24200	24800	14200

Discharge of South Fork of South Platte River at Lake George for Year Ending Sept. 30, 1924.
Drainage Area, 1,070 Square Miles. Altitude, 7,963 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	133	133	....	....	....	....	180	147	314	90	266	18
2....	130	144	....	....	....	....	180	144	289	93	262	16
3....	160	144	....	....	....	....	220	150	254	100	254	18
4....	186	138	....	....	....	....	250	154	221	98	246	17
5....	221	130	....	....	....	....	270	144	214	103	232	16
6....	242	127	....	....	....	....	289	133	217	144	239	18
7....	214	122	....	....	....	....	144	108	214	163	250	22
8....	136	113	....	....	....	....	266	88	190	203	258	17
9....	111	122	....	....	....	....	590	83	170	258	273	17
10....	93	116	....	....	....	....	345	76	133	258	273	19
11....	93	136	....	....	....	....	250	78	100	190	269	25
12....	127	124	....	....	....	....	203	68	108	200	254	28
13....	141	116	....	....	....	....	246	53	154	207	224	28
14....	144	98	....	....	....	....	262	44	228	200	193	25
15....	147	98	....	....	....	....	242	30	258	186	103	20
16....	170	127	....	....	....	....	203	28	258	186	71	17
17....	183	113	....	....	....	....	166	51	239	193	62	19
18....	176	103	....	....	....	....	144	88	210	203	51	18
19....	166	100	....	....	....	....	157	113	173	224	37	17
20....	160	98	....	....	....	....	173	150	173	217	29	16
21....	154	98	....	....	....	....	163	138	163	224	29	14
22....	144	98	....	....	....	....	138	136	154	224	25	12
23....	133	98	....	....	....	....	136	138	150	232	26	11
24....	147	116	....	....	....	....	130	138	138	239	25	12
25....	157	116	....	....	....	....	136	136	136	228	24	15
26....	160	53	....	....	....	....	147	124	130	228	24	16
27....	150	57	....	....	....	....	141	176	133	235	24	17
28....	157	54	....	....	....	....	122	232	136	242	20	16
29....	154	54	....	....	....	....	130	254	116	235	19	15
30....	136	58	....	....	....	....	150	289	95	246	17	13
31....	124	....	....	....	....	....	....	310	....	258	16	....
Total	4749	3204	....	....	....	....	6173	4001	5468	6107	4095	532
Mean.	153	107	....	....	....	....	206	129	182	197	132	17.7
Max..	242	144	....	....	....	....	590	310	314	258	273	28
Min..	93	54	....	....	....	....	122	28	95	90	16	11
Acre-ft.	9410	6370	....	....	....	....	12300	7930	10800	12100	8120	1050

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of South Platte River at South Platte for Year Ending Sept. 30, 1923.
Drainage Area, 450 Square Miles. Altitude, 6,097 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	108	88	38	....	....	....	111	187	668	485	470	480
2....	91	88	42	....	....	....	104	192	656	475	362	420
3....	88	75	69	....	....	....	77	218	624	450	348	371
4....	81	81	64	....	....	....	84	204	612	500	380	335
5....	81	75	52	....	....	....	71	246	651	465	362	335
6....	81	34	47	....	....	....	90	260	629	420	315	395
7....	81	42	52	....	....	....	118	226	624	410	405	335
8....	81	69	42	....	....	....	84	246	725	410	455	278
9....	81	69	26	....	....	....	90	254	860	510	358	260
10....	81	75	17	....	....	....	77	260	848	520	415	246
11....	81	64	52	....	....	....	90	315	912	495	515	260
12....	81	47	47	....	....	....	97	260	945	495	568	260
13....	81	30	64	....	....	....	97	240	971	520	440	278
14....	81	47	64	....	....	....	90	240	945	530	415	295
15....	88	75	52	....	....	....	97	246	958	546	440	315
16....	69	69	42	....	....	....	97	204	1060	629	505	267
17....	47	108	26	....	....	....	118	231	1040	520	495	267
18....	47	81	12	....	....	....	130	246	860	455	568	303
19....	69	52	23	....	....	....	148	278	828	530	731	295
20....	75	75	52	....	....	....	135	380	797	470	585	267
21....	79	38	47	....	....	....	126	405	906	515	607	231
22....	88	42	47	....	....	49	135	395	707	480	662	218
23....	81	52	69	....	....	44	118	455	695	415	607	231
24....	88	75	69	....	....	60	118	480	695	380	607	231
25....	81	42	58	....	....	60	144	558	662	366	563	199
26....	81	47	38	....	....	51	132	629	640	445	530	180
27....	75	75	34	....	....	60	150	695	651	530	495	192
28....	69	69	58	....	....	60	163	668	574	558	455	185
29....	88	64	58	....	....	77	159	585	574	430	455	180
30....	69	69	42	....	....	90	185	574	541	405	405	180
31....	64	....	14	....	....	108	....	596	....	348	445	....
Total	2436	1917	1417	....	....	659	3435	10973	22858	14707	14963	8289
Mean.	78.6	63.9	45.7	....	....	....	114	354	762	474	483	276
Max..	108	108	69	....	....	....	185	695	1060	629	731	480
Min..	47	30	12	....	....	....	71	187	541	348	315	180
Acre-ft.	4830	3800	2810	....	....	....	6780	21800	45300	29100	29700	16400

Discharge of North Fork of South Platte River at South Platte for Year Ending Sept. 30, 1924.
Drainage Area, 450 Square Miles. Altitude, 6,097 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	192	197	138	....	....	40	42	288	585	430	205	138
2....	204	197	114	....	....	40	54	288	755	430	185	130
3....	218	190	122	....	....	40	54	327	880	358	175	122
4....	278	174	107	....	....	40	79	380	1080	410	181	74
5....	254	178	100	....	....	40	91	445	1150	382	181	66
6....	226	174	114	....	....	43	95	450	1220	410	205	66
7....	240	190	148	....	....	43	125	385	1300	430	185	71
8....	212	182	114	....	....	43	161	385	1220	470	165	66
9....	187	174	100	....	....	43	172	385	1010	430	122	66
10....	187	190	100	....	....	43	133	385	945	430	115	66
11....	194	190	100	....	....	43	133	390	1100	410	108	82
12....	207	174	100	....	....	43	117	425	1120	343	112	94
13....	207	157	100	....	....	43	161	475	1220	309	101	82
14....	220	148	100	....	....	43	207	425	1230	285	101	76
15....	220	138	100	....	....	43	264	475	1180	255	98	76
16....	190	148	100	....	....	43	215	505	1080	250	94	66
17....	209	122	86	....	....	43	148	530	1010	270	88	71
18....	167	122	93	....	....	54	190	558	912	270	88	66
19....	202	130	100	....	....	43	215	558	848	230	82	76
20....	190	114	95	....	....	43	202	530	695	218	76	66
21....	190	130	95	....	....	43	209	530	660	225	76	71
22....	174	138	95	....	....	43	223	530	635	225	76	71
23....	174	130	95	....	....	39	251	515	620	210	76	66
24....	209	157	95	....	....	51	284	480	585	185	66	66
25....	185	135	95	....	....	54	197	480	560	201	76	50
26....	192	100	95	....	....	48	204	558	551	175	71	62
27....	192	110	95	....	....	48	246	585	515	161	66	71
28....	192	93	95	....	....	62	231	558	524	185	66	66
29....	204	100	95	....	....	39	231	505	506	205	101	62
30....	180	167	95	....	....	35	260	455	479	161	138	57
31....	180	....	95	....	....	27	....	528	....	147	147	....
Total	6276	4549	3176	....	....	1345	5194	14313	26175	9100	3626	2262
Mean.	202	152	102	....	....	43.4	173	462	872	294	117	75.4
Max..	278	197	....	....	....	....	284	585	1300	470	205	138
Min..	167	93	....	....	....	....	42	288	479	147	66	50
Acre-ft.	12400	9040	6270	....	....	2670	10300	28400	51900	18100	7190	4490

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at South Platte for Year Ending Sept. 30, 1923.
Drainage Area, 450 Square Miles. Altitude, 6,097 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	245	132	128	....	....	....	185	379	700	849	964	932
2....	242	137	123	....	....	....	170	399	715	805	970	915
3....	245	129	137	....	....	....	160	411	705	795	964	854
4....	254	138	137	....	....	....	130	391	650	1090	954	795
5....	251	135	129	....	....	....	110	395	735	1050	1010	760
6....	248	108	122	....	....	....	170	391	760	1040	926	790
7....	248	140	132	....	....	....	190	379	755	1040	1020	725
8....	245	144	126	....	....	....	180	314	705	1080	1010	650
9....	237	142	110	....	....	....	156	297	816	1100	904	570
10....	237	145	130	....	....	....	138	310	893	1120	942	519
11....	237	137	160	....	....	....	147	345	832	1150	1110	488
12....	237	120	150	....	....	....	154	328	893	1150	1160	474
13....	231	97	158	....	....	....	164	320	937	1180	1270	470
14....	226	100	158	....	....	....	156	345	970	1250	1220	506
15....	181	140	160	....	....	....	152	331	994	1220	1390	550
16....	179	135	150	....	....	....	156	328	1080	1520	1390	560
17....	108	145	140	....	....	....	166	349	1050	1260	1380	600
18....	124	137	134	....	....	....	183	427	937	832	1310	795
19....	129	126	166	....	....	....	202	431	888	854	1370	920
20....	132	126	166	....	....	....	190	448	860	882	1390	915
21....	269	102	162	....	....	....	162	452	932	932	1550	904
22....	179	101	154	....	....	....	170	496	805	1290	1530	816
23....	140	128	140	....	....	....	162	492	770	1170	1500	745
24....	145	140	144	....	....	....	152	427	898	1100	1540	740
25....	144	129	140	....	....	....	160	478	860	1010	1410	740
26....	130	130	155	....	....	....	275	585	775	1050	1300	705
27....	129	149	115	....	....	....	345	665	755	1290	1190	655
28....	128	145	140	....	....	....	353	675	904	1430	1110	620
29....	130	138	140	....	....	....	360	610	888	1320	1040	600
30....	134	142	120	....	....	....	375	585	860	1080	976	575
31....	122	....	80	....	....	152	....	655	....	926	942	....
Total	5886	3917	4306	4154	3612	3844	5773	13438	24322	33865	36742	20888
Mean.	190	131	139	134	129	124	192	433	844	1090	1190	696
Max..	269	149	166	....	....	....	375	675	1080	1520	1550	932
Min..	108	97	80	....	....	....	110	297	650	795	904	470
Acre-ft.	11700	7800	8550	8240	7160	7620	11400	26600	50200	67000	73200	41400

Discharge of South Platte River at South Platte for Year Ending Sept. 30, 1924.
Drainage Area, 2,610 Square Miles. Altitude, 6,097 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	524	542	255	....	....	....	100	810	1620	690	586	398
2....	519	528	220	....	....	....	125	780	1880	672	582	390
3....	578	537	240	....	....	....	110	765	2060	654	510	374
4....	676	514	232	....	....	....	140	860	2100	627	494	326
5....	705	510	226	....	....	....	180	956	2140	622	498	298
6....	695	502	234	....	....	....	210	968	2200	650	510	308
7....	690	502	287	....	....	....	260	973	2180	790	494	318
8....	618	502	274	....	....	....	440	940	2090	1060	462	312
9....	560	502	264	....	....	....	370	900	1860	1070	450	308
10....	514	482	234	....	....	....	400	865	1780	1120	546	308
11....	474	502	203	....	....	....	935	875	1750	940	528	343
12....	555	482	206	....	....	....	805	915	1730	860	645	350
13....	568	458	215	....	....	....	755	951	1780	1020	537	332
14....	573	438	225	....	....	....	890	940	1820	1010	546	326
15....	582	406	235	....	....	....	1090	930	1850	962	474	329
16....	578	402	215	....	....	....	995	956	1850	962	462	255
17....	614	370	225	....	....	....	760	984	1780	865	560	237
18....	614	354	240	....	....	....	705	1020	1660	810	555	237
19....	591	346	255	....	....	....	690	1060	1540	760	550	243
20....	560	346	265	....	....	....	686	1040	1330	795	568	240
21....	532	346	280	....	....	....	765	1080	1220	984	555	246
22....	532	346	290	....	....	....	765	1070	1090	915	434	232
23....	573	340	270	....	....	....	775	1000	1010	835	326	200
24....	650	370	270	....	....	....	850	951	946	710	350	178
25....	614	362	280	....	....	....	890	951	910	755	346	148
26....	600	318	300	....	....	....	860	984	860	855	346	112
27....	614	308	315	....	....	....	860	1030	810	820	343	114
28....	604	181	290	....	....	....	765	1100	775	710	336	116
29....	604	165	305	....	....	....	740	1210	755	596	350	106
30....	568	246	305	....	....	....	790	1300	730	555	406	106
31....	546	....	240	....	....	....	....	1400	....	537	398	....
Total	18225	12207	7895	5642	4466	4154	18706	30564	46106	25211	14747	7790
Mean.	588	407	255	182	154	134	624	986	1540	813	476	260
Max..	705	542	315	....	....	....	1090	1400	2200	1120	645	398
Min..	474	165	203	....	....	....	100	765	730	537	326	106
Acre-ft.	36200	24200	15700	11200	8860	8240	37100	60600	91600	50000	29300	15500

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Denver for Year Ending Sept. 30, 1923.
Drainage Area, 3,840 Square Miles. Altitude, 5,240 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	193	128	130	115	135	187	262	202	205	332	810	1140
2....	184	130	122	138	117	215	218	181	205	449	997	1060
3....	178	122	128	103	88	178	155	384	202	449	881	1060
4....	166	160	117	125	110	238	76	280	199	703	808	997
5....	206	190	86	105	152	112	80	152	259	714	826	869
6....	266	160	96	138	138	112	115	262	329	615	1640	869
7....	280	117	105	158	152	110	209	225	508	579	1500	838
8....	245	115	118	146	166	105	155	356	533	589	1480	626
9....	212	115	130	101	141	108	112	255	1090	610	1470	533
10....	206	112	144	128	120	84	76	222	1980	698	1190	397
11....	199	128	172	110	117	86	74	259	1770	772	1130	302
12....	212	130	152	122	184	72	84	376	1640	2070	2110	287
13....	215	158	187	117	187	59	72	332	1530	1020	1790	294
14....	206	181	193	103	155	76	84	494	1300	1140	1820	418
15....	184	225	218	99	138	52	92	553	1170	1140	1930	340
16....	130	187	209	135	152	76	59	294	1310	1710	1950	422
17....	128	190	202	215	155	120	59	215	1470	1960	2150	480
18....	112	206	172	245	149	52	59	215	1250	1550	2260	548
19....	107	175	238	212	172	222	66	340	1070	1460	1920	732
20....	99	144	259	175	172	252	181	380	958	1310	1950	820
21....	97	130	222	160	160	135	184	476	951	1290	1800	820
22....	235	133	238	138	187	199	228	508	919	1120	2550	766
23....	184	138	242	152	193	222	218	453	563	1240	1920	648
24....	125	141	291	166	231	255	144	471	518	1140	2100	584
25....	105	138	302	166	155	193	152	273	449	749	1920	594
26....	105	120	321	175	125	146	169	231	414	802	1670	584
27....	103	133	284	206	125	152	280	266	328	1290	1630	548
28....	92	133	251	120	155	149	291	449	294	1630	1510	523
29....	101	130	225	135	....	155	202	332	321	1560	1350	499
30....	115	138	215	135	....	199	202	273	269	1180	1240	476
31....	117	....	103	133	....	222	....	231	....	1120	1200	....
Total	5107	4407	5872	4476	4231	4443	4358	9940	24004	32991	49502	19074
Mean.	165	147	189	144	151	143	145	321	800	1060	1600	636
Max..	280	225	321	245	231	255	262	501	1980	2070	2550	1140
Min..	92	112	86	99	88	52	59	152	199	332	808	287
Acre-ft.	10100	8750	11600	8850	8390	8790	8630	19700	47600	65200	98400	37800

Discharge of South Platte River at Denver for Year Ending Sept. 30, 1924.
Drainage Area, 3,840 Square Miles. Altitude, 5,240 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	478	925	559	200	488	311	250	1460	2550	261	215	221
2....	502	919	412	261	502	261	282	1510	2750	264	221	209
3....	554	938	391	350	412	271	327	1530	2900	296	221	212
4....	957	912	378	382	300	264	374	1550	2920	478	230	209
5....	860	906	362	334	300	250	366	1630	2790	659	218	166
6....	768	875	370	429	330	244	354	1670	2640	738	221	147
7....	768	856	424	386	338	254	469	1590	2590	726	233	164
8....	710	863	442	382	315	224	564	1570	2360	912	212	152
9....	648	881	386	386	370	282	687	1620	2130	906	200	155
10....	680	838	350	319	334	342	533	1500	1990	850	218	189
11....	720	790	315	311	330	350	790	1350	1840	767	293	271
12....	761	778	374	323	300	315	998	1230	1690	627	275	264
13....	970	743	374	300	464	286	863	1170	1600	743	327	240
14....	875	709	382	304	574	358	919	1150	1630	761	366	224
15....	875	659	403	304	850	315	1090	1090	1640	643	350	215
16....	875	606	370	293	925	315	1330	991	1620	611	293	244
17....	869	538	364	286	687	250	1140	796	1500	595	311	224
18....	900	512	358	293	564	200	951	863	1310	559	362	264
19....	880	502	352	289	442	200	900	887	1140	442	354	230
20....	869	498	346	268	366	210	820	938	970	386	358	215
21....	802	502	340	261	358	210	869	932	863	442	370	224
22....	767	502	335	315	370	221	938	964	772	538	327	192
23....	844	580	330	315	323	261	957	932	643	498	254	161
24....	1130	548	342	319	330	264	984	957	548	395	209	133
25....	1060	533	370	282	271	271	1110	1030	517	330	194	119
26....	998	483	433	296	261	268	1310	1100	446	354	155	118
27....	970	446	424	327	286	275	1310	1220	416	433	130	121
28....	944	395	391	338	308	715	1340	1470	354	438	95	113
29....	957	416	420	338	308	493	1220	1700	330	300	103	113
30....	977	522	399	378	....	342	1410	2200	319	296	133	108
31....	944	....	250	460	....	271	....	2440	....	257	192	....
Total	25912	20175	11746	10029	12006	9093	25455	41040	45768	16505	7640	5617
Mean.	836	673	379	324	414	293	848	1320	1530	532	246	187
Max..	1130	938	559	460	925	715	1410	2440	2920	912	370	271
Min..	478	395	250	200	261	200	250	796	319	257	95	108
Acre-ft.	51400	40000	23300	19900	23800	18000	50500	81200	91000	32700	15100	11100

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Kersey for Year Ending Sept. 30, 1923.
Altitude, 4,612 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	107	174	417	430	604	569	620	317	620	852	1040	764
2....	105	182	421	421	624	574	596	268	560	733	1070	860
3....	103	188	417	421	594	680	578	276	555	602	924	836
4....	107	190	421	430	564	707	543	284	520	534	739	741
5....	114	232	421	434	549	639	508	239	590	453	542	625
6....	120	255	421	434	559	554	475	210	791	320	424	497
7....	118	252	430	443	584	549	436	192	707	294	410	438
8....	118	255	430	457	599	599	409	162	960	288	656	395
9....	118	255	443	457	604	634	431	144	1640	361	504	388
10....	118	255	452	443	604	639	464	138	5360	446	446	354
11....	123	278	466	448	599	634	415	137	16800	633	269	256
12....	128	366	457	443	569	629	389	134	14700	804	162	256
13....	125	358	448	434	589	609	369	133	12700	1220	983	238
14....	123	383	443	426	609	594	359	134	11400	1220	828	262
15....	120	404	443	417	614	594	354	152	11800	1000	820	275
16....	123	404	439	457	609	594	340	345	11800	2020	983	340
17....	128	421	434	426	609	604	326	349	14400	3630	1730	438
18....	147	434	430	434	614	599	369	224	12200	4570	2020	595
19....	160	439	426	443	644	594	322	300	9780	3380	1800	828
20....	152	439	439	430	654	614	300	215	8930	2460	1580	958
21....	152	391	448	426	675	718	331	447	8450	1870	1480	966
22....	168	374	448	443	686	728	384	657	7520	3000	1790	924
23....	174	383	452	526	686	696	458	988	5920	2100	3440	869
24....	188	408	452	564	691	686	492	858	4990	1470	2480	860
25....	226	412	461	594	696	734	492	739	4260	1150	2620	852
26....	220	412	484	604	696	750	447	758	3700	983	2280	804
27....	211	404	470	619	604	691	415	865	3080	1140	1920	756
28....	205	391	470	604	559	686	442	919	2600	2260	1450	788
29....	185	387	475	594	....	660	420	960	1680	1940	1300	796
30....	176	387	466	584	....	670	409	1070	1100	1840	1050	788
31....	163	....	457	589	....	624	....	858	....	1380	900	....
Total	4525	10113	13781	14875	17288	19852	12893	13672	180113	44953	38640	18747
Mean.	146	337	445	480	617	640	430	441	6000	1450	1250	625
Max..	226	439	484	619	696	750	620	1070	16800	4570	3440	966
Min...	103	174	417	417	549	549	300	133	520	288	162	238
Acre-ft.	8980	20100	27400	29500	34300	39400	25600	27100	357000	89200	76900	37200

Discharge of South Platte River at Kersey for Year Ending Sept. 30, 1924.
Altitude, 4,612 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	677	2780	1490	617	1840	686	1750	4570	9970	576	181	138
2....	669	2720	1560	780	1980	714	1810	4540	10300	455	304	126
3....	695	2740	1470	1000	1960	812	1750	4640	10700	380	293	126
4....	742	2830	1460	1000	1670	877	1770	4590	10900	354	287	122
5....	966	2830	1430	1100	1420	877	1900	5090	11200	380	287	122
6....	1040	2780	1440	1100	1350	888	1990	5460	11500	293	293	126
7....	989	2850	1400	1200	1460	877	1960	5430	11800	236	220	126
8....	978	2870	1460	1200	1390	888	2100	4340	11800	374	199	134
9....	910	2850	1510	1300	1330	933	2570	4010	11400	421	204	142
10....	877	2830	1280	1300	1270	933	3210	3900	9850	335	195	154
11....	899	2780	1040	1400	1210	1020	2810	3420	8330	253	195	316
12....	899	2670	1020	1500	1110	1230	2540	2670	7750	209	172	513
13....	1150	2590	1230	1210	1100	1320	2870	2050	7920	195	158	552
14....	1580	2520	1280	1110	1110	1300	2870	1670	8950	176	172	513
15....	1560	2470	1260	1070	1190	1270	3140	1390	9730	154	163	491
16....	1500	2420	1280	1150	1530	1260	3940	1080	9700	146	150	441
17....	1500	2320	1220	1230	1440	1190	4660	802	8500	167	146	354
18....	1560	2160	1180	1150	1330	1160	4520	677	6520	190	142	361
19....	1580	2000	1220	1230	1210	1170	4070	677	4410	209	122	470
20....	1610	1900	1170	1000	1070	1230	3760	877	3290	185	122	617
21....	1540	1880	1060	1200	944	1300	3580	1000	1860	167	118	714
22....	1420	1880	1020	1270	899	1360	3480	966	2080	154	122	677
23....	1420	1770	1010	1260	899	1360	3580	944	2140	158	118	584
24....	1710	1710	955	1370	877	1330	3640	966	1700	158	118	528
25....	2720	1720	1020	1370	866	1300	3840	1070	1800	163	112	477
26....	2780	1650	1080	1360	845	1390	4390	910	1900	163	115	441
27....	2690	1530	1080	1370	780	1670	4680	989	1720	158	122	407
28....	2670	1460	1020	1460	761	2020	4870	3400	1400	150	122	414
29....	2690	1390	978	1500	705	2570	4730	5130	1280	138	130	421
30....	2590	1400	989	1560	....	2370	4280	6600	834	126	134	400
31....	2640	....	600	1650	....	1940	....	9820	....	134	134	....
Total	47251	68300	37212	38017	35546	39242	97060	93678	201234	7357	5350	11007
Mean.	1520	2280	1200	1230	1230	1230	3240	3020	6710	237	173	367
Max..	2780	2870	1560	1650	1840	2570	4870	9820	11800	576	304	714
Min...	669	1390	600	617	705	686	1750	677	834	126	112	122
Acre-ft.	93500	136000	73800	75600	70800	75600	193000	186000	399000	14600	10600	21800

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Balzac for Year Ending Sept. 30, 1923.
Altitude, 4,090 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	103	115	26	17	26	22	32	30	26	392	459	247
2....	95	131	26	28	27	24	36	74	26	263	232	230
3....	89	144	25	40	26	24	32	37	27	212	207	387
4....	103	131	30	37	25	26	30	24	81	201	193	427
5....	103	150	20	28	22	25	31	14	131	200	201	397
6....	115	232	17	27	14	26	32	25	43	200	200	382
7....	134	266	17	30	10	24	32	28	42	207	200	364
8....	128	288	18	30	20	22	30	31	49	207	212	368
9....	103	131	17	28	22	23	31	34	42	207	214	368
10....	89	109	18	28	28	24	45	42	51	214	205	377
11....	84	62	19	28	26	22	47	51	178	255	203	373
12....	101	37	27	26	19	24	28	49	11300	350	237	373
13....	106	37	16	25	11	22	28	28	16800	459	274	422
14....	95	40	31	20	10	24	28	164	12500	359	260	521
15....	92	43	21	22	22	31	27	121	11400	280	287	600
16....	106	28	25	21	20	34	28	27	10300	377	332	625
17....	134	32	43	19	21	40	28	22	10600	448	407	644
18....	175	36	37	19	26	95	28	28	12500	1130	284	644
19....	164	38	18	19	25	62	26	34	13000	1500	354	684
20....	154	40	16	19	25	38	25	40	10100	1290	373	822
21....	151	31	16	18	24	154	21	100	8660	638	287	983
22....	147	26	17	18	22	56	21	47	7440	382	210	925
23....	141	22	17	17	20	36	28	43	6220	432	185	814
24....	144	17	18	17	19	30	28	42	4670	705	277	799
25....	144	15	19	18	22	37	28	36	3140	606	632	740
26....	141	18	20	19	24	38	28	30	2360	453	422	876
27....	131	22	21	17	24	32	28	32	1780	341	373	908
28....	118	25	22	21	21	32	25	32	1340	267	277	853
29....	134	22	22	21	....	38	32	30	974	234	196	755
30....	151	24	20	25	....	40	30	27	670	684	242	740
31....	125	....	22	16	....	32	....	26	....	853	311	....
Total	3800	2312	681	718	601	1157	893	1348	146450	14346	8746	17648
Mean..	123	77.1	22.0	23.2	21.5	37.3	29.8	43.5	4880	463	282	588
Max..	175	288	43	37	27	154	47	164	16800	1500	632	983
Min...	84	15	16	16	10	22	21	14	26	200	185	230
Acre-ft.	7560	4590	1350	1430	1190	2290	1770	2670	290000	28500	17300	35000

Discharge of South Platte River at Balzac for Year Ending Sept. 30, 1924.
Altitude, 4,090 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	587	1780	1250	....	1050	736	1920	3330	5530	454	118	190
2....	559	1780	1220	....	1050	684	1750	3290	6030	348	138	180
3....	550	1760	1160	....	1050	616	1340	3380	7080	246	150	185
4....	635	1780	1130	....	1100	541	1280	3420	8310	207	126	146
5....	736	1780	1100	....	1100	532	1280	3420	8850	220	122	134
6....	843	1820	1110	....	1150	532	1220	3380	9500	266	114	118
7....	1030	1760	1110	....	1150	541	1240	3400	9660	253	93	122
8....	1050	2050	1090	....	1300	625	1200	3400	9960	165	83	142
9....	1030	2250	1110	....	1350	715	1040	3010	10100	180	83	165
10....	910	2230	1000	....	1400	715	958	2380	9860	195	86	170
11....	798	2360	780	....	1400	777	982	1980	8850	200	86	220
12....	809	2640	800	....	1350	922	1070	1580	7020	259	99	317
13....	788	2530	810	....	1250	1130	934	1020	5590	246	86	396
14....	767	2460	820	....	1200	1400	1040	578	4920	207	79	348
15....	1010	2450	860	....	1180	1470	1340	240	5320	200	86	325
16....	1250	2460	940	....	1130	1610	1740	96	6750	220	68	348
17....	1270	2480	1000	....	1110	1660	2280	48	7270	266	43	420
18....	1240	2430	1000	....	1160	1690	2970	96	6400	185	83	487
19....	1200	2400	1000	....	1180	1700	3360	99	4890	190	126	645
20....	1080	2280	1000	....	1160	1720	3250	96	3650	165	93	462
21....	1070	2180	1000	....	1160	1750	2970	134	2810	146	79	445
22....	1080	2170	1000	....	1190	1750	2770	175	2050	142	73	496
23....	1090	2120	1000	....	1200	1780	2450	160	1400	180	68	437
24....	1150	2040	1020	....	1270	1800	2150	160	1020	126	76	310
25....	1050	1660	1020	....	1230	1930	2150	180	854	96	73	236
26....	1100	1520	1020	....	1140	2090	2290	180	809	76	90	165
27....	1650	1440	1020	....	1050	2090	2590	200	736	76	73	150
28....	1740	1410	1020	....	970	2200	2830	340	587	93	76	118
29....	1720	1360	1020	....	832	2040	3130	404	625	170	200	76
30....	1760	1330	1020	....	....	2010	3420	2610	587	130	195	51
31....	1760	....	1020	....	....	1980	....	3760	....	122	190	....
Total	33312	60710	31450	....	33862	41736	58944	46546	157018	6029	3155	8001
Mean.	1070	2020	1010	1040	1170	1350	1960	1500	5230	194	102	267
Max..	1760	2640	1250	....	1400	2200	3360	3760	10100	454	200	645
Min..	550	1330	780	....	832	532	934	48	587	76	43	51
Acre-ft.	65800	120000	62100	63900	67300	83000	117000	92200	311000	11900	6270	15900

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Platte River at Ovid for Year Ending Sept. 30, 1923.
Altitude, 3,531 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	13	23	85	318	298	201	344	281	385	888	368	113
2....	13	28	87	318	297	201	327	268	332	721	494	123
3....	13	29	94	318	308	183	331	263	299	664	468	101
4....	15	39	101	318	307	166	350	232	303	533	367	72
5....	16	37	97	318	299	151	354	197	335	423	350	65
6....	17	62	97	317	300	145	339	162	280	283	372	59
7....	17	107	101	317	291	158	313	133	342	170	363	50
8....	16	148	106	317	292	158	296	110	207	70	365	47
9....	16	159	98	317	291	159	274	108	234	56	314	66
10....	16	156	110	317	307	201	233	91	436	56	281	68
11....	16	155	112	317	307	209	185	82	767	94	229	108
12....	17	125	112	317	329	237	162	64	732	94	273	111
13....	17	119	113	317	328	237	153	64	661	204	282	89
14....	18	168	113	317	328	237	164	82	12000	298	226	84
15....	18	296	121	317	338	246	177	79	16000	281	299	105
16....	18	252	117	317	339	276	202	77	15500	281	343	131
17....	17	216	122	317	350	276	173	79	15200	235	401	209
18....	18	168	134	317	348	318	130	84	16000	258	503	277
19....	18	134	145	317	358	318	105	82	15500	410	533	338
20....	20	129	162	317	358	296	100	72	15500	871	448	416
21....	20	82	163	318	367	282	70	126	16000	1160	443	502
22....	20	111	164	318	367	341	66	382	14000	1050	438	620
23....	20	111	163	318	337	343	128	1000	12600	803	433	722
24....	20	101	163	318	300	314	144	1560	9960	574	396	780
25....	21	96	169	318	273	322	166	876	7240	471	324	757
26....	21	85	218	317	266	301	155	659	5200	569	277	728
27....	20	85	311	317	235	322	176	568	3680	516	365	692
28....	23	82	337	318	225	368	232	550	2420	586	372	687
29....	23	81	346	318	....	350	264	497	1640	470	269	723
30....	25	85	330	318	....	353	286	457	1060	381	175	752
31....	23	....	302	318	....	357	....	417	....	336	124	....
Total	565	3469	4893	9841	8743	8026	6399	9702	184813	13806	10895	9595
Mean.	18.2	116	158	317	312	259	213	313	6160	445	351	320
Max..	25	296	346	....	367	368	354	1560	16000	1160	533	780
Min..	13	23	85	....	225	145	66	64	207	56	124	47
Acre-ft.	1120	6900	9720	19500	17300	15900	12700	19200	367000	27400	21600	19000

Discharge of South Platte River at Ovid for Year Ending Sept. 30, 1924.
Altitude, 3,531 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	609	1990	1760	....	1770	1070	2150	3130	2700	271	16	23
2....	662	2000	1680	....	1770	1020	2070	3180	4820	190	17	26
3....	716	1950	1590	....	1690	1050	1930	2940	7510	111	17	28
4....	730	1960	1470	....	1710	993	1590	3010	9050	53	16	24
5....	722	1910	1590	....	1640	904	1500	3140	9560	37	17	29
6....	794	1930	1630	....	1670	840	1450	3090	9740	26	15	30
7....	919	1960	1640	....	1740	905	1430	3060	10100	24	17	35
8....	952	1990	1640	1470	1970	905	1460	3470	10200	31	15	30
9....	1060	2040	1810	....	1880	955	1640	3580	10400	36	17	30
10....	1160	2320	1620	....	1860	955	1540	3310	11000	36	18	31
11....	1280	2540	1630	....	1980	993	1360	2980	9400	31	20	44
12....	1120	2610	1720	....	2050	999	1240	2600	8100	28	19	62
13....	1040	2740	1650	....	2150	1090	1260	2140	6300	63	19	135
14....	1040	2840	1690	....	1900	1090	1270	1690	4780	40	20	257
15....	1030	2790	1690	....	1880	1220	1220	1050	3640	32	20	320
16....	1020	2760	1690	....	1660	1180	1420	723	3800	17	27	387
17....	1110	2680	1700	....	1500	1810	1760	407	4720	18	28	386
18....	1270	2800	1710	....	1490	1880	2180	220	6800	25	25	349
19....	1330	2810	1720	....	1700	1750	2880	120	5440	21	21	321
20....	1320	2730	1730	....	1580	1740	3490	83	4160	28	20	302
21....	1300	2930	1690	....	1340	1740	3610	53	2910	23	22	287
22....	1300	2570	1750	....	1500	1910	3400	41	2220	26	21	272
23....	1340	2470	1750	....	1650	1910	3080	25	2180	25	20	252
24....	1340	2380	1670	....	1500	1870	2750	13	1310	24	18	237
25....	1380	2380	1730	....	1530	1920	2360	15	999	26	18	227
26....	1380	2210	1600	....	1480	2000	2140	20	804	26	17	216
27....	1260	2030	1590	....	1360	2060	2020	15	708	24	18	216
28....	1340	1940	1600	....	1280	2080	2300	56	560	23	21	216
29....	1880	1870	1540	....	1190	1910	2610	132	407	45	17	216
30....	1900	1860	838	....	....	1940	2890	512	331	23	22	216
31....	1970	....	676	....	....	2000	....	1100	....	19	23	....
Total	36274	69990	49794	....	48420	44689	62000	45905	154649	1402	601	5204
Mean.	1170	2330	1610	1350	1670	1440	2070	1480	5150	45.2	19.4	173
Max..	1970	2930	1810	....	2150	2080	3610	3580	11000	271	28	387
Min..	609	1860	676	....	1190	840	1220	13	331	17	15	23
Acre-ft.	71900	139000	99000	83000	96100	88500	123000	91000	306000	2780	1190	10300

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Bear Creek at Starbuck for Year Ending Sept. 30, 1923.
Drainage Area, 111 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	32	28	....	....	....	....	48	85	170	160	262	262
2....	30	30	....	....	....	....	48	65	170	155	255	249
3....	30	26	....	....	....	....	38	89	178	140	249	236
4....	30	33	....	....	....	....	35	81	170	142	246	209
5....	30	37	....	....	....	....	38	81	176	142	246	218
6....	30	35	....	....	....	....	60	85	168	131	252	227
7....	30	35	....	....	....	....	61	87	173	133	243	215
8....	28	33	....	....	....	....	45	93	176	150	227	195
9....	28	33	....	....	....	....	42	95	272	181	192	181
10....	26	31	....	....	....	....	41	102	409	181	225	176
11....	26	31	....	....	....	....	47	113	404	176	230	173
12....	30	28	....	....	....	....	54	106	358	187	276	170
13....	30	28	....	....	....	....	51	104	332	176	255	168
14....	31	30	25	....	....	....	44	117	321	173	252	168
15....	31	32	....	....	....	....	41	117	318	187	304	173
16....	32	35	....	....	....	....	38	108	325	209	375	165
17....	30	33	....	....	....	....	48	165	300	195	435	184
18....	31	27	....	....	....	....	55	187	262	192	413	187
19....	33	33	....	....	....	....	61	189	262	198	396	173
20....	39	33	....	....	....	....	57	192	252	204	392	150
21....	35	33	....	....	18	....	55	192	246	187	396	142
22....	22	33	....	16	....	....	63	198	221	178	431	142
23....	28	33	....	....	....	....	55	187	206	176	392	140
24....	32	27	....	....	....	....	61	192	204	187	371	133
25....	37	35	....	....	....	....	50	189	195	215	354	128
26....	35	33	....	....	....	....	66	192	198	266	340	126
27....	34	33	....	....	....	....	72	187	192	262	328	126
28....	33	33	....	....	....	....	70	189	178	269	310	128
29....	35	36	....	....	....	....	73	192	173	262	307	135
30....	36	33	....	....	....	....	75	184	165	255	283	124
31....	32	....	....	....	....	....	....	178	....	252	272	....
Total	976	960	....	....	....	....	1592	4341	7174	5921	9509	5203
Mean.	31.5	32	25	18	17	33	53.1	140	239	191	307	173
Max..	39	37	....	....	....	....	75	198	409	269	435	262
Min..	26	26	....	....	....	....	35	165	165	131	192	124
Acre-ft.	1940	1900	1540	1110	944	2030	3160	8610	14200	11700	18900	10300

Discharge of Bear Creek at Starbuck for Year Ending Sept. 30, 1924.
Drainage Area, 111 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	152	106	70	....	....	26	30	179	315	158	46	20
2....	132	106	58	....	....	28	22	186	330	148	44	19
3....	141	93	60	....	....	36	40	203	366	141	40	19
4....	141	93	54	....	....	28	47	220	362	138	34	20
5....	148	106	52	....	....	18	52	250	358	138	37	21
6....	152	101	66	....	....	13	55	247	330	148	40	23
7....	145	101	78	....	....	12	70	233	330	141	40	26
8....	122	101	64	....	....	18	83	237	322	135	36	19
9....	101	98	....	....	....	52	93	237	305	122	34	19
10....	80	103	....	....	....	50	64	209	308	116	38	22
11....	68	80	....	....	....	38	58	213	305	116	37	60
12....	85	68	....	....	....	34	76	209	308	106	33	47
13....	78	68	....	....	....	43	93	206	315	93	33	37
14....	70	93	....	....	....	37	106	209	298	85	31	31
15....	78	106	....	....	....	36	112	199	288	76	28	25
16....	78	98	....	....	....	33	122	233	271	78	27	24
17....	80	83	....	....	....	57	112	226	247	96	27	24
18....	66	90	....	33	....	60	119	230	240	90	27	28
19....	80	70	....	....	....	57	125	233	237	74	25	30
20....	70	83	53	....	....	46	119	233	226	64	20	30
21....	72	74	....	....	....	38	125	230	216	54	20	30
22....	70	80	....	....	....	31	116	240	206	50	21	29
23....	66	76	....	....	....	28	148	226	199	52	19	26
24....	72	85	....	....	....	31	161	226	192	58	18	23
25....	78	76	....	....	....	27	182	216	189	62	18	18
26....	93	50	....	....	38	29	132	223	182	54	18	18
27....	98	80	....	....	34	38	112	250	179	50	18	20
28....	90	52	....	....	31	36	148	240	179	47	18	20
29....	101	93	....	....	27	16	182	250	179	47	19	19
30....	62	88	....	....	....	11	165	260	169	54	19	20
31....	90	....	....	....	....	16	....	284	....	49	19	....
Total	2959	2601	....	....	....	1023	3069	7037	7951	2840	884	767
Mean.	95.9	86.7	57	34	36	33.0	102	227	265	91.6	28.5	25.6
Max..	152	106	....	....	....	57	182	284	366	158	46	60
Min..	62	50	....	....	....	11	22	179	169	47	18	18
Acre-ft.	5870	5160	3500	2090	2070	2030	6070	14000	15800	5630	1750	1520

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Clear Creek near Golden for Year Ending Sept. 30, 1923.
Drainage Area, 380 Square Miles. Altitude, 5,620 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	82	80	....	....	....	....	85	151	835	480	660	305
2....	76	75	....	....	....	....	80	151	755	700	590	305
3....	76	71	....	....	....	....	80	167	755	835	480	269
4....	70	82	....	51	....	....	75	171	835	870	450	269
5....	64	56	....	....	....	....	70	203	878	840	420	262
6....	62	....	....	....	....	....	76	222	795	790	390	255
7....	59	....	....	....	....	....	73	211	795	740	375	255
8....	60	....	....	....	....	54	60	233	835	730	337	249
9....	60	....	....	....	....	....	65	233	1070	760	333	235
10....	60	....	....	....	....	....	59	256	1020	835	410	215
11....	60	....	....	....	....	....	66	295	1020	820	440	215
12....	66	....	....	....	....	....	75	260	1020	830	470	208
13....	73	....	....	....	....	....	76	263	1020	860	440	201
14....	78	....	....	....	....	....	66	267	1240	920	500	201
15....	85	....	....	....	....	....	66	279	1630	960	560	208
16....	87	....	....	....	....	....	68	244	1940	1020	655	208
17....	83	....	....	....	....	....	73	207	1780	920	655	208
18....	87	....	....	....	....	....	82	260	1490	760	620	215
19....	85	....	....	....	....	....	91	320	1070	820	590	215
20....	83	....	....	....	....	....	89	354	755	760	530	208
21....	82	....	....	....	....	....	82	395	590	800	500	208
22....	85	....	....	....	....	....	99	395	510	750	620	208
23....	76	....	....	....	....	....	82	386	461	720	500	201
24....	78	....	....	....	....	....	75	395	461	700	500	201
25....	76	....	....	....	....	....	95	510	450	685	500	201
26....	70	....	....	....	....	....	85	620	466	1040	500	184
27....	68	....	....	....	....	....	108	720	480	1120	470	184
28....	71	....	....	....	....	....	105	720	465	1040	415	201
29....	80	....	....	....	....	....	112	720	455	860	390	201
30....	78	....	....	....	....	....	139	720	460	720	345	201
31....	73	....	....	....	....	....	....	755	....	580	329	....
Total	2293	364	....	....	....	....	2457	11083	26336	25265	14974	6696
Mean.	74.0	72.8	....	....	....	....	81.9	358	878	815	483	223
Max..	87	....	....	....	....	....	139	755	1940	1120	660	305
Min...	59	....	....	....	....	....	59	151	450	480	329	184
Acre-ft.	4550	....	....	....	....	....	4870	22000	52200	50100	29700	13300

Discharge of Clear Creek near Golden for Year Ending Sept. 30, 1924.
Drainage Area, 380 Square Miles. Altitude, 5,620 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	48	72	232	662	906	282	115
2....	....	....	....	....	....	48	88	252	669	850	264	105
3....	....	....	....	....	....	48	88	291	820	818	242	100
4....	....	....	....	....	....	48	92	372	970	765	219	98
5....	....	130	....	80	....	48	94	470	1190	720	234	100
6....	....	....	....	....	....	48	105	458	1330	735	223	108
7....	....	....	....	....	....	48	116	425	1500	720	197	110
8....	....	....	....	....	....	48	126	425	1480	758	194	105
9....	....	....	....	....	....	48	116	386	1340	668	190	92
10....	....	....	....	....	....	48	100	321	1220	625	194	98
11....	....	....	....	....	....	46	107	317	1430	584	194	141
12....	....	....	....	....	....	46	90	329	1780	558	183	108
13....	....	....	....	....	....	46	102	464	2180	518	194	92
14....	....	....	....	....	....	46	123	518	2020	473	200	92
15....	....	....	....	....	....	46	147	634	1850	424	204	90
16....	....	....	....	....	....	48	130	778	1780	400	190	88
17....	....	....	....	....	....	48	120	994	1630	486	183	86
18....	....	....	....	....	....	50	120	1180	1520	466	180	88
19....	....	....	....	....	....	50	128	1260	1440	418	163	90
20....	....	....	....	....	....	52	120	1030	1260	389	157	88
21....	....	....	....	....	....	50	128	1030	1220	350	157	89
22....	....	....	....	....	....	52	130	1030	1130	325	160	89
23....	....	....	....	....	....	54	156	1010	1140	300	150	88
24....	....	....	....	....	....	56	194	889	1130	320	138	88
25....	....	....	....	....	....	58	215	812	1130	300	135	88
26....	....	....	....	....	....	55	198	872	1100	277	127	88
27....	....	....	....	....	....	55	194	889	1050	223	118	90
28....	....	....	....	65	....	60	191	778	1070	204	110	95
29....	....	....	....	....	....	56	198	746	1010	272	105	90
30....	....	....	....	....	....	50	221	730	914	282	102	92
31....	....	....	....	....	....	76	....	676	....	282	115	....
Total	....	....	....	....	....	1580	4009	20598	38965	15416	5504	2891
Mean.	....	....	....	....	....	51.0	134	664	1300	497	178	96.4
Max..	....	....	....	....	....	76	221	1260	2180	906	282	141
Min...	....	....	....	....	....	....	72	232	662	204	102	86
Acre-ft.	....	....	....	....	....	3140	7970	40800	77400	30600	10900	5740

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Boulder Creek at Eldorado Springs for Year Ending Sept. 30, 1923.
Drainage Area, 114 Square Miles. Altitude, 5,800 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	12	9	10	10	10	17	51	135	392	291	139	62
2....	12	11	11	10	10	17	47	130	373	277	116	62
3....	11	11	12	5	10	17	31	125	392	252	104	57
4....	11	13	13	10	10	17	26	110	372	252	71	51
5....	10	13	11	9	10	17	26	145	372	232	126	50
6....	11	13	11	9	10	17	46	135	352	226	94	53
7....	10	12	12	10	10	17	61	132	363	216	88	52
8....	10	12	10	11	10	17	36	134	399	226	90	48
9....	10	12	10	11	10	17	37	141	498	273	103	43
10....	9	12	10	11	10	17	36	168	594	259	74	40
11....	10	10	10	11	10	17	23	190	518	248	85	38
12....	11	11	10	12	10	17	33	146	586	182	135	37
13....	12	11	10	12	10	17	64	150	575	205	103	36
14....	12	11	10	10	10	12	47	163	550	205	108	40
15....	14	11	10	10	10	6	49	141	525	242	108	46
16....	14	12	10	9	10	11	45	138	583	273	120	49
17....	11	12	10	9	10	13	64	268	578	248	130	57
18....	18	8	10	9	10	13	78	312	551	256	118	56
19....	12	13	10	10	10	13	90	295	548	248	112	62
20....	12	13	10	9	10	15	64	322	437	222	100	42
21....	12	11	10	10	10	13	58	346	475	209	98	35
22....	13	9	10	9	10	17	67	342	384	198	133	34
23....	12	11	10	8	10	15	66	310	377	196	117	32
24....	11	15	10	11	10	20	48	330	381	181	118	32
25....	13	14	10	8	10	18	63	370	401	170	103	32
26....	12	13	10	10	10	18	65	349	352	167	118	31
27....	10	13	10	8	14	29	89	381	334	222	103	34
28....	10	12	10	10	12	27	87	357	324	191	76	41
29....	12	13	10	13	....	38	93	332	309	159	71	32
30....	19	12	10	13	....	33	111	362	320	155	70	36
31....	11	....	10	10	....	52	....	358	....	113	67	....
Total	367	353	320	307	286	584	1701	7317	13215	6794	3178	1320
Mean.	11.8	11.8	10.3	9.90	10.2	18.8	56.7	236	440	219	103	44.0
Max..	18	15	13	13	14	52	111	381	594	291	139	62
Min...	9	8	10	5	10	6	23	110	309	113	67	31
Acre-ft.	726	702	633	609	566	1160	3370	14500	26200	13500	6330	2620

Discharge of South Boulder Creek at Eldorado Springs for Year Ending Sept. 30, 1924.
Drainage Area. 114 Square Miles. Altitude, 5.800 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	39	61	47	20	20	25	35	266	370	240	30	8
2....	39	57	27	22	20	30	33	286	391	236	24	8
3....	48	58	32	26	20	30	33	310	445	221	24	7
4....	51	52	37	25	20	30	33	344	475	203	24	7
5....	46	56	40	24	20	30	73	379	515	170	25	7
6....	42	60	42	19	20	30	110	369	471	164	24	8
7....	40	62	46	17	20	30	140	337	518	158	23	9
8....	39	65	42	17	20	15	107	331	536	170	21	8
9....	35	71	40	17	20	20	110	323	472	139	18	8
10....	34	67	43	18	25	20	102	286	488	122	17	9
11....	38	72	39	18	25	20	92	294	497	110	14	18
12....	48	65	37	18	25	20	92	290	502	98	10	11
13....	45	60	37	18	25	20	124	302	604	102	8	11
14....	43	46	39	18	25	18	170	332	572	90	8	10
15....	43	55	40	18	25	18	203	347	576	80	10	8
16....	40	61	37	18	25	18	196	396	530	78	13	8
17....	40	54	38	18	26	18	161	420	515	150	12	8
18....	34	61	36	19	26	18	156	440	484	112	9	8
19....	40	51	36	19	26	18	153	460	415	84	8	8
20....	33	54	37	20	26	18	147	443	331	71	8	8
21....	37	54	30	20	26	18	161	443	341	48	7	10
22....	35	55	24	20	26	18	174	437	349	42	7	9
23....	35	50	25	20	26	23	200	443	325	38	8	9
24....	43	56	25	20	25	23	247	378	321	35	7	8
25....	30	54	24	20	25	23	232	345	309	27	7	7
26....	74	37	25	20	25	23	214	390	294	26	7	8
27....	71	41	27	20	25	28	193	366	278	36	7	8
28....	63	34	27	20	25	28	196	370	274	37	7	9
29....	61	49	39	20	25	28	210	366	255	37	7	9
30....	54	54	25	20	....	28	243	370	240	36	7	9
31....	52	....	20	20	....	30	....	366	....	33	8	....
Total	1372	1672	1063	609	687	716	4340	11229	12693	3193	409	263
Mean.	44.3	55.7	34.3	19.6	23.7	23.1	145	362	423	103	13.2	8.77
Max..	74	72	47	26	26	30	247	460	604	240	30	11
Min...	30	34	20	17	20	15	33	266	240	33	7	7
Acre-ft.	2720	3310	2110	1210	1360	1420	8630	22300	25200	6330	812	522

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Boulder Creek near Orodell for Year Ending Sept. 30, 1923.
Drainage Area, 105 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	32	22	12	13	19	50	27	59	268	474	156	75
2....	31	21	12	32	27	57	31	92	230	493	148	62
3....	44	17	15	18	29	66	25	80	179	511	137	57
4....	32	24	13	32	20	25	21	80	190	493	146	92
5....	21	20	16	23	38	72	26	99	217	480	139	88
6....	22	24	26	15	38	56	15	74	243	451	130	97
7....	25	21	21	10	42	54	47	93	250	412	126	92
8....	26	27	22	14	25	34	14	93	272	386	132	64
9....	21	18	27	22	11	32	20	86	319	583	112	38
10....	15	20	21	34	6	24	26	82	660	457	93	53
11....	12	10	23	32	5	10	44	86	590	446	116	56
12....	12	24	26	24	4	23	37	112	468	429	150	46
13....	15	20	33	25	14	24	35	59	386	402	140	39
14....	20	14	26	13	13	16	28	108	837	407	130	45
15....	15	21	27	29	12	21	39	97	905	396	118	39
16....	16	21	45	45	11	20	33	120	905	418	110	50
17....	21	25	24	39	13	10	46	148	618	346	135	65
18....	16	18	32	32	19	8	65	182	632	314	184	62
19....	17	21	42	25	24	10	97	193	684	261	120	54
20....	18	15	38	20	30	9	92	176	699	196	97	45
21....	19	17	40	15	24	10	72	180	583	207	112	25
22....	20	18	31	27	21	10	61	187	563	196	102	19
23....	15	13	38	27	22	9	54	196	563	190	95	18
24....	15	12	18	22	24	12	44	204	576	148	102	24
25....	16	9	13	56	13	20	52	223	570	141	83	36
26....	14	19	13	31	23	12	43	258	589	151	71	32
27....	13	19	22	20	41	15	61	297	576	144	90	40
28....	12	17	17	19	35	31	65	332	625	236	95	50
29....	19	18	23	50	....	50	44	301	505	217	95	44
30....	19	11	20	47	....	50	52	220	438	187	95	39
31....	19	....	14	30	....	45	....	250	....	179	97	....
Total	612	556	750	841	603	885	1316	4767	15140	10351	3626	1546
Mean	19.7	18.5	24.2	27.1	21.5	28.5	43.9	154	505	334	117	51.5
Max..	44	27	45	56	38	72	97	332	905	583	156	97
Min..	12	9	12	10	4	8	14	59	179	141	71	18
Acre-ft.	1210	1100	1490	1670	1190	1750	2610	9470	30000	20500	7190	3060

Discharge of Boulder Creek near Orodell for Year Ending Sept. 30, 1924.
Drainage Area, 105 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	81	103	104	50	70	52	28	148	196	377	109	37
2....	69	114	58	54	71	35	26	150	217	364	112	50
3....	84	114	103	57	59	44	27	161	237	341	106	60
4....	90	84	88	56	77	48	35	165	307	245	84	60
5....	68	94	94	56	68	47	34	170	307	302	94	77
6....	90	103	83	63	78	51	36	181	307	302	104	55
7....	59	104	97	81	69	45	58	192	307	307	100	40
8....	57	74	87	55	70	33	77	202	245	307	91	63
9....	77	103	71	56	65	30	77	172	241	312	90	59
10....	80	111	84	59	92	47	58	156	223	256	56	64
11....	88	80	87	63	62	34	59	132	384	245	90	87
12....	90	77	91	54	58	35	57	172	653	226	92	71
13....	88	101	83	46	54	44	52	167	810	217	81	62
14....	57	104	104	54	56	33	78	176	862	223	68	55
15....	90	106	85	58	78	35	98	183	831	192	65	62
16....	94	109	73	62	59	31	87	194	810	172	70	60
17....	90	101	101	66	38	36	71	202	710	220	46	51
18....	80	77	83	69	60	34	65	174	672	211	71	52
19....	81	95	85	49	87	51	88	211	644	156	70	47
20....	88	85	85	50	57	36	71	202	478	142	68	56
21....	58	97	101	56	44	27	78	211	412	154	54	37
22....	106	104	92	63	50	24	80	278	384	146	56	60
23....	94	108	77	76	50	30	118	253	448	119	56	45
24....	76	106	91	84	40	24	123	264	493	88	56	37
25....	90	90	74	77	43	37	106	211	493	130	52	48
26....	98	88	57	76	46	30	121	245	478	125	51	37
27....	84	84	77	70	55	26	98	264	470	90	57	55
28....	74	77	65	65	49	27	116	185	440	123	63	55
29....	103	84	103	66	46	29	127	185	370	125	56	45
30....	103	103	60	80	....	29	134	194	384	136	56	48
31....	97	....	54	62	....	24	....	226	....	128	43	....
Total	2584	2880	2597	1933	1751	1108	2283	6026	13813	6481	2267	1635
Mean.	83.4	90.6	83.8	62.4	60.4	35.7	76.1	194	460	209	73.1	54.5
Max..	106	114	104	81	92	52	134	278	862	377	112	87
Min..	57	74	54	46	38	24	26	132	196	88	43	37
Acre-ft.	5130	5710	5150	3840	3470	2200	4530	11900	27400	12900	4490	3240

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Vrain Creek near Lyons for Year Ending Sept. 30, 1923.
Drainage Area, 209 Square Miles. Altitude, 5,349 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	23	10	10	10	14	28	54	195	522	638	392	115
2....	18	8	8	10	10	23	34	192	531	603	392	125
3....	18	23	8	14	8	10	54	216	508	564	355	112
4....	14	18	10	10	8	18	40	204	508	554	330	128
5....	14	18	18	5	10	18	34	198	512	545	323	141
6....	10	14	14	10	8	23	57	231	485	583	319	130
7....	10	14	18	10	8	14	80	241	508	535	294	144
8....	10	14	10	8	8	14	64	238	588	613	270	130
9....	10	10	18	18	10	14	57	247	1140	669	257	105
10....	10	10	10	14	8	18	53	254	1360	613	254	97
11....	10	14	14	14	8	18	74	270	1170	598	270	103
12....	10	3	10	14	8	28	72	244	1110	574	284	94
13....	10	2	10	18	10	10	80	228	1050	613	250	115
14....	10	3	10	10	10	18	68	294	998	717	247	110
15....	10	6	10	10	10	28	68	319	1140	690	242	110
16....	10	8	14	14	10	18	70	280	1240	680	204	110
17....	10	10	8	10	8	18	70	364	932	643	204	144
18....	10	18	10	14	8	14	86	476	766	540	213	125
19....	10	10	10	14	10	23	105	499	800	481	198	144
20....	10	14	18	10	8	18	99	472	950	508	180	128
21....	10	14	10	8	10	14	80	481	872	717	174	117
22....	10	10	8	10	10	18	84	472	830	593	207	78
23....	10	10	8	8	8	18	67	463	800	550	197	92
24....	10	8	4	8	8	18	62	459	800	503	187	94
25....	8	10	3	14	10	18	82	476	848	517	177	99
26....	8	10	3	10	10	18	110	499	872	613	165	97
27....	8	14	18	10	18	18	142	526	890	648	153	86
28....	6	10	14	8	23	28	168	517	728	517	138	84
29....	6	8	10	10	....	47	153	459	664	494	135	78
30....	6	8	10	14	....	28	195	425	638	522	125	74
31....	8	....	8	14	....	28	....	442	....	368	110	....
Total	327	329	334	351	279	626	2464	10881	24760	18003	7246	3309
Mean	10.5	11.0	10.8	11.3	10.0	20.2	82.1	351	825	581	234	110
Max..	23	23	18	18	23	47	195	526	1360	717	392	144
Min..	6	2	3	5	8	10	34	192	485	368	110	74
Acre-ft	646	655	664	695	555	1240	4890	21600	49100	35700	14400	6550

Discharge of St. Vrain Creek at Lyons for Year Ending Sept. 30, 1924.
Drainage Area, 209 Square Miles. Altitude, 5,349 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	67	167	75	33	16	19	49	248	759	475	171	91
2....	69	196	70	35	16	20	43	261	846	471	153	93
3....	91	209	65	40	15	21	49	295	858	471	153	89
4....	122	193	50	40	16	21	64	361	892	454	168	76
5....	110	184	67	42	30	20	74	408	934	428	177	55
6....	98	180	76	44	34	20	117	408	901	502	184	54
7....	93	187	82	44	29	21	153	376	960	511	144	55
8....	95	187	78	36	25	21	212	369	951	484	130	55
9....	98	190	72	32	27	25	252	335	764	449	128	54
10....	107	174	52	29	28	25	222	313	705	404	110	64
11....	110	177	49	36	29	25	228	310	814	384	107	87
12....	125	174	76	39	30	22	222	324	986	380	93	76
13....	122	150	62	40	32	25	238	331	1490	380	91	46
14....	130	150	57	39	35	27	289	328	1730	372	107	52
15....	128	130	55	38	35	24	328	324	1700	346	115	57
16....	115	144	44	29	35	25	306	328	1410	317	117	55
17....	110	120	49	26	35	24	265	365	871	350	112	38
18....	95	117	50	23	29	25	235	392	651	310	112	40
19....	100	103	48	20	28	26	225	420	559	286	117	42
20....	89	115	50	16	24	26	212	384	544	272	112	29
21....	95	105	50	26	28	28	248	380	554	255	100	28
22....	93	98	49	27	34	28	272	376	554	265	98	28
23....	105	89	46	29	21	26	292	392	520	241	100	24
24....	206	95	50	32	23	26	289	350	564	238	91	24
25....	168	95	48	29	19	26	286	338	594	245	93	25
26....	193	82	46	27	21	27	279	433	559	222	93	26
27....	193	78	44	24	22	39	258	569	511	206	87	27
28....	203	67	42	22	22	50	228	520	462	203	82	27
29....	187	74	44	24	21	46	200	625	454	206	80	28
30....	168	89	40	20	....	54	228	777	462	222	76	25
31....	156	....	30	18	....	48	....	721	....	190	85	....
Total	3841	4180	1716	959	759	860	6363	12361	24559	10539	3586	1470
Mean.	124	139	55.4	30.9	26.2	27.7	212	399	819	340	116	49.0
Max..	206	209	82	44	35	54	328	777	1730	511	184	93
Min..	67	67	30	18	15	19	43	248	454	190	76	24
Acre-ft.	7620	8270	3410	1900	1510	1700	12600	24500	48700	20900	7130	2920

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Big Thompson River near Drake for Year Ending Sept. 30, 1923.
Drainage Area, 274 Square Miles. Altitude, 6,100 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	54	39	32	23	18	20	51	176	895	895	690	160
2....	51	41	33	23	18	21	51	184	960	850	690	158
3....	50	42	40	23	18	20	48	188	895	850	634	158
4....	47	45	39	23	18	21	47	188	895	850	554	163
5....	46	43	39	23	18	22	40	200	868	850	550	158
6....	45	40	40	23	18	23	43	222	868	850	480	162
7....	45	38	30	23	18	24	68	240	850	770	430	156
8....	45	37	27	23	18	24	42	248	895	1040	400	163
9....	45	36	30	23	18	24	50	255	3140	990	382	165
10....	45	35	33	23	18	22	50	299	3140	868	358	165
11....	47	30	40	24	20	27	59	335	2000	922	460	151
12....	46	25	39	24	20	24	64	275	1940	1040	378	151
13....	47	20	37	24	20	30	65	275	1780	868	362	153
14....	48	24	35	24	20	26	56	290	1710	1020	341	182
15....	47	28	34	24	20	24	59	290	1780	1300	350	186
16....	47	32	34	24	20	30	64	335	2690	1680	341	186
17....	46	34	34	24	20	24	78	378	1680	1480	326	206
18....	45	35	34	24	20	26	94	390	1480	1140	314	210
19....	41	35	34	24	20	26	110	490	1480	1380	296	204
20....	38	39	34	24	20	22	108	538	1360	1090	275	200
21....	35	40	34	21	18	22	97	564	1300	1940	263	190
22....	38	40	34	21	18	22	92	538	1200	1200	278	165
23....	37	38	34	21	18	27	82	520	1090	1040	275	153
24....	38	33	34	21	18	24	85	606	1140	990	240	150
25....	37	40	30	21	18	20	91	770	1090	940	220	148
26....	38	41	31	21	18	27	123	810	1250	868	204	147
27....	35	38	30	21	18	31	150	940	1090	834	200	147
28....	38	38	29	21	18	30	145	810	1040	754	190	143
29....	44	32	28	21	....	38	162	770	1040	690	178	129
30....	35	31	26	21	....	43	176	850	990	634	174	132
31....	35	....	23	21	....	48	....	868	....	620	167	....
Total	1335	1069	1031	713	532	812	2450	13842	42536	31243	11000	4941
Mean	43.1	35.6	33.3	23	19	26.2	81.7	447	1420	1010	355	165
Max..	54	45	40	....	....	48	176	940	3140	1940	690	210
Min..	35	20	....	....	....	20	40	176	850	620	167	129
Acre-ft.	2650	2120	2050	1410	1060	1610	4860	27500	84500	62100	21800	9820

Discharge of Big Thompson River near Drake for Year Ending Sept. 30, 1924.
Drainage Area, 274 Square Miles. Altitude, 6,100 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	132	136	62	50	37	22	34	236	1340	855	271	111
2....	147	121	64	50	40	22	36	236	1440	855	271	111
3....	170	138	57	50	36	22	43	271	1540	855	254	111
4....	180	134	71	50	38	22	64	475	1800	852	220	111
5....	164	128	77	50	35	22	79	502	2020	849	204	111
6....	142	123	76	50	34	22	92	502	1920	846	176	111
7....	122	126	94	50	35	22	100	475	1750	843	176	104
8....	120	131	78	50	35	22	101	398	1700	840	176	104
9....	123	128	54	50	35	22	101	352	1440	837	164	104
10....	128	134	69	46	36	22	96	352	1490	834	153	104
11....	130	140	69	45	36	25	98	448	1440	831	153	104
12....	130	145	69	47	36	25	118	502	1700	828	153	104
13....	129	120	69	45	40	25	176	502	2300	825	144	91
14....	129	121	69	46	47	25	190	560	2460	1320	134	85
15....	129	108	69	45	49	25	220	625	2680	1140	134	85
16....	129	147	69	41	48	25	204	625	1970	870	126	78
17....	126	123	69	40	44	25	190	780	1640	700	118	74
18....	111	99	94	40	42	25	204	780	1390	740	118	70
19....	111	100	77	40	39	25	176	780	1390	700	118	62
20....	98	99	77	40	36	40	176	825	1290	475	104	54
21....	105	96	77	38	27	30	190	740	1290	398	104	54
22....	108	99	77	39	27	28	190	740	1240	398	104	54
23....	117	87	77	38	27	28	220	780	1190	375	98	55
24....	126	120	76	37	27	28	236	740	1140	352	98	54
25....	124	99	87	37	27	30	254	700	1140	331	91	54
26....	158	104	98	37	27	29	204	920	1290	331	85	54
27....	169	92	70	36	27	34	220	1020	1190	310	85	54
28....	169	60	71	37	27	35	204	920	1190	290	104	53
29....	162	84	74	35	27	35	204	1020	1190	271	104	54
30....	105	94	66	37	....	31	204	1140	1040	271	111	54
31....	114	....	49	36	....	32	....	1340	....	290	104	....
Total	4107	3436	2255	1332	1021	825	4624	20286	46600	20512	4454	2429
Mean	132	115	72.7	43.0	35.2	26.6	154	654	1550	662	144	81.0
Max..	180	147	98	....	49	40	254	1340	2680	1320	271	111
Min..	98	60	49	....	....	....	34	236	1040	271	85	53
Acre-ft.	8120	6840	4470	2640	2020	1640	9160	40200	92200	40700	8850	4820

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cache La Poudre River at Mouth of Canon for Year Ending Sept. 30, 1923.
Drainage Area, 1,060 Square Miles. Altitude, 5,070 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	67	50	38	....	....	....	90	331	2160	2340	837	382
2....	60	50	43	....	....	....	86	321	2260	2260	785	452
3....	51	46	....	....	....	....	79	326	2190	2190	763	475
4....	51	48	....	....	17	....	68	331	2200	2060	728	475
5....	53	54	....	....	....	....	64	336	2180	2120	707	493
6....	54	43	....	....	....	....	68	367	2060	2050	735	481
7....	51	42	....	....	....	....	86	388	2010	2220	667	447
8....	51	51	....	....	....	....	88	388	2160	2180	615	403
9....	51	50	....	20	....	....	79	420	5620	2050	596	409
10....	50	51	....	....	....	....	73	464	7350	1910	534	430
11....	51	45	....	....	....	....	75	534	6180	1910	576	403
12....	54	36	....	....	....	....	84	504	4540	1910	602	393
13....	56	33	....	....	....	32	90	441	4540	1870	558	388
14....	61	35	....	....	....	....	102	583	4540	1590	481	425
15....	63	36	....	....	....	....	110	687	6460	1740	498	430
16....	63	40	....	....	....	....	119	660	7550	1880	564	441
17....	56	40	....	....	31	....	110	558	5800	1760	475	258
18....	61	42	....	....	....	....	105	534	4270	1670	420	216
19....	58	45	....	....	....	....	127	608	4000	1370	420	243
20....	42	48	....	....	....	....	144	700	3740	1290	458	225
21....	45	48	....	....	....	....	137	1320	3240	1770	441	239
22....	50	53	....	....	....	....	175	1370	2920	1420	409	187
23....	53	50	....	....	....	....	150	1440	3000	1290	356	202
24....	50	53	49	....	....	....	137	1460	2670	1240	316	172
25....	51	43	....	....	....	....	157	1600	2920	1210	272	194
26....	50	45	....	....	....	....	202	1770	2780	1190	267	187
27....	51	56	....	....	....	....	296	1950	2620	1160	258	172
28....	51	46	....	....	....	....	326	1970	2480	976	248	172
29....	50	40	....	....	....	....	316	1730	2330	924	301	168
30....	53	46	....	....	....	....	331	1710	2480	892	346	183
31....	60	....	....	....	....	....	....	2010	....	807	336	....
Total	1668	1367	....	....	....	....	4074	27821	109250	51249	15569	9745
Mean.	53.8	45.6	47	26	24	44	136	897	3640	1650	502	325
Max..	67	56	....	....	....	....	331	2010	7550	2340	837	493
Min...	42	33	....	....	....	....	64	321	2010	807	248	168
Acre-ft.	3110	2710	2890	1600	1330	2710	8090	55200	217000	101000	30900	19300

Discharge of Cache La Poudre River at Mouth of Canon for Year Ending Sept. 30, 1924.
Drainage Area, 1,060 Square Miles. Altitude, 5,070 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	206	187	....	....	....	....	160	393	3210	1800	464	281
2....	191	211	....	....	....	....	160	459	3220	1700	415	301
3....	211	232	....	....	....	....	160	510	3130	1560	388	272
4....	249	215	....	....	....	....	200	592	3420	1470	393	258
5....	240	211	....	....	....	....	200	604	3710	1410	476	227
6....	232	219	....	....	....	....	321	674	4040	1330	464	202
7....	223	219	....	....	....	....	388	728	4100	1430	431	176
8....	206	232	....	....	....	....	378	721	4140	1490	393	140
9....	180	122	....	....	....	....	533	687	3500	1350	504	133
10....	184	76	....	....	....	....	504	629	3180	1230	556	136
11....	187	60	....	....	....	....	487	642	3530	1170	550	191
12....	180	32	....	....	....	....	453	721	4780	1090	544	191
13....	169	30	....	....	....	....	476	804	6380	1050	533	156
14....	146	31	....	....	....	....	616	932	7040	1010	527	143
15....	146	30	....	....	....	....	741	1030	6120	900	521	130
16....	146	31	....	....	....	....	648	1220	5280	860	362	119
17....	133	29	....	....	....	....	521	1430	4510	876	316	105
18....	143	23	....	....	....	....	437	1850	4640	884	286	108
19....	130	22	....	....	....	....	487	1920	4140	770	240	127
20....	124	21	....	....	....	....	442	1780	2640	680	232	102
21....	108	23	....	....	....	....	459	1810	2620	629	223	93
22....	122	23	....	....	....	....	515	1820	2860	604	211	91
23....	133	24	....	....	....	....	510	1880	2820	556	198	89
24....	180	22	....	....	....	....	487	1750	2840	562	206	87
25....	113	22	....	....	....	....	510	1940	2840	568	198	82
26....	146	23	....	....	....	....	404	2620	2670	544	191	80
27....	180	30	....	....	....	....	442	2610	2460	544	191	78
28....	194	38	....	....	....	....	431	2050	2400	527	191	80
29....	211	35	....	....	....	....	393	2250	2120	562	176	82
30....	169	35	....	....	....	....	393	2780	2010	550	223	82
31....	152	....	....	....	....	....	....	2950	....	498	277	....
Total	5334	2508	....	....	....	....	12856	42786	110350	30204	10880	4342
Mean.	172	83.6	40	30	25	100	429	1380	3680	974	351	145
Max..	249	232	....	....	....	....	741	2950	7040	1800	556	301
Min..	108	21	....	....	....	....	160	393	2010	498	176	78
Acre-ft.	10600	4970	2460	1840	1440	6150	25500	84800	219000	59900	21600	8630

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cache La Poudre River at Mouth for Year Ending Sept. 30, 1924.
Altitude, 4,610 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	....	1830	114	34	20
2....	....	....	....	....	....	....	....	....	2130	84	43	20
3....	....	....	....	....	....	....	....	....	2180	60	43	20
4....	....	....	....	....	....	....	....	....	2120	61	44	20
5....	....	....	....	....	....	....	....	....	2150	48	43	20
6....	....	....	....	....	....	....	....	....	2200	38	38	20
7....	....	....	....	....	....	....	....	....	2440	36	20	20
8....	....	....	....	....	....	....	....	....	2580	36	20	20
9....	....	....	....	....	....	....	....	....	2370	28	20	20
10....	....	....	....	....	....	....	....	....	1760	29	22	22
11....	....	....	....	....	....	....	....	....	1470	26	20	54
12....	....	....	....	....	....	....	....	....	1680	23	19	60
13....	....	....	....	....	....	....	....	....	2080	28	19	59
14....	....	....	....	....	....	....	....	....	2500	31	19	56
15....	....	....	....	....	....	....	....	....	2540	20	17	58
16....	....	....	....	....	....	....	....	....	2520	18	17	53
17....	....	....	....	....	....	....	....	....	2190	22	18	38
18....	....	....	....	....	....	....	....	....	1570	25	20	42
19....	....	....	....	....	....	....	....	....	1300	22	17	45
20....	....	....	....	....	....	....	....	....	934	24	18	49
21....	....	....	....	....	....	....	....	....	310	25	18	46
22....	....	....	....	....	....	....	....	....	605	20	18	43
23....	....	....	....	....	....	....	....	....	976	20	17	40
24....	....	....	....	....	....	....	....	....	829	21	17	40
25....	....	....	....	....	....	....	....	....	1050	20	19	41
26....	....	....	....	....	....	....	....	....	1090	20	16	42
27....	....	....	....	....	....	....	....	220	899	20	16	43
28....	....	....	....	....	....	....	....	271	594	20	18	45
29....	....	....	....	....	....	....	....	273	446	20	19	46
30....	....	....	....	....	....	....	....	556	226	22	19	44
31....	....	....	....	....	....	....	....	1440	....	20	19	....
Total	....	....	....	....	....	....	....	....	47569	1001	707	1136
Mean.	....	....	....	....	....	....	....	....	1590	32.3	22.8	37.9
Max..	....	....	....	....	....	....	....	....	2580	114	44	60
Min..	....	....	....	....	....	....	....	....	226	18	16	20
Ace-ft.	....	....	....	....	....	....	....	....	94600	1990	1400	2260

Discharge of Lodgepole Creek at Ovid for Year Ending September 30, 1924.
Drainage Area, ... Square Miles. Altitude, 3,531 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	...	...	34	...	27	28	34	29	29	4.9	7	6.7
2....	...	...	34	...	27	28	34	26	40	4	7	6.7
3....	...	...	34	...	28	28	34	22	28	5.5	5.8	7.2
4....	...	...	34	...	30	28	34	15	31	6	5.5	6.5
5....	...	...	34	...	32	24	34	15	29	5.8	5.1	7.7
6....	...	...	34	...	32	27	34	15	30	4.4	6.7	6.7
7....	...	...	30	...	35	26	35	14	27	5.6	6.2	7.9
8....	...	...	30	...	36	26	34	14	96	7	5.3	7.4
9....	...	...	30	...	37	26	28	14	43	4.7	5.6	7.4
10....	...	...	30	...	37	26	28	30	37	4.9	5.8	10
11....	...	...	25	...	30	28	28	50	29	7.7	8.2	14
12....	...	...	27	...	34	25	28	13	22	4.9	9.9	22
13....	...	...	29	...	37	25	29	17	9.7	5.5	7.9	45
14....	...	...	29	...	37	25	29	17	3.9	6	7.7	42
15....	...	...	30	...	41	24	29	9.7	15	4.2	7	43
16....	...	...	30	...	36	24	29	8.4	15	3.6	7.7	26
17....	...	...	30	...	36	21	29	8.4	17	4.4	13	13
18....	...	...	30	...	36	21	29	13	22	4.1	13	12
19....	...	...	29	...	36	26	29	8.7	9.7	3.4	7	11
20....	...	...	27	...	32	26	29	10	3.5	5.1	7.7	10
21....	...	...	29	...	28	26	29	8.7	4.6	4.2	7.7	9
22....	...	37	30	...	28	26	30	7.4	6	4.6	8.7	7.2
23....	...	39	37	...	34	21	41	5.5	5.5	4.7	8.7	7.2
24....	...	37	29	...	27	24	74	9.7	6	4.4	7.7	6.4
25....	...	36	30	...	27	26	84	8.9	11	4.7	7.7	6.4
26....	...	34	30	...	29	27	84	47	10	4.6	8.2	5.8
27....	...	34	30	...	29	27	67	39	13	4.9	7	5.8
28....	...	34	30	...	29	27	24	30	10	5.5	7	5.8
29....	...	34	27	...	29	34	17	34	7.2	5.3	7.7	5.8
30....	...	34	24	...	...	34	36	29	7.2	5.6	8.7	5.8
31....	...	...	24	...	...	34	...	72	...	5.6	8.7	...
Total	...	...	930	...	936	818	1103	640.4	617.3	155.8	236.9	377.4
Mean.	27	35	30.0	27	32.3	26.4	36.8	20.7	20.6	5.03	7.64	12.6
Max..	...	...	37	...	41	34	84	72	96	7.7	13	45
Min...	...	...	24	...	27	21	17	5.5	3.5	3.4	5.1	5.8
Acre-ft.	1660	2080	1840	1660	1860	1620	2190	1270	1230	309	470	750

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Platte River near Walden for Year Ending Sept. 30, 1924.
Drainage Area, 446 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	97	103	....	....	....	....	150	321	885	237	76	28
2....	100	120	....	....	....	....	170	372	740	205	72	23
3....	113	132	....	....	....	....	180	512	646	165	70	22
4....	130	124	....	....	....	....	220	745	715	156	67	23
5....	124	108	....	....	....	....	300	850	1000	148	74	24
6....	120	97	....	....	....	....	370	830	1090	165	75	26
7....	115	91	....	....	....	....	460	730	1180	288	72	24
8....	106	85	....	....	....	....	600	682	1200	208	67	23
9....	98	97	....	....	....	....	800	596	1100	213	64	23
10....	97	102	....	....	....	....	960	564	970	190	61	25
11....	105	110	....	....	....	....	810	646	980	182	56	36
12....	117	102	....	....	....	....	770	760	1200	172	51	40
13....	117	96	....	....	....	....	790	825	1400	146	54	39
14....	112	92	....	....	....	....	984	815	1560	122	57	36
15....	110	88	....	....	....	....	1040	740	1640	103	61	34
16....	100	91	....	....	....	....	636	686	1560	97	55	29
17....	112	90	....	....	....	....	400	700	1350	98	51	29
18....	96	91	....	....	....	....	380	780	1120	110	46	37
19....	98	91	....	....	....	....	354	825	925	98	42	39
20....	100	90	....	....	....	....	337	855	677	100	37	35
21....	94	92	....	....	....	....	428	790	556	83	35	32
22....	96	90	....	....	....	....	508	830	528	76	36	33
23....	105	90	....	....	....	....	565	865	508	75	40	34
24....	118	90	....	....	....	....	686	820	512	78	36	34
25....	98	90	....	....	....	....	532	725	340	70	29	32
26....	110	90	....	....	....	....	330	895	270	71	29	34
27....	117	90	....	....	....	....	344	1100	270	75	28	34
28....	124	90	....	....	....	....	340	1250	276	78	28	35
29....	97	90	....	....	....	....	337	1230	273	78	29	39
30....	96	90	....	....	....	....	321	1200	258	80	27	43
31....	103	....	....	....	....	....	....	1160	....	76	28	....
Total	3325	2902	....	....	....	....	15102	24699	25729	4043	1553	945
Mean.	107	96.7	....	....	....	....	503	797	858	130	50.1	31.5
Max..	130	132	....	....	....	....	1040	1250	1640	288	76	43
Min..	94	85	....	....	....	....	150	321	258	70	27	22
Acre-ft.	6580	5750	....	....	....	....	29900	49000	51100	7990	3080	1870

Discharge of North Platte River near Northgate for Year Ending Sept. 30, 1923.
Drainage Area, 1,440 Square Miles. Altitude, 7,600 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	108	75	....	....	....	....	....	2060	2280	1790	608	285
2....	108	77	....	....	....	....	....	1860	2280	1720	608	320
3....	108	80	....	....	....	....	....	1790	2420	1540	586	370
4....	100	69	....	....	....	....	....	1790	2420	1520	551	325
5....	85	....	....	....	....	....	....	1920	2580	1460	530	305
6....	75	....	....	....	....	....	....	2350	2650	1320	537	310
7....	67	....	....	....	....	....	....	2500	2420	1270	530	290
8....	69	....	....	....	....	....	....	2420	2200	1320	476	300
9....	73	....	....	....	....	....	....	2350	3890	1400	428	310
10....	71	....	....	....	....	....	....	2350	6450	1860	416	310
11....	71	....	....	....	....	....	....	2420	6450	1990	452	310
12....	69	....	....	....	....	....	....	2500	5690	1580	616	310
13....	69	....	....	....	....	....	....	2200	4840	1360	565	310
14....	71	....	....	....	....	....	....	1790	4260	1160	470	310
15....	71	....	....	....	....	....	....	1620	3980	1480	524	310
16....	73	....	....	....	....	....	....	1490	3890	1720	632	310
17....	73	....	....	....	....	....	....	1290	3800	1720	608	315
18....	71	....	....	....	....	....	....	1300	3800	1600	506	345
19....	69	....	....	....	....	....	....	1610	3370	1460	494	395
20....	67	....	....	....	....	....	....	1920	2970	1490	524	494
21....	69	....	....	....	....	....	....	2130	2970	1990	500	524
22....	77	....	....	....	....	....	....	2280	2970	1920	488	464
23....	73	....	....	....	....	....	....	2060	2580	1580	476	395
24....	77	....	....	....	....	....	....	1860	2280	1290	500	310
25....	75	....	....	....	....	....	....	1920	2130	1190	470	310
26....	75	....	....	....	....	....	....	1990	2200	1130	385	310
27....	73	....	....	....	....	....	1460	2280	2350	1080	295	315
28....	73	....	....	....	....	....	1660	2420	2350	910	310	325
29....	73	....	....	....	....	....	1720	2500	2060	797	248	325
30....	73	....	....	....	....	....	1990	2280	1790	648	240	305
31....	71	....	....	....	....	....	....	2130	....	624	256	....
Total	2377	2400	2325	2480	2100	2790	13500	63380	96410	43919	14829	10117
Mean.	76.7	80	75	80	75	90	450	2040	3210	1420	478	337
Max..	108	....	....	....	....	....	1990	2500	6450	1990	632	524
Min..	67	....	....	....	....	....	....	1290	1790	624	240	285
Acre-ft.	4720	4760	4610	4920	4160	5530	26800	125000	191000	87300	29400	20100

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Platte River near Northgate for Year Ending Sept. 30, 1924.
Drainage Area, 1,440 Square Miles. Altitude, 7,600 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	285	260	....	....	....	....	280	707	2420	885	224	75
2....	295	260	....	....	....	....	300	755	1990	798	207	72
3....	300	265	....	....	....	....	310	921	1720	715	185	69
4....	325	270	....	....	....	....	320	1260	1600	638	174	70
5....	335	275	....	....	....	....	400	1590	2060	600	178	70
6....	330	275	....	....	....	....	500	1510	2270	730	189	70
7....	315	270	....	....	....	....	650	1350	2420	858	189	72
8....	300	270	....	....	....	....	850	1190	2500	894	171	73
9....	275	265	....	....	....	....	1100	1060	2420	980	158	74
10....	265	260	....	....	....	....	2100	970	2130	1000	155	76
11....	270	260	....	....	....	....	3500	1010	1780	900	148	78
12....	280	265	....	....	....	....	3000	1140	1720	730	136	80
13....	290	270	....	....	....	....	2200	1200	2060	650	134	80
14....	300	270	....	....	....	....	1800	1170	2720	504	131	77
15....	295	....	....	....	....	....	3270	1090	3350	459	134	67
16....	290	....	....	....	....	....	2720	1000	3840	411	140	67
17....	285	....	....	....	....	....	1850	980	3840	411	117	68
18....	300	....	....	....	....	....	1000	1060	3350	453	112	78
19....	285	....	....	....	....	....	750	1240	2800	411	112	88
20....	275	....	....	....	....	....	680	1320	2340	310	109	88
21....	260	....	....	....	....	....	720	1210	1920	300	107	86
22....	270	....	....	....	....	....	900	1240	1800	281	109	86
23....	275	....	....	....	....	....	1200	1480	1240	281	112	86
24....	275	....	....	....	....	....	1450	1450	1140	260	109	82
25....	280	....	....	....	....	....	1200	1310	1140	240	108	78
26....	280	....	....	....	....	....	1000	1390	1030	211	108	84
27....	285	....	....	....	....	....	850	2500	980	211	105	92
28....	280	....	....	....	....	....	755	3190	840	240	98	95
29....	275	....	....	....	....	....	731	3350	798	236	80	95
30....	270	....	....	....	....	....	715	3270	930	236	75	95
31....	270	....	....	....	....	....	....	3110	....	232	74	....
Total	8915	3735	....	....	....	....	37101	46023	61148	16065	4188	2371
Mean.	288	....	....	....	....	....	1240	1480	2040	518	135	79.0
Max..	335	....	....	....	....	....	3500	3350	3840	1000	224	95
Min..	260	....	....	....	....	....	280	707	798	211	74	67
Acre-ft.	17700	....	....	....	....	....	73800	91000	121000	31900	8300	4700

Discharge of Big Grizzly Creek near Walden for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	500	466	158	50	29
2....	....	....	....	....	....	....	....	400	504	135	48	29
3....	....	....	....	....	....	....	....	325	473	126	46	29
4....	....	....	....	....	....	....	....	325	512	126	48	28
5....	....	....	....	....	....	....	....	462	466	125	46	28
6....	....	....	....	....	....	....	....	571	448	121	46	28
7....	....	....	....	....	....	....	....	890	386	102	46	27
8....	....	....	....	....	....	....	....	840	401	92	42	27
9....	....	....	....	....	....	....	....	800	975	130	45	27
10....	....	....	....	....	....	....	....	850	1280	169	45	26
11....	....	....	....	....	....	....	....	900	984	190	55	24
12....	....	....	....	....	....	....	....	720	763	190	98	24
13....	....	....	....	....	....	....	....	525	635	182	67	24
14....	....	....	....	....	....	....	....	400	639	219	68	25
15....	....	....	....	....	....	....	....	300	591	210	59	25
16....	....	....	....	....	....	....	....	358	498	196	56	26
17....	....	....	....	....	....	....	....	445	535	218	53	26
18....	....	....	....	....	....	....	....	719	466	202	49	33
19....	....	....	....	....	....	....	....	759	424	121	45	42
20....	....	....	....	....	....	....	....	934	345	93	45	44
21....	....	....	....	....	....	....	....	890	338	135	48	36
22....	....	....	....	....	....	....	....	854	332	124	46	32
23....	....	....	....	....	....	....	....	651	310	102	43	29
24....	....	....	....	....	....	....	....	715	264	91	41	30
25....	....	....	....	....	....	....	....	683	252	83	43	32
26....	....	....	....	....	....	....	....	787	227	77	37	32
27....	....	....	....	....	....	....	....	735	210	73	36	29
28....	....	....	....	....	....	....	....	759	198	69	33	29
29....	....	....	....	....	....	....	....	679	186	60	30	27
30....	....	....	....	....	....	....	....	559	172	53	38	26
31....	....	....	....	....	....	....	....	480	....	52	31	....
Total	....	....	....	....	....	....	....	19815	14280	4024	1483	873
Mean.	....	....	....	....	....	....	....	639	476	130	47.8	29.1
Max..	....	....	....	....	....	....	....	934	1280	219	98	44
Min..	....	....	....	....	....	....	....	300	172	52	30	24
Acre-ft.	....	....	....	....	....	....	....	39300	28300	8000	2940	1730

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork near Walden for Year Ending Sept. 30, 1924.
Drainage Area, 84 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	30	20	....	.....	....	....	....	141	350	103	45	....
2....	....	21	....	....	....	....	....	156	220	95	44	....
3....	....	20	....	....	....	....	....	172	163	71	44	....
4....	....	37	....	....	....	....	....	194	220	68	46	....
5....	....	31	....	....	....	....	....	206	320	71	45	19
6....	....	30	....	....	....	....	....	163	400	60	43	....
7....	....	28	....	....	....	....	....	130	433	79	34	....
8....	....	29	....	....	....	....	....	120	440	64	33	....
9....	....	31	....	....	....	....	....	110	380	70	35	....
10....	....	31	....	....	....	....	....	110	335	60	35	....
11....	....	39	....	....	....	....	....	130	360	60	31	....
12....	....	32	....	....	....	....	....	160	460	50	31	21
13....	....	32	....	....	....	....	270	120	580	46	30	....
14....	....	30	....	....	....	....	320	81	712	49	30	....
15....	....	30	....	....	....	....	340	81	732	45	33	....
16....	....	28	....	....	....	....	200	79	646	45	30	....
17....	....	29	....	....	....	....	160	135	535	62	27	....
18....	....	33	....	....	....	....	140	150	417	56	27	....
19....	....	34	....	....	....	....	130	160	338	50	26	22
20....	....	29	....	....	....	....	137	170	196	44	25	....
21....	....	27	....	....	....	....	140	150	156	38	27	....
22....	....	28	....	....	....	....	143	167	165	40	25	....
23....	....	25	....	....	....	....	133	161	133	38	24	....
24....	....	24	....	....	....	....	143	244	110	38	24	....
25....	....	25	....	....	....	....	138	249	114	38	24	....
26....	....	28	....	....	....	....	125	300	116	38	22	....
27....	28	27	....	....	....	....	130	395	116	49	22	....
28....	28	25	....	....	....	....	120	450	116	44	24	....
29....	26	25	....	....	....	....	118	425	116	46	22	....
30....	26	25	....	....	....	....	116	410	112	46	21	....
31....	21	....	....	....	....	....	....	390	....	45	21	....
Total	....	853	....	....	....	....	3003	6109	9491	1708	950	....
Mean.	27	28.4	....	....	....	....	....	197	316	55.1	30.6	21
Max..	....	39	....	....	....	....	....	450	732	103	46	....
Min..	....	20	....	....	....	....	....	79	110	38	21	....
Acre-ft.	1660	1690	....	....	....	....	....	12100	18800	3390	1880	1250

Discharge of North Fork of North Platte River near Walden for Year Ending Sept. 30, 1924.
Drainage Area, 168 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	65	60	....	....	....	....	....	132	306	119	84	35
2....	65	62	....	....	....	....	....	151	212	112	72	27
3....	63	60	....	....	....	....	....	166	146	101	69	25
4....	67	51	....	....	....	....	....	204	220	93	69	24
5....	64	52	....	....	....	....	....	207	262	96	73	23
6....	63	54	....	....	....	....	....	166	194	117	70	21
7....	59	55	....	....	....	....	....	127	223	142	63	21
8....	56	54	....	....	....	....	....	119	182	159	62	20
9....	56	60	....	....	....	....	....	123	146	155	62	21
10....	56	49	....	....	....	....	100	95	114	117	60	21
11....	62	59	....	....	....	....	120	112	91	112	60	23
12....	66	55	....	....	....	....	160	123	130	105	56	27
13....	59	54	....	....	....	....	210	115	231	106	55	30
14....	55	52	....	....	....	....	320	95	359	93	57	29
15....	56	....	....	....	....	....	220	72	402	79	59	26
16....	55	....	....	....	....	....	140	67	352	85	55	19
17....	55	....	....	....	....	....	88	67	288	114	51	21
18....	49	....	....	....	....	....	85	74	248	106	48	24
19....	57	....	....	....	....	....	91	80	237	82	45	24
20....	48	....	....	....	....	....	108	84	200	76	44	24
21....	50	....	....	....	....	....	155	74	144	72	44	24
22....	50	....	....	....	....	....	202	72	132	63	43	24
23....	55	....	....	....	....	....	207	142	128	59	42	24
24....	55	....	....	....	....	....	231	123	134	63	46	23
25....	52	....	....	....	....	....	164	108	144	67	46	23
26....	56	....	....	....	....	....	108	180	146	66	44	24
27....	52	....	....	....	....	....	112	300	138	72	41	25
28....	53	....	....	....	....	....	96	259	121	88	36	24
29....	54	....	....	....	....	....	103	204	117	82	32	24
30....	56	....	....	....	....	....	119	265	114	76	32	23
31....	57	....	....	....	....	....	....	297	....	80	34	....
Total	1766	777	....	....	....	....	3139	4403	5861	2957	1654	723
Mean.	57.0	....	....	....	....	....	....	142	195	95.4	53.4	24.1
Max..	67	....	....	....	....	....	....	300	402	159	84	35
Min..	48	....	....	....	....	....	....	67	91	59	32	19
Acre-ft.	3500	....	....	....	....	....	....	8730	11600	5870	3280	1430

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Illinois Creek at Walden for Year Ending Sept. 30, 1923.
Drainage Area, 254 Square Miles. Altitude, 8,300 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	290	325	167	50	56
2....	....	....	....	....	....	....	....	290	325	139	50	56
3....	....	....	....	....	....	....	....	290	258	139	48	56
4....	....	....	....	....	....	....	....	325	277	126	48	50
5....	....	....	....	....	....	....	....	274	297	113	48	43
6....	....	....	....	....	....	....	....	415	274	113	48	43
7....	....	....	....	....	....	....	....	325	258	90	48	43
8....	....	....	....	....	....	....	....	227	297	90	42	43
9....	....	....	....	....	....	....	....	258	815	90	42	43
10....	....	....	....	....	....	....	....	258	1040	167	43	32
11....	....	....	....	....	....	....	....	113	795	325	55	32
12....	....	....	....	....	....	....	....	113	715	167	88	32
13....	....	....	....	....	....	....	....	113	715	197	80	32
14....	....	....	....	....	....	....	....	167	655	258	82	32
15....	....	....	....	....	....	....	....	139	675	258	90	32
16....	....	....	....	....	....	....	....	113	555	258	56	43
17....	....	....	....	....	....	....	....	113	595	360	56	43
18....	....	....	....	....	....	....	....	90	615	360	56	43
19....	....	....	....	....	....	....	....	90	555	308	56	43
20....	....	....	....	....	....	....	....	90	510	258	56	43
21....	....	....	....	....	....	....	....	90	325	258	56	43
22....	....	....	....	....	....	....	....	90	258	325	56	43
23....	....	....	....	....	....	....	....	167	258	167	56	43
24....	....	....	....	....	....	....	....	167	227	120	56	43
25....	....	....	....	....	....	....	....	242	227	108	56	32
26....	....	....	....	....	....	....	....	258	197	110	56	32
27....	....	....	....	....	....	....	....	360	197	108	56	32
28....	....	....	....	....	....	....	....	325	197	100	56	35
29....	....	....	....	....	....	....	....	325	197	85	56	38
30....	....	....	....	....	....	....	....	342	145	85	56	42
31....	....	....	....	....	....	....	....	360	....	60	56	....
Total	....	....	....	....	....	....	....	6849	12779	5509	1758	1223
Mean.	....	....	....	....	....	....	....	221	426	178	57	41
Max..	....	....	....	....	....	....	....	415	1040	360	90	56
Min..	....	....	....	....	....	....	....	90	145	60	42	32
Acre-ft.	....	....	....	....	....	....	....	13600	25300	10900	3500	2440

Discharge of Illinois Creek at Walden for Year Ending Sept. 30, 1924.
Drainage Area, 254 Square Miles. Altitude, 8,300 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	32	32	....	....	....	....	....	113	555	46	6.5	0.4
2....	43	32	....	....	....	....	....	113	290	44	8.0	0.3
3....	44	32	....	....	....	....	....	129	258	42	8.0	0.3
4....	32	32	....	....	....	....	....	104	290	42	7.0	0.4
5....	32	32	....	....	....	....	....	139	325	42	6.0	0.4
6....	32	32	....	....	....	....	....	139	378	42	2.0	0.3
7....	32	32	....	....	....	....	....	139	435	43	2.0	0.3
8....	32	32	....	....	....	....	....	129	455	43	2.2	0.3
9....	32	32	....	....	....	....	....	90	435	58	2.0	0.3
10....	43	32	....	....	....	....	....	90	415	74	2.0	0.3
11....	43	23	....	....	....	....	....	90	274	61	2.0	0.5
12....	43	23	....	....	....	....	....	90	212	52	2.5	4.0
13....	43	....	....	....	....	....	595	90	227	64	1.5	4.0
14....	32	....	....	....	....	....	595	85	290	55	1.5	1.0
15....	32	....	....	....	....	....	595	76	378	46	1.5	1.0
16....	32	....	....	....	....	....	258	72	435	30	1.5	2.0
17....	32	....	....	....	....	....	258	69	455	42	1.5	2.0
18....	32	....	....	....	....	....	258	66	455	34	2.5	5.0
19....	32	....	....	....	....	....	258	64	342	23	2.5	6.0
20....	32	....	....	....	....	....	227	81	274	20	2.0	5.0
21....	43	....	....	....	....	....	197	86	182	18	1.0	5.0
22....	43	....	....	....	....	....	258	90	129	16	1.2	6.0
23....	43	....	....	....	....	....	274	113	104	14	1.5	6.0
24....	38	....	....	....	....	....	258	102	83	12	1.5	5.0
25....	32	....	....	....	....	....	212	106	77	11	1.0	4.0
26....	32	....	....	....	....	....	197	111	72	12	1.0	1.0
27....	32	....	....	....	....	....	167	415	72	12	1.0	4.0
28....	23	....	....	....	....	....	167	515	64	12	1.2	6.0
29....	23	....	....	....	....	....	139	635	59	6	1.2	8.0
30....	23	....	....	....	....	....	139	635	62	6	1.0	6.0
31....	23	....	....	....	....	....	....	595	....	6	1.0	....
Total	1062	366	....	....	....	....	5052	5371	8082	1028	77.3	84.8
Mean.	34.3	....	....	....	....	....	....	173	269	33.2	2.49	2.83
Max..	44	....	....	....	....	....	....	635	555	74	8	8
Min..	23	....	....	....	....	....	....	64	59	6	1	3
Acre-ft.	2110	....	....	....	....	....	....	10600	16000	2040	153	168

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Michigan River at Walden for Year Ending Sept. 30, 1923.
Drainage Area, 185 Square Miles. Altitude, 8,300 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	135	276	222	47	54
2....	....	....	....	....	....	....	....	138	280	188	48	56
3....	....	....	....	....	....	....	....	160	298	174	48	51
4....	....	....	....	....	....	....	....	160	320	170	48	48
5....	....	....	....	....	....	....	....	174	348	148	48	53
6....	....	....	....	....	....	....	....	236	320	124	51	44
7....	....	....	....	....	....	....	....	244	276	130	47	44
8....	....	....	....	....	....	....	....	260	370	122	40	39
9....	....	....	....	....	....	....	....	294	858	240	43	36
10....	....	....	....	....	....	....	....	268	1040	325	43	34
11....	....	....	....	....	....	....	....	268	912	252	47	34
12....	....	....	....	....	....	....	....	212	846	180	81	33
13....	....	....	....	....	....	....	....	135	720	135	67	34
14....	....	....	....	....	....	....	....	114	612	124	72	35
15....	....	....	....	....	....	....	....	119	570	188	93	43
16....	....	....	....	....	....	....	....	96	588	226	116	48
17....	....	....	....	....	....	....	....	91	672	202	96	53
18....	....	....	....	....	....	....	....	109	648	188	80	50
19....	....	....	....	....	....	....	....	154	570	202	70	65
20....	....	....	....	....	....	....	....	141	535	198	64	68
21....	....	....	....	....	....	....	....	160	594	302	62	60
22....	....	....	....	....	....	....	....	138	555	226	57	54
23....	....	....	....	....	....	....	....	124	460	174	56	51
24....	....	....	....	....	....	....	....	160	410	144	59	53
25....	....	....	....	....	....	....	....	167	390	114	56	47
26....	....	....	....	....	....	....	....	194	400	122	56	47
27....	....	....	....	....	....	....	....	236	405	119	48	44
28....	....	....	....	....	....	....	....	272	400	109	47	51
29....	....	....	....	....	....	....	....	230	330	87	44	53
30....	....	....	....	....	....	....	....	205	248	83	47	56
31....	....	....	....	....	....	....	....	219	....	72	50	....
Total	....	....	....	....	....	....	....	5613	15251	5290	1831	1438
Mean.	....	....	....	....	....	....	....	181	508	171	59.1	47.9
Max..	....	....	....	....	....	....	....	294	1040	325	116	68
Min..	....	....	....	....	....	....	....	91	248	72	40	33
Acre-ft.	....	....	....	....	....	....	....	11100	30200	10500	3630	2850

Discharge of Michigan River at Walden for Year Ending Sept. 30, 1924.
Drainage Area, 185 Square Miles. Altitude, 8,300 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	56	65	....	....	....	....	....	80	252	188	25	8
2....	40	56	....	....	....	....	....	115	240	157	23	7
3....	40	49	....	....	....	....	....	138	276	141	21	6
4....	46	43	....	....	....	....	....	184	370	125	21	5
5....	50	42	....	....	....	....	....	202	395	103	21	6
6....	54	43	....	....	....	....	....	160	400	135	20	5
7....	49	49	....	....	....	....	....	135	415	133	19	5
8....	49	52	....	....	....	....	....	115	430	135	16	6
9....	49	56	....	....	....	....	....	90	415	167	16	7
10....	52	38	....	....	....	....	....	76	294	135	16	9
11....	68	43	....	....	....	....	....	82	276	133	16	10
12....	66	44	....	....	....	....	....	94	312	128	16	9
13....	63	31	....	....	....	....	307	120	405	92	17	8
14....	59	32	....	....	....	....	500	135	600	86	16	5
15....	63	35	....	....	....	....	594	117	690	80	19	5
16....	59	40	....	....	....	....	330	117	738	76	16	7
17....	57	46	....	....	....	....	184	110	708	92	16	8
18....	49	61	....	....	....	....	130	130	660	92	15	12
19....	59	63	....	....	....	....	115	130	545	65	13	13
20....	57	57	....	....	....	....	133	133	520	65	12	12
21....	44	57	....	....	....	....	157	128	361	52	11	12
22....	59	59	....	....	....	....	194	133	307	50	8	13
23....	61	50	....	....	....	....	252	157	302	46	9	13
24....	57	45	....	....	....	....	302	164	272	43	8	12
25....	54	40	....	....	....	....	216	130	236	37	8	10
26....	66	35	....	....	....	....	133	202	236	36	8	12
27....	66	35	....	....	....	....	110	450	244	32	7	17
28....	56	30	....	....	....	....	92	490	256	33	5	17
29....	52	28	....	....	....	....	84	465	244	32	4	15
30....	50	26	....	....	....	....	78	370	216	30	4	17
31....	65	....	....	....	....	....	....	256	....	31	5	....
Total	1715	1350	....	....	....	....	3911	5408	11615	2750	431	291
Mean.	55.3	45.0	....	....	....	....	....	174	387	88.7	13.9	9.7
Max..	68	65	....	....	....	....	....	490	738	188	25	17
Min..	40	26	....	....	....	....	....	76	216	30	4	5
Acre-ft.	3400	2680	....	....	....	....	....	10700	23000	5450	855	577

Unless otherwise noted, all dicharges are in cubic feet per second.

Discharge of Laramie River Near Glendevey for Year Ending Sept. 30, 1923.
Drainage Area, 101 Square Miles. Altitude, 8,231 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	27	14	....	....	....	....	....	48	488	260	94	33
2....	22	14	....	....	....	....	....	57	507	255	80	33
3....	18	16	....	....	....	....	....	66	454	250	76	32
4....	18	14	....	....	....	....	....	83	392	248	70	32
5....	18	....	....	....	....	....	....	65	401	251	70	32
6....	18	....	....	....	....	....	....	61	336	237	70	30
7....	18	....	....	....	....	....	....	59	308	240	62	30
8....	18	....	....	....	....	....	....	64	430	287	58	29
9....	17	....	....	....	....	....	....	67	1440	336	59	27
10....	16	....	....	....	....	....	....	70	....	262	60	26
11....	18	....	....	....	....	....	....	68	....	230	65	24
12....	16	....	....	....	....	....	....	80	....	219	60	22
13....	15	....	....	....	....	....	....	83	....	204	50	23
14....	16	....	....	....	....	....	....	86	....	227	49	27
15....	16	....	....	....	....	....	....	95	....	224	54	25
16....	16	....	....	....	....	....	....	90	....	197	50	26
17....	16	....	....	....	....	....	....	88	....	178	44	28
18....	15	....	....	....	....	....	....	109	....	163	42	30
19....	15	....	....	....	....	....	....	147	....	151	37	40
20....	15	....	....	....	....	....	....	161	....	188	36	32
21....	16	....	....	....	....	....	....	157	....	254	34	30
22....	16	....	....	....	....	....	....	155	....	185	36	28
23....	15	....	....	....	....	....	....	197	....	163	36	26
24....	14	....	....	....	....	....	....	246	....	155	35	30
25....	14	....	....	....	....	....	....	332	....	150	33	28
26....	13	....	....	....	....	....	....	397	....	140	34	27
27....	10	....	....	....	....	....	....	440	....	130	34	26
28....	14	....	....	....	....	....	....	359	....	110	34	26
29....	15	....	....	....	....	....	....	340	....	98	33	24
30....	15	....	....	....	....	....	....	373	....	90	33	21
31....	15	....	....	....	....	....	....	473	....	86	33	....
Total	505	....	....	....	....	....	....	5116	....	6168	1561	847
Mean.	16.3	....	....	....	....	....	....	165	....	199	50.4	28.2
Max..	27	....	....	....	....	....	....	473	....	336	94	40
Min...	10	....	....	....	....	....	....	48	....	86	33	21
Acre-ft.	1000	....	....	....	....	....	....	10100	....	12200	3100	1680

Discharge of Laramie River Near Glendevey for Year Ending Sept. 30, 1924
Drainage Area, 101 Square Miles. Altitude, 8,231 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	36	....	....	....	....	....	....	81	250	221	57	34
2....	34	....	....	....	....	....	....	100	295	208	51	35
3....	40	....	....	....	....	....	....	118	355	174	48	38
4....	42	....	....	....	....	....	....	120	405	154	45	37
5....	40	....	....	....	....	....	....	139	490	150	46	33
6....	38	....	....	....	....	....	....	130	575	148	47	28
7....	37	....	....	....	....	....	....	105	590	156	44	25
8....	38	....	....	....	....	....	....	100	560	164	41	24
9....	38	....	....	....	....	....	....	90	444	134	40	27
10....	38	....	....	....	....	....	....	105	408	124	39	38
11....	39	....	....	....	....	....	....	140	500	122	40	45
12....	39	....	....	....	....	....	....	165	640	113	39	40
13....	39	....	....	....	....	....	....	210	805	107	38	34
14....	40	....	....	....	....	....	....	275	984	98	40	29
15....	37	....	....	....	....	....	....	300	974	87	40	28
16....	35	....	....	....	....	....	....	322	870	84	38	26
17....	35	....	....	....	....	....	....	354	755	99	32	26
18....	38	....	....	....	....	....	....	366	700	99	30	37
19....	39	....	....	....	....	....	....	354	655	84	28	34
20....	38	....	....	....	....	....	....	304	458	78	26	28
21....	34	....	....	....	....	....	....	301	358	71	25	31
22....	38	....	....	....	....	....	49	319	382	64	26	34
23....	38	....	....	....	....	....	....	343	382	59	26	32
24....	38	....	....	....	....	....	....	287	390	60	26	32
25....	38	....	....	....	....	....	....	362	336	59	28	29
26....	38	....	....	....	....	....	....	435	315	59	30	31
27....	38	....	....	....	....	....	....	362	273	60	31	31
28....	38	....	....	....	....	....	....	304	241	66	30	31
29....	38	....	....	....	....	....	....	257	244	70	26	33
30....	38	....	....	....	....	....	....	232	238	63	24	34
31....	38	....	....	....	....	....	....	232	....	59	26	....
Total	1174	....	....	....	....	....	....	7312	14872	3294	1107	964
Mean.	37.9	....	....	....	....	....	....	236	496	106	35.7	32.1
Max..	42	....	....	....	....	....	....	435	984	221	57	45
Min...	34	....	....	....	....	....	....	81	238	59	24	24
Acre-ft.	2330	....	....	....	....	....	....	14500	29500	6520	2200	1910

Unless otherwise noted, all dicharges are in cubic feet per second.

Discharge of Laramie River Near Jelm, Wyo., for Year Ending Sept. 30, 1923.
Drainage Area, 297 Square Miles. Altitude, 7,730 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	33	....	....	....	....	....	....	123	....	570	102	63
2....	32	....	....	....	....	....	....	123	....	578	98	65
3....	32	....	....	....	....	....	....	123	....	542	100	62
4....	31	....	....	....	....	....	....	116	....	508	96	60
5....	31	....	....	....	....	....	....	123	....	486	109	58
6....	30	....	....	....	....	....	....	....	....	415	144	57
7....	30	....	....	....	....	....	....	....	....	436	126	52
8....	30	....	....	....	....	....	....	....	1190	475	114	47
9....	28	....	....	....	....	....	....	....	3000	554	112	44
10....	28	....	....	....	....	....	....	....	3740	800	118	44
11....	28	....	....	....	....	....	....	....	....	700	131	38
12....	30	....	....	....	....	....	....	....	....	500	130	38
13....	32	....	....	....	....	....	....	....	....	450	128	52
14....	32	....	....	....	....	....	....	....	....	**400**	**122**	**44**
15....	31	....	....	....	....	....	....	....	....	502	125	44
16....	31	....	....	....	....	....	....	....	....	415	145	42
17....	32	....	....	....	....	....	....	....	....	356	135	70
18....	34	....	....	....	....	....	158	....	....	297	115	125
19....	34	....	....	....	....	....	152	....	....	266	110	131
20....	34	....	....	....	....	....	136	....	....	248	95	102
21....	33	....	....	....	....	....	105	....	....	590	90	76
22....	33	....	....	....	....	....	81	....	....	405	89	64
23....	32	....	....	....	....	....	72	....	....	309	83	65
24....	32	....	....	....	....	....	64	....	....	263	71	66
25....	32	....	....	....	....	....	64	....	....	238	72	68
26....	32	....	....	....	....	....	76	....	....	213	67	69
27....	31	....	....	....	....	....	94	....	....	203	66	72
28....	31	....	....	....	....	....	102	....	....	187	63	81
29....	30	....	....	....	....	....	105	....	....	146	60	81
30....	30	....	....	....	....	....	116	....	....	123	60	67
31....	30	....	....	....	....	....	....	....	....	100	66	....
Total	969	....	....	....	....	....	1325	....	....	12275	3142	1947
Mean.	31.3	....	....	....	....	....	....	450	1480	396	101	64.9
Max..	34	....	....	....	....	....	....	....	....	800	145	131
Min...	28	....	....	....	....	....	....	....	....	100	60	38
Acre-ft.	1920	....	....	....	....	....	....	27700	88100	24300	6210	3860

Discharge of Laramie River Near Jelm, Wyo., for Year Ending Sept. 30, 1924.
Drainage Area, 297 Square Miles. Altitude, 7,730 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	90	83	....	....	....	....	....	114	560	361	92	....
2....	81	85	....	....	....	....	....	128	646	338	82	....
3....	89	79	....	....	....	....	....	161	780	313	80	....
4....	98	78	....	....	....	....	....	230	856	281	79	....
5....	89	80	....	....	....	....	....	266	950	270	83	....
6....	89	96	....	....	....	....	....	244	1080	281	83	....
7....	81	95	....	....	....	....	....	224	1280	293	76	....
8....	76	94	....	....	....	....	....	241	1300	234	72	61
9....	67	89	....	....	....	....	....	210	1030	274	72	....
10....	72	85	....	....	....	....	....	206	980	234	76	....
11....	81	71	....	....	....	....	....	259	1090	238	76	....
12....	85	71	....	....	....	....	....	361	1340	220	71	....
13....	67	78	....	....	....	....	....	448	1730	193	72	....
14....	61	78	....	....	....	....	....	502	2000	168	74	....
15....	64	78	....	....	....	....	....	524	2020	146	71	....
16....	60	80	....	....	....	....	....	590	1710	146	66	....
17....	61	80	....	....	....	....	....	660	1560	171	62	....
18....	58	80	....	....	....	....	....	788	1230	180	60	....
19....	67	81	....	....	....	....	....	772	1120	165	60	....
20....	54	82	....	....	....	....	....	732	788	140	55	....
21....	67	83	....	....	....	....	....	756	732	107	55	....
22....	66	84	....	....	....	....	....	788	708	109	56	....
23....	79	85	....	....	....	....	....	865	632	102	56	....
24....	81	79	....	....	....	....	....	692	625	100	56	....
25....	89	66	....	....	....	....	....	780	572	98	55	....
26....	105	37	....	....	....	....	....	892	542	98	48	....
27....	83	46	....	....	....	....	126	910	497	98	45	....
28....	81	55	....	....	....	....	107	756	458	100	45	....
29....	81	50	....	....	....	....	107	676	431	108	42	....
30....	81	50	....	....	....	....	107	611	410	100	42	....
31....	81	....	....	....	....	....	....	584	....	96	42	....
Total	2384	2278	....	....	....	....	447	15970	29657	5862	2004	....
Mean.	76.9	75.9	....	....	....	....	....	515	989	189	64.6	55
Max..	105	96	....	....	....	....	....	910	2020	361	92	....
Min...	54	37	....	....	....	....	....	114	410	96	42	....
Acre-ft.	4730	4520	....	....	....	....	....	31700	58800	11600	3970	3270

Unless otherwise noted, all dicharges are in cubic feet per second.

ARKANSAS RIVER DRAINAGE

TENNESEE FORK NEAR LEADVILLE

Location—In Sec. 16, T. 9 S., R. 80 W., three miles northwest of Leadville and just above the mouth of the stream.

Records Available—May 10 to October 31, 1890; June 18 to October 16, 1903; February 8, 1911, to September 30, 1924.

Gage—Vertical Staff.

Accuracy—Records considered good.

Co-operation—Station maintained by the United States Geoligical Survey in co-operation with United States Forestry Service.

EAST FORK OF ARKANSAS RIVER NEAR LEADVILLE

Location—At highway bridge in Sec. 16, T. 9 S., R. 80 W., 3 miles northwest of Leadville and 200 yards above conjunction with Tennessee Fork.

Records Available—April 25 to August 31, 1890; June 18 to October 11, 1903; June 5, 1911, to September 30, 1924.

Gage—Vertical staff.

Accuracy—Records considered fair.

Co-operation—Station maintained by the United States Geological Survey in co-operation with United States Forestry Service.

ARKANSAS RIVER AT GRANITE

Location—At Granite in Sec. 31, T. 11 S., R. 79 W.

Records Available—May 1, 1897, to September 10, 1899; April 6, 1910, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

ARKANSAS RIVER AT SALIDA

Location—In the City Park at Salida.

Records Available—April 11, 1895, to October 31, 1903; November 3, 1909, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

ARKANSAS RIVER AT CANON CITY

Location—Opposite the Southern Colorado Power Plant at Canon City.

Records Available—May 1, 1888, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

ARKANSAS RIVER AT PUEBLO

Location—At Main Street Bridge in Pueblo.

Records Available—May 1, 1885, to September 30, 1886; September 19, 1894, to September 30, 1924. A station was maintained 9 miles above Pueblo from June 1 to September 30, 1887, and May 1 to August 31, 1889.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the Arkansas Valley Ditch Association.

ARKANSAS RIVER NEAR NEPESTA

Location—At Oxford Farmers Canal Company's dam in Sec. 31, T. 21 S., R. 60 W. Records corrected for Oxford Farmers Canal waste water. Prior to 1918 records not corrected for waste water.

Records Available—September 8, 1897, to October 31, 1903; July 14, 1909, to November 30, 1912; January 1, 1914, to September 30, 1924. From 1918 to June 4, 1921, station maintained at Nepesta.

Gage—Automatic recording gage.

Accuracy—Results poor.

Co-operation—Station maintained in co-operation with Arkansas Valley Ditch Association.

ARKANSAS RIVER AT LA JUNTA

Location—At East Bridge in La Junta.

Records Available—May 20 to August 31, 1889; December 5, 1893, to December 31, 1895; 1899 to 1901; April 7 to October 31, 1903; August 27 to November 30, 1908; April 11, 1912, to September 30, 1924. This station has been maintained at different places during this time, but the records are comparable.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the Arkansas Valley Ditch Association.

ARKANSAS RIVER AT LAMAR

Location—At highway bridge one mile north of Lamar.

Records Available—May 11, 1913, to September 30, 1924.

Gage—Automatic recording gage.

Acccuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the Arkansas Valley Ditch Association.

ARKANSAS RIVER AT HOLLY

Location—At highway bridge half mile southeast of Holly in Sec. 14, T. 23 S., R. 23 W.

Records Available—October 15, 1907, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the Arkansas Valley Ditch Association.

COTTONWOOD CREEK BELOW HOT SPRINGS NEAR BUENA VISTA

Location—Six miles west of Buena Vista at private highway bridge in Sec. 22, T. 14 S., R. 79 W.

Records Available—April 7, 1911, to September 30, 1923. From September 23, 1910, to September 13, 1911, station was maintained in Sec. 21, one mile above present station.

Gage—Vertical staff.

Accuracy—Records considered good.

Co-operation—Station maintained by the United States Geological Survey in co-operation with United States Forestry Service.

SOUTH FORK OF ARKANSAS RIVER AT MOUTH

Location—In Sec. 5, T. 49 N., R. 9 W., one-half mile above mouth.

Records Available—April 1, 1922, to December 31, 1923.

Gage—Staff gage.

Accuracy—Records considered fair.

TEXAS CREEK AT MOUTH

Location—In Sec. 7, T. 19 S., R. 73 W., 500 feet above mouth at Texas Creek.

Records Available—March 28 to November 30, 1923.

Gage—Vertical staff.

Accuracy—Records considered fair.

FOUNTAIN CREEK AT COLORADO SPRINGS

Location—In Colorado Springs 100 feet below the mouth of Cheyenne Creek and 150 feet east of South Nevada Avenue bridge.

Records Available—March 29, 1922, to September 30, 1924.

Gage—Staff gage.

Accuracy—Records considered poor.

FOUNTAIN CREEK AT PUEBLO

Location—In Pueblo one-half mile above Eighth Street bridge.

Records Available—April 1, 1922, to September 30, 1924.

Gage—Staff gage.

Accuracy—Records considered poor.

ST. CHARLES RIVER AT BURNT MILL CROSSING

Location—In Sec. 8, R. 66 W., T. 23 S., at highway bridge at Burnt Mill Crossing.

Records Available—March, 1923, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the Arkansas Valley Protective Association.

ST. CHARLES RIVER AT MOUTH

Location—In Sec. 5, T. 21 S., R. 64 W., at Santa Fe Trail.

Records Available—April 1, 1924, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

GREENHORN CREEK AT RYE

Location—In Sec. 31, T. 24 S., R. 67 W., one-half mile above Rye.

Records Available—March 1 to December 31, 1923.

Gage—Vertical staff gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the Arkansas Valley Protective Association.

HUERFANO RIVER AT MANZANARES CROSSING

Location—In Sec. 5, T. 27 S., R. 71 W., at ford 4 miles above Redwing.

Records Available—July 14, 1923, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the Arkansas Valley Protective Association.

HUERFANO RIVER AT BADITO

Location—In Sec. 4, T. 27 S., R. 68 W., at Badito bridge.

Records Available—August 28 to November 30, 1912; April 1, 1923 to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with Arkansas Valley Protective Association.

HUERFANO RIVER AT MOUTH

Location—On Santa Fe Trail highway bridge, one-half mile above mouth.

Records Available—April 1, 1922, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

CUCHARAS RIVER AT LA VETA

Location—In Sec. 5, T. 30 S., R. 68 W., six miles above La Veta.

Records Available—January 1, 1923, to September 30, 1924.

Gage—Vertical staff gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with Arkansas Valley Protective Association.

APISHAPA RIVER AT MOUTH

Location—In Sec. 24, T. 22 S., R. 59 W., near Santa Fe Trail.

Records Available—April 30, 1922, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

TIMPAS CREEK AT MOUTH

Location—In Sec. 26, T. 23 S., R. 56 W., about 1,200 feet below Santa Fe Trail.

Records Available—April 1, 1922, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

CROOKED ARROYA AT MOUTH

Location—In Sec. 5, T. 24 S., R. 55 W., about 300 feet above Santa Fe Trail.

Records Available—April 1, 1922, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

PURGATOIRE RIVER AT TRINIDAD

Location—150 feet below Main Street bridge in Trinidad.

Records Available—1897 to 1899, 1905 to 1912, April 1, 1916, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

PURGATOIRE RIVER NEAR MOUTH

Location—In Sec. 23, T. 23 S., R. 52 W., on highway bridge two miles southeast of Las Animas.

Records Available—April 1, 1922, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

WHISKEY CREEK AT TRINIDAD WATER WORKS

Location—Near the center of Sec. 1, T. 33 S., R. 69 W.

Records Available—July 1 to December 30, 1923.

Gage—Vertical staff gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the City of Trinidad.

CHERRY CREEK AT TRINIDAD WATER WORKS

Location—One-fourth mile west of the northeast corner Sec. 1, T. 33 S., R. 69 W.

Records Available—July 1 to December, 1923.

Gage—Vertical staff.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the City of Trinidad.

BROWN CREEK AT TRINIDAD WATER WORKS

Location—In NE¼ of SE¼ Sec. 25, T. 32 S., R. 69 W.

Records Available—July 1 to December 31, 1923.

Gage—Vertical staff.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the City of Trinidad.

NORTH FORK OF PURGATOIRE RIVER AT TRINIDAD WATER WORKS

Location—In Sec. 24, T. 32 S., R. 69 W., one-eighth mile above Trinidad Water Works.

Records Available—July 1 to December 31, 1923.

Gage—Vertical staff.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the City of Trinidad.

MIDDLE FORK OF PURGATOIRE RIVER AT VIGIL

Location—In SW¼ of NW¼ Sec. 24, T. 33 S., R. 68 W., one-fourth mile above mouth.

Records Available—July 1 to December 30, 1923.

Gage—Vertical staff gage.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with Arkansas Valley Protective Association.

SOUTH FORK OF PURGATOIRE RIVER AT WESTON

Location—In Sec. 35, T. 33 S., R. 67 W., three-fourths of a mile above mouth.

Records Available—July 1 to December, 1923.

Gage—Vertical staff.

Accuracy—Records considered fair.

Co-operation—Station maintained in co-operation with the Arkansas Valley Protective Association.

WILD HORSE CREEK AT MOUTH NEAR HOLLY

Location—In Sec. 15, T. 23 S., R. 42 W., one-fourth mile southeast of Holly. This is not included in Holly record.

Records Available—October 1, 1922, to November 30, 1924.

Gage—Vertical staff gage.

Accuracy—Records considered fair.

Discharge of Tennessee Fork near Leadville for Year Ending Sept. 30, 1923.
Drainage Area, 45 Square Miles. Altitude, 10,000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	4	....	....	....	....	10	16	70	340	148	45	29
2....	2	....	....	....	....	10	16	75	260	148	51	28
3....	2	....	....	....	....	10	16	80	260	120	49	29
4....	2	....	....	....	....	10	16	90	265	104	34	27
5....	2	....	....	....	....	10	16	100	270	86	36	28
6....	2	....	....	....	....	10	16	120	275	120	29	28
7....	2	....	....	....	....	10	16	130	265	120	31	29
8....	3	....	....	....	....	10	16	150	255	101	28	20
9....	3	....	....	....	....	10	16	175	244	160	29	20
10....	2	....	....	....	....	10	16	190	275	176	31	21
11....	2	....	....	....	....	10	16	185	278	136	33	22
12....	3	....	....	....	....	10	16	182	281	120	30	23
13....	2	....	....	....	....	10	20	136	284	114	70	24
14....	2	....	....	....	....	10	29	130	290	123	101	25
15....	3	....	....	....	....	10	25	120	300	111	67	25
16....	3	....	....	....	....	10	23	110	306	98	58	26
17....	3	....	....	....	....	10	20	100	244	89	64	27
18....	3	....	....	....	....	11	18	110	213	98	64	28
19....	2	....	....	....	....	11	18	125	182	98	58	29
20....	2	....	....	....	....	12	16	139	188	129	44	27
21....	2	....	....	12	....	12	16	160	306	104	40	25
22....	2	....	....	....	....	13	16	200	182	86	39	24
23....	2	....	....	....	....	13	16	228	182	77	39	23
24....	2	....	....	....	....	13	18	240	182	61	39	22
25....	2	....	....	....	....	13	20	250	182	83	37	21
26....	2	....	....	....	....	13	25	260	185	129	29	21
27....	2	....	....	....	....	13	30	228	179	114	29	20
28....	2	....	....	....	....	14	40	228	170	114	29	25
29....	2	....	....	....	....	14	50	228	151	58	23	25
30....	2	....	....	....	....	15	60	228	148	44	24	25
31....	2	....	....	....	....	16	....	290	....	31	30	....
Total	71	....	....	....	....	353	652	5057	7142	3300	1310	746
Mean.	2.3	....	....	....	....	11.4	21.7	163	238	106	42.3	24.9
Max...	4	....	....	....	....	16	60	290	340	176	101	29
Min...	2	....	....	....	....	10	16	70	148	31	23	20
Acre-ft.	141	....	....	....	....	701	1290	10000	14200	6520	2600	1480

Discharge of Tennessee Fork Near Leadville for Year Ending Sept. 30, 1924.
Drainage Area, 45 Square Miles. Altitude, 10,000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	10	60	105	67	18	4
2....	....	....	....	....	....	7	10	65	105	61	16	4
3....	....	....	....	....	....	....	11	75	108	58	16	4
4....	24	....	....	....	....	....	11	85	111	56	16	20
5....	....	....	....	....	....	....	11	70	145	54	20	22
6....	....	....	....	6	....	....	15	65	173	56	16	23
7....	....	....	....	....	....	7	25	65	211	120	12	23
8....	....	....	....	....	....	....	40	75	217	101	11	24
9....	....	....	....	6	8	....	45	85	229	54	10	24
10....	....	....	....	....	....	....	50	88	223	54	10	25
11....	....	....	....	....	....	....	55	95	223	47	10	26
12....	....	....	....	....	....	....	65	105	296	42	10	27
13....	24	....	....	....	....	....	75	100	259	36	12	27
14....	....	....	....	....	....	....	75	118	327	31	12	27
15....	....	....	....	....	....	....	72	145	308	29	12	27
16....	....	....	....	....	....	....	70	154	296	29	12	29
17....	....	....	....	....	9	....	71	170	193	70	10	31
18....	....	19	....	6	....	....	72	188	173	51	6	33
19....	....	....	....	....	....	....	73	179	170	28	6	36
20....	....	....	....	....	....	....	74	170	116	27	6	38
21....	....	....	....	....	....	....	75	188	108	25	6	44
22....	....	....	....	....	....	....	76	190	103	25	5	47
23....	....	13	....	....	....	....	77	188	100	25	5	54
24....	....	....	....	....	....	....	78	132	95	24	4	54
25....	....	....	....	....	....	....	80	132	88	20	4	54
26....	....	....	....	....	....	....	60	173	88	18	4	54
27....	....	....	....	....	....	....	50	168	90	18	4	54
28....	....	....	....	....	....	....	46	143	85	19	4	54
29....	....	....	....	....	....	8	59	143	88	19	4	54
30....	....	....	....	....	....	....	55	132	68	18	4	54
31....	....	....	....	....	....	....	....	126	....	18	4	....
Total	620	540	279	186	174	248	1577	3872	4901	1300	289	997
Mean.	20	18	9	6	8	8	52.6	125	163	41.9	9.3	33.2
Max...	....	....	....	....	....	....	80	190	327	120	20	54
Min...	....	....	....	....	....	....	10	60	68	18	4	4
Acre-ft.	1230	1070	553	369	460	492	3130	7690	9700	2580	572	1980

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of East Fork Arkansas River Near Leadville for Year Ending Sept. 30, 1923.
Drainage Area, 52 Square Miles. Altitude, 10,000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	8	....	....	....	....	....	8	13	239	149	82	43
2....	7	....	....	....	....	....	8	14	298	149	106	38
3....	7	....	....	....	....	....	8	15	244	133	75	41
4....	7	....	....	....	....	....	8	16	250	123	55	40
5....	8	....	....	....	....	....	8	18	260	113	61	40
6....	8	....	....	....	....	....	8	20	270	110	61	40
7....	6	....	....	....	....	....	8	30	260	110	52	38
8....	7	....	....	....	....	....	8	40	250	120	55	36
9....	7	....	....	....	....	....	8	50	244	165	50	36
10....	7	....	....	....	....	13	8	55	218	165	55	35
11....	7	....	....	....	....	....	8	50	220	144	65	34
12....	6	....	....	....	....	....	8	45	225	131	65	32
13....	5	....	....	....	....	....	8	38	234	131	116	31
14....	4	....	....	....	....	....	8	38	230	123	91	30
15....	4	....	....	....	....	....	9	37	225	120	86	30
16....	4	....	....	....	....	....	10	36	218	120	84	32
17....	4	....	....	....	....	....	11	35	338	113	82	35
18....	5	....	....	....	....	....	12	40	390	118	80	38
19....	5	....	....	....	....	....	13	45	298	113	75	40
20....	4	....	....	....	....	....	11	57	298	136	67	38
21....	5	....	....	10	....	....	9	80	390	133	55	35
22....	4	....	....	....	....	....	8	100	260	108	59	34
23....	4	....	....	....	....	....	8	149	218	98	59	33
24....	4	....	....	....	....	....	8	190	228	93	55	30
25....	4	....	....	....	....	....	8	230	223	106	53	26
26....	4	....	....	....	....	....	9	270	244	136	55	25
27....	4	....	....	....	....	....	10	325	218	113	73	24
28....	4	....	....	....	....	....	11	330	218	116	61	29
29....	4	....	....	....	....	....	12	340	203	75	40	28
30....	4	....	....	....	....	....	13	358	192	69	43	27
31....	4	....	....	....	....	....	....	300	....	65	52	....
Total	165	....	....	....	....	....	274	3364	7603	3698	2068	1018
Mean.	5.3	....	....	....	....	....	9.1	109	253	119	66.7	33.9
Max..	8	....	....	....	....	....	13	358	390	165	116	43
Min...	4	....	....	....	....	....	8	13	192	65	40	24
Acre-ft.	326	....	....	....	....	....	542	6700	15100	7320	4100	2020

Discharge of East Fork Arkansas River Near Leadville for Year Ending Sept. 30, 1924.
Drainage Area, 52 Square Miles. Altitude, 10,000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	12	25	75	77	32	13
2....	....	....	....	....	....	....	12	30	75	75	29	12
3....	....	....	....	....	....	....	12	35	75	71	26	12
4....	26	....	....	....	....	....	12	40	80	69	26	13
5....	....	....	....	....	....	....	12	35	106	67	26	13
6....	....	....	....	....	....	....	12	30	126	67	23	13
7....	....	....	....	....	....	....	12	30	200	128	18	13
8....	....	....	....	....	....	....	12	35	207	113	18	13
9....	....	....	....	....	....	....	12	45	211	77	17	14
10....	....	....	....	....	....	....	12	48	211	77	15	16
11....	....	....	....	....	....	....	15	55	211	67	15	16
12....	....	....	....	....	....	....	15	65	250	63	16	18
13....	32	....	....	....	....	....	15	75	240	59	18	18
14....	....	....	....	....	....	....	15	82	285	52	18	18
15....	....	....	....	....	....	....	15	108	275	48	17	18
16....	....	....	....	....	....	....	18	123	245	48	17	16
17....	....	....	....	....	9	....	18	128	203	59	16	16
18....	....	....	....	0	....	....	18	131	181	52	14	14
19....	....	....	....	....	....	....	18	133	181	40	14	13
20....	....	....	....	....	....	....	18	128	175	40	13	13
21....	....	....	....	....	....	....	18	133	139	36	13	13
22....	....	....	....	....	....	....	18	131	139	35	13	12
23....	....	21	....	....	....	....	18	128	139	34	12	12
24....	....	....	....	....	....	....	18	103	133	30	12	12
25....	....	....	....	....	....	....	18	103	128	29	12	12
26....	....	....	....	....	....	....	16	126	123	28	12	12
27....	....	....	....	....	....	....	14	113	116	28	12	12
28....	....	....	....	....	....	....	13	113	113	35	12	12
29....	....	....	....	....	....	....	14	103	84	34	13	12
30....	....	....	....	....	....	....	15	84	80	33	13	13
31....	....	....	....	....	....	....	....	75	....	32	13	....
Total	....	....	....	....	....	....	447	2593	4806	1703	525	414
Mean.	....	....	....	....	....	....	14.9	83.6	160	54.9	16.9	13.8
Max...	....	....	....	....	....	....	18	133	285	128	32	18
Min...	....	....	....	....	....	....	....	25	75	28	12	12
Acre-ft.	....	....	....	....	....	....	887	5140	9520	3380	1040	821

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Granite for Year Ending Sept. 30, 1923.
Drainage Area, 431 Square Miles. Altitude, 8,930 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	124	141	105	83	70	68	90	514	1190	800	637	420
2....	124	136	108	81	68	70	88	498	1350	999	724	401
3....	113	120	108	85	67	75	85	487	1450	1020	649	382
4....	92	131	100	88	65	68	92	487	1500	1080	631	372
5....	102	120	106	90	65	62	90	492	1400	1080	590	368
6....	117	106	108	92	60	70	100	498	1220	1050	531	368
7....	126	109	108	89	65	64	92	460	1220	1040	492	363
8....	124	102	94	82	68	70	88	338	986	1100	450	359
9....	126	100	88	82	66	70	96	346	1060	1100	420	350
10....	124	102	87	82	65	65	96	425	911	1110	435	342
11....	120	96	86	84	65	62	114	471	852	1090	450	325
12....	113	106	85	85	67	60	137	410	807	781	460	287
13....	126	106	89	82	67	67	114	492	794	724	602	280
14....	136	102	80	78	67	66	114	498	878	774	698	287
15....	146	92	79	75	67	65	114	487	938	730	625	276
16....	148	86	77	80	68	64	114	460	1110	698	625	248
17....	148	86	70	82	68	63	123	526	1070	662	705	255
18....	148	80	69	83	68	70	135	520	972	596	680	276
19....	151	82	71	83	68	68	154	537	951	724	662	291
20....	153	86	71	83	68	63	132	584	1030	637	643	266
21....	153	80	72	75	71	63	121	619	1180	572	608	227
22....	156	68	70	78	72	63	135	560	979	526	566	191
23....	161	88	72	77	71	70	116	430	925	602	555	186
24....	153	88	74	76	72	72	114	549	932	724	555	191
25....	183	86	72	77	71	62	121	656	958	718	514	174
26....	171	98	74	73	70	80	210	724	972	724	482	161
27....	183	106	75	71	62	70	492	807	965	602	460	164
28....	183	102	78	71	64	80	498	925	878	590	450	181
29....	148	100	74	71	....	80	526	986	833	619	460	184
30....	143	104	72	75	....	90	543	986	814	602	450	181
31....	143	....	80	70	....	95	....	1010	....	572	430	....
Total	4338	3009	2602	2483	1885	2155	5044	17782	31145	24646	17239	8356
Mean.	140	100	84	80	67	70	168	573	1040	795	556	278
Max..	183	141	108	92	72	95	543	1010	1500	1110	724	420
Min...	92	68	69	70	60	60	88	338	794	526	420	161
Acre-ft.	8610	5950	5160	4920	3720	4300	10000	35200	61800	48900	34200	16500

Discharge of Arkansas River at Granite for Year Ending Sept. 30, 1924.
Drainage Area, 425 Square Miles. Altitude, 8,930 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	178	248	149	....	....	87	100	197	573	1120	884	506
2....	168	241	139	....	....	87	100	231	549	1110	932	182
3....	178	238	128	....	....	86	92	284	667	1030	940	131
4....	178	241	112	....	....	79	92	349	806	932	1010	155
5....	181	234	107	....	....	86	129	382	837	860	1010	140
6....	186	234	105	....	....	92	276	501	1230	768	988	131
7....	191	238	114	....	....	79	209	490	1910	753	1000	131
8....	194	244	119	....	....	79	209	478	1930	1050	1020	129
9....	189	252	121	....	....	74	179	506	1790	900	709	134
10....	186	241	110	....	....	79	179	561	1730	932	451	145
11....	186	248	123	....	....	79	209	606	1730	798	446	152
12....	202	161	116	....	....	79	225	667	1500	632	396	127
13....	200	126	110	....	....	86	241	746	2100	599	358	119
14....	191	126	123	....	....	79	296	702	2580	580	358	117
15....	186	137	132	....	....	79	358	739	2600	555	354	117
16....	181	126	126	....	....	79	179	1020	2790	561	580	121
17....	174	114	116	....	....	79	166	1110	2580	606	845	119
18....	154	114	126	....	....	79	140	1160	2330	586	791	123
19....	176	137	128	....	....	79	129	1080	2060	524	783	150
20....	164	126	123	....	....	79	152	1020	1510	451	783	194
21....	166	126	110	....	....	79	179	1180	1160	391	822	200
22....	171	128	109	....	....	92	225	1320	1000	400	892	166
23....	184	130	100	....	....	79	258	1250	868	549	908	131
24....	186	137	101	....	....	79	307	1120	876	518	908	127
25....	186	139	102	....	....	86	241	1200	996	490	924	123
26....	186	130	104	....	....	92	203	1320	1150	660	908	121
27....	176	130	105	....	....	92	166	1260	1260	626	916	121
28....	176	114	105	....	....	92	166	1050	1290	646	940	129
29....	186	130	105	....	....	86	166	768	1290	783	908	134
30....	168	142	100	91	....	86	168	716	1190	852	768	123
31....	191	....	90	....	....	86	....	606	....	860	674	....
Total	5619	5132	3558	....	....	2574	5739	24619	44882	22122	24206	4498
Mean.	181	171	115	89	87	83.0	191	794	1500	714	781	150
Max..	202	252	149	....	....	92	358	1320	2790	1120	1020	506
Min...	154	114	90	....	....	74	92	197	549	391	354	117
Acre-ft	11100	10200	7070	5470	5000	5100	11400	48800	89300	43900	48000	8930

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Salida for Year Ending Sept. 30, 1923.
Drainage Area, 1,210 Square Miles. Altitude, 7,038 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	290	290	271	251	227	220	297	630	1920	2000	1180	768
2....	281	304	284	230	225	227	284	774	2050	2150	1280	858
3....	271	300	293	232	222	235	262	744	2170	2100	1270	846
4....	268	310	293	237	218	240	248	798	2230	2200	1300	822
5....	256	300	287	237	210	232	259	828	2110	2200	1300	804
6....	271	281	300	246	218	213	246	834	2170	2140	1200	792
7....	287	307	314	256	213	232	271	822	2190	2170	1130	780
8....	287	314	317	246	220	225	254	695	1790	2310	1110	762
9....	284	321	284	235	225	232	240	652	1680	2170	1160	733
10....	278	324	259	235	222	237	235	646	1610	2220	967	641
11....	278	324	268	237	218	227	246	756	1490	2240	668	608
12....	284	290	268	243	220	218	248	738	1580	2170	738	592
13....	287	290	268	246	220	213	259	706	1580	1950	896	541
14....	281	307	284	243	222	220	246	798	1860	1920	1060	566
15....	290	307	265	230	220	220	246	756	2250	1820	1000	576
16....	290	300	268	225	218	220	232	700	2600	1770	1100	531
17....	284	297	262	240	220	220	259	733	2290	1650	1240	517
18....	284	307	243	240	218	220	274	744	2100	1720	1320	566
19....	271	307	240	243	218	232	342	733	2130	1800	1370	598
20....	271	293	246	243	218	232	290	780	2200	1790	1270	679
21....	281	293	248	232	220	220	324	858	2550	1830	1200	679
22....	297	290	246	227	225	220	290	846	2310	1800	1140	641
23....	293	290	240	235	227	220	265	576	2150	1500	1080	619
24....	290	321	248	232	225	232	254	792	2210	1560	1070	646
25....	307	324	251	237	225	246	259	1000	2250	1430	1060	630
26....	331	290	243	235	230	220	259	1300	2290	1500	1030	614
27....	328	297	246	227	232	262	498	1580	2510	1460	916	598
28....	328	293	251	220	210	237	603	1690	2300	1320	780	603
29....	317	300	256	222	....	254	652	1700	2140	1300	744	598
30....	290	300	246	222	....	259	668	1670	2060	1230	744	592
31....	284	....	232	230	....	284	....	1760	....	1230	716	....
Total	8939	9071	8221	7314	6186	7169	9310	28639	62770	56650	33039	19800
Mean.	288	302	265	236	221	231	310	924	2090	1830	1070	660
Max..	331	324	317	256	232	284	668	1760	2600	2310	1370	858
Min...	256	281	232	220	210	213	232	576	1490	1230	668	517
Acre-ft.	17700	18000	16300	14500	12300	14200	18500	56800	124000	112000	65500	39200

Discharge of Arkansas River at Salida for Year Ending Sept. 30, 1924
Drainage Area, 1,160 Square Miles. Altitude, 7,038 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	581	536	356	268	268	243	223	340	864	1840	1080	725
2....	571	536	353	260	268	243	247	379	847	1760	1110	658
3....	592	517	346	260	246	250	253	441	882	1740	1160	335
4....	571	517	331	257	223	246	290	565	1160	1600	1180	285
5....	598	503	324	240	220	240	294	625	1460	1570	1210	310
6....	635	503	331	253	268	227	348	686	1930	1500	1210	296
7....	619	494	342	275	268	240	426	747	2990	1530	1190	288
8....	576	489	338	275	260	246	460	836	3260	1640	1220	289
9....	551	498	356	275	264	220	460	808	2850	1620	1220	288
10....	556	494	346	253	268	223	371	922	2600	1570	839	294
11....	541	531	317	279	264	250	366	964	2530	1530	581	306
12....	576	503	314	260	246	246	353	1020	2930	1290	577	314
13....	592	438	317	243	253	236	412	1120	3890	1200	528	290
14....	566	406	324	272	264	240	512	1170	4590	1140	491	283
15....	556	402	317	264	246	250	576	1220	4620	1050	492	282
16....	556	390	314	268	283	246	446	1420	4780	1030	489	268
17....	536	375	307	257	268	227	340	1600	4480	1070	716	302
18....	508	383	293	260	260	233	298	1800	3780	1080	982	286
19....	512	379	287	268	253	230	286	1770	3320	1010	929	290
20....	508	371	307	243	253	236	290	1660	2530	970	922	315
21....	489	364	310	253	250	253	323	1780	2210	934	923	335
22....	498	353	314	260	246	253	349	1890	1980	893	963	335
23....	485	353	293	253	246	230	441	1810	1800	928	1030	290
24....	526	364	300	279	240	240	506	1670	1730	922	1050	264
25....	512	371	290	260	233	246	496	1760	1760	882	1050	257
26....	498	353	287	279	233	246	398	1920	1930	958	1070	253
27....	498	349	297	253	253	257	349	1700	1970	964	1050	243
28....	494	328	268	260	246	264	327	1500	1990	946	1060	233
29....	494	342	290	264	246	240	315	1220	1990	988	1090	253
30....	494	353	304	260	....	236	327	1160	1930	1080	1060	243
31....	467	....	274	268	....	217	....	958	....	1080	918	....
Total	16756	12795	9747	8119	7336	7454	11082	37461	75583	38315	29390	9410
Mean.	540	426	314	262	253	240	369	1210	2530	1240	948	314
Max..	635	536	356	279	283	264	576	1920	4780	1840	1220	725
Min...	467	328	268	240	220	217	223	340	847	882	491	233
Acre-ft.	33200	25300	19300	16100	15100	14800	22000	74400	150000	76200	58300	18700

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Canon City for Year Ending Sept. 30, 1923.
Drainage Area, 3,090 Square Miles. Altitude, 5,363 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	291	291	371	295	272	272	625	601	2100	2300	980	862
2....	280	285	353	286	272	286	454	625	2300	2260	1180	872
3....	274	285	389	295	250	290	406	658	2460	2410	1220	862
4....	274	280	383	300	264	286	362	682	2620	2480	1200	832
5....	274	302	324	305	246	320	345	754	2590	2540	1270	812
6....	291	280	319	310	246	310	345	822	2460	2530	1160	782
7....	302	307	347	340	264	325	394	736	2500	2520	948	772
8....	302	359	371	310	264	356	362	727	2280	2620	904	736
9....	291	359	353	310	264	300	305	609	1830	2640	904	691
10....	264	335	319	286	270	305	277	625	1930	2720	959	658
11....	258	330	335	254	270	315	264	691	1640	3090	1120	666
12....	269	365	365	264	265	300	272	718	1750	3130	926	709
13....	269	359	359	259	270	290	282	633	1820	2530	1190	633
14....	258	383	359	259	280	315	286	782	1960	2900	1300	625
15....	291	383	377	254	280	325	250	862	2380	2360	1340	682
16....	302	365	347	246	285	330	259	822	2770	2350	1310	666
17....	274	359	335	282	285	320	242	782	2860	2180	1530	666
18....	269	389	307	305	290	310	264	812	2470	2180	2240	980
19....	274	371	307	295	290	286	305	763	2400	2130	2460	992
20....	280	353	313	300	277	320	320	754	2480	2170	2110	1170
21....	269	353	324	282	290	330	290	894	2780	2410	1920	915
22....	324	353	319	268	300	315	282	958	2780	1990	1920	812
23....	307	335	324	268	286	290	295	812	2420	1720	1950	802
24....	274	395	324	277	286	282	250	691	2420	1740	1610	842
25....	280	401	319	295	272	282	246	980	2580	1790	1490	872
26....	319	365	330	286	290	325	264	1300	2590	1780	1380	852
27....	347	389	319	277	286	310	259	1600	2800	1920	1270	822
28....	330	395	335	250	277	330	500	1820	2720	1450	1110	792
29....	341	389	319	250	....	350	601	1900	2520	1260	926	802
30....	319	427	313	264	....	362	594	1880	2380	1160	883	782
31....	285	....	280	290	....	579	....	1950	....	1000	883	....
Total	8982	10542	10439	8762	7691	9916	10200	29253	71590	68360	41593	23961
Mean.	290	351	337	283	275	320	340	944	2390	2210	1340	799
Max..	347	427	389	340	300	579	625	1950	2860	3130	2460	1170
Min...	258	280	280	246	246	272	242	601	1640	1000	883	625
Acre-ft.	17800	20900	20700	17400	15300	19700	20200	58000	142000	136000	82400	47500

Discharge of Arkansas River at Canon City for Year Ending Sept. 30, 1924.
Drainage Area, 3,090 Square Miles. Altitude, 5,363 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	782	700	507	401	406	360	401	557	1690	2010	1010	713
2....	772	754	480	395	425	377	458	550	1400	1940	1060	640
3....	772	727	480	383	383	401	528	589	1330	1850	1070	396
4....	832	718	460	412	350	406	644	695	1580	1680	1090	360
5....	852	709	442	377	355	395	766	794	2060	1550	1130	321
6....	872	674	454	412	425	360	832	803	2620	1550	1120	315
7....	842	691	473	458	471	372	988	872	3560	1580	1090	304
8....	792	709	494	464	464	406	1120	923	3950	1690	1100	304
9....	736	718	494	484	464	360	1060	966	3540	1850	1120	272
10....	709	718	480	477	464	372	832	1030	3210	1670	844	299
11....	709	700	480	458	458	395	738	1120	2990	1630	640	299
12....	782	727	467	499	451	406	661	1210	3340	1420	624	293
13....	832	682	473	451	471	383	678	1320	4230	1270	581	293
14....	802	617	467	477	520	377	775	1480	4850	1190	559	293
15....	812	609	473	499	620	383	902	1560	5060	1130	484	245
16....	812	609	430	499	644	383	757	1650	5260	1060	484	240
17....	763	564	418	471	596	389	604	1890	5040	1120	713	250
18....	718	549	436	444	550	366	535	2090	4470	1160	1000	261
19....	674	557	480	513	513	366	499	2230	3960	1020	871	266
20....	674	571	527	438	471	366	499	2150	3290	930	790	266
21....	658	557	534	444	444	401	513	2240	2760	862	826	293
22....	658	557	514	520	431	401	550	2400	2360	808	890	310
23....	658	542	442	513	395	389	604	2400	2140	773	960	321
24....	763	514	454	499	395	383	729	2150	1920	862	980	266
25....	802	514	494	499	377	389	812	2280	1920	781	980	261
26....	772	507	500	477	377	406	729	2500	2050	713	980	240
27....	736	514	542	484	383	451	653	2420	2120	871	970	235
28....	736	514	460	464	377	542	620	2240	2150	826	980	261
29....	745	527	430	477	377	528	565	1980	2180	808	980	277
30....	745	542	480	412	....	477	573	1960	2150	920	900	255
31....	691	....	424	412	....	406	....	2090	....	1000	880	....
Total	23503	18591	14689	14213	13057	12396	20625	49139	89180	38524	27706	9349
Mean.	758	620	474	458	450	400	688	1590	2970	1240	894	312
Max..	872	754	542	....	....	542	1120	2500	5260	2010	1130	713
Min...	658	507	418	....	....	360	401	550	1330	713	484	235
Acre-ft.	46600	36900	29100	28200	25900	24600	40900	97800	177000	76200	55000	18600

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Pueblo for year Ending Sept. 30, 1923.
Drainage Area, 4,600 Square Miles. Altitude, 4,675 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	213	304	483	293	243	184	567	480	1400	2050	2490	1160
2....	174	291	407	311	254	204	535	528	1640	2020	2800	1430
3....	157	304	399	330	210	200	445	586	1820	2440	1490	1200
4....	142	343	362	262	184	180	364	606	2070	2170	2340	1120
5....	133	378	386	330	177	177	306	691	2060	2250	1780	1020
6....	122	340	351	316	247	180	306	784	1950	2270	1410	978
7....	114	332	382	330	247	164	325	850	1950	2240	1300	1080
8....	142	370	395	302	254	171	306	792	2020	2300	1210	858
9....	158	382	347	293	247	184	293	752	1550	2400	1300	800
10....	149	399	336	284	251	184	247	654	1630	2440	1130	760
11....	136	395	336	235	243	184	224	698	1450	2660	1390	784
12....	149	411	370	232	251	214	197	784	1400	6120	1460	2220
13....	205	399	370	235	251	150	204	776	1520	2320	1860	858
14....	205	407	362	224	228	152	197	884	1550	2470	1260	752
15....	228	374	399	221	224	177	200	987	1810	3220	1310	2240
16....	228	399	386	224	204	171	197	1010	2210	4340	1350	1020
17....	248	411	386	239	228	161	174	1040	2640	4570	2710	926
18....	242	407	386	247	207	204	155	1050	2310	2640	3030	2580
19....	239	403	351	228	254	228	152	1020	2010	2700	3810	1690
20....	253	395	351	217	221	221	193	996	2060	3460	3470	1700
21....	253	390	351	204	221	239	207	1020	2250	2790	2590	1550
22....	284	382	322	184	221	247	200	996	2460	2210	3120	1350
23....	275	382	359	190	204	200	177	1040	2160	1770	2630	1280
24....	265	407	332	193	161	177	184	706	2030	1580	2800	1250
25....	253	446	347	197	135	171	155	961	2230	2030	2230	1230
26....	253	411	351	214	158	224	136	1300	2360	3200	2070	1100
27....	275	455	304	197	174	235	171	1230	2430	2640	1930	969
28....	287	507	301	171	168	221	210	1360	2510	1780	2780	833
29....	287	478	311	174	....	235	445	1310	2320	1580	1550	776
30....	294	488	301	171	....	266	510	1610	2140	1390	1440	706
31....	297	....	275	254	....	401	...	1430	....	1260	1250	....
Total	6660	11790	11099	7502	6067	6306	7982	28931	59940	79310	63290	36220
Mean.	215	393	358	242	217	204	266	933	2000	2560	2040	1210
Max..	297	488	483	330	254	401	567	1610	2640	6120	3810	2580
Min...	114	291	275	171	135	150	136	480	1400	1260	1130	706
Acre-ft.	13200	23400	22000	14900	12100	12500	15800	57400	119000	157000	125000	72000

Discharge of Arkansas River at Pueblo for Year Ending Sept. 30, 1924.
Drainage Area, 4,600 Square Miles. Altitude, 4,675 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	661	969	669	470	493	330	341	545	2170	1630	788	652
2....	654	1020	600	420	503	305	364	545	1820	1550	724	600
3....	867	1070	647	360	416	298	416	550	1670	1580	756	483
4....	1030	1030	647	350	402	308	493	600	1640	1610	802	270
5....	1010	1050	627	350	420	322	647	706	1820	1500	836	230
6....	1020	996	676	400	473	247	788	870	2180	1460	863	207
7....	1040	996	698	480	561	233	1120	984	3150	1440	863	187
8....	1020	961	698	500	664	230	1370	984	4160	1440	842	185
9....	952	969	620	490	629	279	1280	870	4050	1620	870	180
10....	852	935	567	488	606	298	1010	969	3400	1460	856	167
11....	816	969	573	468	572	305	877	1010	2840	1460	540	171
12....	961	1100	560	407	578	368	877	1040	2680	1330	567	190
13....	1180	1030	580	411	556	352	870	1140	3440	1090	623	190
14....	1040	952	554	390	556	247	940	1310	4590	1030	595	182
15....	1080	875	600	410	578	255	1090	1370	5780	1160	572	171
16....	1080	842	510	420	618	402	976	1390	5760	962	567	167
17....	987	816	486	420	606	373	750	1180	5660	976	561	158
18....	987	768	474	440	534	373	1030	1810	5000	998	905	167
19....	944	768	474	463	519	398	712	2050	4180	912	919	182
20....	918	760	510	410	463	394	694	2100	3470	808	877	190
21....	884	721	516	425	463	381	682	1960	3280	712	856	182
22....	875	698	504	462	498	381	682	2080	2340	652	808	212
23....	875	669	480	514	463	377	652	2180	2270	641	842	220
24....	1160	684	468	519	448	381	756	1970	1750	682	836	204
25....	1160	661	486	483	488	377	891	1880	1550	664	836	171
26....	987	647	522	488	478	377	856	1940	1680	635	842	160
27....	1030	684	535	488	478	398	618	2160	1620	670	829	153
28....	1030	669	510	488	407	425	589	2050	1590	718	782	158
29....	1100	647	535	453	368	430	519	1770	1650	676	775	162
30....	1060	706	573	453	....	402	534	2000	1690	718	694	171
31....	1050	....	522	483	....	349	....	2260	....	788	635	....
Total	30310	25662	17421	13804	14838	10595	23424	44273	88880	33572	23661	6722
Mean.	978	855	562	445	512	342	781	1430	2960	1080	763	224
Max..	1180	1100	698	....	....	430	1370	2260	5780	1630	919	652
Min...	654	647	468	....	....	230	341	545	1550	635	540	153
Acre-ft	60100	50900	34600	27400	28400	21000	46500	87900	176000	66400	46900	13300

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Nepesta for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	76	250	390	235	258	270	497	118	1050	1570	1510	578
2....	81	255	360	204	335	282	566	97	1060	1700	8630	652
3....	148	272	317	223	211	333	456	129	1320	1850	1550	569
4....	108	298	375	218	115	346	407	209	1370	1420	1780	511
5....	140	352	398	154	138	383	318	223	1490	1240	2320	599
6....	151	345	324	154	200	346	251	350	1400	1320	951	665
7....	156	324	291	197	594	217	251	539	1340	1320	768	742
8....	157	337	297	247	739	186	331	455	1500	1320	1140	719
9....	158	335	291	333	885	175	381	420	1290	1380	972	778
10....	164	357	175	269	854	193	381	412	848	1850	712	854
11....	169	322	140	239	829	198	291	464	738	2160	701	1350
12....	167	350	260	225	421	202	278	519	560	5550	2520	1750
13....	169	499	134	265	178	202	220	586	653	4180	1960	611
14....	201	474	45	275	188	204	142	639	598	2690	1290	321
15....	198	108	53	400	127	157	120	703	829	3150	1260	2870
16....	210	72	126	257	100	189	128	759	1950	8250	2120	965
17....	195	418	285	206	113	164	137	728	1940	6110	2320	669
18....	242	365	297	206	162	187	122	673	1650	7600	5750	1600
19....	253	387	329	211	282	229	107	652	1490	2890	3310	2520
20....	253	441	344	231	233	348	162	696	1230	3650	2170	1580
21....	270	402	336	231	213	255	236	728	1380	2360	2260	1460
22....	294	394	316	226	266	196	252	785	1700	1670	9930	1190
23....	314	364	210	211	261	176	269	498	1560	1100	3620	1170
24....	308	355	85	202	205	259	207	663	1060	978	2920	1220
25....	253	360	140	137	174	198	211	608	1010	931	1960	1120
26....	215	345	285	126	230	221	176	1130	1320	2030	1870	875
27....	200	360	360	133	178	236	333	1120	1300	1800	1780	839
28....	158	413	243	220	166	250	198	1240	1300	1230	1730	768
29....	150	445	105	226	....	215	189	1090	1460	1110	1010	735
30....	154	352	93	202	....	215	185	1160	1700	956	887	712
31....	200	....	254	211	....	339	....	1070	....	729	731	....
Total	5912	10351	7658	6874	8655	7371	7802	19463	38096	76094	72432	30992
Mean.	191	345	247	222	309	238	260	628	1270	2450	2340	1030.
Max..	314	499	398	400	885	383	566	1240	1950	8250	9930	2870
Min...	76	72	45	126	100	157	107	97	560	729	701	321
Acre-ft.	11700	20500	15200	13600	17200	14600	15500	38600	75600	151000	144000	61300

Discharge of Arkansas River at Nepesta for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	679	1190	1020	615	605	135	152	531	2390	1160	207	68
2....	690	1100	863	583	578	110	110	444	2480	1280	128	108
3....	851	1090	875	521	543	80	212	758	2240	1280	56	125
4....	2760	1020	924	405	466	350	242	825	2000	1260	76	247
5....	1380	951	802	410	498	350	292	1070	2460	1200	105	188
6....	1200	924	724	428	594	330	556	1160	2790	1130	160	160
7....	1120	851	802	459	665	318	769	1290	2820	1190	226	141
8....	1220	780	791	531	684	324	813	1190	3640	1160	212	132
9....	1100	679	780	560	860	275	1030	906	4300	1190	222	164
10....	900	517	768	525	1030	92	980	848	3760	1190	459	138
11....	712	605	791	519	1000	70	848	918	3140	1080	421	135
12....	1400	900	595	451	883	90	871	918	2480	956	428	135
13....	1300	863	616	394	813	148	848	1080	2940	918	467	152
14....	1200	851	701	433	860	145	813	1160	2860	1290	573	152
15....	1120	735	648	435	779	78	968	1210	4990	1450	573	152
16....	1120	690	605	461	737	135	1030	1190	4950	906	506	135
17....	1120	826	605	518	737	498	506	1190	4950	871	436	125
18....	1070	780	565	530	684	385	280	1650	4530	883	370	128
19....	1090	498	626	535	656	370	311	2020	3380	836	222	128
20....	1010	275	546	545	665	230	573	1900	2940	802	168	141
21....	1010	262	436	506	618	337	475	1610	2260	475	87	160
22....	978	462	462	580	573	350	459	1730	1730	475	87	132
23....	1120	701	648	599	582	451	378	1720	1590	238	112	122
24....	1060	724	626	675	459	343	428	1690	1420	247	83	145
25....	1800	679	637	674	324	414	646	1540	1400	414	92	135
26....	1320	669	669	632	226	378	813	1840	1700	270	92	115
27....	1130	724	626	665	226	406	609	2170	1690	258	108	128
28....	1220	724	526	670	242	498	565	2150	1320	298	98	112
29....	1170	912	536	626	202	590	514	1960	1200	275	112	128
30....	1140	875	616	580	....	540	540	2260	1170	231	95	160
31....	1240	....	724	578	....	475	....	2920	....	193	58	....
Total	36230	22857	21153	16643	17789	9395	17631	43848	81520	25426	7039	4191
Mean.	1170	762	682	537	613	303	588	1410	2720	820	227	140
Max..	2760	1190	1020	....	....	590	1030	2920	4990	1450	573	247
Min...	679	262	436	....	....	....	110	444	1170	193	56	68
Acre-ft.	71900	45300	41900	33000	35300	18600	35000	86700	162000	50400	14000	8330

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at La Junta for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	14	45	262	20	77	42	26	22	325	101	301	1350
2....	15	51	246	20	105	117	117	16	230	172	5100	1180
3....	13	69	258	26	108	111	226	30	348	416	2330	1710
4....	11	84	278	22	314	123	130	4	652	544	183	986
5....	12	132	274	19	93	163	82	15	1030	143	1110	903
6....	13	44	270	19	24	152	47	18	502	345	340	744
7....	13	122	242	20	17	163	16	52	1870	544	149	876
8....	16	184	213	18	12	114	12	52	2740	394	678	862
9....	16	187	187	14	12	69	11	54	366	355	264	814
10....	17	177	116	12	12	24	10	28	308	558	106	890
11....	19	154	48	19	130	12	9	20	174	1060	70	815
12....	14	165	40	24	13	20	16	24	280	371	453	702
13....	13	200	34	15	13	12	38	28	230	2420	1100	1200
14....	16	235	30	13	8	15	24	139	230	1000	394	577
15....	20	138	74	13	14	14	47	156	330	504	172	640
16....	22	47	138	13	14	126	36	209	992	1430	544	1430
17....	23	51	135	18	74	184	14	270	230	2470	3070	559
18....	26	184	132	99	14	85	7	217	109	3400	3820	568
19....	34	258	54	105	14	69	14	174	72	1830	2690	2230
20....	36	224	44	133	10	22	28	302	5	1170	1210	1610
21....	34	254	42	130	11	10	18	1210	243	1350	1240	1450
22....	33	242	35	120	12	72	26	1520	18	200	5490	1280
23....	56	210	34	126	14	170	40	120	72	114	18600	890
24....	64	220	33	146	64	117	36	26	30	77	2670	768
25....	58	238	34	126	45	87	26	64	96	72	3520	604
26....	60	231	40	108	40	85	42	599	62	315	2650	550
27....	41	262	67	108	22	36	159	633	112	647	2330	476
28....	41	313	42	64	17	26	16	688	101	744	3120	446
29....	26	313	25	77	....	15	26	235	56	320	2130	387
30....	54	313	19	64	....	4	3	181	54	330	1800	311
31....	37	....	21	108	....	4	....	423	....	320	1660	....
Total	867	5347..	3467	1819	1303	2263	1302	7529	11867	23716	69294	27808
Mean.	28.0	178	112	58.7	46.5	73.0	43.4	243	396	765	2240	927
Max..	64	313	278	146	314	184	226	1520	2740	3400	18600	2230
Min...	11	44	19	12	8	4	3	4	5	72	70	311
Acre-ft.	1720	10600	6890	3610	2580	4490	2580	14900	23600	47000	138000	55200

Discharge of Arkansas River at La Junta for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	335	577	12	851	631	42	55	137	562	425	60	37
2....	172	534	20	743	660	34	55	60	365	434	37	37
3....	103	299	25	650	692	27	55	16	453	562	46	37
4....	517	204	77	671	704	42	60	20	240	472	52	40
5....	1340	190	103	565	625	25	58	18	227	626	43	43
6....	1130	177	31	583	555	20	55	172	185	462	30	54
7....	1070	525	16	601	564	16	58	426	180	481	43	83
8....	1070	509	41	432	660	46	66	660	909	510	66	83
9....	1290	509	168	626	755	51	42	246	1660	552	86	34
10....	1130	431	80	656	918	34	493	258	1830	562	90	37
11....	862	128	31	625	810	37	172	282	950	434	132	32
12....	890	90	48	631	858	34	30	388	660	302	93	32
13....	1130	67	424	563	744	35	15	323	1200	209	108	35
14....	1040	36	461	503	788	23	84	493	1150	573	63	35
15....	890	36	595	641	600	18	141	418	1600	332	97	30
16....	850	38	586	643	510	212	620	434	2200	288	69	27
17....	890	34	431	647	434	32	510	500	1960	73	66	28
18....	713	38	401	702	418	27	101	694	2110	132	86	19
19....	723	27	409	707	380	72	37	803	2110	444	63	18
20....	613	38	270	719	217	98	27	790	1410	444	23	18
21....	542	41	168	736	212	46	120	583	1780	415	60	19
22....	509	41	223	715	117	66	182	49	615	398	46	19
23....	534	54	260	842	117	72	163	266	252	398	40	16
24....	525	54	249	812	117	60	182	542	288	259	43	16
25....	1030	54	190	895	120	46	222	381	76	136	52	16
26....	650	51	299	854	98	37	733	281	165	128	52	14
27....	461	56	190	812	69	37	943	854	766	86	52	18
28....	461	54	381	837	17	55	680	694	594	66	43	16
29....	492	61	282	849	15	28	350	462	491	20	40	13
30....	559	34	164	800	....	58	192	165	481	13	37	16
31....	586	....	160	769	....	55	....	573	....	37	40	....
Total	23107	4987	6795	21680	13405	1485	6501	11988	27469	10273	1858	922
Mean.	745	166	219	699	462	47.9	217	387	916	331	59.9	30.7
Max..	1340	577	595	....	....	212	943	854	2200	626	132	83
Min...	103	27	12	....	15	16	15	16	76	13	23	13
Acre-ft.	45800	9880	13500	43000	26600	2950	12900	23800	54500	20400	3680	1830

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Lamar for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	2	2	8	3	3	4	3	3	2	2	292	2020
2....	1	2	5	5	3	6	3	2	2	2	568	1740
3....	2	2	2	13	2	3	3	2	2	2	5410	1890
4....	2	3	2	19	3	3	3	2	2	2	2520	2370
5....	2	2	2	13	2	4	3	3	2	4	1790	1440
6....	2	3	2	10	2	4	4	2	2	4	3410	1540
7....	2	2	2	5	2	3	2	2	7	2	1340	1160
8....	2	2	3	4	2	4	2	2	6260	2	1640	1130
9....	2	2	14	3	6	3	3	2	5430	2	2460	1470
10....	2	2	104	4	15	3	3	2	1470	2	1910	1040
11....	2	3	51	3	18	4	2	3	421	2120	1210	1170
12....	3	3	56	4	17	2	2	3	224	1020	534	534
13....	2	5	62	3	9	4	3	4	61	2120	2520	810
14....	2	23	62	3	5	4	2	6	27	2930	3250	1160
15....	3	28	23	5	7	38	2	3	9	1340	1380	868
16....	2	52	15	10	7	37	3	3	1230	620	2060	744
17....	2	6	10	13	8	4	2	1	8900	3250	1350	2550
18....	2	3	11	7	8	2	2	1	7360	2620	11500	1380
19....	2	3	12	5	8	6	2	1	1050	4710	10600	3840
20....	2	3	12	4	9	6	3	1	701	2240	5630	3360
21....	2	3	14	2	4	3	2	5	409	1930	3550	2300
22....	2	3	14	4	4	3	2	5050	1440	1460	2390	1620
23....	2	3	11	10	4	4	2	5240	597	404	19800	1220
24....	2	3	10	4	4	6	2	420	220	179	12700	967
25....	2	3	9	4	4	3	2	47	123	110	8000	926
26....	2	3	9	3	4	3	2	6	48	120	6510	772
27....	2	3	6	3	4	4	3	6	27	7040	4730	772
28....	2	3	5	2	6	4	3	14	36	1890	3720	744
29....	2	3	5	3	....	2	4	115	7	1560	6340	620
30....	2	2	5	2	....	4	2	4	4	534	3250	548
31....	2	....	6	3	....	3	....	3	....	335	2350	....
Total	63	180	552	176	170	183	76	10958	36073	38556	134714	42705
Mean.	2.03	6.00	17.8	5.68	6.07	5.90	2.53	354	1200	1240	4350	1420
Max..	3	52	104	19	18	38	4	5240	8900	7040	19800	3840
Min...	1	2	2	2	2	2	2	1	2	2	292	534
Acre-ft.	125	357	1090	349	337	363	150	21800	71400	76200	267000	84500

Discharge of Arkansas River at Lamar for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	521	1400	169	540	1240	125	881	298	110	10	1	2
2....	1170	1210	279	967	1110	86	630	113	160	7	3	2
3....	858	1140	311	980	964	128	559	43	84	7	3	2
4....	1080	988	350	932	951	230	215	19	15	8	3	2
5....	1800	916	371	952	971	236	471	11	10	9	2	2
6....	4250	818	404	811	1050	260	482	8	10	11	2	3
7....	4380	753	350	800	909	266	606	8	9	8	2	3
8....	2350	946	321	821	525	414	630	8	8	10	2	2
9....	1620	988	350	649	571	376	690	8	131	7	2	2
10....	4280	887	330	873	777	432	618	44	1390	7	2	2
11....	5020	897	438	968	950	451	1000	12	1020	21	1	3
12....	2840	667	415	945	1220	441	1000	12	344	6	2	2
13....	2000	548	311	980	983	414	746	14	119	4	18	3
14....	2260	495	335	912	915	460	983	12	526	4	8	3
15....	2200	590	514	848	1180	471	1100	12	432	11	6	2
16....	1870	450	926	872	1180	460	1220	8	1500	9	5	2
17....	1900	450	897	874	1100	515	1440	6	1340	26	5	3
18....	1690	438	800	859	1020	983	1370	7	1340	26	4	3
19....	1520	450	800	904	1140	2040	1080	10	1270	8	4	3
20....	1220	392	763	912	1020	1320	504	64	1250	5	3	2
21....	1070	361	643	921	966	1200	321	190	816	3	3	2
22....	1120	366	562	974	780	1320	352	460	1020	5	3	2
23....	1040	350	555	939	690	1080	278	35	305	3	3	2
24....	1220	182	528	1120	847	1140	190	12	42	3	3	2
25....	1420	137	404	1090	1180	1040	190	11	15	3	4	2
26....	2260	107	371	1156	1000	983	103	40	13	3	3	2
27....	1750	143	421	1170	464	830	290	16	11	1	3	2
28....	1590	306	371	1150	210	718	690	110	10	3	3	2
29....	1640	224	370	1250	148	983	582	404	9	3	2	2
30....	1520	197	370	1310	....	1320	386	220	10	3	2	3
31....	1520	....	370	1260	....	949	....	62	....	2	2	....
Total	60979	17796	14399	29733	26009	21671	19607	2277	13319	236	109	.69
Mean.	1970	593	464	959	897	699	654	73.5	444	7.61	3.52	2.30
Max..	5020	1400	926	....	....	2040	1440	460	1500	26	18	3
Min...	521	107	169	....	148	86	103	6	8	1	1	2
Acre-ft.	121000	35300	28500	59000	51600	43000	38900	4520	26400	468	216	137

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Arkansas River at Holly for Year Ending Sept. 30, 1923.
Drainage Area, 25,000 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	4	6	56	118	62	73	37	31	132	80	314	2000
2....	3	6	55	106	64	73	35	31	104	64	275	1660
3....	3	5	53	106	78	71	35	30	87	45	5520	1420
4....	4	6	66	80	66	66	41	32	85	40	2900	1700
5....	4	7	74	78	75	82	41	30	80	51	1150	1310
6....	4	9	78	82	109	84	30	27	87	53	2840	960
7....	4	10	83	78	129	73	28	23	69	35	1840	912
8....	3	11	86	82	147	66	31	23	3040	25	1630	855
9....	3	14	78	75	150	66	33	19	7790	25	5390	1230
10....	3	17	126	75	173	34	32	18	2500	20	3060	1070
11....	3	18	313	64	178	53	30	21	966	24	2330	1070
12....	4	16	123	62	136	64	28	24	555	1430	924	1050
13....	5	14	123	73	140	53	27	41	455	702	3650	507
14....	5	14	159	75	183	62	27	132	391	3680	4100	1340
15....	4	56	202	78	164	50	24	129	507	2580	1640	1030
16....	4	173	187	82	164	57	23	122	327	547	2140	822
17....	4	130	178	82	147	112	23	115	5220	1640	3340	2920
18....	5	78	178	71	136	82	22	82	9980	2410	4700	2040
19....	6	64	155	68	173	89	18	68	3650	6740	7970	3440
20....	6	62	159	68	178	104	23	62	1720	5210	7100	4500
21....	8	66	164	50	202	106	26	95	3460	2130	3920	3000
22....	8	66	155	50	140	115	28	7750	3820	2040	2320	2270
23....	8	69	159	48	132	104	25	8470	2600	720	18000	1640
24....	7	74	168	48	78	89	14	1900	1480	188	13900	1320
25....	7	76	168	48	68	89	14	632	605	147	10200	1080
26....	7	71	130	47	73	89	35	297	364	104	6780	972
27....	8	71	108	62	71	73	48	188	275	5090	4320	984
28....	6	60	123	68	68	59	112	171	259	2760	3920	822
29....	6	66	136	71	....	42	98	147	154	1540	4740	727
30....	7	62	126	71	....	38	61	205	110	844	3890	650
31....	6	....	126	73	....	37	....	132	....	447	2440	....
Total	159	1397	4095	2239	3484	2255	1049	21047	50872	41411	137243	45301
Mean.	5.13	46.6	132	72.2	124	72.7	35.0	679	1700	1340	4430	1510
Max..	8	173	313	118	202	115	112	8470	9980	6740	18000	4500
Min...	3	5	53	48	62	34	14	18	69	20	275	507
Acre-ft.	315	2770	8120	4440	6890	4470	2080	41800	101000	82400	272000	89800

Discharge of Arkansas River at Holly for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	596	1480	339	595	1460	420	1200	468	250	50	2	3
2....	955	1320	433	750	1440	370	799	542	230	58	2	1
3....	1130	1160	492	1170	1310	330	671	340	306	24	3	3
4....	866	1060	364	1180	1170	430	555	274	237	34	3	3
5....	1130	889	384	1140	1150	430	733	130	90	31	2	2
6....	2950	810	364	1160	1170	380	656	114	90	35	2	1
7....	4090	778	455	1030	1250	410	518	98	90	32	2	1
8....	3030	788	470	1020	955	420	733	81	78	24	2	2
9....	1980	900	632	1040	901	410	816	46	27	36	0	2
10....	4600	844	530	867	937	410	901	35	158	36	4	1
11....	4690	833	345	1090	1180	380	628	75	1240	24	20	5
12....	3150	757	492	1190	1340	410	1030	90	555	16	13	2
13....	2650	596	462	1160	1220	306	1030	60	380	13	13	1
14....	2440	605	499	1200	865	410	973	50	250	8	18	2
15....	2320	596	555	1130	991	420	1180	40	380	8	17	5
16....	2070	596	571	1070	1180	542	1280	60	955	4	9	6
17....	1940	514	1010	1090	750	670	1220	40	1550	46	1	10
18....	1890	514	960	1090	973	420	1640	56	1010	30	2	13
19....	2020	530	855	1060	955	542	1180	44	955	98	8	26
20....	1280	499	878	1110	973	686	901	40	1240	66	7	15
21....	1120	492	866	1120	919	686	782	75	1140	30	4	16
22....	1110	492	720	1120	700	542	380	306	1140	20	1	16
23....	972	470	635	1180	832	1220	455	380	955	11	6	13
24....	1110	440	625	1140	1040	832	442	204	380	7	2	16
25....	1210	455	590	1320	955	1010	492	130	218	16	4	12
26....	1720	426	465	1290	991	1220	290	130	90	7	3	16
27....	1980	391	430	1350	570	1160	480	90	90	7	3	14
28....	1640	440	480	1370	505	1100	542	130	75	7	1	14
29....	1470	405	430	1360	420	919	750	204	60	2	1	14
30....	1500	351	480	1450	....	1100	782	555	60	2	1	14
31....	1480	....	560	1510	....	1120	....	430	....	2	2	....
Total	61089	20431	17371	35352	29102	19685	24039	5317	14209	784	158	249
Mean.	1970	681	560	1140	1000	635	801	172	474	25.3	5.10	8.30
Max..	4690	1480	....	....	....	1220	1640	555	1550	98	20	26
Min...	596	351	....	....	....	420	306	290	35	8	2	0	1
Acre-ft.	121000	40500	34400	70100	57500	39000	47700	10600	28200	1560	314	494

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cottonwood Creek Below Buena Vista Hot Springs for Year Ending Sept. 30, 1923
Drainage Area, 72 Square Miles. Altitude, 8,000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	24	22	24	23	21	20	21	24	202	252	114	76
2....	24	23	26	24	21	20	21	26	252	252	112	71
3....	24	22	26	24	20	20	20	28	260	228	99	68
4....	23	23	26	24	21	21	20	32	240	213	99	68
5....	23	23	26	24	21	21	20	43	213	202	99	65
6....	23	23	26	24	21	20	21	53	202	191	88	64
7....	22	26	26	24	20	20	21	60	213	220	84	61
8....	22	25	26	23	20	20	20	60	213	198	76	57
9....	22	27	25	23	20	20	20	67	202	188	71	54
10....	22	28	26	23	21	20	20	71	140	188	81	52
11....	22	26	25	23	21	20	21	68	178	188	81	52
12....	22	27	26	22	21	20	21	65	240	178	76	52
13....	22	27	26	22	21	20	21	61	296	168	99	49
14....	22	26	26	22	21	20	21	57	314	178	114	49
15....	22	27	24	22	21	20	21	44	350	178	103	52
16....	22	27	25	22	21	20	20	40	359	162	114	49
17....	22	28	25	22	21	20	21	38	314	165	112	52
18....	22	28	24	22	20	20	22	42	314	153	112	61
19....	22	27	25	22	21	20	25	47	314	153	112	68
20....	22	26	25	21	21	20	24	62	314	153	103	67
21....	22	27	25	21	20	20	21	67	341	178	101	62
22....	22	27	26	21	20	20	22	68	305	153	101	62
23....	21	26	26	22	20	21	20	65	296	142	88	65
24....	22	27	25	22	20	21	21	78	305	140	84	68
25....	21	26	25	22	20	21	21	114	305	137	84	65
26....	21	26	26	21	21	20	20	168	328	131	78	62
27....	22	26	25	21	19	20	21	159	341	126	78	62
28....	22	26	25	22	20	20	22	178	305	121	78	60
29....	22	26	25	21	....	20	22	159	282	114	74	55
30....	22	26	24	21	....	21	24	159	269	112	74	53
31....	22	....	23	21	....	21	....	178	....	99	70	....
Total	688	774	783	691	575	627	635	2381	8207	5261	2859	1801
Mean.	22.2	25.8	25.3	22.3	20.5	20.2	21.2	76.8	274	170	92.2	60.0
Max..	24	28	26	24	21	21	25	178	359	252	114	76
Min..	21	22	23	21	19	20	20	24	140	99	70	49
Acre-ft.	1360	1540	1560	1370	1140	1240	1260	4720	16300	10500	5670	3570

Discharge of South Fork Arkansas River at Mouth for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	0.2	....	....	....	....	....	60	5.0	199	108	9.3	38
2....	0.2	....	....	....	....	....	46	6.8	290	74	12	28
3....	0.2	....	....	....	....	....	39	5.0	386	74	12	38
4....	0.2	....	....	....	....	....	39	11	386	74	9.3	33
5....	0.2	....	....	....	....	....	34	24	386	65	9.3	33
6....	0.2	....	....	....	....	....	39	28	360	58	7.6	33
7....	0.2	....	....	....	....	....	39	46	313	58	5.1	24
8....	0.2	....	....	....	....	....	34	88	268	58	5.1	20
9....	0.2	....	....	....	....	....	34	112	250	44	5.1	20
10....	0.2	....	....	....	....	....	34	139	216	58	6.0	14
11....	0.2	....	....	....	....	....	34	126	216	108	6.0	14
12....	0.2	....	....	....	....	....	34	60	250	84	9.3	14
13....	0.2	....	....	....	....	....	34	78	336	74	12	14
14....	0.2	....	....	....	....	....	20	126	442	84	14	14
15....	0.2	....	....	....	....	....	14	154	336	96	38	17
16....	0.2	....	....	....	....	....	24	139	762	84	50	17
17....	0.2	....	....	....	....	....	34	126	1220	58	84	20
18....	0.2	....	....	....	....	34	24	126	470	44	216	28
19....	2.4	....	....	....	....	46	28	100	532	58	250	65
20....	1.7	....	....	....	....	60	24	112	567	50	184	50
21....	1.0	....	....	....	....	78	20	139	602	108	168	74
22....	1.0	....	....	....	....	68	18	139	470	84	136	65
23....	2.4	....	....	....	....	68	14	100	336	58	108	65
24....	2.4	....	....	....	....	52	14	126	250	33	108	84
25....	1.7	....	....	....	....	52	14	168	233	24	96	65
26....	1.4	....	....	....	....	60	18	313	216	24	96	65
27....	1.4	....	....	....	....	46	14	442	233	33	108	65
28....	1.7	....	....	....	....	46	11	413	168	33	58	65
29....	1.7	....	....	....	....	60	8.7	268	136	24	50	58
30....	1.7	....	....	....	....	68	8.7	184	108	17	38	58
31....	1.7	....	....	....	....	68	....	216	....	9.3	33	....
Total	25.8	....	....	....	....	806	808.4	4119.8	10937	1858.3	1943.1	1198
Mean.	0.83	....	....	....	....	....	26.9	133	365	59.9	62.7	39.9
Max..	2.4	....	....	....	....	....	60	442	1220	108	250	84
Min...	0.2	....	....	....	....	....	8.7	5	108	9.3	5.1	14
Acre-ft.	51	....	....	....	....	....	1600	8180	21700	3680	3860	2370

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Fork Arkansas River at Mouth for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	65	122	65	....	....	....	....	....	....	....	....	....
2....	65	74	....	....	....	....	....	....	....	....	....	....
3....	108	58	....	....	....	....	....	....	....	....	....	....
4....	65	58	....	....	....	....	....	....	....	....	....	....
5....	65	58	....	....	....	....	....	....	....	....	....	....
6....	74	58	....	....	....	....	....	....	....	....	....	....
7....	65	84	....	....	....	....	....	....	....	....	....	....
8....	65	84	....	....	....	....	....	....	....	....	....	....
9....	58	74	....	....	....	....	....	....	....	....	....	....
10....	58	74	....	....	....	....	....	....	....	....	....	....
11....	65	74	....	....	....	....	....	....	....	....	....	....
12....	122	108	....	....	....	....	....	....	....	....	....	....
13....	58	108	....	....	....	....	....	....	....	....	....	....
14....	58	108	....	....	....	....	....	....	....	....	....	....
15....	65	108	....	....	....	....	....	....	....	....	....	....
16....	65	96	....	....	....	....	....	....	....	....	....	....
17....	58	84	....	....	....	....	....	....	....	....	....	....
18....	58	84	....	....	....	....	....	....	....	....	....	....
19....	58	58	....	....	....	....	....	....	....	....	....	....
20....	58	58	....	....	....	....	....	....	....	....	....	....
21....	58	65	....	....	....	....	....	....	....	....	....	....
22....	58	74	....	....	....	....	....	....	....	....	....	....
23....	65	65	....	....	....	....	....	....	....	....	....	....
24....	65	74	....	....	....	....	....	....	....	....	....	....
25....	108	74	....	....	....	....	....	....	....	....	....	....
26....	74	65	68	....	....	....	....	....	....	....	....	....
27....	74	65	....	....	....	....	....	....	....	....	....	....
28....	74	65	....	....	....	....	....	....	....	....	....	....
29....	96	65	....	....	....	....	....	....	....	....	....	....
30....	136	65	....	....	....	....	....	....	....	....	....	....
31....	96	....	....	....	....	....	....	....	....	....	....	....
Total	2757	2307	....	....	....	....	....	....	....	....	....	....
Mean.	72.8	76.9	65	....	....	....	....	....	....	....	....	....
Max..	136	122	....	....	....	....	....	....	....	....	....	....
Min...	58	58	....	....	....	....	....	....	....	....	....	....
Acre-ft.	4480	4580	4000	....	....	....	....	....	....	....	....	....

Discharge of Texas Creek at Mouth for 1923.

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1....	....	....	....	38	1.0	0.3	0.8	22	30	21	30	....
2....	....	....	....	38	0.5	0.3	0.7	34	25	24	38	....
3....	....	....	....	26	0.5	0.3	0.6	21	24	26	30	....
4....	....	....	....	24	0.5	0.3	0.9	30	21	33	33	....
5....	....	....	....	25	0.8	0.3	3.0	30	21	38	29	....
6....	....	....	....	29	0.6	0.3	2 0	23	19	30	29	....
7....	....	....	....	27	0.6	0.8	1,6	23	19	28	26	....
8....	....	....	....	24	0.6	0.8	2.3	25	19	24	24	....
9....	....	....	....	23	0.6	2.0	3.3	23	18	27	28	....
10....	....	....	....	19	0.5	6.9	132	23	18	26	24	....
11....	....	....	....	16	0.3	4 4	24	20	16	26	34	....
12....	....	....	....	18	0.3	3.0	9.1	83	18	35	28	....
13....	....	....	....	14	0.8	2.6	11	35	16	40	26	....
14....	....	....	....	13	4.4	1.6	12	34	16	35	26	....
15....	....	....	....	12	15.0	1.6	12	28	16	36	24	....
16....	....	....	....	11	7.4	1.6	141	46	15	38	26	....
17....	....	....	....	10	4.1	2.6	46	73	15	32	27	....
18....	....	....	....	9.7	3.3	2.3	39	114	73	28	26	....
19....	....	....	....	11	2.3	2.1	38	154	137	28	26	....
20....	....	....	....	8.6	0.7	1.0	42	100	77	28	28	....
21....	....	....	....	6.3	0.6	4.8	53	77	48	28	23	....
22....	....	....	....	6.9	0.5	2.6	32	106	32	28	23	....
23....	....	....	....	7.4	0.5	2.1	27	106	30	33	23	....
24....	....	....	....	7.4	0.5	0.7	23	89	29	36	24	....
25....	....	....	....	6.3	0.4	0.9	186	60	24	39	24	....
26....	....	....	....	5.9	0.3	1.0	35	54	24	30	21	....
27....	....	....	....	3.3	0.3	1.0	45	43	23	35	18	....
28....	....	....	26	5.6	0.3	1.0	34	40	24	35	34	....
29....	....	....	26	3.3	0.4	1.0	30	34	23	30	34	....
30....	....	....	32	2.1	0.4	1.0	25	29	20	32	30	....
31....	....	....	53	....	0.3	....	24	29	....	32	....	....
Total	....	....	....	450.8	49.3	51.2	1035.3	1608	890	961	816	....
Mean.	....	....	....	15.0	1.59	1.71	35.3	51 9	29.7	31.0	27.2	....
Max..	....	....	....	38	15	6.9	....	154	137	40	38	....
Min...	....	....	....	2.1	0.3	0.3	0.6	21	15	21	18	....
Acre-ft.	....	....	....	893	98	102	2050	3190	1770	1910	1620	....

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fountain River at Colorado Springs, Colo., for Year Ending Sept. 30, 1923.
Drainage Area, 409 Square Miles. Altitude, 5,900 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	12	....	....	....	....	....	21	18	32	40	142	....
2....	12	....	....	....	....	....	27	21	36	40	109	....
3....	11	....	....	....	....	....	24	20	43	40	90	....
4....	12	....	....	....	....	....	24	21	47	40	70	....
5....	12	....	....	....	....	....	24	18	54	40	64	....
6....	11	....	....	....	....	....	24	16	102	40	55	....
7....	12	....	....	....	....	....	24	32	94	40	168	....
8....	12	....	....	....	....	....	27	15	69	40	82	....
9....	12	....	....	....	....	....	28	15	81	343	72	....
10....	12	....	....	....	....	22	27	18	102	289	90	....
11....	12	....	....	....	....	....	24	20	108	155	108	....
12....	12	....	....	....	....	....	22	18	106	115	121	....
13....	11	....	....	....	....	....	24	21	109	65	120	....
14....	12	....	....	....	....	....	27	20	115	42	110	....
15....	12	....	....	....	....	....	24	18	381	329	102	....
16....	12	....	....	....	....	....	22	16	400	248	93	....
17....	12	....	....	....	23	....	22	15	188	505	91	80
18....	11	....	....	....	....	....	21	13	116	370	97	....
19....	12	....	....	....	....	....	22	16	54	196	103	....
20....	12	....	....	....	....	....	28	17	53	147	124	....
21....	13	....	....	....	....	....	27	18	52	138	100	....
22....	15	....	....	....	....	....	22	24	50	121	90	....
23....	18	....	....	....	....	....	22	28	49	108	80	....
24....	22	....	....	....	....	29	21	27	48	103	60	....
25....	38	....	....	....	....	....	21	31	47	73	55	....
26....	38	....	....	....	....	18	22	31	46	76	60	....
27....	33	....	....	....	....	21	28	30	45	80	60	....
28....	29	....	....	....	....	20	24	30	45	83	60	....
29....	29	....	....	....	....	18	19	27	45	76	60	....
30....	33	....	....	....	....	21	18	30	45	75	65	....
31....	33	....	....	....	....	21	....	31	....	75	50	....
Total	537	....	....	....	....	....	710	675	2768	4132	2751	....
Mean.	17.3	....	....	....	22	22	23.7	21.8	92.3	133	88.7	75
Max..	38	....	....	....	....	....	....	....	....	....	....	....
Min...	11	....	....	....	....	....	....	....	....	....	....	....
Acre-ft.	1060	....	....	....	1220	1350	1410	1340	5490	8180	5450	4460

Discharge of Fountain River at Colorado Springs, Colo., for Year Ending Sept. 30, 1924.
Drainage Area, 409 Square Miles. Altitude, 5,900 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	82	179	265	71	16	22
2....	....	....	....	....	....	....	86	179	260	70	16	21
3....	....	....	....	....	....	....	84	179	253	68	16	19
4....	....	....	....	....	....	....	88	181	234	65	16	21
5....	....	....	....	....	....	....	90	186	217	63	16	18
6....	....	....	....	....	....	....	102	187	197	58	18	17
7....	....	....	....	....	....	....	120	194	181	52	17	18
8....	....	....	....	....	....	....	126	195	168	50	16	17
9....	....	....	....	....	....	....	128	192	149	47	133	16
10....	....	....	....	....	....	....	133	190	128	44	76	17
11....	....	....	....	....	....	....	134	195	123	40	49	18
12....	....	....	....	....	....	....	139	197	120	39	44	18
13....	....	....	....	....	....	....	139	198	120	39	40	16
14....	....	....	....	....	....	41	147	200	120	39	32	16
15....	....	....	....	....	....	34	162	198	112	40	28	14
16....	....	....	....	....	....	37	170	200	112	37	25	15
17....	....	....	....	....	....	32	162	203	112	33	22	15
18....	....	....	....	....	....	38	158	203	98	28	22	14
19....	70	77	....	....	....	40	158	212	91	25	24	14
20....	....	....	....	....	....	41	158	215	94	22	22	13
21....	....	....	....	....	....	43	165	219	94	20	22	13
22....	....	....	....	....	....	50	168	217	84	18	24	12
23....	....	....	....	....	....	48	166	217	84	17	24	13
24....	....	....	....	....	....	70	165	219	68	18	22	14
25....	....	....	....	....	....	88	154	217	66	17	22	13
26....	....	....	....	....	....	92	142	219	122	17	26	12
27....	....	....	....	....	....	90	173	227	110	16	32	12
28....	....	....	....	....	....	90	174	234	102	16	32	12
29....	....	....	....	....	....	88	176	261	117	16	24	11
30....	....	....	....	....	....	88	181	304	110	16	24	12
31....	....	....	....	....	....	94	....	268	....	16	23	....
Total	....	....	....	....	....	1104	4230	6485	4111	1117	923	463
Mean.	90	80	....	....	....	....	141	209	137	36.0	29.8	15.4
Max..	....	....	....	....	....	....	181	304	265	71	133	22
Min...	....	....	....	....	....	....	82	179	66	16	16	11
Acre-ft.	5530	4760	....	....	....	....	8390	12900	8150	2210	1830	916

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fountain River at Pueblo for Year Ending Sept. 30, 1923.
Altitude, 4,675 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1	6	5	20	10	15	15	1	2	2	190	33
2....	2	6	5	20	3	15	15	1	2	4	569	23
3....	2	6	5	10	3	15	10	1	2	568	12	25
4....	3	5	5	10	5	15	15	1	2	20	544	20
5....	3	6	5	10	5	7	5	1	2	9	58	19
6....	3	6	5	10	5	5	5	1	2	5	3	9
7....	3	6	5	10	5	5	5	2	2	3	65	10
8....	4	5	5	10	42	5	5	2	3	2	392	13
9....	4	5	5	10	15	5	5	1	511	180	157	10
10....	5	4	5	10	15	5	5	1	30	290	83	5
11....	6	4	5	10	15	3	3	1	5	150	23	2
12....	6	4	10	10	20	13	3	0	6	2420	248	10
13....	7	6	10	10	92	5	3	0	2	1560	371	6
14....	7	6	20	10	20	5	3	2	2	784	108	149
15....	8	7	20	10	20	5	3	2	2	638	30	1510
16....	11	7	20	10	20	5	3	1	2140	974	174	392
17....	10	12	20	10	20	30	3	1	200	2180	449	267
18....	11	7	20	10	20	20	3	1	448	111	519	286
19....	11	7	20	10	48	20	3	1	100	59	58	300
20....	12	6	20	10	48	20	7	1	40	44	83	80
21....	12	4	20	10	40	71	5	680	300	28	1090	200
22....	12	4	20	10	30	70	2	390	70	90	783	209
23....	12	4	20	10	30	30	2	111	30	196	108	190
24....	13	6	20	10	20	30	3	30	10	726	65	200
25....	13	4	20	10	20	20	3	10	10	291	58	124
26....	12	4	20	10	20	15	3	8	620	296	43	102
27....	11	4	20	10	15	15	5	3	35	116	46	58
28....	11	5	20	10	15	15	2	3	12	149	58	33
29....	8	4	20	10	....	15	2	2	3	83	52	33
30....	7	4	20	10	....	15	2	1	5	43	58	46
31....	7	....	20	10	....	15	....	3	....	19	71	....
Total	237	164	435	330	621	529	148	1263	4598	12040	6568	4364
Mean.	7.65	5.47	14.0	10.6	22.2	17.1	4.93	40.7	153	388	212	145
Acre-ft.	470	325	861	652	1230	1050	293	2500	9100	23900	13000	8630

Discharge of Fountain River at Pueblo for Year Ending Sept. 30, 1924.
Altitude, 4,675 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	65	190	102	70	40	67	94	250	580	2	1	1
2....	83	248	96	30	30	64	80	259	702	2	1	1
3....	741	238	96	20	15	78	70	188	566	2	1	1
4....	1010	238	71	20	15	67	60	222	493	2	1	1
5....	174	219	102	30	30	55	50	259	469	2	1	1
6....	77	209	116	30	80	58	50	259	516	2	1	1
7....	46	219	83	50	125	43	49	309	469	2	1	1
8....	83	228	83	50	87	20	37	235	457	2	1	1
9....	133	200	58	60	110	20	36	174	402	1	1	1
10....	157	190	58	50	60	45	49	201	326	1	166	1
11....	96	182	46	40	60	70	58	201	284	1	20	1
12....	96	182	46	20	80	67	96	118	235	1	15	1
13....	157	165	58	20	90	104	96	104	201	1	2	1
14....	96	165	52	20	129	61	73	114	168	1	2	1
15....	108	182	141	20	129	46	73	78	140	16	2	1
16....	108	165	157	20	118	78	100	78	140	5	2	1
17....	83	165	174	20	124	86	100	100	114	2	2	1
18....	33	182	124	29	109	82	100	124	70	1	2	1
19....	33	200	71	29	86	109	100	118	42	1	2	1
20....	38	200	52	10	91	109	86	109	34	1	2	1
21....	52	182	71	10	70	109	67	100	10	1	2	1
22....	77	165	89	80	60	86	129	100	10	1	1	1
23....	174	165	71	60	40	61	135	100	10	1	1	1
24....	276	133	83	80	40	58	129	152	5	1	1	1
25....	318	96	58	60	60	37	70	124	5	1	2	1
26....	238	141	77	35	78	58	129	152	5	1	2	1
27....	219	116	96	35	73	118	181	109	5	1	2	1
28....	238	108	102	35	78	157	228	152	5	1	1	1
29....	190	108	108	35	70	104	208	215	4	1	1	1
30....	219	116	102	35	....	64	235	215	3	1	1	1
31....	248	....	116	40	....	70	....	820	....	1	1	....
Total	5666	5297	2759	1143	2177	2251	2968	5739	6470	59	241	30
Mean.	183	176	89.0	36.9	75.1	72.6	98.9	185	216	1.90	7.77	1.00
Acre-ft.	11300	10500	5470	2270	4320	4460	5880	11400	12900	117	478	60

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Charles River at Burnt Mill Crossing for Year Ending Sept. 30, 1923.
Drainage Area, 166 Square Miles. Altitude. .... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	4.0	44	34	30	2.9	74	81
2....	....	....	....	....	....	4.0	41	35	12	29	127	79
3....	....	....	....	....	....	5.0	32	36	11	20	57	73
4....	....	....	....	....	....	5.0	31	25	11	7.8	48	68
5....	....	....	....	....	....	5.0	28	26	8	4.9	63	62
6....	....	....	....	....	....	4.9	49	26	5.6	4.0	52	68
7....	....	....	....	....	....	5.6	60	30	5.6	3.2	51	55
8....	....	....	....	....	....	5.6	44	28	12	3.5	51	54
9....	....	....	....	....	....	6.5	37	26	18	4.0	55	50
10....	....	....	....	....	....	6.5	32	24	13	3.2	44	47
11....	....	....	....	....	....	6.2	36	23	14	22	42	59
12....	....	....	....	....	....	5.2	34	18	20	78	157	76
13....	....	....	....	....	....	7.2	35	17	13	21	107	53
14....	....	....	....	....	....	6 5	32	21	6.8	32	84	50
15....	....	....	....	....	....	9.1	24	18	4.3	111	62	57
16....	....	....	....	....	....	9.9	22	16	4.6	69	79	52
17....	....	....	....	....	....	6.8	26	26	6.2	57	149	86
18....	....	....	....	....	....	6.5	30	39	4.9	52	161	220
19....	....	....	....	....	....	9.5	32	36	4.6	36	159	195
20....	....	....	....	....	....	16	42	33	4.3	62	142	152
21....	....	....	....	....	....	12	29	36	7.2	44	202	130
22....	....	....	....	....	....	18	24	33	4.0	38	215	116
23....	....	....	....	....	....	20	20	29	2.9	34	202	98
24....	....	....	....	....	....	11	21	28	2.9	32	203	86
25....	....	....	....	....	....	11	22	79	2.9	32	166	78
26....	....	....	....	....	....	14	19	74	3.2	32	147	69
27....	....	....	....	....	....	18	19	84	2.9	52	130	63
28....	....	....	....	....	....	18	19	73	2.6	57	116	60
29....	....	....	....	....	....	24	21	57	2.9	40	104	57
30....	....	....	....	....	....	32	30	65	2.9	36	92	56
31....	....	....	....	....	....	34	....	59	....	32	85	....
Total	....	....	....	....	....	347	935	1154	243.3	1051.5	3426	2450
Mean.	....	....	....	....	....	11.2	31.2	37.2	8.11	33.9	111	81.7
Max..	....	....	....	....	....	34	60	84	30	111	215	220
Min...	....	....	....	....	....	....	19	16	2.6	2.9	42	47
Acre-ft.	....	....	....	....	....	689	1860	2290	483	2080	6830	4860

Discharge of St. Charles River at Burnt Mill Crossing for Year Ending Sept. 30, 1924.
Drainage Area, 166 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	56	50	36	20	43	17	48	168	166	12	5	3.8
2....	89	48	34	23	42	20	52	166	159	12	4.6	4.2
3....	67	45	32	18	60	22	48	159	149	12	4	4.2
4....	79	45	32	17	60	21	57	182	145	11	3.8	3.4
5....	97	44	41	18	55	19	66	226	140	11	4	3
6....	82	43	39	27	48	14	98	226	125	12	4.2	3
7....	74	42	36	30	34	17	136	214	114	14	4	3
8....	66	42	36	30	34	16	166	187	98	19	3.8	2.9
9....	68	42	32	25	29	14	175	172	90	14	6.8	3.2
10....	74	40	32	25	20	21	142	175	83	11	6.5	3.2
11....	66	41	40	30	22	19	142	177	78	9 6	4.4	3.2
12....	73	38	40	36	20	19	138	179	67	8.8	5.3	3.2
13....	72	36	38	29	22	22	159	172	62	72	4.4	3.2
14....	68	37	38	48	25	18	196	170	54	11	4.2	3.2
15....	68	33	35	35	26	20	216	156	49	16	3.8	3.2
16....	73	34	35	34	24	17	182	168	48	7.4	3.4	3.2
17....	73	29	35	28	24	24	142	161	42	5.3	3.2	3.2
18....	68	30	35	32	26	24	127	163	35	5.3	3.2	3
19....	65	30	30	31	24	24	120	166	24	5.3	3.4	2.9
20....	62	31	30	17	22	19	133	149	21	5	3.8	2.8
21....	58	30	30	24	21	20	147	159	20	4.6	3.6	2.8
22....	57	28	30	33	25	19	156	154	19	4.4	3.4	2.8
23....	54	26	30	62	19	17	163	131	16	4	3.2	2.8
24....	60	28	30	45	21	24	170	129	15	3.8	3.4	2.8
25....	55	26	30	42	19	30	156	125	15	4.2	4	2.7
26....	53	22	30	36	19	37	145	123	14	4.2	4 4	2.5
27....	55	25	30	28	22	54	145	110	14	4.2	4.4	2.4
28....	55	27	25	31	17	66	152	125	12	4.2	4	2.6
29....	55	74	25	24	20	62	156	112	12	4.2	3.8	3
30....	53	49	20	27	....	53	182	189	12	4.4	3.4	3
31....	51	....	25	30	....	41	....	182	....	5.6	3.6	....
Total	2046	1115	1011	935	843	810	4115	5075	1898	321.5	127.0	92 4
Mean.	66.0	37.2	32.6	30.2	29.1	26.1	137	164	63.3	10.4	4.10	3.08
Max..	97	74	....	....	....	66	216	226	166	72	6.8	4.2
Min...	51	22	....	....	....	14	48	110	12	3.8	3.2	2.4
Acre-ft.	4060	2210	2000	1860	1670	1600	8150	10100	3770	640	252	183

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of St. Charles River at Mouth for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	2	6	14	5	5	5	25	20	14	7	1030	132
2....	2	7	14	5	5	4	31	22	8	6	1490	118
3....	3	6	12	6	5	7	28	21	7	43	175	103
4....	2	7	12	5	5	8	19	22	4	24	190	138
5....	2	6	12	4	5	9	16	16	2	8	326	114
6....	3	8	11	4	5	8	16	19	2	2	444	110
7....	2	9	11	4	6	10	39	21	2	8	400	94
8....	2	9	11	4	4	8	50	25	5	13	358	147
9....	3	9	8	4	4	7	38	22	9	34	642	140
10....	3	9	6	4	7	8	31	21	19	114	281	129
11....	3	9	7	4	7	8	28	19	21	51	236	123
12....	3	6	6	4	6	7	27	15	22	200	690	118
13....	3	6	12	4	6	6	28	16	44	30	481	114
14....	3	7	12	4	5	6	26	16	16	74	490	107
15....	2	10	11	4	14	4	20	17	12	66	500	68
16....	4	12	10	4	8	11	15	13	13	1130	939	70
17....	3	12	7	4	2	10	9	12	12	148	703	92
18....	3	12	9	4	4	4	13	21	13	88	611	412
19....	4	12	11	4	10	19	22	30	14	74	904	332
20....	4	12	10	4	15	22	36	26	15	242	500	192
21....	4	13	8	4	18	18	43	31	15	68	358	175
22....	4	13	7	4	17	17	27	21	12	40	768	168
23....	4	13	7	4	15	19	18	10	11	34	680	163
24....	4	14	6	4	6	21	12	8	20	28	590	60
25....	4	14	6	4	2	22	8	8	26	22	500	48
26....	4	11	5	4	6	28	15	81	26	22	450	44
27....	4	12	5	5	8	21	64	40	24	22	402	34
28....	4	12	5	5	5	20	33	68	9	22	230	31
29....	4	14	6	5	....	17	21	38	4	22	190	56
30....	6	14	6	5	....	19	15	31	4	22	147	51
31....	6	....	6	5	....	27	....	19	....	22	138	....
Total	104	304	273	134	205	400	773	751	405	2686	15843	3683
Mean.	3.35	10.1	8.81	4.32	7.32	12.9	25.8	24.2	13.5	86.6	511	123
Max..	6	14	14	....	18	28	64	81	44	1130	....	412
Min...	2	6	5	....	2	4	8	8	2	2	138	31
Acre-ft.	206	601	541	266	407	793	1540	1490	803	5320	31400	7320

Discharge of St. Charles River at Mouth for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	41	44	....	19	21	12	20	211	270	13	5	2
2....	52	41	....	10	17	11	20	156	217	27	3	8
3....	170	24	41	7	15	17	17	196	205	18	6	4
4....	127	19	....	8	12	8	24	196	220	17	5	5
5....	151	20	....	13	33	12	48	214	208	15	5	2
6....	120	15	....	19	30	7	36	245	190	16	2	3
7....	85	10	....	26	23	11	85	245	184	16	2	2
8....	51	14	....	25	22	12	153	232	150	15	2	2
9....	92	14	....	24	15	8	190	208	118	21	4	2
10....	185	14	....	22	25	8	111	232	116	19	4	3
11....	228	12	....	19	24	12	150	205	94	20	18	2
12....	143	12	....	17	24	14	139	217	96	20	8	4
13....	145	12	....	12	28	13	113	205	87	20	5	2
14....	150	12	....	14	16	12	113	202	81	190	2	3
15....	158	11	....	17	15	13	113	193	59	52	4	3
16....	94	11	....	14	15	16	101	208	59	66	23	3
17....	129	11	....	14	15	19	69	182	59	20	2	5
18....	121	10	....	23	15	16	52	173	62	17	2	6
19....	76	10	....	15	18	19	52	179	48	12	2	6
20....	96	10	....	12	15	19	75	182	34	15	2	5
21....	92	10	....	12	20	20	89	199	40	12	2	5
22....	123	20	....	15	19	22	79	214	37	13	2	5
23....	145	40	....	15	15	9	101	205	30	8	2	6
24....	107	40	....	16	13	5	113	184	34	5	2	6
25....	74	40	....	32	12	18	94	193	37	5	2	6
26....	86	40	....	28	11	8	129	202	44	4	2	6
27....	54	30	....	33	12	12	108	159	37	5	3	5
28....	45	30	....	32	14	57	150	190	30	7	4	6
29....	46	30	....	28	12	27	161	220	22	6	3	5
30....	39	30	....	28	....	28	173	205	10	11	3	4
31....	28	....	....	20	....	19	....	329	....	3	5	....
Total	3253	636	....	589	516	484	2878	6381	2878	688	136	126
Mean.	105	21.2	25.0	19.0	17.8	15.6	95.9	206	95.9	22 2	4.39	4.20
Max..	228	44	....	....	....	57	190	329	270	190	23	8
Min...	28	10	....	....	....	5	17	156	10	3	2	2
Acre-ft.	6460	1260	1540	1170	1020	959	5710	12700	5710	1360	270	250

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Greenhorn Creek at Rye for 1923.
Drainage Area, 12 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1....	....	....	1.5	5.0	8.5	11	5.2	5.5	18	9.7	7.6	4.8
2....	....	....	1.5	4.1	9.1	11	6.2	10	17	9.7	7.6	4.8
3....	....	....	1.5	3.4	13	11	5	6.8	16	10	7.3	4.8
4....	....	....	1.5	2.6	6.0	11	6.5	6.5	16	10	7.3	4.0
5....	....	....	1.5	2.5	7.3	12	6	7	14	9.7	6.8	3.4
6....	....	....	1.5	3.1	6.8	10	5	6.2	14	12	6.5	3.8
7....	....	....	1.5	1.3	5.8	11	4.8	6.8	14	10	6.5	3.8
8....	....	....	1.5	1.0	6.5	14	4.3	6.2	13	8.5	6.5	3.8
9....	....	....	1.7	1.0	10	7.3	4.5	7.3	10	9.4	6.2	3.5
10....	....	....	1.8	1.0	13	8.5	6.2	6.5	11	11	6.2	3.5
11....	....	....	1.7	1.5	14	10	3.4	6.2	13	9.4	6.0	3.5
12....	....	....	2.9	2.0	13	8.8	6	32	13	9.7	6.0	3.5
13....	....	....	1.0	2.0	11	8.8	7.9	14	11	12	6.0	3.0
14....	....	....	1.0	2.0	7.9	8.2	6.8	16	10	10	5.8	3.0
15....	....	....	12	2.5	7	7.3	9.4	14	12	10	5.2	3.0
16....	....	....	4.5	2.5	8.8	9.4	4.8	15	11	9.7	5.2	3.0
17....	....	....	1.8	2.5	16	8.5	2.7	20	12	9.4	4.8	3.0
18....	....	....	1.6	3.0	23	8.2	2.7	20	16	8.5	4.8	3.0
19....	....	....	1.4	3.0	11	8.2	12	19	17	8.8	4.8	3.0
20....	....	....	3.1	3.5	13	8.8	17	22	16	8.5	4.5	3.0
21....	....	....	3.1	4.0	10	11	7.3	20	17	8.5	4.5	3.0
22....	....	....	3.4	4.0	7.9	8.2	6.5	27	19	7.9	4.5	3.0
23....	....	....	2.4	4.3	6.5	6.2	5.5	25	14	8.2	4.3	3.0
24....	....	....	2.4	4.0	6.8	5.8	5.2	26	14	8.2	4.5	3.0
25....	....	....	2.0	5.0	10	6	6	23	12	7.9	4.3	3.0
26....	....	....	2.0	5.2	12	6	6	23	11	8.2	4.1	2.5
27....	....	....	2.6	5.8	9.1	5.5	7	22	11	8.2	4.5	2.5
28....	....	....	2.2	5.8	9.7	5.8	5.8	20	10	8.2	5.0	2.5
29....	....	....	2.6	6.0	8.8	5.2	5.5	19	10	7.9	5.5	2.5
30....	....	....	2.6	7.0	10	4.8	5.5	18	10	7.3	5.0	2.0
31....	....	....	4.5	....	12	....	5.5	18	....	7.3	....	2.0
Total	....	....	77.3	100.6	313.5	257.5	192.2	488	402	283.8	167.8	100.2
Mean.	1.80	1.50	2.49	3.35	10.1	8.58	6.20	15.7	13.4	9.15	5.59	3.23
Max..	....	....	12	7	23	12	17	32	19	12	7.6	....
Min...	....	....	1	1	5.8	4.8	2.7	5.5	10	7.3	4.1	....
Acre-ft.	111	86	153	199	621	510	381	965	797	563	333	199

Discharge of Huerfano River at Manzanares Crossing for Year Ending Sept. 30, 1923.
Drainage Area, 76 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	....	....	....	34	48
2....	....	....	....	....	....	....	....	....	....	....	30	48
3....	....	....	....	....	....	....	....	....	....	....	29	48
4....	....	....	....	....	....	....	....	....	....	....	28	45
5....	....	....	....	....	....	....	....	....	....	....	27	45
6....	....	....	....	....	....	....	....	....	....	....	27	44
7....	....	....	....	....	....	....	....	....	....	....	33	42
8....	....	....	....	....	....	....	....	....	....	....	119	40
9....	....	....	....	....	....	....	....	....	....	....	100	38
10....	....	....	....	....	....	....	....	....	....	....	93	36
11....	....	....	....	....	....	....	....	....	....	....	95	34
12....	....	....	....	....	....	....	....	....	....	....	119	42
13....	....	....	....	....	....	....	....	....	....	....	110	42
14....	....	....	....	....	....	....	....	....	....	84	100	43
15....	....	....	....	....	....	....	....	....	....	84	62	45
16....	....	....	....	....	....	....	....	....	....	82	60	46
17....	....	....	....	....	....	....	....	....	....	81	91	46
18....	....	....	....	....	....	....	....	....	....	77	79	65
19....	....	....	....	....	....	....	....	....	....	76	90	64
20....	....	....	....	....	....	....	....	....	....	64	77	57
21....	....	....	....	....	....	....	....	....	....	57	74	56
22....	....	....	....	....	....	....	....	....	....	52	86	59
23....	....	....	....	....	....	....	....	....	....	48	70	65
24....	....	....	....	....	....	....	....	....	....	34	63	80
25....	....	....	....	....	....	....	....	....	....	37	59	70
26....	....	....	....	....	....	....	....	....	....	40	55	63
27....	....	....	....	....	....	....	....	....	....	39	54	60
28....	....	....	....	....	....	....	....	....	....	38	50	59
29....	....	....	....	....	....	....	....	....	....	38	48	55
30....	....	....	....	....	....	....	....	....	....	37	48	52
31....	....	....	....	....	....	....	....	....	....	36	48	....
Total	....	....	....	....	....	....	....	....	....	1004	2058	1537
Mean.	....	....	....	....	....	....	....	....	....	55.8	66 4	51.2
Max..	....	....	....	....	....	....	....	....	....	....	119	80
Min...	....	....	....	....	....	....	....	....	....	....	27	34
Acre-ft.	....	....	....	....	....	....	....	....	....	....	4080	3050

Unless otherwise noted, discharges are in cubic feet per second.

Discharge of Huerfano River at Manzanares Crossing for Year Ending Sept. 30, 1924.
Drainage Area, 76 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	40	29	31	....	....	....	19	52	115	95	43	22
2....	50	29	33	....	....	....	19	59	115	89	40	21
3....	47	29	38	....	....	....	23	75	118	91	49	21
4....	45	29	44	15	....	15	28	89	140	91	38	20
5....	44	29	33	....	....	....	37	95	167	95	29	19
6....	43	30	33	....	....	....	67	80	184	97	34	19
7....	41	31	29	....	....	....	62	82	187	87	34	18
8....	39	30	38	....	....	....	52	95	178	97	32	16
9....	44	29	23	....	11	....	45	97	156	95	31	15
10....	42	26	31	....	....	....	47	111	143	82	30	17
11....	41	26	42	....	....	....	45	131	148	68	28	18
12....	41	26	22	....	....	....	31	146	172	67	27	20
13....	39	27	22	....	....	....	24	167	187	60	28	20
14....	37	29	17	....	....	....	45	167	197	47	30	20
15....	38	30	17	....	....	....	37	167	178	38	31	18
16....	36	28	16	....	....	....	42	158	161	45	31	19
17....	35	28	16	....	....	....	53	170	150	52	28	18
18....	33	32	16	....	....	....	52	184	140	54	26	17
19....	32	30	16	....	....	....	57	220	138	53	22	18
20....	31	29	16	....	....	....	60	190	129	48	20	17
21....	32	30	16	....	....	....	63	181	118	47	20	18
22....	32	31	14	....	....	....	65	184	118	49	21	18
23....	32	31	14	....	....	....	70	172	111	44	22	17
24....	31	29	14	....	....	....	63	148	109	45	23	17
25....	31	29	14	....	....	....	57	167	105	45	23	18
26....	31	30	14	....	....	....	53	170	115	44	23	18
27....	31	30	12	....	....	....	45	181	113	44	22	18
28....	30	36	12	....	....	....	35	153	111	47	22	18
29....	30	32	12	....	....	....	36	136	105	48	21	18
30....	29	31	10	....	....	....	40	143	101	45	21	17
31....	29	....	10	....	....	....	....	124	....	43	23	....
Total	1145	885	676	....	....	....	1372	4294	4209	1952	872	550
Mean.	36.9	29.5	21.8	14	13	18	45.7	139	140	63.0	28.1	18.3
Max..	50	36	....	....	....	....	70	220	197	97	49	22
Min...	29	26	....	....	....	....	19	52	101	38	20	15
Acre-ft.	2270	1760	1340	861	748	1110	2720	8550	8330	3870	1730	1090

Discharge of Huerfano River at Badito for Year Ending Sept. 30, 1923.
Drainage Area, 550 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	5	31	17	0	210	16
2....	....	....	....	....	....	....	5	41	10	33	42	26
3....	....	....	....	....	....	....	7	32	16	47	8	26
4....	....	....	....	....	....	....	7	38	19	64	67	21
5....	....	....	....	....	....	....	8	50	14	55	1	23
6....	....	....	....	....	....	....	8	50	16	76	1	31
7....	....	....	....	....	....	....	8	36	14	55	0	19
8....	....	....	....	....	....	....	10	44	38	25	19	15
9....	....	....	....	....	....	....	10	49	26	26	78	14
10....	....	....	....	....	....	....	10	62	17	35	65	13
11....	....	....	....	....	....	....	10	36	24	36	62	10
12....	....	....	....	....	....	....	10	36	32	97	236	13
13....	....	....	....	....	....	....	10	38	26	257	220	2
14....	....	....	....	....	....	....	15	36	17	32	4	10
15....	....	....	....	....	....	....	15	21	21	243	1	39
16....	....	....	....	....	....	....	20	45	22	80	115	18
17....	....	....	....	....	....	....	30	45	17	76	114	22
18....	....	....	....	....	....	....	30	45	17	55	166	223
19....	....	....	....	....	....	....	35	45	26	240	130	164
20....	....	....	....	....	....	....	31	35	32	271	53	124
21....	....	....	....	....	....	....	27	36	27	18	44	110
22....	....	....	....	....	....	....	19	29	21	8	84	105
23....	....	....	....	....	....	....	22	29	24	1	239	86
24....	....	....	....	....	....	....	18	19	25	1	53	84
25....	....	....	....	....	....	....	21	16	27	75	74	80
26....	....	....	....	....	....	....	19	19	26	71	86	74
27....	....	....	....	....	....	....	16	31	14	0	84	78
28....	....	....	....	....	....	....	17	17	0	0	74	58
29....	....	....	....	....	....	....	24	9	0	0	53	49
30....	....	....	....	....	....	....	25	6	0	0	35	31
31....	....	....	....	....	....	....	....	8	....	0	29	....
Total	....	....	....	....	....	....	492	1034	585	1977	2447	1584
Mean.	....	....	....	....	....	....	16.4	33.4	19.5	63.8	78.9	52.8
Max..	....	....	....	....	....	....	....	62	32	271	239	223
Min...	....	....	....	....	....	....	....	6	0	0	0	2
Acre-ft.	....	....	....	....	....	....	976	2050	1160	3920	4850	3140

Unless otherwise noted, discharges are in cubic feet per second.

Discharge of Huerfano River at Badito for Year Ending Sept. 30, 1924.
Drainage Area, 550 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	31	11	16	....	10	15	18	39	134	34	28	5.9
2....	21	16	16	....	15	18	22	56	146	7	8.9	5.3
3....	19	25	13	....	15	14	24	44	136	8.5	7	9.6
4....	17	24	13	....	20	15	34	111	124	39	8.9	8.2
5....	15	27	14	....	20	19	62	215	144	4.7	9.4	4.2
6....	15	25	16	....	25	23	79	182	182	24	11	4
7....	31	26	15	....	30	30	115	179	202	65	19	4
8....	49	27	15	....	40	27	149	162	202	53	5	4.8
9....	26	27	15	....	50	30	79	139	190	75	20	3
10....	27	31	15	....	51	47	34	162	122	65	14	3
11....	22	36	15	....	53	35	26	179	113	54	18	4.2
12....	19	38	15	....	54	40	22	212	102	39	15	4.5
13....	20	38	15	....	56	86	24	222	92	29	12	14
14....	20	34	15	....	40	27	74	242	98	22	13	9.2
15....	17	32	15	....	46	15	111	215	96	20	15	4.2
16....	16	36	15	....	39	15	44	206	94	16	13	4.5
17....	11	34	15	....	36	9	34	196	79	18	13	11
18....	18	29	15	....	31	15	25	246	90	16	13	7.8
19....	31	24	15	....	18	26	38	256	72	16	12	7.8
20....	34	22	15	....	12	21	47	238	39	11	12	5.9
21....	35	18	15	....	18	25	56	209	13	15	12	5.9
22....	29	19	15	....	20	31	67	190	13	13	10	6.1
23....	24	19	15	....	9	33	102	146	63	10	11	4.8
24....	21	21	15	....	9	38	127	122	4.7	12	8.7	3.6
25....	18	19	15	....	11	44	90	119	1.7	12	9.6	3.4
26....	16	16	14	....	8	52	79	127	1.7	13	10	4
27....	19	14	14	....	9	32	85	119	1.7	13	15	4
28....	19	14	14	....	12	29	81	124	1.7	14	15	4.8
29....	12	22	10	....	15	16	50	98	1.6	26	26	6.1
30....	8	17	10	....	....	15	36	151	1.6	15	8.7	4.2
31....	9	....	8	....	....	15	....	193	....	38	8.2	....
Total	669	741	443	....	772	807	1834	5099	2560.7	797.2	401.4	172
Mean.	21.6	24.7	14.3	15.0	26.6	26.0	61.1	164	85.4	25.7	12.9	5.73
Max..	49	38	....	....	....	52	149	242	202	75	28	14
Min...	8	11	....	....	....	....	18	39	1.6	4.7	5	3
Acre-ft.	1330	1470	879	922	1530	1600	3640	10100	5080	1580	793	341

Discharge of Huerfano River at Mouth for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	0.3	0.5	3	4	5	22	4	3	1	0	2660	25
2....	0.3	0.5	3	4	5	27	3	3	1	0	2900	24
3....	0.3	0.5	3	5	5	22	2	2	1	0	232	20
4....	0.3	0.5	3	5	5	21	2	2	1	0	51	19
5....	0.3	1	4	5	5	14	3	2	1	0	38	16
6....	0.3	1	4	4	6	13	3	1	1	0	40	13
7....	0.3	1	5	4	6	10	2	0	4	0	62	14
8....	0.3	1	6	4	7	11	2	0	11	0	348	10
9....	0.3	1	6	3	6	16	2	0	5	0	153	11
10....	0.3	1	6	3	6	21	3	1	4	0	105	13
11....	0.4	1	10	3	5	25	2	1	3	0	78	15
12....	0.4	3	10	3	5	17	3	1	5	0	842	14
13....	0.4	3	11	3	4	10	3	1	5	22	303	12
14....	0.4	4	5	4	4	6	3	1	4	141	198	11
15....	0.4	3	19	5	3	14	4	2	4	53	78	14
16....	0.4	3	7	6	2	28	3	1	4	388	247	26
17....	0.4	4	25	7	8	36	2	0	2	399	386	30
18....	0.4	5	46	8	12	70	2	0	4	399	1020	29
19....	0.4	5	20	8	17	36	3	0	2	434	713	153
20....	0.4	5	5	10	17	11	4	1	3	1400	254	59
21....	0.5	4	6	10	15	8	3	1	3	98	539	33
22....	0.5	4	54	10	12	6	2	6	2	34	842	26
23....	0.5	3	25	10	4	5	3	6	1	8	303	22
24....	0.5	3	17	8	4	5	2	2	0	2	525	18
25....	0.5	5	10	6	6	4	2	2	0	2	320	14
26....	0.5	5	7	5	10	5	4	2	1	16	268	10
27....	0.5	4	13	5	15	5	15	2	0	27	166	6
28....	0.5	4	13	5	12	4	6	1	0	10	105	4
29....	0.5	4	10	5	....	4	5	1	1	7	48	3
30....	0.5	3	21	5	....	4	4	2	0	6	37	4
31....	0.5	....	20	5	....	3	....	1	....	6	34	....
Total	12.5	83.0	397	172	211	483	101	48	74	3452	13895	668
Mean.	0.40	2.77	12.8	5.55	7.54	15.6	3.37	1.55	2.47	111	448	22.3
Max..	0.5	5	54	....	17	70	15	6	11	1400	....	153
Min...	0.3	0.5	3	....	....	3	2	0	0	0	34	3
Acre-ft.	25	165	787	341	419	959	201	95	147	6820	27500	1330

Unless otherwise noted, discharges are in cubic feet per second.

Discharge of Huerfano River at Mouth for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	4	53	51	10	10	21	7	234	28	7	1	1
2....	6	47	29	10	10	30	8	198	32	4	1	1
3....	9	44	64	10	10	15	8	192	46	2	1	1
4....	22	38	87	10	10	11	13	173	58	2	1	1
5....	47	48	64	10	40	20	13	192	62	2	1	1
6....	43	50	68	5	60	18	11	173	105	2	1	1
7....	32	53	78	10	80	26	12	234	160	2	1	1
8....	34	29	64	10	80	29	13	293	225	34	1	1
9....	35	17	51	10	78	36	14	284	141	3	1	1
10....	37	8	44	10	53	17	15	186	55	2	240	1
11....	37	22	62	10	58	19	32	284	26	2	10	1
12....	47	19	84	10	58	21	36	204	15	2	3	1
13....	60	13	55	10	53	19	33	217	14	2	3	1
14....	60	11	36	10	51	15	33	217	10	25	2	1
15....	57	13	43	10	47	22	72	211	8	5	1	1
16....	53	14	50	10	35	42	99	204	6	5	1	1
17....	6	15	59	10	42	40	70	234	16	4	1	1
18....	10	16	57	10	26	38	68	276	8	3	1	1
19....	16	18	55	12	18	22	70	204	9	2	1	1
20....	23	25	53	15	15	16	99	204	8	1	1	1
21....	25	19	50	15	20	13	89	192	6	1	1	1
22....	30	14	47	18	17	18	72	211	4	1	1	1
23....	48	17	45	20	20	10	86	234	2	1	1	1
24....	50	19	42	20	11	8	83	173	4	3	1	1
25....	50	22	40	20	10	6	124	145	4	2	1	1
26....	52	24	40	20	12	7	132	137	3	1	1	1
27....	52	27	30	20	12	8	137	75	3	1	1	1
28....	52	45	30	20	12	10	128	58	3	1	1	1
29....	54	55	15	20	13	18	132	28	2	1	1	1
30....	54	43	15	10	....	19	167	22	2	1	1	1
31....	55	....	10	10	....	19	....	30	....	1	1	....
Total	1158	838	1518	395	961	613	1876	5719	1065	125	284	30
Mean.	37.4	27.9	49.0	12.7	33.1	19.8	62.5	184	35.5	4.03	9.16	1.00
Max..	60	55	87	....	....	42	167	293	225	....	....	....
Min...	4	8	....	....	....	6	7	22	....	....	....	....
Acre-ft.	2300	1660	3010	781	1900	1220	3720	11300	2110	248	563	60

Discharge of Cucharas River Near La Veta for Year Ending Sept. 30, 1923.
Drainage Area, 75 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	3	3	5	13	25	54	29	21	19
2....	....	....	....	3	3	5	13	24	51	29	22	20
3....	....	....	....	3	3	5	12	24	46	27	20	20
4....	....	....	....	3	3	5	12	26	46	30	19	18
5....	....	....	....	3	3	5	9.6	25	46	33	19	19
6....	....	....	....	3	3	6	11	25	46	25	19	19
7....	....	....	....	3	3	6	11	26	44	24	19	18
8....	....	....	....	3	3	8.6	12	27	64	27	44	19
9....	....	....	....	3	3	8.8	12	39	68	27	28	14
10....	....	....	....	3	3	8.6	12	35	70	27	19	12
11....	....	....	....	3	3	8.6	13	27	59	71	19	12
12....	....	....	....	3	3	8.6	13	28	59	51	82	18
13....	....	....	....	3	3	8.6	13	27	61	52	43	12
14....	....	....	....	3	3	8.4	12	28	62	47	44	12
15....	....	....	....	3	3	8	12	26	61	37	41	16
16....	....	....	....	3	3	8.2	14	28	64	39	34	13
17....	....	....	....	3	4	8.3	14	29	66	33	119	24
18....	....	....	....	3	4	8.3	14	40	64	33	172	29
19....	....	....	....	3	4	8.3	16	52	64	36	127	25
20....	....	....	....	3	4	8.6	15	64	57	54	119	19
21....	....	....	....	3	4	8.6	17	70	51	43	97	17
22....	....	....	....	3	4	8.8	16	70	46	40	293	17
23....	....	....	....	3	4	9.1	17	61	47	33	82	19
24....	....	....	....	3	4	8.6	18	52	44	30	61	18
25....	....	....	....	3	4	8.6	14	54	43	28	54	18
26....	....	....	....	3	4	9.1	14	55	44	27	41	18
27....	....	....	....	3	4	9.1	15	59	41	30	35	14
28....	....	....	....	3	4	8.6	15	59	43	31	33	12
29....	....	....	....	3	....	9.1	17	57	43	27	30	12
30....	....	....	....	3	....	12	24	55	34	23	30	12
31....	....	....	....	3	....	12	....	52	....	18	25	....
Total	....	....	....	93	96	250.5	420.6	1269	1588	1061	1811	515
Mean.	....	....	....	3	3.43	8.08	14	40.9	52.9	34.2	58.4	17.2
Max..	....	....	....	....	....	12	24	70	70	71	293	29
Min...	....	....	....	....	....	5	9.6	24	34	18	19	12
Acre-ft.	....	....	....	184	190	497	833	2510	3150	2100	3590	1020

Unless otherwise noted, discharges are in cubic feet per second.

Discharge of Cucharas River Near La Veta for Year Ending Sept. 30, 1924.
Drainage Area, 75 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	12	16	....	....	....	10	25	112	142	56	16	9
2....	13	17	....	....	....	10	20	102	142	56	16	9
3....	14	15	....	....	....	10	19	142	138	54	16	9
4....	12	15	....	....	....	12	22	170	138	56	13	9
5....	13	14	....	....	....	12	32	234	142	50	13	9
6....	14	13	....	....	....	15	49	247	154	42	13	9
7....	12	12	....	....	....	18	72	247	138	42	13	9
8....	12	12	....	....	....	20	94	247	138	45	13	9
9....	13	18	....	....	....	18	88	203	138	40	13	7
10....	13	13	....	....	....	15	71	209	125	40	13	7
11....	12	14	....	....	....	15	72	251	125	37	13	9
12....	12	14	....	....	....	20	77	291	121	34	13	9
13....	13	11	....	....	....	20	78	353	121	32	12	9
14....	18	14	....	....	....	23	127	374	147	31	10	9
15....	19	14	....	....	....	23	144	335	147	31	11	9
16....	18	13	....	....	....	20	110	315	131	30	11	9
17....	18	14	....	....	....	18	90	315	125	31	8.6	12
18....	16	16	....	....	....	10	63	323	125	31	8.6	9
19....	16	15	....	....	....	13	99	383	94	31	8.6	9
20....	16	12	....	....	....	13	54	456	87	29	8.6	9
21....	16	13	....	....	....	14	97	481	95	24	8.6	7
22....	15	13	....	....	....	14	127	436	87	24	9	7
23....	16	13	....	....	....	13	183	344	71	20	9	7
24....	17	14	....	....	....	21	113	303	63	21	10	7
25....	18	12	....	....	....	13	188	269	63	17	12	5
26....	17	12	....	....	....	14	140	251	71	20	12	5
27....	16	8	....	....	....	16	140	218	63	17	9	5
28....	14	8	....	....	....	14	99	197	56	17	9	5
29....	15	8	....	....	....	14	87	170	56	17	9	5
30....	13	8	....	....	....	18	99	165	56	17	9	7
31....	14	....	....	....	....	25	....	165	....	17	9	....
Total	457	391	....	....	....	491	2689	8308	3299	1009	349	227
Mean.	14.7	13	10	10	12	15.8	89.6	268	110	32.6	11.3	7.57
Max..	19	18	....	....	....	....	188	481	154	56	16	12
Min...	12	....	....	....	....	....	19	102	56	17	8.6	5
Acre-ft.	904	774	615	615	690	972	5330	16500	6550	2000	695	450

Discharge of Apishapa River at Mouth for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	6	15	41	32	20	7	6	7	14	23	60	82
2....	6	15	42	28	18	11	7	6	18	22	555	129
3....	6	22	42	23	13	17	6	11	16	20	94	79
4....	6	28	53	15	8	15	8	8	16	26	69	37
5....	5	26	88	19	7	14	9	7	16	24	77	31
6....	6	20	81	24	16	14	5	6	17	20	97	31
7....	5	16	46	28	26	13	6	6	60	18	48	26
8....	5	13	27	25	11	9	6	5	163	16	446	34
9....	5	11	36	23	6	9	6	4	45	22	57	40
10....	5	11	27	21	5	9	6	5	16	15	39	34
11....	5	14	28	16	8	8	5	5	9	240	33	22
12....	5	26	22	7	4	11	4	7	19	25	122	47
13....	5	49	13	5	6	8	4	6	25	97	40	57
14....	6	92	12	4	10	6	4	7	21	75	25	46
15....	4	47	19	5	12	13	4	7	16	30	30	65
16....	2	34	34	12	8	14	5	6	33	50	61	65
17....	5	39	60	31	12	11	4	6	44	75	196	92
18....	13	41	31	23	12	10	4	5	41	25	765	30
19....	6	30	20	20	12	12	4	5	55	25	341	100
20....	5	29	11	17	15	14	5	90	79	25	192	50
21....	5	25	9	16	15	18	7	56	79	25	150	192
22....	8	23	17	17	19	15	8	20	79	25	8520	139
23....	8	25	24	20	18	8	7	10	32	75	5850	76
24....	11	25	28	21	20	30	5	4	29	25	400	16
25....	17	30	29	20	23	14	5	17	26	49	300	20
26....	8	30	30	23	13	12	4	38	26	15	250	23
27....	9	35	37	21	9	6	4	31	28	25	200	39
28....	13	40	24	19	7	7	8	33	25	25	150	33
29....	14	40	19	21	....	9	18	22	17	25	116	36
30....	12	40	18	18	....	7	7	16	25	57	100	39
31....	14	....	22	20	....	6	....	16	....	48	79	....
Total	230	891	990	594	353	357	181	472	1089	1267	19462	1710
Mean.	7.42	29.7	32	19.2	12.6	11.5	6.03	15.2	36.3	40.9	628	57
Max..	17	92	88	32	26	30	18	90	163	....	....	192
Min...	2	11	9	4	4	6	4	4	9	....	25	16
Acre-ft.	456	1770	1970	1180	700	707	359	935	2160	2510	38600	3390

Unless otherwise noted, discharges are in cubic feet per second.

Discharge of Apishapa River at Mouth for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	38	31	40	4	25	31	64	108	7	4	3	3
2....	30	29	40	3	39	24	29	110	90	51	3	3
3....	50	30	40	3	18	24	38	81	37	22	3	3
4....	22	33	43	3	10	23	27	47	12	13	4	3
5....	43	26	37	4	15	36	26	58	10	11	3	3
6....	354	24	38	8	12	22	38	40	11	6	3	3
7....	182	22	36	8	17	14	79	45	18	8	3	3
8....	48	22	37	7	24	20	141	45	38	7	3	3
9....	95	24	39	7	26	38	141	40	27	11	3	3
10....	182	23	34	6	24	31	125	30	21	8	136	3
11....	97	24	32	6	19	38	125	30	14	5	85	3
12....	103	24	38	5	30	44	154	12	6	4	219	3
13....	152	30	29	5	25	40	158	10	13	4	51	3
14....	105	84	24	4	18	44	111	17	19	4	12	3
15....	58	147	23	4	38	40	97	15	6	4	7	3
16....	78	40	36	4	36	84	120	10	28	6	6	3
17....	76	32	40	7	37	141	138	15	24	6	5	3
18....	48	31	44	5	38	127	154	15	31	4	4	3
19....	36	33	10	5	44	116	95	12	46	4	4	3
20....	24	50	5	5	37	84	68	10	31	4	4	3
21....	20	55	24	5	34	61	73	20	22	3	4	3
22....	23	51	17	6	41	81	71	25	28	3	4	3
23....	29	38	12	6	43	79	71	30	18	4	3	3
24....	61	38	7	7	43	81	38	30	10	4	3	3
25....	236	43	8	7	39	86	46	35	6	4	4	3
26....	182	37	10	6	34	74	48	35	7	3	3	3
27....	134	60	10	8	27	54	48	35	8	3	3	3
28....	92	68	10	8	24	25	94	32	5	3	3	3
29....	40	46	8	6	27	54	90	35	4	3	3	3
30....	36	46	8	10	....	113	105	29	6	3	3	3
31....	33	....	7	25	....	118	....	24	....	3	3	....
Total	2702	1241	786	197	844	1847	2612	1080	603	222	597	90
Mean.	87.2	41.4	25.3	6.35	29.1	59.6	87.1	34.8	20.1	7.16	19.3	3
Max..	354	147	44	25	44	141	158	110	90	51	219	3
Min...	20	22	5	3	10	14	26	10	4	3	3	3
Acre-ft.	5360	2460	1560	390	1670	3660	5180	2140	1200	440	1190	179

Discharge of Timpas Creek at Mouth for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	40	50	57	62	55	56	47	23	73	61	202	66
2....	41	55	60	62	67	52	43	23	74	45	903	61
3....	42	59	79	56	54	43	54	19	82	43	339	49
4....	49	65	78	53	37	48	50	19	85	42	181	44
5....	55	84	71	55	25	66	43	25	202	57	199	42
6....	57	115	68	55	27	70	29	24	80	48	279	52
7....	57	118	88	57	31	58	29	26	920	42	494	58
8....	56	106	77	75	29	63	39	29	2430	46	1420	56
9....	54	99	64	108	25	57	41	28	180	46	598	39
10....	56	98	70	108	25	57	31	26	62	110	271	83
11....	57	89	72	80	22	62	30	25	115	645	314	39
12....	57	108	69	51	24	67	25	25	200	155	772	35
13....	57	105	65	46	22	72	19	25	180	460	290	55
14....	67	105	57	49	20	60	20	29	160	512	170	59
15....	78	72	52	50	19	50	19	31	271	188	125	52
16....	90	90	66	48	26	49	20	29	1510	205	149	102
17....	90	93	69	50	26	60	19	27	365	278	2670	150
18....	80	88	64	57	24	50	19	26	195	145	286	450
19....	70	86	75	61	25	46	19	26	275	455	282	318
20....	60	75	68	64	21	68	24	324	480	255	252	205
21....	58	69	64	76	24	40	24	933	535	280	217	231
22....	63	67	48	64	29	27	22	1070	145	185	340	224
23....	57	72	42	56	40	25	25	197	137	235	317	241
24....	70	78	42	56	28	78	21	73	110	120	140	144
25....	77	72	43	54	42	76	20	74	105	112	125	94
26....	75	80	56	50	55	45	22	146	83	121	100	85
27....	64	75	57	37	37	67	146	179	126	406	238	83
28....	65	55	65	45	50	60	34	215	168	252	393	81
29....	46	50	70	62	....	52	24	98	110	208	178	67
30....	60	57	75	64	....	45	23	99	70	221	106	149
31....	55	....	75	60	....	43	....	99	....	208	81	....
Total	1903	2435	2006	1871	909	1712	981	3992	9528	6186	12431	3414
Mean.	61.4	81.2	64.7	60.4	32.5	55.2	32.7	129	318	200	401	114
Max..	90	118	88	108	67	78	146	1070	2430	645	2670	450
Min...	40	50	42	37	19	25	19	19	62	42	81	35
Acre-ft.	3780	4830	3980	3710	1800	3390	1950	7930	18900	12300	24700	6780

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Timpas Creek at Mouth for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	176	231	102	80	64	215	240	106	203	24	22	22
2....	149	214	100	60	49	199	195	103	240	36	22	26
3....	164	211	98	40	50	140	223	75	150	27	22	28
4....	214	228	96	40	42	207	232	73	64	21	22	26
5....	245	228	85	34	46	133	236	51	82	24	21	24
6....	252	228	88	34	64	85	232	34	95	27	19	24
7....	256	208	121	36	68	77	244	32	62	30	21	27
8....	259	241	164	38	46	98	296	36	127	36	21	28
9....	674	241	173	40	82	103	270	42	228	55	21	24
10....	593	208	132	42	95	121	248	36	164	51	21	22
11....	335	224	88	40	100	113	103	33	57	49	28	26
12....	306	221	117	38	82	195	118	38	33	40	33	24
13....	342	221	88	38	68	240	168	36	34	51	40	26
14....	255	221	79	46	57	228	150	36	57	53	36	24
15....	234	238	83	30	57	270	130	33	157	62	27	22
16....	236	205	83	42	55	314	168	33	378	68	27	38
17....	218	202	81	45	47	332	147	32	176	62	24	47
18....	196	234	72	45	47	274	168	36	191	36	24	51
19....	199	202	70	45	55	236	130	55	172	34	24	49
20....	202	178	76	45	46	147	140	73	115	36	21	49
21....	228	176	92	45	106	154	140	157	98	38	24	55
22....	228	184	98	45	161	248	70	93	62	30	21	57
23....	234	187	100	45	191	261	118	75	57	26	20	51
24....	252	217	104	50	147	248	121	133	40	26	26	44
25....	231	231	104	55	66	287	112	80	36	21	24	49
26....	202	214	119	68	62	203	228	59	24	32	22	51
27....	263	214	119	66	140	109	211	90	27	28	21	42
28....	290	238	110	59	164	161	82	82	22	27	20	46
29....	286	151	125	47	195	274	95	118	20	30	21	38
30....	263	96	128	38	.....	300	98	82	24	21	22	34
31....	248	....	100	49	....	261	....	158	....	24	26	....
Total	8230	6292	3195	1425	2452	6235	5113	2120	3195	1125	743	1074
Mean.	265	210	103	46	84.6	201	170	68.4	106	36 3	24	35.8
Max..	674	241	173	....	195	332	296	157	378	68	40	57
Min...	149	96	70	....	....	77	70	32	20	21	19	22
Acre-ft.	16300	12500	6330	2830	4870	12400	10100	4210	6310	2230	1480	2130

Discharge of Crooked Arroyo Near Mouth for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1	1	18	6	12	17	5	0	3	28	47	20
2....	1	3	16	8	11	19	7	1	2	18	43	19
3....	1	6	14	11	4	17	9	1	3	14	29	14
4....	1	7	16	3	5	9	16	1	4	12	30	16
5....	1	18	13	4	4	22	22	1	7	13	31	18
6....	1	9	11	2	1	23	30	1	4	13	27	16
7....	1	7	13	5	1	18	22	1	581	14	36	19
8....	1	5	12	9	1	22	12	1	202	13	89	20
9....	1	6	13	4	5	16	18	5	37	12	148	23
10....	1	3	14	5	5	14	17	2	23	44	61	22
11....	1	5	5	4	6	11	10	2	20	385	54	24
12....	1	8	8	9	3	10	5	1	29	99	70	25
13....	1	14	7	7	2	10	2	1	27	79	58	21
14....	1	18	5	6	5	12	0	1	18	70	64	24
15....	3	16	8	11	8	13	0	1	10	80	66	30
16....	3	13	7	11	5	14	0	0	35	66	37	3
17....	4	11	4	14	2	9	0	1	20	38	88	23
18....	2	11	5	21	3	10	0	1	25	39	70	35
19....	2	17	1	20	2	7	0	1	20	104	64	36
20....	1	18	1	28	2	5	0	17	47	52	44	42
21....	1	18	1	31	2	5	0	122	116	38	39	38
22....	1	23	3	30	2	2	0	234	77	32	46	38
23....	1	20	2	26	2	0	0	26	48	31	56	39
24....	2	25	1	26	2	3	0	10	42	24	34	40
25....	2	30	1	26	7	5	0	8	50	22	40	40
26....	2	55	1	25	26	5	0	5	32	17	36	42
27....	2	23	1	14	18	3	0	5	36	52	29	41
28....	1	19	2	25	16	7	0	5	30	56	29	40
29....	3	19	4	28	....	9	0	5	27	57	31	38
30....	3	21	4	25	....	4	0	10	27	59	25	22
31....	2	....	4	20	....	4	0	19	....	47	23	....
Total	49	449	215	464	162	325	175	489	1602	1628	1544	862
Mean.	1.58	15	6.94	15.0	5.79	10.5	5.83	15.8	53.4	52.5	49.8	28.7
Max..	33	55	18	31	26	23	30	234	581	385	148	42
Min...	1	1	1	2	2	0	0	0	2	12	23	14
Acre-ft.	97	892	427	922	322	646	347	972	3180	3230	3060	1710

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Crooked Arroyo Near Mouth for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	April	May	June	July	Aug.	Sept.
1....	31	34	19	8	5	30	40	13	49	5	2	1
2....	28	35	16	6	5	30	36	9	54	5	2	1
3....	30	35	18	6	4	35	36	10	41	5	2	1
4....	30	36	18	4	5	47	37	9	17	5	2	2
5....	28	36	18	4	5	32	39	9	13	5	1	2
6....	27	35	18	3	5	21	39	6	9	4	1	2
7....	39	34	18	3	4	23	46	2	13	4	1	3
8....	43	34	25	3	4	40	53	3	13	5	1	3
9....	40	34	25	3	4	27	13	6	13	6	1	3
10....	44	34	16	3	7	22	8	4	14	7	1	3
11....	30	34	12	3	6	19	8	1	7	6	2	3
12....	25	34	11	3	5	21	7	1	4	6	2	3
13....	25	35	11	3	7	20	5	1	3	6	2	3
14....	30	34	11	3	9	13	6	1	4	7	2	3
15....	30	34	11	3	8	8	6	2	7	6	2	4
16....	35	32	10	2	6	15	4	2	67	6	2	3
17....	40	33	10	2	6	9	3	6	20	6	1	2
18....	45	33	9	2	5	7	3	13	14	5	1	2
19....	44	29	7	2	4	13	30	15	28	4	1	2
20....	42	30	7	2	2	13	34	8	37	4	2	2
21....	41	30	8	2	2	7	11	11	36	4	1	2
22....	41	30	7	2	2	29	4	11	22	4	1	2
23....	41	30	6	7	12	28	15	19	20	3	1	2
24....	44	30	7	7	8	30	37	29	19	3	1	2
25....	42	32	8	7	4	28	23	8	9	3	1	2
26....	35	33	10	6	4	22	27	26	8	3	1	2
27....	41	32	8	6	4	26	26	22	7	3	1	2
28....	40	34	10	5	4	44	24	20	7	3	1	2
29....	39	36	10	5	7	32	16	32	6	3	1	1
30....	37	28	10	5	....	38	12	39	6	2	1	2
31....	35	....	8	5	....	36	....	48	....	2	1	....
Total	1122	990	382	125	153	765	648	386	567	140	42	67
Mean.	36.2	33.0	12.3	4.03	5.28	24.7	21.6	12.5	18.9	4.52	1.35	2.23
Max..	45	36	25	....	12	47	53	48	67	7	2	4
Min...	....	28	6	....	2	7	3	1	3	2	1	1
Acre-ft.	2230	1960	756	248	304	1520	1290	769	1120	278	83	133

Discharge of Purgatoire River at Trinidad for Year Ending Sept. 30, 1923.
Drainage Area, 742 Square Miles. Altitude, 5,990 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	15	18	....	....	20	15	22	34	120	167	137	298
2....	14	19	....	....	20	15	19	32	124	150	292	232
3....	13	19	....	....	20	15	16	34	111	156	232	342
4....	12	19	....	....	20	14	15	36	111	141	206	200
5....	12	16	....	....	20	11	15	34	107	264	359	195
6....	12	18	....	....	20	22	16	36	107	172	412	232
7....	12	18	....	....	20	14	15	38	785	150	894	292
8....	13	16	....	....	25	14	20	34	1600	156	853	195
9....	12	16	....	....	25	19	22	38	306	128	403	172
10....	13	16	....	....	25	15	15	69	306	605	167	172
11....	12	14	....	....	25	12	12	79	328	1100	310	161
12....	12	17	....	....	25	12	12	83	313	762	1550	200
13....	12	11	....	....	30	10	11	86	299	750	335	212
14....	12	12	....	....	30	15	12	90	299	608	225	601
15....	12	15	....	....	30	20	8	86	306	556	161	573
16....	12	16	....	....	30	27	6	86	299	772	167	598
17....	12	21	....	....	30	25	5	60	313	895	580	784
18....	12	34	....	....	25	32	5	66	351	678	470	1400
19....	12	18	....	....	20	32	6	86	306	335	251	270
20....	12	19	....	....	10	34	49	100	1480	270	244	206
21....	13	18	....	....	10	32	55	146	467	251	334	161
22....	14	16	....	....	11	32	41	133	306	172	370	141
23....	16	18	....	....	18	10	41	116	284	156	850	156
24....	18	18	....	....	15	20	38	107	219	150	394	212
25....	17	17	....	....	15	41	25	107	212	150	328	167
26....	14	16	....	....	67	120	34	111	195	167	320	116
27....	14	18	....	....	35	22	32	141	156	141	306	107
28....	13	16	....	....	18	19	27	146	141	161	292	104
29....	13	16	....	....	....	16	17	141	141	128	270	90
30....	14	16	....	....	....	17	25	128	137	146	225	90
31....	13	....	....	....	....	17	....	111	....	141	189	....
Total	407	521	....	....	659	719	636	2594	10229	10578	12126	8679
Mean.	13.1	17.4	15	20	23.5	23.2	21.2	83 7	341	341	391	289
Max..	18	34	....	....	67	120	55	146	1100	1100	1550	1400
Min...	12	11	....	....	....	10	5	32	128	128	137	90
Acre-ft.	806	1040	922	1230	1300	1430	1260	5150	20300	21000	24000	17200

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Purgatoire River at Trinidad for Year Ending Sept. 30, 1924.
Drainage Area, 742 Square Miles. Altitude, 5,990 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1140	212	83	40	65	63	116	322	290	222	34	27
2....	335	206	58	40	70	60	137	314	249	222	31	25
3....	238	189	55	40	70	60	186	276	217	290	29	18
4....	257	184	55	40	71	60	150	314	276	263	30	15
5....	516	178	90	40	97	48	141	370	354	222	29	15
6....	299	172	66	45	103	54	162	379	362	201	29	17
7....	225	150	58	50	107	56	256	362	298	212	28	20
8....	219	137	60	55	100	60	338	330	322	201	27	28
9....	560	137	83	55	94	65	442	354	338	191	25	44
10....	133	116	128	60	89	60	397	338	314	236	94	38
11....	69	137	76	60	63	60	397	354	256	206	189	38
12....	141	133	76	55	79	63	346	379	222	170	71	36
13....	313	104	51	60	87	62	346	442	354	154	268	34
14....	313	86	55	55	97	67	379	460	346	418	103	30
15....	313	83	52	60	100	65	379	442	397	110	87	24
16....	292	83	48	45	97	65	362	379	379	79	74	23
17....	244	79	83	40	84	81	222	370	370	74	65	29
18....	206	76	79	40	79	103	270	388	362	67	48	29
19....	212	66	72	40	74	94	263	415	354	63	41	29
20....	167	60	60	55	71	81	263	406	322	58	35	31
21....	178	58	69	50	107	79	283	388	306	54	34	30
22....	161	69	63	45	94	81	298	397	290	47	28	28
23....	219	76	51	45	76	89	338	306	263	47	28	17
24....	232	66	48	50	50	103	346	314	229	47	27	17
25....	277	69	43	50	52	175	330	346	222	46	24	16
26....	270	69	27	55	47	81	298	362	222	41	23	17
27....	244	72	63	60	48	81	256	362	229	38	21	15
28....	232	79	63	60	48	113	263	338	222	46	18	15
29....	251	116	69	60	67	58	249	322	229	42	17	14
30....	251	93	45	65	....	79	306	314	236	38	23	9
31....	206	....	40	66	....	107	....	330	....	36	34	....
Total	8713	3355	1969	1581	2286	2374	8519	11173	8830	4141	1614	728
Mean.	281	112	63.5	51.0	78.8	76.6	284	360	294	134	52.1	24.3
Max..	1140	212	128	....	107	175	442	460	397	418	268	44
Min...	69	58	27	....	47	48	116	276	217	36	17	9
Acre-ft.	17300	6660	3900	3140	4530	4710	16900	22100	17500	8240	3200	1450

Discharge of Purgatoire River Near Mouth for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	8	8	26	37	40	35	9	8	14	18	860	302
2....	7	10	27	40	20	37	8	12	10	18	238	327
3....	8	17	23	30	13	32	8	10	12	21	774	489
4....	8	12	23	42	22	23	18	8	13	996	489	238
5....	8	13	19	47	14	31	8	7	16	356	*1900	369
6....	8	12	25	41	10	26	7	6	15	180	3060	249
7....	7	20	32	38	12	20	5	6	40	77	4220	199
8....	7	23	26	34	7	20	9	7	*1350	42	3940	*761
9....	7	23	19	34	10	15	8	7	*1940	42	1920	369
10....	8	19	15	34	14	15	8	9	536	27	1460	254
11....	9	17	17	33	14	15	7	6	413	2060	454	284
12....	9	17	22	28	14	15	6	8	313	718	398	*627
13....	9	20	23	34	14	15	7	9	271	2100	*6370	348
14....	9	20	22	25	18	15	7	14	220	612	638	302
15....	8	19	34	20	33	15	7	13	136	1040	526	390
16....	7	25	36	21	17	10	7	12	*1230	664	*1300	*1320
17....	8	25	30	25	18	10	8	13	5650	2420	*6680	*1360
18....	7	26	32	35	20	10	7	13	2690	648	*6840	*1910
19....	7	26	25	38	30	10	7	14	2410	1740	4260	3270
20....	7	23	23	44	38	10	9	19	2150	761	3270	1010
21....	8	23	19	34	34	10	6	*771	4200	1140	2320	517
22....	8	23	21	25	41	10	6	380	2130	339	*3950	398
23....	7	23	26	32	40	10	6	28	1500	418	12700	290
24....	8	28	39	35	38	9	10	20	1140	266	*7520	238
25....	8	28	50	37	35	14	10	17	928	118	3270	226
26....	8	29	47	30	33	20	7	18	841	170	786	296
27....	9	32	22	28	34	26	7	21	571	5250	638	226
28....	9	27	25	32	37	6	14	23	432	1380	*970	204
29....	9	27	30	18	....	7	15	42	356	978	1050	179
30....	8	25	32	27	....	6	13	60	92	387	446	141
31....	9	....	30	42	....	8	....	20	....	157	383	....
Total	247	640	840	1020	670	505	254	1601	31637	25643	83630	17093
Mean.	7.97	21.3	27.1	32.9	23.9	16.3	8.47	51.7	1050	827	2700	570
Max..	9	32	50	47	41	37	18	771	5650	....	12700	3270
Min...	7	8	15	18	7	6	5	6	10	18	238	141
Acre-ft.	490	1270	1670	2020	1330	1000	504	3180	62500	50800	166000	33900

Unless otherwise noted, all discharges are in cubic feet second.

Discharge of Purgatoire River Near Mouth for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	174	406	70	75	290	86	210	72	94	1	2	1
2....	116	376	92	72	298	90	179	42	122	3	2	1
3....	395	369	95	57	140	57	217	60	75	3	7	1
4....	296	398	105	100	99	48	217	64	36	4	19	1
5....	1950	430	95	99	104	21	224	64	19	28	34	1
6....	1960	369	129	64	258	25	300	57	23	35	33	1
7....	1700	302	116	50	190	21	532	45	25	19	12	1
8....	266	278	95	53	168	25	338	47	4	16	5	1
9....	506	272	112	50	117	30	461	50	7	12	3	1
10....	4460	308	154	80	168	60	450	28	9	13	3	1
11....	1710	296	226	75	146	36	481	28	11	20	39	1
12....	526	169	179	83	146	15	491	28	11	119	544	1
13....	585	159	141	112	204	9	481	45	15	130	748	1
14....	898	272	150	112	179	23	491	21	15	62	145	1
15....	823	243	146	108	179	25	356	11	11	336	187	1
16....	751	232	137	94	258	25	290	15	33	356	217	1
17....	811	210	150	94	306	35	356	21	31	232	115	1
18....	606	226	146	75	298	117	402	23	15	62	62	1
19....	454	221	46	50	204	68	210	50	17	28	22	1
20....	390	194	58	53	224	68	224	79	4	12	10	1
21....	383	221	58	50	231	94	179	384	4	3	6	1
22....	390	129	58	86	238	135	174	86	4	3	6	1
23....	308	129	61	72	190	135	130	25	5	2	6	1
24....	302	88	53	72	217	99	108	72	19	6	7	1
25....	526	92	56	72	224	68	94	90	13	4	9	1
26....	898	129	67	53	190	47	90	94	9	3	6	1
27....	659	109	58	112	179	72	184	86	9	3	3	1
28....	555	102	78	140	90	274	190	108	9	3	3	1
29....	545	112	75	210	86	481	135	112	9	3	2	1
30....	462	72	75	258	....	274	99	146	28	1	1	1
31....	454	....	75	258	....	217	....	117	....	0	1	....
Total	24859	6913	3156	2939	5621	2780	8293	2170	686	1522	2259	30
Mean.	802	230	102	94.8	194	89.7	276	70.0	22.9	49.1	72.9	1.00
Max..	4460	430	226	....	306	481	....	384	122	356	748	1
Min...	116	72	53	....	86	9	90	11	4	0	1	1
Acre-ft.	49200	13700	6270	5830	11200	5520	16400	4300	1360	3020	4480	60

Discharge of Whiskey Creek at Trinidad Water Works for 1923.

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1....	....	....	....	....	....	....	20	9.6	15	8.7	9.1	6.1
2....	....	....	....	....	....	....	27	10.	16	9.1	8.4	5.4
3....	....	....	....	....	....	....	26	9.1	16	8.7	8.4	5.0
4....	....	....	....	....	....	....	20	12.	14	8.7	9.1	5.0
5....	....	....	....	....	....	....	18	9.1	15	8.7	9.1	5.0
6....	....	....	....	....	....	....	20	11.	14	9.1	9.1	5.0
7....	....	....	....	....	....	....	20	13	11	9.1	10	5.0
8....	....	....	....	....	....	....	22	13	11	9.1	10	4.5
9....	....	....	....	....	....	....	20	14	11	10	9.1	4.5
10....	....	....	....	....	....	....	19	14	10	11	8.0	4.5
11....	....	....	....	....	....	....	20	14	9.1	9.1	7.6	4.0
12....	....	....	....	....	....	....	21	16	9.1	9.1	6.9	4.0
13....	....	....	....	....	....	....	20	16	8.7	9.1	7.6	4.0
14....	....	....	....	....	....	....	20	16	8.4	9.1	8.4	4.0
15....	....	....	....	....	....	....	20	16	9.1	9.1	7.6	4.0
16....	....	....	....	....	....	....	19	16	8.4	7.6	7.6	4.0
17....	....	....	....	....	....	....	18	21	7.6	7.6	8.4	4.0
18....	....	....	....	....	....	....	18	24	8.7	8.7	8.4	4.0
19....	....	....	....	....	....	....	19	24	8.4	9.6	7.6	4.0
20....	....	....	....	....	....	....	18	32	8.4	8.7	6.1	4.0
21....	....	....	....	....	....	....	16	34	9.6	8.7	6.1	3.5
22....	....	....	....	....	....	....	14	32	8.4	8.7	5.4	3.5
23....	....	....	....	....	....	....	13	21	9.1	9.6	5.4	3.5
24....	....	....	....	....	....	....	13	21	9.6	9.6	5.4	3.5
25....	....	....	....	....	....	....	13	23	9.1	10	5.4	3.5
26....	....	....	....	....	....	....	13	22	9.6	9.1	6.1	3.0
27....	....	....	....	....	....	....	14	22	9.6	8.4	5.4	3.0
28....	....	....	....	....	....	....	12	21	9.6	9.1	6.1	3.0
29....	....	....	....	....	....	....	12	20	9.6	8.4	6.1	3.0
30....	....	....	....	....	....	....	12	22	9.1	9.1	5.4	3.0
31....	....	....	....	....	....	....	12	19	....	9.1	....	3.0
Total	....	....	....	....	....	....	549	566.8	312.2	279.7	223.3	125.5
Mean.	....	....	....	....	....	....	17.7	18.3	10.4	9.02	7.44	4.05
Max..	....	....	....	....	....	....	27	34	16	11	10	....
Min...	....	....	....	....	....	....	12	9.1	7.6	7.6	5.4	....
Acre-ft.	....	....	....	....	....	....	1090	1130	619	555	443	249

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Cherry Creek at Trinidad Water Works for 1923.

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	....	....	....	....	0.6	0.3	1.2	0.4	1.1	0.3
2	....	....	....	....	....	....	0.6	0.3	0.9	0.5	1.1	0.3
3	....	....	....	....	....	....	0.6	0.2	1.1	0.4	1.0	0.3
4	....	....	....	....	....	....	0.6	0.3	0.8	0.4	1.0	0.2
5	....	....	....	....	....	....	0.6	0.2	0.8	0.4	1.0	0.2
6	....	....	....	....	....	....	0.5	0.3	0.8	0.4	1.1	0.2
7	....	....	....	....	....	....	0.6	0.2	0.7	0.4	1.0	0.2
8	....	....	....	....	....	....	0.5	0.2	0.7	0.4	0.9	0.2
9	....	....	....	....	....	....	0.6	0.2	0.6	0.5	0.8	0.2
10	....	....	....	....	....	....	0.6	0.2	0.6	0.6	0.8	0.2
11	....	....	....	....	....	....	1.2	0.2	0.6	0.6	0.7	0.2
12	....	....	....	....	....	....	0.6	1.1	0.6	0.7	0.6	0.2
13	....	....	....	....	....	....	0.7	0.6	0.6	0.8	0.7	0.2
14	....	....	....	....	....	....	0.5	0.5	0.6	0.8	0.7	0.2
15	....	....	....	....	....	....	0.7	2.0	0.6	0.8	0.6	0.2
16	....	....	....	....	....	....	0.8	2.0	0.5	0.8	0.8	0.2
17	....	....	....	....	....	....	0.3	2.7	0.7	0.8	0.7	0.2
18	....	....	....	....	....	....	0.5	3.0	0.8	0.9	0.6	0.2
19	....	....	....	....	....	....	0.8	3.0	0.8	0.9	0.5	0.2
20	....	....	....	....	....	....	0.9	2.4	0.7	0.8	0.5	0.2
21	....	....	....	....	....	....	0.9	2.3	0.5	1.4	0.4	0.2
22	....	....	....	....	....	....	0.6	2.5	0.5	1.4	0.4	0.2
23	....	....	....	....	....	....	0.5	2.2	0.5	1.4	0.4	0.2
24	....	....	....	....	....	....	0.5	2.2	0.8	1.5	0.4	0.2
25	....	....	....	....	....	....	0.4	1.8	0.4	1.5	0.3	0.2
26	....	....	....	....	....	....	0.4	1.8	0.4	1.3	0.3	0.2
27	....	....	....	....	....	....	0.6	1.5	0.5	1.2	0.2	0.2
28	....	....	....	....	....	....	0.4	1.5	0.4	1.3	0.2	0.2
29	....	....	....	....	....	....	0.4	1.4	0.5	1.3	0.3	0.2
30	....	....	....	....	....	....	0.3	1.3	0.4	1.2	0.3	0.2
31	....	....	....	....	....	....	0.3	1.2	....	1.2	....	0.2
Total	....	....	....	....	....	....	18.1	39.6	19.6	27.0	19.4	6.5
Mean.	....	....	....	....	....	....	0.58	1.28	0.65	0.87	0.65	0.21
Acre-ft.	....	....	....	....	....	....	36	79	39	53	39	13

Discharge of Brown Creek at Trinidad Water Works for 1923.

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	....	....	....	....	0.4	0.9	2.9	2.8	2.9	2.9
2	....	....	....	....	....	....	0.4	0.9	3.4	2.9	2.9	2.9
3	....	....	....	....	....	....	0.4	1.0	3.2	2.8	2.9	2.9
4	....	....	....	....	....	....	0.4	0.9	2.8	2.8	2.9	2.9
5	....	....	....	....	....	....	0.4	1.0	2.8	2.6	2.9	2.9
6	....	....	....	....	....	....	0.4	1.0	2.8	2.8	2.9	2.6
7	....	....	....	....	....	....	0.4	1.0	2.5	2.8	2.9	2.6
8	....	....	....	....	....	....	0.4	1.0	2.5	2.9	2.9	2.6
9	....	....	....	....	....	....	0.5	1.3	2.5	2.9	2.9	2.6
10	....	....	....	....	....	....	0.3	1.0	2.4	2.9	2.9	2.6
11	....	....	....	....	....	....	0.9	1.2	2.4	2.9	2.9	2.6
12	....	....	....	....	....	....	0.6	2.6	2.4	2.9	2.9	2.6
13	....	....	....	....	....	....	0.6	2.6	2.3	2.9	2.9	2.6
14	....	....	....	....	....	....	0.9	2.6	2.3	2.9	2.9	2.6
15	....	....	....	....	....	....	0.9	2.6	2.3	3.0	2.9	2.6
16	....	....	....	....	....	....	1.0	2.6	2.3	3.0	2.9	2.5
17	....	....	....	....	....	....	1.0	2.9	2.6	3.2	2.9	2.5
18	....	....	....	....	....	....	1.0	3.8	2.6	3.4	2.9	2.4
19	....	....	....	....	....	....	1.4	8.9	2.5	3.4	2.9	2.1
20	....	....	....	....	....	....	1.4	7.2	2.8	3.2	2.9	2.1
21	....	....	....	....	....	....	1.0	5.8	2.3	3.0	2.9	2.1
22	....	....	....	....	....	....	1.0	5.8	2.2	3.2	2.6	1.2
23	....	....	....	....	....	....	1.0	5.8	2.2	3.2	2.6	1.2
24	....	....	....	....	....	....	1.0	5.0	2.8	3.4	2.6	1.2
25	....	....	....	....	....	....	0.9	5.0	2.8	3.4	2.6	0.9
26	....	....	....	....	....	....	1.1	4.4	2.8	3.2	2.6	0.9
27	....	....	....	....	....	....	1.1	4.1	2.8	3.2	2.6	0.9
28	....	....	....	....	....	....	0.9	3.8	2.8	3.2	2.6	0.5
29	....	....	....	....	....	....	1.0	3.4	2.8	3.2	2.6	0.5
30	....	....	....	....	....	....	0.9	3.6	2.8	3.2	2.9	0.5
31	....	....	....	....	....	....	0.9	3.4	....	2.9	....	0.5
Total	....	....	....	....	....	....	24.5	97.1	78.6	94.1	84.6	62.5
Mean.	....	....	....	....	....	....	0.79	3.13	2.62	3.04	2.82	2.02
Max..	....	....	....	....	....	....	1.4	8.9	3.4	3.4	2.9	....
Min...	....	....	....	....	....	....	0.3	0.9	2.2	2.6	2.6	....
Acre-ft.	....	....	....	....	....	....	49	192	156	187	168	124

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork of Purgatoire River at Trinidad Water Works for 1923.

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1....	....	....	....	....	....	....	35	20	28	23	21	13
2....	....	....	....	....	....	....	35	24	28	24	21	14
3....	....	....	....	....	....	....	35	19	28	24	21	13
4....	....	....	....	....	....	....	34	20	26	23	20	13
5....	....	....	....	....	....	....	33	18	25	23	20	13
6....	....	....	....	....	....	....	33	18	24	24	20	13
7....	....	....	....	....	....	....	32	19	24	24	21	13
8....	....	....	....	....	....	....	34	17	24	24	20	13
9....	....	....	....	....	....	....	31	17	22	25	19	13
10....	....	....	....	....	....	....	32	18	22	25	19	13
11....	....	....	....	....	....	....	38	19	22	25	19	13
12....	....	....	....	....	....	....	40	30	22	23	19	13
13....	....	....	....	....	....	....	39	27	22	23	19	13
14....	....	....	....	....	....	....	35	26	22	23	19	13
15....	....	....	....	....	....	....	35	28	22	23	20	13
16....	....	....	....	....	....	....	34	32	20	22	18	13
17....	....	....	....	....	....	....	32	35	23	22	18	12
18....	....	....	....	....	....	....	32	35	24	22	18	12
19....	....	....	....	....	....	....	33	44	24	22	19	12
20....	....	....	....	....	....	....	34	43	24	22	17	12
21....	....	....	....	....	....	....	33	44	22	22	17	12
22....	....	....	....	....	....	....	32	44	22	21	17	12
23....	....	....	....	....	....	....	27	38	22	21	17	12
24....	....	....	....	....	....	....	26	36	27	22	17	12
25....	....	....	....	....	....	....	25	34	25	22	14	12
26....	....	....	....	....	....	....	24	32	25	22	15	12
27....	....	....	....	....	....	....	26	32	24	22	15	12
28....	....	....	....	....	....	....	27	30	24	19	16	12
29....	....	....	....	....	....	....	22	30	24	19	16	10
30....	....	....	....	....	....	....	20	30	23	19	14	10
31....	....	....	....	....	....	....	20	29	....	19	....	10
Total	....	....	....	....	....	....	968	888	714	694	546	383
Mean.	....	....	....	....	....	....	31.2	28.6	23.8	22.4	18.2	12.4
Max..	....	....	....	....	....	....	40	44	28	25	21	....
Min...	....	....	....	....	....	....	20	17	20	19	14	....
Acre-ft.	....	....	....	....	....	....	1920	1760	1420	1380	1080	762

Discharge of Middle Fork of Purgatoire River at Vigil for 1923.

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1....	....	....	....	....	....	....	37	41	22	31	31	25
2....	....	....	....	....	....	....	37	30	29	26	32	25
3....	....	....	....	....	....	....	38	26	31	26	31	24
4....	....	....	....	....	....	....	39	45	36	35	32	24
5....	....	....	....	....	....	....	40	38	33	35	31	24
6....	....	....	....	....	....	....	40	43	34	36	31	25
7....	....	....	....	....	....	....	42	48	34	36	24	25
8....	....	....	....	....	....	....	41	48	34	41	24	24
9....	....	....	....	....	....	....	40	41	33	42	23	24
10....	....	....	....	....	....	....	52	21	33	33	32	24
11....	....	....	....	....	....	....	54	22	34	31	31	22
12....	....	....	....	....	....	....	88	124	35	33	26	22
13....	....	....	....	....	....	....	70	41	35	34	26	22
14....	....	....	....	....	....	....	53	47	34	35	24	20
15....	....	....	....	....	....	....	56	43	35	36	24	20
16....	....	....	....	....	....	....	60	48	35	31	24	20
17....	....	....	....	....	....	....	103	500	35	26	24	18
18....	....	....	....	....	....	....	186	51	36	26	24	18
19....	....	....	....	....	....	....	184	49	43	26	22	18
20....	....	....	....	....	....	....	60	270	36	26	22	16
21....	....	....	....	....	....	....	56	217	35	26	23	16
22....	....	....	....	....	....	....	56	138	35	25	24	16
23....	....	....	....	....	....	....	54	51	39	26	24	16
24....	....	....	....	....	....	....	31	48	35	26	24	14
25....	....	....	....	....	....	....	40	48	33	31	24	14
26....	....	....	....	....	....	....	40	51	33	31	24	14
27....	....	....	....	....	....	....	57	47	33	33	24	14
28....	....	....	....	....	....	....	63	46	33	31	25	12
29....	....	....	....	....	....	....	38	47	26	31	25	12
30....	....	....	....	....	....	....	42	45	27	32	24	10
31....	....	....	....	....	....	....	37	28	....	32	....	10
Total	....	....	....	....	....	....	1834	2342	1006	969	779	588
Mean.	....	....	....	....	....	....	59.2	75 5	33.5	31.3	26	19
Max..	....	....	....	....	....	....	186	500	43	42	32	....
Min...	....	....	....	....	....	....	31	21	22	25	22	....
Acre-ft.	....	....	....	....	....	....	3640	4640	1990	1920	1550	1170

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of South Fork of Purgatoire River at Weston for Year 1923.

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1....	....	....	....	....	....	....	60	23	46	36	23	19
2....	....	....	....	....	....	....	63	24	46	61	23	19
3....	....	....	....	....	....	....	65	24	41	35	23	19
4....	....	....	....	....	....	....	64	34	38	33	22	19
5....	....	....	....	....	....	....	21	36	48	50	22	18
6....	....	....	....	....	....	....	22	39	36	40	22	22
7....	....	....	....	....	....	....	26	42	36	34	19	15
8....	....	....	....	....	....	....	22	47	30	34	19	15
9....	....	....	....	....	....	....	21	41	22	39	19	15
10....	....	....	....	....	....	....	69	38	20	38	19	15
11....	....	....	....	....	....	....	103	34	20	34	19	15
12....	....	....	....	....	....	....	116	218	19	34	19	15
13....	....	....	....	....	....	....	104	67	19	37	19	15
14....	....	....	....	....	....	....	73	62	20	37	20	15
15....	....	....	....	....	....	....	73	61	34	36	18	12
16....	....	....	....	....	....	....	61	116	76	36	16	12
17....	....	....	....	....	....	....	57	182	83	36	16	12
18....	....	....	....	....	....	....	100	249	123	31	16	12
19....	....	....	....	....	....	....	73	136	83	31	18	12
20....	....	....	....	....	....	....	44	123	70	31	18	12
21....	....	....	....	....	....	....	46	106	62	30	18	10
22....	....	....	....	....	....	....	39	182	56	30	20	10
23....	....	....	....	....	....	....	35	98	55	30	20	10
24....	....	....	....	....	....	....	32	83	49	30	20	10
25....	....	....	....	....	....	....	26	76	49	30	20	10
26....	....	....	....	....	....	....	29	67	48	30	19	10
27....	....	....	....	....	....	....	34	63	43	29	19	10
28....	....	....	....	....	....	....	36	59	42	29	18	10
29....	....	....	....	....	....	....	34	55	42	29	18	8
30....	....	....	....	....	....	....	23	48	42	24	18	8
31....	....	....	....	....	....	....	23	46	....	24	....	8
Total	....	....	....	....	....	....	1594	2479	1398	1058	580	412
Mean.	....	....	....	....	....	....	51.4	80	46.6	34.1	19.3	13.3
Max..	....	....	....	....	....	....	116	249	123	61	23	....
Min...	....	....	....	....	....	....	21	23	19	24	16	....
Acre-ft.	....	....	....	....	....	....	3160	4920	2770	2100	1150	818

Discharge of Wild Horse Creek at Mouth Near Holly for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	4	6	5	1	14	11	3.4	66	1.8
2....	....	....	....	4	6	....	1	10	9.2	1.3	53	.1
3....	....	....	....	4	6	....	1	7.2	6.6	.5	73	0
4....	....	....	....	4	6	....	.5	9.4	5.2	.1	74	0
5....	....	....	....	4	6	....	.4	9.2	2.7	.1	172	.1
6....	....	....	....	29	6	....	.2	10	.7	.1	154	.1
7....	....	....	....	24	38	....	.2	9.2	5.2	.1	107	.1
8....	....	....	....	34	51	....	.2	7.2	96	.5	201	.1
9....	....	....	....	12	26	....	.2	6.6	20	9.7	74	0
10....	....	....	6	7	26	....	.2	5.8	14	.5	54	0
11....	....	....	....	4	7	....	.2	5	43	2.5	19	0
12....	....	....	....	4	8	....	.2	3.2	62	3.6	15	0
13....	....	....	....	4	9	....	.4	5.8	76	.5	17	0
14....	....	....	....	4	10	....	.2	31	97	1.6	48	0
15....	....	....	....	4	10	....	1.5	11	62	17	42	0
16....	....	....	....	4	10	....	2.7	7.2	98	6.6	32	.1
17....	....	....	....	4	10	....	.5	4.4	98	17	43	5.2
18....	....	....	50	4	10	....	.2	5.8	106	21	74	75
19....	....	....	....	4	20	....	1.6	4.4	114	50	67	48
20....	....	....	62	4	20	....	.5	5.2	70	55	48	137
21....	....	....	60	4	25	....	.2	6.1	84	40	4.7	67
22....	....	....	60	4	14	....	.2	7.5	99	55	6.1	119
23....	....	....	60	4	8	....	1.6	36	45	55	2.2	119
24....	....	....	....	4	8	....	5	7.5	51	49	2	136
25....	....	....	....	4	6	....	1.3	8	57	36	2	59
26....	....	....	....	4	6	....	10	7.5	51	14	8.6	47
27....	....	....	30	5	6	....	9.7	6.4	91	36	6.9	31
28....	....	....	....	5	6	....	41	6.4	34	36	6.9	19
29....	....	....	....	5	....	....	31	8.6	23	62	5.5	14
30....	....	....	....	5	....	....	22	15	12	66	6.6	12
31....	....	....	....	5	....	1	....	27	....	66	5.2	....
Total	....	....	....	215	370	....	134.9	307.6	1543.6	706.3	1479.6	890.6
Mean.	6.20	7.50	16.6	6.93	13.2	3	4.50	9.92	51.5	22.8	47.7	29.7
Max..	....	....	....	....	....	....	41	36	114	66	201	137
Min...	....	....	....	....	....	....	0.2	3.2	0.7	0.1	2	0
Acre-ft.	381	446	1020	426	733	184	268	610	3060	1400	2930	1770

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Wild Horse Creek at Mouth Near Holly for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	30	9.2	79	....	....	0	1	6	6	0	0	0
2....	43	9.2	52	....	....	0	4	0	10	0	0	0
3....	35	9.2	18	....	....	0	2	0	4	0	0	0
4....	43	9.2	13	....	....	0	2	4	4	0	0	0
5....	112	9.2	3.9	....	....	0	2	0	2	0	0	0
6....	128	6.4	3.9	....	....	0	1	4	1	0	0	0
7....	64	6.1	6.1	....	....	0	0	0	0	0	0	0
8....	63	3.4	9.4	....	....	0	0	0	0	5	0	0
9....	77	3.4	6.6	....	....	0	0	0	0	82	0	0
10....	216	5.8	6.6	....	....	0	0	0	0	6	2	0
11....	90	5.8	8	....	....	0	0	0	4	1	69	0
12....	70	5.8	9.4	....	....	0	0	0	0	0	1	2
13....	76	5.8	5	....	....	0	0	0	129	1	0	0
14....	62	5.5	17	....	....	0	0	0	182	0	0	0
15....	20	5.5	25	....	....	0	0	0	60	0	0	2
16....	15	5.5	9.2	....	....	0	28	0	129	0	0	2
17....	5.2	5.2	6.1	....	....	0	129	0	146	17	0	3
18....	5.2	5.2	3.4	....	....	0	105	0	150	30	0	2
19....	3.7	8	3.4	....	....	0	129	0	67	23	0	67
20....	7.8	7.8	8.9	....	....	0	40	0	67	13	0	0
21....	3.7	7.8	1.3	....	....	0	28	0	129	10	0	0
22....	7.5	7.8	3.4	....	....	0	6	6	60	6	0	0
23....	7.5	5	1	....	....	0	46	10	60	4	0	0
24....	10	4.7	1	....	....	0	6	10	13	2	0	0
25....	41	8.9	1	....	....	0	6	6	46	3	0	0
26....	14	81	1	....	....	1	6	6	13	2	0	0
27....	9.7	118	1	....	....	28	4	8	4	0	0	0
28....	9.7	41	1	....	....	6	4	4	0	0	0	0
29....	9.4	26	1	....	....	10	4	0	0	0	0	0
30....	9.4	22	1	....	....	1	4	6	0	0	0	0
31....	9.4	....	1	....	....	0	....	60	....	0	0	....
Total	1297.2	453.4	307.6	102	20	46	557	130	1286	205	72	78
Mean.	41.8	15.1	9.92	3.29	0.69	1.48	18.6	4.19	42.9	6.61	2.32	2.60
Max..	216	118	79	....	....	....	....	....	....	....	....	....
Min...	3.7	3.4	....	....	....	....	....	....	....	....	....	....
Acre-ft.	2570	898	610	202	40	91	1110	258	2550	406	143	155

Unless otherwise noted, all discharges are in cubic feet per second.

RIO GRANDE DRAINAGE

RIO GRANDE AT THIRTY MILE BRIDGE ABOVE CREEDE

Location—In Sec. 13, T. 40 N., R. 4 W., about 30 miles southwest of Creede at Rio Grande reservoir.
Records Available—June 18, 1909, to September 30, 1923.
Gage—Vertical staff gage.
Accuracy—Records considered fair.
Co-operation—Station maintained in co-operation with Farmers Union Reservoir Company.

RIO GRANDE AT WASSON BELOW CREEDE

Location—In Sec. 8, T. 41 N., R. 1 E., three miles southeast of Creede.
Records Available—April 24, 1907, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

RIO GRANDE NEAR DEL NORTE

Location—In Sec. 30, T. 40 N., R. 5 E., six miles west of Del Norte. From October 11, 1889, to November 30, 1906, a station was maintained four miles below the present station.
Records Available—October 11, 1889, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

RIO GRANDE AT ALAMOSA

Location—At concrete bridge in Alamosa.
Records Available—May 15, 1912, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

RIO GRANDE NEAR LOBATOS

Location—In Sec. 22, T. 33 N., R. 11 E., six miles north of the State line.
Records Available—June 28, 1899, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

PINOS CREEK NEAR DEL NORTE

Location—In Sec. 32, T. 39 N., R. 5 E., at Kernens ranch below the mouth of Bennett Creek.
Records Available—May 1, 1919, to September 30, 1924.
Gage—Vertical staff gage.
Accuracy—Records considered good.

ROCK CREEK NEAR MONTE VISTA

Location—In Sec. 32, T. 38 N., R. 7 E., nine miles southwest of Monte Vista.

Records Available—April 1, 1919, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

ALAMOSA RIVER BELOW TERRACE RESERVOIR

Location—One-fourth mile below Terrace dam in Sec. 23, T. 36 N., R. 6 E.

Records Available—April 18, 1909, to November 30, 1912; April 1, 1915, to October 31, 1915; February 1, 1917, to October 31, 1920; April 1, 1922, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with Terrace Irrigation Company.

ALAMOSA RIVER ABOVE TERRACE RESERVOIR

Location—Four miles above Terrace dam in Sec. 8, T. 36 N., R. 6 E.

Records Available—April 25, 1914, to October 31, 1919; October 1, 1923, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with Terrace Irrigation Company.

LA JARA CREEK NEAR CAPULIN

Location—In Sec. 21, T. 34 N., R. 7 E., eleven miles above Capulin. Station prior to 1924 was located two miles south of this point.

Records Available—April, 1916, to November 30, 1917; April 1, 1919, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

TRINCHERA CREEK ABOVE TURNER'S RANCH NEAR FORT GARLAND

Location—In Sec. 2, T. 31 S., R. 71 W., just above Turner's ranch.

Records Available—April 1, 1923, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

TRINCHERA CREEK ABOVE MOUNTAIN HOME RESERVOIR NEAR FORT GARLAND

Location—In Sec. 31, T. 30 S., R. 71 W., just above Mountain Home reservoir.
Records Available—May 1, 1923, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

SANGRE DE CHRISTO CREEK NEAR FORT GARLAND

Location—In Sec. 23, T. 30 S., R. 72 W., one and one-half miles east of Fort Garland.
Records Available—March 15 to October 9, 1916; May 1, 1923, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

UTE CREEK NEAR FORT GARLAND

Location—In Sec. 2, T. 30 S., R. 72 W,. about two and one-half miles northeast of Fort Garland.
Records Available—March 16 to October 8, 1916; May 1, 1923, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

CONEJOS RIVER NEAR MOGOTE

Location—In Sec. 34, T. 33 N., R. 7 E., five miles west of Mogote.
Records Available—September 1, 1899, to March 31, 1900, and April 17, 1903, to October 31, 1905, at a point one mile below present station. March 21, 1907, to October 5, 1911, three miles above present station. January 1, 1912, to September 30, 1924, at present station.
Gage—Automatic recording gage.
Accuracy—Records considered good.

CONEJOS RIVER AT MOUTH NEAR LA SAUSES

Location—In Sec. 2, T. 35 N., R. 11 E., about two miles above mouth.
Records Available—March 29, 1921, to September 30, 1924.
Gage—Two automatic recording gages.
Accuracy—Records considered good.

SAN ANTONIO RIVER AT MOUTH NEAR MANASSA

Location—In Sec. 21, T. 34 N., R. 10 E., two and one-half miles east of Manassa on highway bridge.
Records Available—April 1, 1923, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

CULEBRA RIVER NEAR CHAMA

Location—In NW¼ Sec. 2, T. 2 N., R 71 W.
Records Available—April 21 to September 30, 1924. Records at San Luis May 1, 1909, to September 2, 1919.
Gage—Automatic recording gage.
Accuracy—Records considered fair.

LA GARITA CREEK NEAR LA GARITA

Location—In Sec. 10, T. 41 N., R. 6 E., five miles southwest of La Garita Post Office.
Records Available—April 1, 1919, to September 30, 1924.
Gage—Vertical staff.
Accuracy—Results considered good.

CARNERO CREEK NEAR LA GARITA

Location—In Sec. 26, T. 42 N., R. 6 E., three miles northwest of La Garita.
Records Available—April 1, 1919, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

SAGUACHE CREEK NEAR SAGUACHE

Location—In Sec. 14, T. 45 N., R. 6 E., at Ward's ranch, ten miles west of Saguache.
Records Available—August 7, 1910, to September 23, 1912; June 1, 1914, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

KERBER CREEK NEAR VILLA GROVE

Location—In Sec. 7, T. 46 N., R. 8 E., ten miles west of Villa Grove.
Records Available—October 19, 1911, to June 30, 1912; June 1, 1923, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

SAN LUIS CREEK NEAR VILLA GROVE

Location—In Sec. 8, T. 48 N., R. 10 E., two miles southeast of Villa Grove and below mouth of Kerber Creek.
Records Available—April 1, 1922, to September 30, 1924. During 1910 to 1912 a station was maintained just above the mouth of Kerber Creek.
Gage—Staff gage.
Accuracy—Records considered good.

Discharge of Rio Grande at Thirty Mile Bridge for Year Ending September 30, 1923.
Drainage Area, 163 Square Miles. Altitude, 9,380 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	48	106	...	...	...	...	12	357	3	772	642	74
2....	48	41	...	...	...	...	12	416	3	674	642	74
3....	48	41	...	...	...	...	12	416	3	551	642	74
4....	48	41	...	...	...	...	12	416	3	522	642	74
5....	48	...	...	...	...	...	12	416	3	522	642	74
6....	48	...	...	...	...	...	14	416	3	522	680	74
7....	48	...	...	...	...	...	14	522	12	706	680	74
8....	48	...	...	...	...	...	14	840	12	1010	680	74
9....	48	...	...	...	...	...	14	840	22	875	630	74
10....	48	...	...	...	...	...	14	840	22	840	580	74
11....	48	...	...	...	...	...	16	840	22	840	580	74
12....	48	...	...	...	...	...	16	840	173	820	611	74
13....	48	...	...	...	...	...	16	840	580	772	642	74
14....	48	...	...	...	...	...	16	611	924	786	642	74
15....	48	...	...	...	...	...	16	416	1150	806	642	74
16....	48	...	...	...	...	...	18	416	1210	706	642	74
17....	48	...	...	...	...	...	18	416	1160	706	642	74
18....	48	...	...	...	...	...	18	416	1120	746	479	74
19....	48	...	...	...	...	...	18	772	1090	792	344	74
20....	48	...	...	...	...	...	178	1210	1080	792	344	74
21....	48	...	...	...	...	...	178	840	1070	786	344	74
22....	208	...	...	...	...	...	232	840	994	687	178	74
23....	208	...	...	...	...	...	301	840	931	605	74	74
24....	208	...	...	...	...	...	301	840	910	655	74	22
25....	208	...	...	...	...	...	301	242	910	706	74	22
26....	198	...	...	...	...	...	301	12	910	706	74	22
27....	193	...	...	...	...	...	301	12	910	642	74	22
28....	193	...	...	...	...	...	301	12	910	580	74	22
29....	193	...	...	...	...	...	301	12	910	580	74	22
30....	193	...	...	...	...	...	301	12	910	580	74	22
31....	193	...	...	...	...	...	...	7	...	642	74	...
Total	3003	...	...	...	...	...	3278	15925	17960	21929	13216	1856
Mean.	96.8	16	10	10	10	10	109	514	599	707	426	61.9
Max..	208	...	...	...	...	...	...	1210	1210	1010	680	74
Min...	48	...	...	...	...	...	...	7	3	522	74	22
Acre-ft.	5950	952	615	615	555	615	6490	31600	35600	43500	26200	3680

Discharge of Rio Grande at Wasson for Year Ending September 30, 1923.
Drainage Area, 700 Square Miles. Altitude, 8,591 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	208	...	...	...	...	...	...	740	1740	1700	1200	520
2....	215	...	...	...	...	...	...	860	1800	1620	1200	520
3....	219	...	...	...	...	...	...	980	1860	1500	1180	452
4....	208	...	...	...	...	...	...	1250	1930	1420	1220	452
5....	193	...	...	...	...	...	...	1250	1680	1400	1220	466
6....	186	...	...	...	...	...	...	1200	1620	1350	1200	452
7....	182	...	...	...	...	...	...	1200	1560	1320	1250	401
8....	182	...	...	...	...	...	...	1350	1400	1400	1300	388
9....	182	...	...	...	...	...	...	1500	1300	1620	1400	376
10....	182	...	...	...	...	...	...	1680	1250	1500	1230	365
11....	182	...	...	...	...	...	...	1800	1400	1400	1230	353
12....	182	...	...	...	...	...	...	1740	1800	1350	1450	353
13....	182	...	...	...	...	...	...	1620	2270	1350	1430	353
14....	193	...	...	...	...	...	...	1620	2730	1300	1430	376
15....	200	...	...	...	...	...	...	1620	2890	1350	1430	414
16....	200	...	...	...	...	...	...	1450	2980	1300	1420	426
17....	193	...	...	...	...	...	...	1300	2730	1270	1350	452
18....	182	...	...	...	...	...	...	1450	2570	1300	1230	576
19....	182	...	...	...	...	...	...	1680	2350	1320	1110	534
20....	182	...	...	...	...	...	...	1930	2350	1350	1030	520
21....	193	...	...	...	...	...	...	2130	2200	1400	1020	520
22....	259	...	...	...	...	...	520	2130	1860	1220	876	520
23....	342	...	...	...	...	...	520	1930	1740	1110	804	772
24....	353	129	...	...	...	...	520	2200	1680	1130	772	980
25....	342	...	...	...	...	...	555	2650	2350	1220	590	860
26....	342	...	...	...	...	...	590	2810	2270	1250	520	820
27....	342	...	...	...	...	...	664	2420	2200	1300	520	740
28....	376	...	...	...	...	...	664	2350	2090	1300	520	664
29....	365	...	...	98	...	...	740	2200	1930	1250	520	627
30....	353	...	115	...	...	...	740	1930	1830	1110	520	590
31....	330	...	...	...	...	...	...	1930	...	1130	520	...
Total	7432	...	...	...	...	...	...	52900	60360	41540	32692	15842
Mean.	240	140	110	115	105	150	380	1710	2010	1340	1050	528
Max..	376	...	...	...	...	...	740	2810	2980	1700	1450	980
Min...	182	...	...	...	...	...	...	740	1250	1110	520	353
Acre-ft.	14800	8330	6760	7070	5830	9220	22600	105000	120000	82400	64600	31400

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande at Wasson for Year Ending September 30, 1924.
Drainage Area, 700 Square Miles...Altitude, 8,591 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	544	310	311	...	...	...	280	514	792	1410	1120	319
2....	550	310	298	...	...	...	280	586	840	1620	1090	324
3....	538	310	303	...	...	...	280	776	1400	1800	1060	315
4....	508	305	307	227	...	...	400	1000	1960	1670	1070	311
5....	496	305	315	...	...	...	560	1130	2100	1680	1080	307
6....	472	300	303	...	...	...	700	1060	2110	1800	1050	307
7....	442	310	311	...	...	...	660	1020	2320	1830	1020	307
8....	420	310	298	...	...	...	620	1300	2070	1710	993	294
9....	436	310	286	...	...	...	580	1670	1930	1550	957	279
10....	430	305	290	...	...	...	600	2140	2000	1570	939	303
11....	410	300	298	...	...	...	700	2510	2360	1500	939	290
12....	415	315	294	...	...	...	820	2930	3030	1300	930	260
13....	415	300	240	...	...	...	1000	3160	3810	1170	948	232
14....	395	300	240	...	...	...	1000	3570	4220	1180	984	218
15....	380	300	235	...	...	...	740	3440	4080	1190	939	212
16....	366	300	235	...	...	...	440	3320	3610	1210	867	215
17....	346	315	230	...	...	...	420	3490	3290	1200	849	232
18....	319	311	230	...	...	...	440	3710	2860	1090	924	218
19....	319	324	230	...	...	...	600	3570	2380	1040	688	212
20....	320	315	225	...	...	...	710	3650	1620	1060	680	208
21....	310	303	220	...	...	...	830	3610	1490	1040	688	202
22....	310	307	220	...	...	...	870	3270	1630	1020	680	202
23....	315	298	220	...	...	...	1100	3110	1600	1040	638	205
24....	320	307	220	124	124	...	1000	3070	1570	1080	604	205
25....	310	311	250	...	...	...	880	2210	1540	1130	580	202
26....	300	311	250	...	...	...	750	1560	1490	1180	562	202
27....	320	307	250	...	...	...	630	1310	1610	1240	556	199
28....	320	303	245	...	...	...	480	1180	1590	1340	550	202
29....	320	311	230	...	...	...	490	1010	1480	1250	550	202
30....	310	324	230	...	...	...	442	903	1410	1210	478	202
31....	310	...	230	...	...	...	...	800	...	1160	342	...
Total	11966	9237	8134	...	...	...	19302	66579	64192	41270	25355	7386
Mean.	386	308	259	180	125	180	643	2150	2140	1330	818	246
Max..	550	324	315	...	...	...	1100	3710	4220	1830	1120	324
Min...	300	298	220	...	...	...	280	514	792	1020	342	199
Acre-ft.	23700	18300	15900	11100	7190	11100	38300	132000	127000	81800	50300	14600

Discharge of Rio Grande near Del Norte for Year Ending September 30, 1923.
Drainage Area, 1,400 Square Miles. Altitude, 7,868 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	320	414	...	...	...	...	360	1120	3710	2770	1320	694
2....	320	388	...	...	...	...	360	1320	3710	2600	1460	718
3....	320	320	...	...	...	...	360	1760	3320	2350	1440	744
4....	320	326	...	...	...	...	360	2130	3820	2230	1430	727
5....	290	314	...	...	...	...	360	2350	3510	2170	1550	662
6....	279	224	...	...	...	...	360	2130	3320	2080	1440	646
7....	268	224	...	...	...	...	360	2200	3320	2080	1380	670
8....	279	256	...	...	...	...	369	2510	3220	2290	1480	600
9....	290	262	...	...	...	...	376	2680	3130	2290	1550	584
10....	290	279	...	...	...	...	414	2950	2860	2260	1530	554
11....	290	308	...	...	...	...	518	3130	2950	2080	1480	540
12....	279	234	...	...	...	...	554	3040	3320	2080	1630	518
13....	279	209	...	...	...	...	584	2600	3930	1870	1680	540
14....	279	209	...	...	...	...	592	2430	4490	1900	1690	525
15....	279	209	...	...	...	...	592	2130	4260	1840	1690	678
16....	290	234	...	...	...	...	607	2050	3720	1760	1730	694
17....	284	234	...	...	...	...	654	2200	4490	1720	1790	727
18....	279	234	...	...	...	...	880	2430	4260	1760	1690	952
19....	268	230	...	...	...	...	1020	2860	3710	1820	1630	970
20....	268	230	...	...	...	...	880	3410	3710	1840	1440	970
21....	262	225	...	...	...	...	925	4150	3610	1820	1400	970
22....	268	225	...	...	...	...	925	4150	3320	1600	1310	1020
23....	363	225	...	...	...	...	794	3510	3220	1450	1250	1250
24....	428	220	...	...	...	...	710	3820	3220	1400	1110	2110
25....	428	220	...	...	...	...	794	4610	3320	1480	990	1700
26....	428	220	...	...	...	...	794	5210	3410	1500	898	1440
27....	414	220	...	...	...	...	880	4840	3610	1550	811	1380
28....	428	220	...	...	...	...	837	4840	3320	1530	727	1270
29....	441	220	...	...	...	...	970	4260	3320	1360	727	1170
30....	428	220	...	...	...	...	1270	3820	3130	1290	727	1170
31....	428	...	...	...	...	...	...	3820	...	1270	727	...
Total	10087	7553	...	...	...	...	19459	94460	107590	58040	41707	27193
Mean.	325	252	226	208	190	260	649	3050	3590	1870	1350	906
Max..	428	414	...	...	...	...	1270	5210	4720	2770	1790	2110
Min...	262	209	...	...	...	...	360	1120	2860	1270	727	518
Acre-ft.	20000	15000	13900	12800	10600	16000	38600	188000	214000	115000	83000	53900

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande Near Del Norte for Year Ending September 30, 1924.
Drainage Area, 1,400 Square Miles. Altitude, 7,868 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1130	584	569	...	...	...	320	1070	1880	2020	1340	365
2....	1090	577	592	...	...	...	320	1280	2680	2100	1240	350
3....	1080	540	518	...	...	...	440	1710	2360	2320	1120	330
4....	1080	540	441	...	...	...	610	1760	3130	2140	1100	350
5....	1050	511	448	...	...	...	930	2580	3590	2040	1160	340
6....	1060	524	414	...	...	...	1040	2310	3630	2250	1270	340
7....	970	540	400	...	...	...	1240	2250	3950	2430	1320	345
8....	898	607	406	...	...	...	1220	2600	3760	2290	1230	330
9....	934	607	406	...	...	...	960	3000	3430	2040	1120	320
10....	970	584	390	...	...	...	1010	3280	3490	2040	1110	295
11....	889	670	396	...	...	...	1220	3950	3650	1960	1090	330
12....	880	584	390	...	...	...	1340	4470	4350	1730	1060	355
13....	880	600	300	...	...	...	1600	5080	5210	1560	1080	305
14....	889	600	300	...	...	...	2040	5410	5670	1460	1220	290
15....	871	600	300	...	...	...	2040	5310	5720	1450	1190	272
16....	820	592	300	...	...	...	1220	5040	5280	1450	1040	272
17....	794	569	300	...	...	...	685	5140	4980	1540	1030	290
18....	702	532	300	...	...	...	640	5460	4560	1440	1010	305
19....	702	462	300	...	...	...	730	5510	3840	1440	883	280
20....	702	455	320	...	...	...	1000	5490	3080	1300	811	272
21....	686	540	290	...	...	...	1490	5590	2660	1270	802	272
22....	686	540	280	...	...	...	1820	5510	2650	1260	784	272
23....	702	670	280	...	...	...	1890	4980	2580	1300	730	272
24....	710	630	290	...	...	...	2190	5160	2480	1300	712	272
25....	678	630	350	299	...	...	1740	4740	2300	1330	640	276
26....	600	554	340	...	...	...	1400	3490	2320	1380	598	276
27....	592	554	346	...	...	...	910	3180	2210	1390	570	276
28....	638	382	340	...	252	...	920	2750	2240	1590	556	280
29....	630	554	300	...	...	...	802	2320	2130	1530	549	280
30....	562	607	300	...	...	...	865	2140	2060	1460	528	280
31....	622	...	300	...	...	...	...	1920	...	1410	434	...
Total	25497	16939	11206	...	...	...	34632	114480	101870	52220	29327	9092
Mean.	823	565	361	290	270	280	1150	3690	3400	1680	946	303
Max..	1130	670	592	...	...	...	2190	5590	5720	2430	1340	365
Min...	562	382	...	...	...	...	...	1070	1880	1260	434	272
Acre-ft.	50600	33600	22200	17800	15500	17200	68400	227000	202000	103000	58200	18000

Discharge of Rio Grande at Alamosa for Year Ending September 30, 1923.
Drainage Area, ... Square Miles. Altitude, 7,536 FeFet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	14	40	256	190	260	306	376	138	394	619	413	329
2....	14	50	238	190	238	310	376	132	400	548	354	348
3....	14	70	274	190	242	352	413	125	400	482	390	329
4....	14	120	329	190	245	318	380	118	410	432	333	310
5....	14	140	310	190	285	321	344	112	420	405	351	329
6....	15	140	296	200	288	326	308	112	432	344	329	310
7....	15	140	296	200	292	326	275	112	420	311	347	348
8....	15	160	278	230	296	326	308	112	394	294	155	292
9....	15	180	296	230	299	326	344	150	432	326	61	274
10....	15	200	299	230	303	326	312	194	432	326	59	256
11....	20	220	263	220	306	365	312	220	432	288	43	238
12....	20	242	263	220	274	330	312	200	552	272	42	206
13....	20	212	263	220	278	295	246	190	552	269	49	165
14....	20	249	267	240	281	365	246	180	792	269	120	165
15....	20	249	285	240	321	330	246	144	1070	282	174	178
16....	20	235	267	230	325	333	246	130	1270	266	186	238
17....	20	256	267	230	329	333	218	200	1560	246	440	493
18....	20	260	270	240	333	298	218	240	1480	246	956	388
19....	20	228	280	250	337	282	218	270	1340	243	1110	620
20....	20	232	250	260	344	298	188	300	1340	243	1070	904
21....	30	270	230	260	348	333	188	432	1240	272	1070	857
22....	30	274	200	260	352	302	188	432	1270	240	1040	928
23....	30	274	230	270	396	302	160	470	1240	253	1000	940
24....	30	274	230	296	360	302	163	470	1120	237	880	1080
25....	30	278	230	274	329	302	163	470	1030	250	822	1660
26....	30	263	230	278	333	302	156	394	1030	443	700	1580
27....	30	285	190	270	337	302	149	432	992	440	660	1360
28....	30	285	195	270	303	305	146	432	1050	383	562	1380
29....	30	289	200	270	...	322	143	394	849	362	470	1320
30....	30	310	200	274	...	305	140	394	761	380	408	1280
31....	30	...	200	282	...	340	...	394	...	413	348	...
Total	675	6425	7882	7394	8634	9883	7482	8093	25104	10384	14942	19105
Mean.	21.8	214	254	239	308	319	249	261	837	335	482	637
Max..	30	310	329	296	396	365	413	470	1560	619	1110	1660
Min...	14	40	190	190	238	282	140	112	394	237	42	165
Acre-ft.	1340	12700	15600	14700	17100	19600	14800	16000	49800	20600	29600	37900

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande at Alamosa for Year Ending September 30, 1924.
Drainage Area, Square Miles. Altitude, 7,536 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1260	646	581	...	...	319	300	685	424	82	42	18
2....	1200	612	580	...	...	319	300	650	330	84	42	18
3....	1200	581	576	...	...	295	300	720	244	86	42	18
4....	1200	581	521	...	...	295	350	860	214	109	42	18
5....	1200	581	498	269	...	272	520	1300	281	124	36	18
6....	1150	550	509	...	...	272	720	1500	562	114	36	18
7....	1150	550	503	...	...	276	1030	1460	741	116	26	18
8....	1120	550	492	...	...	276	1340	1300	923	196	26	18
9....	1040	612	490	...	...	276	1460	1380	755	252	26	18
10....	1080	646	480	...	...	233	1340	1580	550	214	22	18
11....	1040	680	460	...	...	276	1220	1700	466	178	20	18
12....	1000	748	450	...	...	214	1140	2130	412	162	20	18
13....	960	748	430	...	...	256	1100	2580	629	132	22	18
14....	1000	680	420	...	...	281	1420	2580	1200	107	20	18
15....	960	680	400	...	...	281	1700	2920	1250	86	20	18
16....	920	646	380	...	...	182	1740	3020	1810	76	18	18
17....	920	646	370	...	...	305	1180	2970	1860	76	18	18
18....	890	680	360	...	...	257	930	2870	1620	86	18	18
19....	816	612	350	...	...	241	895	3070	1350	86	18	18
20....	782	550	340	...	...	262	860	3070	1010	76	18	18
21....	748	581	330	...	...	262	1070	3070	699	67	18	18
22....	748	581	320	...	...	262	1260	3070	385	58	18	18
23....	748	581	300	...	...	262	1380	2870	290	58	18	18
24....	748	612	290	...	...	286	1500	2670	207	50	18	18
25....	748	612	280	...	...	290	1660	2580	175	50	18	17
26....	748	581	279	...	...	266	1500	2440	146	50	18	17
27....	748	581	275	...	...	290	1180	1610	118	50	18	17
28....	714	581	272	230	...	478	895	1150	98	58	18	17
29....	680	581	270	...	319	508	825	881	88	58	18	17
30....	680	612	270	...	...	400	790	685	80	58	18	17
31....	646	...	270	...	...	325	...	532	...	42	18	...
Total	28844	18432	12346	...	...	9017	31905	59903	18917	3041	730	534
Mean.	930	616	398	260	290	291	1060	1930	631	98.1	23.5	17.8
Max..	1260	748	581	...	...	508	1740	3070	1860	252	42	18
Min...	646	550	...	...	...	182	300	532	**80**	**42**	**18**	**17**
Acre-ft.	57200	36700	24500	16000	16100	17900	63100	119000	37500	6030	1440	1060

Discharge of Rio Grande at Lobatos for Year Ending September 30, 1923.
Drainage Area, 7,700 Square Miles. Altitude, 7,440 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	91	107	308	305	420	470	414	362	2800	1290	119	666
2....	91	112	291	305	400	470	456	508	2780	1160	105	613
3....	91	154	368	305	375	485	456	792	2700	860	91	613
4....	95	240	470	305	350	456	400	1180	2550	702	105	596
5....	95	325	414	305	370	470	414	1180	2500	588	96	596
6....	91	280	387	320	370	470	400	1350	2280	508	91	596
7....	91	280	435	325	370	435	336	1470	2020	456	100	596
8....	91	280	470	360	400	470	336	1720	2500	435	110	596
9....	93	291	387	370	370	400	368	1850	3010	435	100	563
10....	95	314	349	360	400	421	387	2200	2800	414	119	500
11....	98	325	368	350	370	381	368	2430	2610	456	117	428
12....	100	325	400	340	350	456	368	2550	2680	442	117	414
13....	100	368	470	380	370	456	400	2500	3090	449	119	374
14....	96	400	508	420	400	368	280	2060	3330	493	136	349
15....	95	368	588	400	450	630	291	1590	3760	493	226	580
16....	96	368	563	370	460	675	325	1290	3950	470	414	374
17....	96	336	508	380	460	546	508	1120	3970	470	470	449
18....	96	400	387	400	460	308	349	1330	3920	456	1110	588
19....	96	400	350	420	520	485	349	1530	3520	421	1570	960
20....	96	387	370	440	520	485	470	1850	2960	387	1720	1350
21....	96	368	355	410	520	400	470	2280	2660	387	1690	1520
22....	96	414	325	380	520	546	435	2500	2500	387	1670	1520
23....	100	456	355	395	523	470	400	2580	2360	421	1770	1540
24....	100	442	360	410	531	456	400	2360	2130	387	1690	1720
25....	100	435	365	425	456	381	485	2310	2020	349	1550	2100
26....	105	414	370	410	508	387	435	2800	1950	291	1330	2460
27....	105	387	307	390	255	435	421	3440	1950	210	1290	2360
28....	107	400	325	375	400	368	421	3920	1950	183	1120	2060
29....	107	387	340	400	...	368	485	3890	1850	154	960	1920
30....	107	400	330	420	...	387	381	3520	1530	139	810	1850
31....	107	...	320	440	...	400	...	2850	...	130	738	...
Total	3023	10163	12143	11615	11898	13935	12008	63312	80630	14423	21653	30851
Mean.	97.5	339	392	375	425	450	400	2040	2690	465	699	1080
Max..	107	456	588	440	531	675	508	3920	3970	1290	1770	2460
Min...	91	107	291	305	350	308	280	362	1530	130	91	349
Acre-ft.	6000	20200	24100	23100	23600	27700	23800	125000	160000	28600	43000	61300

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rio Grande at Lobatos for Year Ending September 30, 1924.
Drainage Area, 7,700 Square Miles. Altitude, 7,440 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1660	1090	830	...	450	580	943	2450	1510	147	100	50
2....	1590	1090	930	...	450	557	943	2710	1320	130	97	50
3....	1590	1090	880	...	450	620	924	3060	1120	123	92	50
4....	1590	1010	910	409	450	702	924	3680	1060	138	97	50
5....	1590	1030	774	...	450	660	1020	4630	1190	138	104	50
6....	1570	1020	774	...	450	580	1250	5390	1330	170	104	50
7....	1530	990	801	...	450	677	1560	5880	1710	147	100	46
8....	1520	990	756	...	450	660	1910	5240	2000	152	97	46
9....	1460	1020	774	...	450	542	3680	5200	1970	184	94	61
10....	1410	1090	750	...	450	660	3680	5350	1700	319	92	63
11....	1430	1140	750	...	600	660	3460	5740	1420	313	86	68
12....	1370	1150	750	...	600	504	3200	5980	1270	371	86	72
13....	1290	1190	670	...	600	580	3250	6480	1350	358	83	72
14....	1340	1130	680	...	600	580	3580	6620	1880	313	86	80
15....	1360	1120	680	...	600	660	4310	7000	2480	258	80	78
16....	1360	1040	680	...	900	660	4760	7190	2940	223	78	78
17....	1290	990	680	...	900	660	3720	7190	3000	190	72	83
18....	1240	1000	640	...	900	702	2890	6900	2720	179	68	83
19....	1210	990	600	...	900	660	2420	6900	2340	147	65	75
20....	1140	970	560	...	900	580	2290	6980	1730	127	59	72
21....	1110	950	520	...	900	744	2500	7380	1500	108	54	72
22....	1080	940	500	...	900	702	3030	7230	924	97	52	78
23....	1120	920	500	...	900	660	3790	6830	685	68	52	75
24....	1130	900	500	...	900	702	4310	6340	504	70	52	83
25....	1120	920	500	...	500	677	4710	5920	378	68	50	92
26....	1120	930	550	...	900	702	4760	5540	294	70	50	97
27....	1120	890	540	...	900	788	4220	4950	240	72	50	94
28....	1120	870	520	...	909	878	3370	3830	195	83	52	92
29....	1080	860	480	...	700	1150	2790	3010	164	83	52	89
30....	1090	801	440	...	...	1250	2500	2270	138	92	54	89
31....	1120	...	400	371	...	1210	...	1830	...	104	54	...
Total	40750	30121	20319	...	...	21947	86694	165800	41062	5047	2312	2138
Mean.	1310	1000	655	390	670	708	2890	5350	1370	163	74.6	71.3
Max..	1660	1190	930	...	...	1250	4760	7380	3000	371	104	97
Min...	1080	801	400	...	...	504	924	1830	138	68	50	46
Acre-ft.	80600	59500	40300	24000	38500	43500	172000	329000	81500	10000	4590	4240

Discharge of Pinos Creek at Del Norte for Year Ending September 30, 1923.
Drainage Area, 53 Square Miles. Altitude, Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	9	...	...	...	...	...	20	35	209	60	16	37
2....	9	...	...	...	...	...	20	46	206	61	16	42
3....	9	...	...	...	...	...	20	65	222	56	13	36
4....	9	...	...	...	...	...	20	80	203	51	16	26
5....	9	...	...	...	...	...	20	72	186	52	13	26
6....	9	...	...	...	...	...	20	72	173	41	13	26
7....	9	...	...	...	...	...	20	97	183	37	16	26
8....	9	...	...	...	...	..	20	116	225	56	13	21
9....	9	...	...	...	...	...	20	137	155	44	13	21
10....	9	...	...	...	...	...	20	160	131	215	17	17
11....	9	...	...	...	...	...	30	181	129	61	17	17
12....	11	...	...	...	...	...	30	129	151	55	45	17
13....	11	...	...	...	...	...	30	114	173	48	25	17
14....	11	...	...	...	...	...	30	110	173	92	29	17
15....	11	...	...	...	...	...	30	97	158	55	20	34
16....	11	...	...	...	...	...	30	85	155	42	64	29
17....	11	...	...	...	...	...	30	90	133	37	64	29
18....	11	...	...	...	...	...	30	137	122	37	64	44
19....	11	...	...	...	...	...	30	158	124	37	64	44
20....	11	...	...	...	...	...	30	168	126	37	64	44
21....	13	...	...	...	...	...	30	165	99	37	71	44
22....	13	...	...	...	...	...	25	151	83	27	64	44
23....	11	...	...	...	...	...	21	137	85	27	64	48
24....	11	...	...	...	...	...	21	135	78	23	50	48
25....	11	...	...	...	...	...	21	181	80	27	50	42
26....	11	...	...	...	...	...	21	206	82	28	44	42
27....	13	...	...	...	...	...	21	218	83	33	44	42
28....	11	...	...	...	...	...	21	231	85	20	38	36
29....	13	...	...	...	...	...	30	198	78	20	37	31
30....	13	...	...	...	...	...	35	212	65	16	37	36
31....	16	...	...	...	...	...	...	225	...	16	37	...
Total	334	...	...	...	...	...	746	4208	4155	1448	1138	983
Mean.	10.8	...	...	...	...	...	24.9	136	138	46.7	36.7	32.8
Max..	16	...	...	...	...	...	...	231	225	215	71	48
Min...	19	...	...	...	...	...	...	35	65	16	13	17
Acre-ft.	664	...	...	...	...	...	1480	8360	8210	2870	2260	1950

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Pinos Creek at Nr. Del Norte for Year Ending September 30, 1924.
Drainage Area, 53 Square Miles. Altitude, Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	31	...	...	...	...	...	30	176	122	56	15	11
2....	37	...	...	...	...	...	30	150	122	50	15	8
3....	34	...	...	...	...	...	30	176	144	45	14	8
4....	33	...	...	...	...	...	36	203	152	43	14	8
5....	32	...	...	...	...	...	36	196	168	46	14	8
6....	31	...	...	...	...	...	36	192	178	56	13	8
7....	30	...	...	...	...	...	101	184	176	47	12	8
8....	29	...	...	...	...	...	125	214	163	39	11	8
9....	31	...	...	...	...	...	62	232	147	38	11	8
10....	30	...	...	...	...	...	60	208	139	34	11	8
11....	29	...	...	...	...	...	57	205	163	34	11	8
12....	28	...	...	...	...	...	72	192	168	30	11	8
13....	29	...	...	...	...	...	115	253	170	26	13	8
14....	34	...	...	...	...	...	126	232	184	23	18	8
15....	30	...	...	...	...	...	87	239	187	22	15	8
16....	24	...	...	...	...	...	58	232	182	23	12	8
17....	20	...	...	...	...	...	64	232	173	25	11	8
18....	20	...	...	...	...	...	57	237	141	22	11	8
19....	22	...	...	...	...	...	60	260	122	20	11	8
20....	22	...	...	...	...	...	91	255	108	18	11	8
21....	22	...	...	...	...	...	120	255	101	18	11	8
22....	23	...	...	...	...	...	141	253	97	16	11	8
23....	24	...	...	...	...	...	171	246	92	16	11	8
24....	24	...	...	...	...	...	171	250	81	17	11	8
25....	18	...	...	...	...	...	125	223	74	17	11	8
26....	24	14	...	...	...	...	86	196	68	17	11	8
27....	22	...	...	...	...	...	78	199	62	18	11	8
28....	21	...	...	...	...	...	67	176	60	32	11	8
29....	22	...	...	...	...	...	84	154	60	20	12	8
30....	16	...	...	...	...	...	111	146	57	20	12	8
31....	16	...	...	...	...	...	...	126	...	21	11	...
Total	808	...	...	...	...	...	2487	6492	3861	909	377	243
Mean.	26.1	15	...	...	...	...	82.9	209	129	29.3	12.2	8.10
Max..	37	...	...	...	...	...	171	260	187	56	18	11
Min...	16	...	...	...	...	...	30	126	57	16	11	8
Acre-ft.	1600	892	...	...	...	...	4930	12900	7680	1800	750	482

Discharge of Rock Creek at Monte Vista for Year Ending September 30, 1923.
Drainage Area, 38 Square Miles. Altitude, Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	7	...	...	...	...	...	...	24	45	20	12	16
2....	7	...	...	...	...	...	...	32	39	20	12	16
3....	7	...	...	...	...	...	...	36	39	21	11	17
4....	7	...	...	...	...	...	...	32	39	21	12	16
5....	6	...	...	...	...	...	...	41	33	21	11	15
6....	6	...	...	...	...	...	...	41	33	21	11	14
7....	6	...	...	...	...	...	...	46	33	21	11	13
8....	6	...	...	...	...	...	...	50	38	21	9	12
9....	6	...	...	...	...	...	...	55	38	24	7	12
10....	6	...	...	...	...	...	...	59	33	33	7	11
11....	6	...	...	...	...	...	...	65	33	21	9	11
12....	5	...	...	...	...	...	..	58	33	25	9	11
13....	4	...	...	...	...	...	...	43	33	21	9	11
14....	4	...	...	...	...	...	...	48	33	25	11	12
15....	4	...	...	...	...	...	...	42	39	25	11	13
16....	4	...	...	...	...	...	...	42	39	21	11	11
17....	5	...	...	...	...	...	...	41	34	22	16	12
18....	5	...	...	...	...	...	...	46	34	22	18	21
19....	5	...	...	...	...	...	...	51	34	22	21	17
20....	3	...	...	...	...	...	...	50	34	22	22	17
21....	2	...	...	...	...	...	...	50	34	22	22	17
22....	2	...	...	...	...	...	...	49	30	20	22	21
23....	2	...	...	...	...	...	...	44	30	18	22	21
24....	2	...	...	...	...	...	...	43	31	17	22	21
25....	2	...	...	...	...	...	18	53	27	17	22	20
26....	2	...	...	...	...	...	15	53	27	18	17	17
27....	2	...	...	...	...	...	15	47	27	20	16	16
28....	2	...	...	...	...	...	18	47	23	20	20	16
29....	2	...	...	...	...	...	21	46	23	16	21	16
30.....	2	...	...	...	...	...	24	46	20	15	18	16
31....	2	...	...	...	...	...	...	45	...	12	18	...
Total	131	...	...	...	...	...	...	1425	988	644	460	459
Mean.	4.23	...	...	...	...	...	...	46.0	32.9	20.8	14.8	15.3
Max..	7	...	...	...	...	...	...	65	45	33	22	21
Min...	2	...	...	...	...	...	...	24	20	12	7	11
Acre-ft.	260	...	...	...	...	...	...	2830	1960	1280	910	910

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Rock Creek at Monte Vista for Year Ending September 30, 1924.
Drainage Area, 38 Square Miles. Altitude, Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	16	11	...	...	...	...	...	88	23	20	9	4
2....	16	11	...	...	...	...	...	94	23	17	8	4
3....	16	9	...	...	...	...	...	82	20	14	8	4
4....	16	9	...	...	...	...	...	76	20	14	9	4
5....	16	9	...	...	...	...	...	76	20	14	8	4
6....	16	11	...	...	...	...	...	82	20	12	6	4
7....	16	11	...	...	...	...	...	82	26	10	6	4
8....	16	9	...	...	...	...	...	82	30	14	6	4
9....	16	9	...	...	...	...	...	88	34	14	6	4
10....	16	9	...	...	...	...	...	82	38	12	6	4
11....	16	9	...	...	...	...	...	82	43	10	6	4
12....	16	9	...	...	...	...	...	82	43	9	6	4
13....	16	9	...	...	...	...	...	76	43	10	6	4
14....	14	9	...	...	...	...	...	58	43	12	6	4
15....	14	9	...	...	...	...	...	70	43	12	6	4
16....	14	9	...	...	...	...	...	64	38	12	5	4
17....	14	9	...	...	...	...	...	58	38	14	5	4
18....	11	9	...	...	...	...	33	58	38	10	5	4
19....	14	9	...	...	...	...	50	53	38	9	5	4
20....	14	9	...	...	...	...	90	53	34	8	5	4
21....	14	9	...	...	...	...	90	58	34	8	5	4
22....	14	8	...	...	...	...	88	48	34	8	5	4
23....	14	8	...	...	...	...	88	48	34	9	5	4
24....	14	8	...	...	...	...	94	48	30	9	4	4
25....	14	8	...	...	...	...	94	43	30	9	4	4
26....	11	9	...	...	...	...	76	38	23	9	4	5
27....	11	8	...	...	...	...	70	38	23	10	4	4
28....	11	8	...	...	...	...	70	34	23	9	4	4
29....	11	8	...	...	...	...	70	30	20	9	4	4
30....	11	8	...	...	...	...	76	30	20	9	4	4
31....	11	...	...	...	...	...	...	26	...	12	4	...
Total	439	269	...	...	...	...	...	1927	926	348	174	121
Mean.	14.2	8.97	...	...	...	...	45	62.2	30.9	11.2	5.61	4.03
Max..	16	11	...	...	...	...	...	94	43	20	9	5
Min...	11	8	...	...	...	...	...	26	20	8	4	4
Acre-ft.	873	534	...	...	...	...	2680	3820	1840	689	345	240

Discharge of Alamosa River Above Terrace Res. for Year Ending September 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	...	...	...	...	...	...	67	218	340	159	89	26
2....	...	...	...	...	...	...	67	250	388	159	58	26
3....	...	...	...	...	...	...	67	304	484	159	49	26
4....	...	...	...	...	...	...	67	304	556	159	43	26
5....	...	...	...	...	...	...	67	304	556	140	43	26
6....	...	...	...	...	...	...	67	520	580	159	49	26
7....	...	...	...	...	...	...	67	346	580	159	43	23
8....	...	...	...	...	...	...	67	431	532	140	43	23
9....	...	...	...	...	...	...	68	447	532	140	43	23
10....	...	...	...	...	...	...	68	546	532	159	43	26
11....	...	...	...	...	...	...	68	646	532	140	43	29
12....	...	...	...	...	...	...	68	680	580	122	43	37
13....	...	...	...	...	...	...	68	865	604	105	43	29
14....	...	...	...	...	...	...	68	775	580	89	89	26
15....	...	...	...	...	...	...	68	852	556	89	89	21
16....	...	...	...	...	...	...	68	762	532	89	73	21
17....	...	...	...	...	...	...	175	630	508	105	43	23
18....	...	...	...	...	...	...	125	730	436	89	43	26
19....	...	...	...	...	...	...	115	770	364	73	37	26
20....	...	...	...	...	...	...	260	810	316	73	37	23
21....	...	...	...	...	...	...	260	830	292	58	32	21
22....	...	...	...	...	...	...	260	925	292	58	29	21
23....	...	...	...	...	...	...	260	890	268	43	29	21
24....	...	...	...	...	...	...	260	750	268	58	29	21
25....	...	...	...	...	...	...	324	820	245	58	29	21
26....	...	...	...	...	...	...	242	604	245	58	26	21
27....	...	...	...	...	...	...	142	532	222	58	26	21
28....	...	...	...	...	...	...	142	460	200	89	26	21
29....	...	...	...	...	...	...	142	388	200	73	26	18
30....	...	...	...	...	...	...	142	388	178	89	26	18
31....	...	...	...	...	...	...	...	340	...	89	26	...
Total	...	...	...	...	...	...	3929	18117	12498	3238	1347	716
Mean.	56.7	76.1	68.3	58.2	47	97.7	131	584	417	104	43.5	23.9
Max..	...	...	...	...	...	...	324	925	604	159	89	37
Min...	...	...	...	...	...	...	...	218	178	43	26	18
Acreft.	3490	4530	4200	3580	2700	6010	7800	35900	24800	6400	2670	1420

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Alamosa River Below Terrace Reservoir for Year Ending September 30, 1923. Drainage Area, 120 Square Miles. Altitude, Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	...	...	...	...	....	...	25	226	662	316	187	97
2....	...	...	...	...	...	...	25	254	662	438	174	97
3....	...	...	...	...	...	...	25	332	578	578	174	97
4....	...	...	...	...	...	...	25	382	684	599	174	97
5....	...	...	...	...	...	...	25	382	684	438	174	138
6....	...	...	...	...	...	...	25	382	684	269	200	138
7....	...	...	...	...	...	...	25	382	641	400	200	138
8....	...	...	...	...	...	...	25	400	400	382	187	127
9....	...	...	...	...	...	...	25	400	269	332	226	127
10....	...	...	...	...	...	...	25	418	174	365	200	127
11....	...	...	...	...	...	...	25	418	348	382	200	127
12....	...	...	...	...	...	...	25	438	348	316	88	127
13....	...	...	...	...	...	...	25	458	348	300	107	127
14....	...	...	...	...	...	...	25	478	418	284	162	127
15....	...	...	...	...	...	...	25	438	438	150	70	88
16....	...	...	...	...	...	...	25	400	438	284	70	88
17....	...	...	...	...	...	...	25	400	348	254	55	88
18....	...	...	...	...	...	...	60	478	518	240	44	88
19....	...	...	...	...	...	...	60	538	518	240	44	88
20....	...	...	...	...	...	...	60	458	538	240	44	88
21....	...	...	...	...	...	...	75	538	558	240	44	88
22....	...	...	...	...	...	...	75	538	538	107	44	88
23....	...	...	...	...	...	...	75	518	538	240	44	88
24....	...	...	...	...	...	...	75	558	438	226	44	88
25....	...	...	...	...	...	...	80	620	578	213	44	88
26....	...	...	...	...	...	...	80	662	558	213	44	88
27....	...	...	...	...	...	...	88	599	538	200	50	88
28....	...	...	...	...	...	...	88	641	518	200	55	88
29....	...	...	...	...	...	...	117	620	478	44	79	88
30....	...	...	...	...	...	...	200	641	478	174	88	88
31....	...	...	...	...	...	...	...	620	...	174	88	88
Total	...	...	...	...	...	...	1558	14617	14918	8838	3404	3099
Mean.	25	25	25	25	25	25	51.9	472	497	285	110	103
Max..	...	...	...	...	...	...	200	662	684	599	226	138
Min...	...	...	...	...	...	...	25	226	174	44	44	88
Acre-ft.	1540	1490	1540	1540	1390	1540	3090	29000	29600	17500	6760	6130

Discharge of Alamosa River Below Terrace Res. for Year Ending September 30, 1924. Drainage Area, 120 Square Miles Altitude, Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	62	62	62	62	62	62	62	262	341	277	147	27
2....	....	....	....	....	....	....	62	262	430	277	158	27
3....	....	....	....	....	....	....	62	262	488	262	62	27
4....	....	....	....	....	....	....	62	262	592	115	158	25
5....	....	....	....	....	....	....	62	262	636	105	182	27
6....	....	....	....	....	....	....	62	262	770	95	158	25
7....	....	....	....	....	....	....	62	262	636	208	147	25
8....	....	....	....	....	....	....	62	262	468	208	158	23
9....	....	....	....	....	....	....	62	262	592	182	158	21
10....	....	....	....	....	....	....	62	308	614	182	55	23
11....	....	....	....	....	....	....	62	358	680	182	62	30
12....	....	....	....	....	....	....	62	394	724	182	62	36
13....	....	....	....	....	....	....	62	702	818	70	62	30
14....	....	....	....	....	....	....	62	747	636	158	70	25
15....	62	62	62	62	62	62	62	866	770	195	86	21
16....	....	....	....	....	....	....	62	938	770	195	95	21
17....	....	....	....	....	....	....	182	842	770	147	70	23
18....	....	....	....	....	....	....	182	770	724	147	55	25
19....	....	....	....	....	....	....	182	770	658	158	55	25
20....	....	....	....	....	....	....	182	770	571	70	48	21
21....	....	....	....	....	....	....	182	770	550	158	48	20
22....	....	....	....	....	....	....	182	842	412	170	42	20
23....	....	....	....	....	....	....	195	914	449	147	36	20
24....	....	....	....	....	....	....	262	866	412	170	36	20
25....	....	....	....	....	....	....	277	818	341	170	30	20
26....	....	....	....	....	....	....	277	770	341	158	27	20
27....	....	....	....	....	....	....	262	724	324	55	27	20
28....	....	....	....	....	....	....	262	680	292	170	29	19
29....	....	....	....	....	62	....	262	636	125	182	27	18
30....	62	....	62	62	....	62	262	614	277	182	27	17
31....	62	....	62	62	....	62	....	529	....	158	27	....
Total	1922	1860	1922	1922	1798	1922	4143	17986	16211	5235	2404	701
Mean.	62	62	62	62	62	62	138	580	540	169	77.5	23.4
Max..	62	62	62	62	62	62	277	938	818	277	182	36
Min...	62	62	62	62	62	62	62	262	125	55	27	17
Acre-ft.	3810	3690	3810	3810	3570	3810	8210	35700	32100	10400	4770	1390

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Jara Creek Near Capulin for Year Ending September 30, 1923.
Drainage Area, 73 Square Miles. Altitude, Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	...	...	...	...	...	...	...	117	41	84	67	14
2....	...	...	...	...	...	...	...	142	41	84	67	18
3....	...	...	...	...	...	...	...	168	41	84	22	31
4....	...	...	...	...	...	...	...	198	31	84	22	36
5....	...	...	...	...	...	...	...	198	31	84	22	31
6....	...	...	...	...	...	...	...	198	31	105	14	22
7....	...	...	...	...	...	...	...	198	31	105	8	18
8....	...	...	...	...	...	...	...	198	53	84	14	18
9....	...	...	...	...	...	...	...	220	53	84	14	18
10....	...	...	...	...	...	...	...	220	41	84	8	14
11....	...	...	...	...	...	...	...	198	31	84	14	14
12....	...	...	...	...	...	...	...	198	31	84	22	14
13....	...	...	...	...	...	...	...	168	31	84	84	18
14....	...	...	...	...	...	...	...	168	31	84	53	31
15....	...	...	...	...	...	...	...	168	31	84	53	31
16....	...	...	...	...	...	...	...	142	31	84	31	31
17....	...	...	...	...	...	...	...	142	31	84	105	26
18....	...	...	...	...	...	...	...	142	31	84	84	105
19....	...	...	...	...	...	...	...	130	31	84	84	67
20....	...	...	...	...	...	...	...	130	31	84	67	41
21....	...	...	...	...	...	...	...	130	22	84	53	39
22....	...	...	...	...	...	...	...	130	22	84	41	29
23....	...	...	...	...	...	...	...	130	22	84	41	29
24....	...	...	...	...	...	...	...	130	22	130	41	29
25....	...	...	...	...	...	...	...	105	22	84	41	29
26....	...	...	...	...	...	...	50	84	22	67	31	20
27....	...	...	...	...	...	...	63	84	22	67	22	20
28....	...	...	...	...	...	...	78	84	22	67	22	22
29....	...	...	...	...	...	...	117	67	22	67	14	22
30....	...	...	...	...	...	...	117	53	22	67	14	22
31....	...	...	...	...	...	...	...	41	...	67	14	...
Total	...	...	...	...	...	...	...	4481	924	2590	1189	859
Mean.	...	...	...	...	...	...	...	144	30.8	83.5	38.3	28.6
Max..	...	...	...	...	...	...	...	220	53	130	105	105
Min...	...	...	...	...	...	...	...	41	...	67	8	14
Acre-ft.	...	...	...	...	...	...	...	8850	1830	5130	2350	1700

Discharge of La Jara Creek Near Capulin for Year Ending September 30, 1924.
Drainage Area, 73 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	22	18	...	...	...	...	...	...	32	112	49	12
2....	22	18	...	...	...	...	...	...	28	112	54	12
3....	31	18	...	...	...	...	...	...	28	112	54	12
4....	26	18	...	...	...	...	...	...	32	121	54	12
5....	26	18	...	...	...	...	...	...	32	112	49	12
6....	26	18	...	...	...	...	...	...	36	112	49	12
7....	26	18	...	...	...	...	...	...	32	121	28	12
8....	26	18	...	...	...	...	...	...	28	112	24	12
9....	26	18	...	...	...	...	...	...	28	112	24	12
10....	26	18	...	...	...	...	...	...	28	121	24	12
11....	22	18	...	...	...	...	...	...	28	112	24	12
12....	22	22	...	...	...	...	...	...	28	112	24	12
13....	22	22	...	...	...	...	...	130	24	103	28	17
14....	22	22	...	...	...	...	...	121	24	78	28	20
15....	22	22	...	...	...	...	...	103	24	78	28	20
16....	22	22	...	...	...	...	...	94	24	78	24	20
17....	22	22	...	...	...	...	...	94	24	78	24	20
18....	31	20	...	...	...	...	...	86	24	72	28	20
19....	26	20	...	...	...	...	...	78	24	72	24	20
20....	22	20	...	...	...	...	...	60	24	49	24	17
21....	18	20	...	...	...	...	...	54	28	44	24	20
22....	18	20	...	...	...	...	...	49	24	44	20	20
23....	18	20	...	...	...	...	...	49	54	44	20	20
24....	18	20	...	...	...	...	...	44	78	32	20	20
25....	18	20	...	...	...	...	...	40	78	32	20	20
26....	18	20	...	...	...	...	...	40	86	32	20	20
27....	18	20	...	...	...	...	...	40	103	32	12	20
28....	18	20	...	...	...	...	...	44	112	36	12	20
29....	18	20	...	...	...	...	...	40	112	36	12	20
30....	18	20	...	...	...	...	...	36	112	49	12	17
31....	18	...	...	...	...	...	...	32	...	49	12	...
Total	688	590	...	...	...	...	...	...	1339	2409	849	495
Mean.	22.2	19.7	...	...	...	...	...	75	44.6	77.7	27.4	16.5
Max..	31	22	...	...	...	...	...	...	112	121	54	20
Min...	18	18	...	...	...	...	...	...	24	32	12	12
Acre-ft.	1360	1170	...	...	...	...	...	4610	2650	4780	1680	982

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Trinchera Creek Above Turner Ranch for Year Ending September 30, 1923.
Drainage Area, 45 Square Miles. Altitude, Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	...	...	...	...	...	...	8	23	59	39	14	22
2....	...	...	...	...	...	...	8	23	61	35	13	19
3....	...	...	...	...	...	...	8	23	61	35	13	19
4....	...	...	...	...	...	...	8	26	56	31	13	19
5....	...	...	...	...	...	...	8	26	55	28	13	19
6....	...	...	...	...	...	...	8	29	55	28	10	19
7....	...	...	...	...	...	...	8	30	55	28	10	19
8....	...	...	...	...	...	...	8	34	75	28	12	19
9....	...	...	...	...	...	...	8	34	76	28	19	19
10....	...	...	...	...	...	...	8	37	77	25	27	19
11....	...	...	...	...	...	...	10	45	71	35	24	19
12....	...	...	...	...	...	...	10	44	71	31	33	19
13....	...	...	...	...	...	...	10	39	71	28	26	19
14....	...	...	...	...	...	...	10	34	71	28	23	19
15....	...	...	...	...	...	...	10	30	77	28	23	19
16....	...	...	...	...	...	...	10	30	71	25	26	19
17....	...	...	...	...	...	...	10	33	71	22	29	21
18....	...	...	...	...	...	...	10	41	65	22	29	21
19....	...	...	...	...	...	...	10	50	65	25	26	24
20....	...	...	...	...	...	...	12	61	65	28	26	24
21....	...	...	...	...	...	...	12	59	65	25	26	24
22....	...	...	...	...	...	...	12	64	59	22	26	24
23....	...	...	...	...	...	...	12	57	54	21	26	24
24....	...	...	...	...	...	...	12	56	54	19	26	24
25....	...	...	...	...	...	...	12	56	49	18	26	24
26....	...	...	...	...	...	...	12	56	44	18	26	24
27....	...	...	...	...	...	...	15	63	49	18	25	24
28....	...	...	...	...	...	...	17	63	44	18	22	24
29....	...	...	...	...	...	...	17	64	44	15	22	24
30....	...	...	...	...	...	...	23	58	44	14	22	21
31....	...	...	...	...	...	...	...	59	...	12	25	...
Total	...	...	...	...	...	...	326	1347	1834	777	681	634
Mean.	...	...	...	...	...	...	10.9	43.5	61.1	25.1	22.0	21.1
Acre-ft.	...	...	...	...	...	...	649	2670	3640	1540	1350	1260

Discharge of Trinchera Creek Above Turner Ranch for Year Ending September 30, 1924.
Drainage Area, 45 Square Miles. Altitude, Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	19	19	...	...	...	...	...	55	123	69	25	12
2....	21	19	...	...	...	...	...	65	116	64	21	12
3....	21	19	...	...	...	...	...	65	116	64	18	12
4....	21	19	...	...	...	...	...	90	130	64	18	12
5....	21	19	...	...	...	...	...	85	146	58	18	12
6....	21	19	...	...	...	...	...	75	154	54	18	12
7....	21	19	...	...	...	...	...	75	162	54	18	10
8....	21	19	...	...	...	...	...	85	163	54	15	10
9....	27	19	...	...	...	...	...	100	147	48	15	10
10....	24	19	...	...	...	...	...	115	147	44	12	10
11....	24	19	...	...	...	...	...	125	149	44	12	10
12....	24	19	...	...	...	...	...	130	157	44	12	12
13....	24	19	...	...	...	...	...	130	165	38	12	12
14....	24	19	...	...	...	...	...	135	166	34	12	12
15....	21	19	...	...	...	...	...	135	166	34	12	12
16....	19	19	...	...	...	...	...	150	150	34	12	10
17....	21	19	...	...	...	...	...	152	144	34	12	12
18....	19	19	...	...	...	...	...	165	137	30	12	12
19....	19	19	...	...	...	...	...	179	137	29	12	12
20....	21	19	...	...	...	...	...	170	124	29	12	12
21....	19	19	...	...	...	...	...	168	124	28	12	12
22....	19	19	...	...	...	...	...	166	111	28	10	12
23....	19	19	...	...	...	...	...	157	106	25	10	12
24....	19	19	...	...	...	...	...	155	93	25	10	12
25....	19	19	...	...	...	...	...	154	87	28	10	10
26....	19	19	...	...	...	...	...	152	87	32	10	10
27....	19	19	...	...	...	...	...	150	87	32	10	10
28....	19	19	...	...	...	...	...	141	87	36	15	10
29....	19	19	...	...	...	...	...	133	76	32	15	10
30....	19	19	...	...	...	...	...	138	81	32	12	10
31....	19	...	...	...	...	...	...	130	...	32	12	...
Total	642	570	...	...	...	...	...	3925	3838	1253	424	336
Mean.	20.7	19.0	...	...	...	...	...	127	128	40.4	13.7	11.2
Max..	.27	19	...	...	...	...	...	179	166	69	25	12
Min...	19	19	...	...	...	...	...	55	76	25	10	10
Acre-ft.	1270	1130	...	...	...	...	...	7810	7620	2480	842	666

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Trinchera Creek Above Mt. Home Reservoir for Year Ending Sept. 30, 1923.
Drainage Area, 61 Square Miles. Altitude, Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	...	...	...	..	...	...	...	11	41	31	7	21
2....	...	...	...	...	...	...	...	11	41	21	7	21
3....	...	...	...	...	...	...	...	11	41	11	7	21
4....	...	...	...	...	...	...	...	11	36	11	6	19
5....	...	...	...	...	...	...	...	11	31	11	4	19
6....	...	...	...	...	...	...	...	11	31	16	5	19
7....	...	...	...	...	...	...	...	11	31	16	6	19
8....	...	...	...	...	...	...	...	11	51	16	6	19
9....	...	...	...	...	...	...	...	11	51	11	14	21
10....	...	...	...	...	...	...	...	11	46	6	22	19
11....	...	...	...	...	...	...	...	11	46	6	20	13
12....	...	...	...	...	...	...	...	11	46	8	28	11
13....	...	...	...	...	...	...	...	16	41	8	20	15
14....	...	...	...	...	...	...	...	16	46	11	18	17
15....	...	...	...	...	...	...	...	11	41	16	18	11
16....	...	...	...	...	...	...	...	11	41	10	21	11
17....	...	...	...	...	...	...	...	11	41	16	21	13
18....	...	...	...	...	...	...	...	11	41	12	21	13
19....	...	...	...	...	...	...	...	16	41	9	13	16
20....	...	...	...	...	...	...	...	21	41	9	11	16
21....	...	...	...	...	...	...	...	31	46	10	13	13
22....	...	...	...	...	...	...	...	56	41	11	19	11
23....	...	...	...	...	...	...	...	46	41	9	21	11
24....	...	...	...	...	...	...	...	36	31	8	21	11
25....	...	...	...	...	...	...	...	41	26	7	19	10
26....	...	...	...	...	...	...	...	41	21	6	13	16
27....	...	...	...	...	...	...	...	46	21	8	11	21
28....	...	...	...	...	...	...	...	46	26	8	11	21
29....	...	...	...	...	...	...	...	46	31	8	21	21
30....	...	...	...	...	...	...	...	41	31	8	23	21
31....	...	...	...	...	...	...	...	41	...	7	23	...
Total	...	...	...	...	...	...	...	716	1140	345	470	490
Mean.	...	...	...	...	...	...	...	23.1	38.0	11.1	15.2	16.3
Max..	...	...	..	...	...	...	...	...	51	31	28	21
Min...	...	...	...	...	...	...	...	...	21	6	4	10
Acre-ft.	...	...	...	...	...	...	...	1420	2260	682	935	970

Discharge of Trinchera Creek Above Mt. Home Reservoir for Year Ending Sept. 30, 1924.
Drainage Area, 61 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	15	12	...	...	...	...	...	33	73	25	5	7
2....	14	13	...	...	...	...	...	44	60	25	4	7
3....	15	14	...	...	...	...	...	44	54	26	5	6
4....	16	16	...	...	...	...	...	63	59	25	5	6
5....	17	16	...	...	...	...	...	57	73	24	5	7
6....	16	15	...	...	...	...	...	54	82	25	5	7
7....	11	12	...	...	...	...	...	54	86	28	5	6
8....	9	12	...	...	...	...	...	63	85	25	6	6
9....	11	14	...	...	...	...	...	76	88	23	6	6
10....	15	15	...	...	...	...	...	88	77	25	6	6
11....	17	16	...	...	...	...	...	101	74	25	7	10
12....	19	17	...	...	...	...	...	113	77	27	6	10
13....	16	17	...	...	...	...	...	113	82	25	7	9
14....	14	18	...	...	...	...	...	117	88	24	10	8
15....	13	17	...	...	...	...	...	117	96	20	11	6
16....	11	17	...	...	...	...	...	126	82	20	10	7
17....	11	15	...	...	...	...	...	127	76	22	8	8
18....	11	13	...	...	...	...	...	142	77	23	7	8
19....	11	12	...	...	...	...	23	160	74	23	7	8
20....	9	11	...	...	...	...	**27**	**164**	**76**	**19**	**8**	**8**
21....	10	12	...	...	...	...	33	160	70	15	7	8
22....	12	11	...	...	...	...	42	154	73	12	8	8
23....	15	9	...	...	...	...	44	146	67	10	7	6
24....	16	7	...	...	...	...	55	140	52	8	6	6
25....	16	8	...	...	...	...	43	135	39	16	8	6
26....	13	9	...	...	...	...	46	131	33	16	8	6
27....	16	11	...	...	...	...	46	113	30	14	8	6
28....	12	11	...	...	...	...	35	102	28	16	8	6
29....	14	10	...	...	...	...	25	88	27	13	8	6
30....	13	10	...	...	...	...	25	82	28	10	7	6
31....	12	...	...	...	...	...	...	73	...	6	7	...
Total	420	390	...	...	...	...	...	3180	1986	615	215	210
Mean.	13.5	13.0	...	...	...	...	23	103	66.2	19.8	6.94	7.00
Max..	19	18	...	...	...	...	...	164	96	28	11	10
Min...	9	7	...	...	...	...	...	33	27	6	4	6
Acre-ft.	830	774	...	...	...	...	1370	6330	3940	1220	427	417

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Sangre de Cristo Creek Near Fort Garland for Year Ending Sept. 30, 1923.
Drainage Area, 187 Square Miles Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	...	...	...	...	...	...	...	50	37	18	2.	10
2....	...	...	...	...	...	..	...	50	41	18	2	12
3....	...	...	...	...	...	...	...	50	32	18	2	19
4....	...	...	...	...	...	...	...	50	29	18	2	19
5....	...	...	...	...	...	...	...	50	30	18	1	18
6....	...	...	...	...	...	...	...	50	30	18	2	14
7....	..	...	...	...	...	...	...	56	34	18	11	14
8....	...	...	...	...	...	...	...	56	47	16	20	14
9....	...	...	...	...	...	...	...	56	51	16	30	14
10....	...	...	...	...	...	...	...	56	44	16	21	14
11....	...	...	...	...	...	...	...	59	44	16	14	14
12....	...	...	...	...	...	...	...	58	37	16	19	14
13....	...	...	...	...	...	...	...	61	35	16	23	14
14....	...	...	...	...	...	...	...	69	32	16	22	14
15....	...	...	...	...	...	...	...	56	32	16	18	14
16....	...	...	...	...	...	...	...	52	32	14	18	14
17....	...	...	...	...	...	...	...	55	29	14	23	14
18....	...	...	...	...	...	...	...	63	26	14	24	14
19....	...	...	...	...	...	...	...	74	25	14	19	25
20....	...	...	...	...	...	...	...	74	25	14	16	30
21....	...	...	...	...	...	...	...	73	22	14	12	26
22....	...	...	...	...	...	...	...	73	22	14	11	22
23....	...	...	...	...	...	...	...	68	22	10	14	19
24....	...	...	...	...	...	...	...	64	22	10	16	16
25....	...	...	...	...	...	...	...	63	22	8	14	18
26....	...	...	...	...	...	...	...	59	22	6	14	14
27....	...	...	...	...	...	...	...	55	22	6	14	12
28....	...	...	...	...	...	...	...	47	20	4	14	13
29....	...	...	...	...	...	...	...	44	20	4	11	12
30....	...	...	...	...	...	...	...	40	20	2	11	11
31....	...	...	...	...	...	...	...	37	...	2	10	...
Total	...	...	...	...	...	...	...	1768	906	404	430	478
Mean.	...	...	...	...	...	...	...	57.0	30.2	13.0	13.9	15.9
Acre-ft.	...	...	...	...	...	...	...	3500	1800	799	855	946

Discharge of Sangre de Cristo Creek Near Ft. Garland for Year Ending September 30, 1924.
Drainage Area, 187 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	11	25	...	...	...	...	...	231	180	46	17	3
2....	14	25	...	...	...	...	...	231	168	39	17	3
3....	26	23	...	...	...	...	...	249	162	38	17	2
4....	25	24	...	...	...	...	...	285	158	38	17	2
5....	25	24	...	...	...	...	...	314	157	33	15	2
6....	24	25	...	...	...	...	...	342	150	32	14	2
7....	20	23	...	...	...	...	...	370	138	33	13	2
8....	13	23	...	...	...	...	...	375	122	30	12	2
9....	25	23	...	...	...	...	...	368	112	30	10	2
10....	30	20	...	...	...	...	...	359	104	31	8	2
11....	24	23	...	...	...	...	...	356	95	30	7	3
12....	24	23	...	...	...	...	...	370	91	26	7	2
13....	27	22	...	...	...	...	...	370	94	22	9	2
14....	23	20	...	...	...	...	...	361	96	20	10	2
15....	24	22	...	...	...	...	...	349	89	19	9	2
16....	24	23	...	...	...	...	...	333	82	18	8	3
17....	23	22	...	...	...	...	...	323	71	20	6	4
18....	23	22	...	...	...	...	...	320	72	20	5	4
19....	23	22	...	...	...	...	129	328	64	18	4	4
20....	23	22	...	...	...	...	192	312	64	15	4	4
21....	21	20	...	...	...	...	241	294	64	15	4	3
22....	17	18	...	...	...	...	282	280	61	14	4	4
23....	15	19	...	...	...	...	317	270	56	13	4	4
24....	17	19	...	...	...	...	341	258	52	13	4	4
25....	22	18	...	...	...	...	302	236	45	17	4	4
26....	22	16	...	...	...	...	269	221	45	17	4	4
27....	23	13	...	...	...	...	246	214	44	15	4	4
28....	23	14	...	...	...	...	239	215	42	17	3	4
29....	23	15	...	...	...	...	238	203	41	17	3	4
30....	23	15	...	...	...	...	235	214	44	17	3	4
31....	23	...	...	...	...	...	...	208	...	17	3	...
Total	680	623	...	...	...	...	...	9159	2763	730	249	91
Mean.	21.9	20.8	...	...	...	...	150	295	92.1	23.5	8.03	3.03
Max..	30	25	...	...	...	...	...	375	180	46	17	4
Min...	11	13	...	...	...	...	...	203	41	13	3	2
Acre-ft.	1350	1240	...	...	...	...	8920	18100	5480	1440	494	180

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Ute Creek Near Fort Garland for Year Ending September 30, 1923.
Drainage Area, 32 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	...	...	...	...	...	...	...	20	58	44	9	23
2....	...	...	...	...	...	...	...	20	61	40	10	19
3....	...	...	...	...	...	...	...	20	61	37	12	16
4....	...	...	...	...	...	...	...	20	58	37	12	16
5....	...	...	...	...	...	...	...	20	58	33	10	20
6....	...	...	...	...	...	...	...	20	58	33	10	20
7....	...	...	...	...	...	...	...	23	58	30	12	23
8....	...	...	...	...	...	...	...	23	68	30	23	26
9....	...	...	...	...	...	...	...	30	58	30	30	17
10....	...	...	...	...	...	...	...	26	51	30	44	16
11....	...	...	...	...	...	...	...	30	51	35	51	12
12....	...	...	...	...	...	...	...	30	54	40	47	9
13....	...	...	...	...	...	...	...	33	61	40	44	10
14....	...	...	...	...	...	...	...	37	65	44	44	10
15....	...	...	...	...	...	...	...	30	65	40	44	10
16....	...	...	...	...	...	...	...	26	65	33	47	10
17....	...	...	...	...	...	...	...	30	65	26	58	10
18....	...	...	...	...	...	...	...	33	54	25	58	23
19....	...	...	...	...	...	...	...	37	54	30	57	44
20....	...	...	...	...	...	...	...	47	58	30	51	43
21....	...	...	...	...	...	...	...	58	61	31	50	43
22....	...	...	...	...	...	...	...	58	58	30	45	43
23....	...	...	...	...	...	...	...	54	54	26	40	43
24....	...	...	...	...	...	...	...	54	51	23	40	43
25....	...	...	...	...	...	...	...	51	51	18	37	43
26....	...	...	...	...	...	...	...	54	51	17	31	43
27....	...	...	...	...	...	...	...	58	51	18	30	43
28....	...	...	...	...	...	...	...	58	47	16	27	40
29....	...	...	...	...	...	...	...	58	44	16	23	37
30....	...	...	...	...	...	...	...	54	44	12	24	33
31....	...	...	...	...	...	...	...	58	...	10	26	...
Total	...	...	...	...	...	...	...	1170	1693	904	1046	788
Mean.	...	...	...	...	...	...	...	37.7	56.4	29.2	33.7	26.3
Acre-ft.	...	...	...	...	...	...	...	2320	3360	1800	2070	1560

Discharge of Ute Creek Near Fort Garland for Year Ending September 30, 1924.
Drainage Area, 32 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	32	30	...	...	...	...	...	52	74	63	19	9
2....	33	30	...	...	...	...	...	53	70	53	17	8
3....	36	30	...	...	...	...	...	55	69	47	17	8
4....	36	33	...	...	...	...	...	55	83	40	18	7
5....	36	33	...	...	...	...	...	72	108	41	21	8
6....	36	33	...	...	...	...	...	82	121	45	17	8
7....	36	33	...	...	...	...	...	96	113	47	17	8
8....	36	32	...	...	...	...	...	100	100	48	16	7
9....	44	30	...	...	...	...	...	108	92	45	15	7
10....	41	31	...	...	...	...	...	110	92	39	15	7
11....	41	32	...	...	...	...	...	109	96	37	17	9
12....	40	28	...	...	...	...	...	113	109	33	14	9
13....	37	28	...	...	...	...	...	140	128	31	13	9
14....	34	25	...	...	...	...	...	155	139	29	12	9
15....	34	24	...	...	...	...	...	155	130	31	12	9
16....	34	24	...	...	...	...	...	154	120	33	11	9
17....	34	23	...	...	...	...	...	157	109	38	11	9
18....	33	21	...	...	...	...	...	139	98	31	10	9
19....	33	21	...	...	...	...	...	139	85	27	9	10
20....	33	20	...	...	...	...	65	138	78	27	8	9
21....	33	20	...	...	...	...	60	123	78	25	8	9
22....	33	21	...	...	...	...	63	123	75	24	8	8
23....	33	21	...	...	...	...	65	114	65	26	9	8
24....	33	20	...	...	...	...	65	121	61	30	9	9
25....	33	19	...	...	...	...	65	120	58	30	9	9
26....	34	19	...	...	...	...	64	113	58	30	9	8
27....	35	19	...	...	...	...	62	100	53	28	9	9
28....	33	19	...	...	...	...	57	82	53	37	8	9
29....	32	22	...	...	...	...	53	87	56	38	8	8
30....	31	19	...	...	...	...	51	92	61	31	8	8
31....	30	...	...	...	...	...	...	80	...	25	8	...
Total	1079	760	...	...	...	...	...	3337	2632	1109	382	253
Mean.	34.8	25.3	...	...	...	...	55	108	87.7	35.8	12.3	8.43
Max..	44	33	...	...	...	...	...	157	139	63	21	10
Min...	30	19	...	...	...	...	...	52	53	24	8	7
Acre-ft.	2140	1510	...	...	...	...	3270	6640	5220	2200	756	502

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River Near Mogote, Colo., for Year Ending September 30, 1923.
Drainage Area, 282 Square Miles. Altitude, 8,300 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	46	44	...	...	...	...	162	794	2780	1260	258	258
2....	46	46	...	...	...	...	162	970	2780	1200	258	230
3....	46	54	...	...	...	...	162	1200	2680	1080	249	249
4....	42	58	...	...	...	...	138	1470	2780	1080	220	230
5....	40	56	...	...	...	...	150	1610	2580	1020	230	202
6....	42	92	...	...	...	...	215	1400	2480	920	202	268
7....	42	62	...	...	...	...	223	1610	2580	1020	211	239
8....	52	62	...	...	....	50	207	1920	2480	1020	220	220
9....	48	62	...	...	...	...	215	2100	2000	834	279	176
10....	48	58	...	...	...	...	257	2280	1840	834	324	176
11....	48	60	...	...	...	...	276	2280	2000	754	279	156
12 ..	48	60	...	...	...	...	291	2100	2190	794	374	136
13....	48	71	...	...	...	...	370	1760	2380	715	361	136
14....	48	69	...	...	...	...	370	1330	2780	754	528	136
15....	48	58	...	...	...	...	370	1080	2580	676	568	198
16....	48	48	...	...	...	...	395	1020	2480	638	568	176
17....	48	85	...	...	...	...	510	1330	2380	563	661	156
18....	46	58	...	...	...	...	640	1540	2090	563	615	324
19....	46	62	...	...	...	...	676	1840	1840	563	615	324
20....	46	54	...	...	...	...	604	2280	1840	600	600	355
21....	54	71	...	48	...	...	572	2280	1760	600	526	420
22....	56	73	...	...	...	...	510	2190	1680	541	440	454
23....	54	67	...	...	...	...	395	1920	1610	440	568	600
24....	50	67	...	...	...	...	370	2380	1610	386	427	834
25....	44	67	...	...	...	...	370	2780	1680	349	386	676
26....	42	80	...	...	....	...	345	2890	1680	324	400	600
27....	42	58	...	...	...	...	370	3240	1840	413	361	563
28....	48	58	...	...	...	...	450	3240	1610	440	324	526
29....	52	58	...	...	...	...	572	2780	1540	361	268	490
30....	46	58	...	...	...	...	754	2580	1400	290	239	420
31....	38	...	...	...	...	...	...	2680	...	258	249	...
Total	1452	1876	...	...	...	...	11108	60874	63950	21290	11801	9933
Mean.	46.8	62.3	56	48	40	80	370	1970	2130	687	381	331
Max..	56	92	...	...	...	...	754	3240	2780	1260	661	834
Min...	38	44	...	...	...	...	138	794	1400	258	202	136
Acre-ft.	2880	3710	3440	2950	2220	4920	22000	121000	127000	42200	23400	19700

Discharge of Conejos River, Nr. Magote for Year Ending September 30, 1924.
Drainage Area, 282 Square Miles. Altitude, 8,300 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	386	176	...	...	...	...	98	762	843	731	275	50
2....	386	168	...	...	...	...	102	894	851	699	238	54
3....	427	156	...	...	...	...	102	1080	1150	715	216	52
4....	400	144	...	...	...	...	112	1480	1540	723	165	52
5....	386	136	...	...	...	...	125	1530	1680	618	147	58
6....	386	140	...	...	...	...	180	1440	1870	591	158	54
7....	355	136	...	...	...	...	320	1550	2020	591	162	50
8....	324	136	...	...	...	...	540	1680	1740	559	144	46
9....	343	125	...	...	...	...	692	1790	1580	516	118	38
10....	374	125	...	...	...	...	604	1850	1750	633	102	46
11....	355	95	...	...	...	...	580	1920	1610	654	91	70
12....	324	93	...	...	...	...	592	1920	1640	498	94	80
13....	324	91	...	...	...	...	572	1900	2360	486	114	66
14....	324	89	...	...	...	...	559	2080	2210	450	158	61
15....	313	87	...	...	...	...	970	2100	2110	403	151	52
16....	268	85	...	...	...	...	684	1900	1860	375	111	52
17....	254	84	...	...	...	...	540	1940	1510	426	91	63
18....	230	83	86	...	...	...	498	2130	1460	414	80	63
19....	220	81	...	...	...	...	540	2210	1240	359	70	61
20....	216	82	...	...	...	...	676	2320	1030	326	61	56
21....	207	86	...	...	...	...	715	2360	1000	280	61	50
22....	194	82	...	58	...	...	903	2280	1020	238	58	46
23....	220	80	...	...	...	...	1070	2270	990	216	56	44
24....	230	82	...	...	...	...	1140	2230	950	229	54	48
25....	230	86	...	...	...	...	1010	2250	920	229	54	48
26....	220	84	...	...	...	...	818	2080	903	251	58	48
27....	202	86	...	...	...	...	676	1970	843	247	56	52
28....	189	84	...	...	...	...	578	1550	843	321	56	48
29....	185	82	...	...	67	...	618	1140	851	337	56	46
30....	160	79	...	...	...	...	553	990	754	315	52	44
31....	172	...	...	...	...	...	...	877	...	315	50	...
Total	8804	3143	...	...	...	...	17167	54473	41128	13745	3357	1598
Mean.	284	105	86	72	65	80	572	1370	1370	443	108	53.3
Max..	427	176	...	...	...	...	1140	2360	2360	731	275	80
Min...	160	79	...	...	...	...	...	762	754	216	50	38
Acre-ft.	17500	6250	5290	4430	3740	4920	34000	108000	81500	27200	6640	3170

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Conejos River at Mouth for Year Ending September 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	25	25	....	....	79	79	59	467	2080	510	64	121
2....	25	25	....	....	79	79	59	500	2120	441	64	121
3....	25	25	....	....	79	61	59	746	1980	338	64	121
4....	35	25	....	....	79	59	59	1080	1890	266	64	121
5....	35	25	....	....	79	59	59	1480	1860	212	64	121
6....	35	33	....	....	79	59	61	1660	1630	166	64	121
7....	35	33	....	....	79	59	61	1440	1590	155	64	121
8....	35	35	....	....	79	59	61	1850	2240	206	64	121
9....	33	35	....	....	79	59	61	2030	2600	184	64	100
10....	33	35	....	....	79	59	79	2680	1860	163	64	82
11....	35	35	....	....	79	59	79	2830	1600	136	64	64
12....	35	35	....	....	79	59	61	2980	1950	136	64	64
13....	35	35	....	....	79	59	61	2390	1410	136	64	64
14....	25	23	....	....	79	59	61	1700	2600	136	64	64
15....	22	25	....	....	79	59	61	1070	2760	124	100	64
16....	17	35	....	....	79	59	79	814	2650	108	144	64
17....	17	35	....	....	79	59	102	864	2510	108	322	168
18....	17	35	....	....	79	59	160	1140	2120	86	402	400
19....	17	35	....	....	79	59	296	1500	1600	86	372	400
20....	17	35	....	....	79	59	306	1850	1350	86	322	400
21....	17	35	....	....	79	59	226	2130	1380	86	288	400
22....	17	35	....	....	79	59	226	1970	1180	82	288	400
23....	17	35	....	....	79	59	188	1640	1000	82	322	535
24....	23	35	....	....	79	59	154	1600	970	82	256	593
25....	23	33	....	....	79	59	128	1890	1210	62	224	490
26....	23	45	....	....	79	59	134	2520	1170	62	224	448
27....	25	61	....	....	79	59	160	2680	911	62	194	400
28....	25	61	....	....	79	59	178	2810	686	52	168	362
29....	23	59	....	....	....	59	246	2680	564	52	144	290
30....	23	59	....	....	....	59	344	2250	544	50	144	225
31....	23	....	....	....	....	59	....	2000	....	50	121	....
Total	792	1082	....	....	2212	1821	3868	55241	51015	4505	5931	7045
Mean.	25.5	36.1	58.5	60	79	60.3	129	1780	1700	145	191	235
Max..	35	61	....	....	79	79	344	2980	2760	510	402	593
Min...	17	25	....	....	79	59	59	467	544	50	64	64
Acre-ft.	1570	2150	3600	3690	4390	3710	7680	109000	101000	8920	11700	14000

Discvharge of Conejos River at Mouth for Year Ending September 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	286	201	117	105	134	108	161	1130	732	8	18	5
2....	286	182	130	94	134	108	176	1460	642	8	18	5
3....	327	251	130	94	134	108	206	1820	606	8	18	5
4....	327	234	106	94	134	108	203	2460	687	12	18	8
5....	327	201	86	85	134	99	222	3230	874	12	22	13
6....	327	201	86	84	134	106	280	3480	916	12	18	13
7....	304	182	86	84	136	117	386	3450	1010	8	18	13
8....	304	168	95	104	146	140	626	3430	1160	8	18	13
9....	304	182	95	93	146	147	1220	3400	965	8	18	17
10....	341	182	86	84	148	132	1620	3400	831	8	18	17
11....	361	201	95	84	148	123	1460	3450	764	18	14	17
12....	327	182	95	93	150	123	1390	3550	780	87	18	17
13....	327	168	106	93	150	135	1510	3580	908	83	22	21
14....	304	168	117	93	152	135	1850	3480	1110	59	27	21
15....	287	168	130	104	152	127	2280	3520	1080	56	22	21
16....	281	157	130	115	159	151	1850	3480	1120	37	22	21
17....	268	143	138	113	171	114	1110	3240	939	31	18	21
18....	234	130	76	113	123	98	824	2860	768	37	18	21
19....	201	117	85	113	136	117	732	2890	571	27	18	26
20....	182	117	94	113	122	121	861	2850	442	22	14	26
21....	168	130	94	113	133	125	1180	2890	310	18	14	26
22....	155	140	94	113	122	121	1630	2770	210	8	14	21
23....	182	130	94	113	122	110	2120	2550	163	11	18	21
24....	201	130	76	113	108	101	2460	2320	121	18	18	26
25....	218	117	85	113	90	110	2540	2250	71	22	18	27
26....	218	117	76	113	99	152	2060	2120	39	22	18	27
27....	234	117	85	123	106	198	1460	1910	27	18	17	29
28....	218	130	94	123	106	276	1070	1620	14	18	11	29
29....	218	130	85	123	106	178	910	1360	8	22	8	29
30....	201	106	94	133	....	208	910	1070	8	22	8	29
31....	201	....	68	133	....	149	....	897	....	22	8	....
Total	8113	4782	3028	3268	3835	4145	35307	81917	17876	750	529	585
Mean.	262	159	97.7	105	132	134	1180	2640	596	24.2	17.1	19.5
Max..	361	251	138	133	171	276	2540	3580	1160	87	27	29
Min...	155	106	68	84	90	98	161	897	8	8	8	5
Acre-ft.	16100	9460	6010	6460	7590	8240	70200	162000	35500	1490	1050	1160

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Antonio River at Manassa (at Mouth) for Year Ending September 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	30	407	430	60	0	22
2....	....	....	....	....	....	....	30	492	460	49	0	22
3....	....	....	....	....	....	....	30	654	450	39	0	22
4....	....	....	....	....	....	....	30	930	434	30	0	22
5....	....	....	....	....	....	....	30	1070	380	22	0	22
6....	....	....	....	....	....	....	30	930	330	22	0	22
7....	....	....	....	....	....	....	30	930	330	14	0	22
8....	....	....	....	....	....	....	30	1120	654	14	0	22
9....	....	....	....	....	....	....	30	1070	586	8	0	22
10....	....	....	....	....	....	....	30	1120	522	14	0	22
11....	....	....	....	....	....	....	30	1120	462	22	0	22
12....	....	....	....	....	....	....	39	1170	462	14	0	22
13....	....	....	....	....	....	....	39	975	462	14	3	22
14....	....	....	....	....	....	....	49	766	434	14	14	22
15....	....	....	....	....	....	....	72	554	434	22	14	14
16....	....	....	....	....	....	....	116	462	380	22	14	14
17....	....	....	....	....	....	....	212	522	355	14	49	22
18....	....	....	....	....	....	....	280	766	330	14	86	49
19....	....	....	....	....	....	....	234	806	256	14	60	86
20....	....	....	....	....	....	....	212	975	234	14	49	86
21....	....	....	....	....	....	....	192	888	234	8	39	192
22....	....	....	....	....	....	....	116	806	212	11	30	172
23....	....	....	....	....	....	....	100	654	172	8	30	172
24....	....	....	....	....	....	....	86	620	152	8	30	152
25....	....	....	....	....	....	....	100	554	152	2	30	133
26....	....	....	....	....	....	....	116	434	133	2	39	116
27....	....	....	....	....	....	....	116	475	116	0	39	100
28....	....	....	....	....	....	....	113	505	100	0	30	86
29....	....	....	....	....	....	....	212	515	86	0	30	86
30....	....	....	....	....	....	....	330	435	72	0	30	72
31....	....	....	....	....	....	....	....	395	....	0	30	....
Total	....	....	....	....	....	....	3084	23120	9814	475	646	1860
Mean.	....	....	....	....	....	....	103	746	327	15.3	20.8	62.0
Max..	....	....	....	....	....	....	330	1170	654	60	86	192
Min...	....	....	....	....	....	....	30	395	72	0	0	14
Acre-ft.	....	....	....	....	....	....	6130	45900	19500	941	1280	3690

Discharge of San Antonio River at Mouth for Year Ending September 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	72	55	....	....	....	36	85	707	338	2	2	0
2....	60	60	....	....	....	36	100	935	324	2	2	0
3....	72	49	....	....	....	36	130	1320	310	2	2	0
4....	72	39	....	....	....	36	130	1560	296	2	1	0
5....	72	35	....	....	....	33	150	1770	258	2	1	0
6....	72	35	....	....	....	35	200	1670	270	2	1	0
7....	72	35	....	....	....	39	310	1670	270	3	1	0
8....	60	35	....	....	....	46	550	1560	270	3	1	0
9....	60	39	....	....	....	49	960	1620	270	2	1	0
10....	60	39	....	....	....	44	1340	1670	270	4	1	0
11....	60	44	....	....	....	41	1180	1640	246	14	1	0
12....	60	44	....	....	....	41	1010	1670	222	26	1	0
13....	60	39	....	....	....	45	1160	1640	200	38	1	0
14....	60	35	....	....	....	45	1370	1560	178	38	0	0
15....	60	35	....	....	....	42	1530	1530	167	29	0	0
16....	66	35	....	....	....	50	995	1440	156	24	0	0
17....	55	35	....	....	....	38	574	1260	138	19	0	0
18....	49	30	23	....	....	33	413	1300	125	19	0	0
19....	49	30	....	....	....	39	366	1260	114	19	0	0
20....	49	26	....	....	....	46	440	1200	96	10	0	0
21....	49	26	....	....	....	50	670	1100	72	7	0	0
22....	49	26	....	14	....	45	1000	1020	56	5	0	0
23....	49	26	....	....	40	35	1400	910	46	3	0	0
24....	60	30	....	....	....	25	1160	910	27	2	0	0
25....	60	30	....	....	....	35	1250	839	24	2	0	0
26....	60	30	....	....	....	75	886	772	21	2	0	0
27....	60	26	....	....	....	120	574	728	14	2	0	0
28....	60	26	....	....	....	200	459	610	8	3	0	0
29....	60	22	....	....	....	100	434	538	7	2	0	0
30....	60	30	....	....	....	130	504	440	3	2	0	0
31....	55	....	....	....	....	75	....	395	....	2	0	....
Total	1862	1046	....	....	....	1700	21330	37244	4796	292	16	0
Mean.	60.1	34.9	25	22	40	54.8	711	1200	160	9.42	0.52	0
Max..	72	60	....	....	....	200	1530	1770	338	38	2	0
Min...	49	22	....	....	....	25	85	395	3	2	0	0
Acre-ft.	3700	2080	1540	1350	2300	3370	42300	73800	9520	579	32	0

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Culebra River Near Chama, for Year Ending September 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	110	138	124	47	17
2....	....	....	....	....	....	....	....	124	138	110	40	17
3....	....	....	....	....	....	....	....	138	184	124	34	17
4....	....	....	....	....	....	....	....	168	256	84	34	17
5....	....	....	....	....	....	....	....	184	343	84	34	17
6....	....	....	....	....	....	....	....	184	390	84	34	19
7....	....	....	....	....	....	....	....	184	298	84	30	19
8....	....	....	....	....	....	....	....	236	236	84	25	19
9....	....	....	....	....	....	....	....	236	276	84	25	19
10....	....	....	....	....	....	....	....	236	218	84	25	19
11....	....	....	....	....	....	....	....	256	200	84	30	25
12....	....	....	....	....	....	....	....	256	236	74	30	25
13....	....	....	....	....	....	....	....	256	343	74	25	19
14....	....	....	....	....	....	....	....	320	320	74	34	19
15....	....	....	....	....	....	....	....	285	298	64	40	25
16....	....	....	....	....	....	....	....	276	256	64	34	19
17....	....	....	....	....	....	....	....	298	236	74	30	19
18....	....	....	....	....	....	....	....	298	236	74	30	25
19....	....	....	....	....	....	....	....	298	218	64	25	22
20....	....	....	....	....	....	....	....	276	200	55	30	22
21....	....	....	....	....	....	....	115	276	168	55	25	22
22....	....	....	....	....	....	....	115	236	153	47	25	22
23....	....	....	....	....	....	....	132	236	138	47	25	22
24....	....	....	....	....	....	....	118	218	138	47	25	22
25....	....	....	....	....	....	....	138	218	138	47	25	19
26....	....	....	....	....	....	....	110	256	138	47	25	19
27....	....	....	....	....	....	....	97	218	138	40	25	19
28....	....	....	....	....	....	....	84	184	138	55	22	19
29....	....	....	....	....	....	....	84	184	138	47	19	19
30....	....	....	....	....	....	....	84	153	124	47	19	19
31....	....	....	....	....	....	....	....	124	....	47	17	....
Total	....	....	....	....	....	....	....	6922	6431	2173	888	602
Mean.	....	....	....	....	....	....	80	223	214	70.1	28.6	20.1
Max..	....	....	....	....	....	....	....	320	390	124	47	25
Min..	....	....	....	....	....	....	....	110	124	40	17	17
Acre-ft.	....	....	....	....	....	....	4760	13700	12700	4310	1760	1200

Discharge of La Garita Creek Near La Garita for Year Ending September 30, 1923.
Drainage Area, 61 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	36	47	23	19	47
2....	....	....	....	....	....	....	....	36	48	19	19	47
3....	....	....	....	....	....	....	....	37	42	19	17	47
4....	....	....	....	....	....	....	....	48	43	23	19	48
5....	....	....	....	....	....	....	....	49	44	32	19	54
6....	....	....	....	....	....	....	....	49	39	19	16	46
7....	....	....	....	....	....	....	....	56	44	23	17	47
8....	....	....	....	....	....	....	....	56	62	37	19	44
9....	....	....	....	....	....	....	....	57	56	19	23	44
10....	....	....	....	....	....	....	....	63	50	23	23	44
11....	....	....	....	....	....	....	....	70	39	27	42	43
12....	....	....	....	....	....	....	....	74	39	27	107	33
13....	....	....	....	....	....	....	....	67	39	19	38	43
14....	....	....	....	....	....	....	....	72	39	113	44	30
15....	....	....	....	....	....	....	....	63	39	36	43	31
16....	....	....	....	....	....	....	....	73	38	41	48	32
17....	....	....	....	....	....	....	....	70	38	52	46	44
18....	....	....	....	....	....	....	....	74	38	47	63	63
19....	....	....	....	....	....	....	....	66	38	41	57	56
20....	....	....	....	....	....	....	....	58	38	35	63	63
21....	....	....	....	....	....	....	....	51	38	33	62	66
22....	....	....	....	....	....	....	....	55	38	33	102	75
23....	....	....	....	....	....	....	....	58	33	31	81	58
24....	....	....	....	....	....	....	....	52	33	30	68	78
25....	....	....	....	....	....	....	....	54	28	29	73	66
26....	....	....	....	....	....	....	....	49	28	24	67	66
27....	....	....	....	....	....	....	....	43	27	34	55	66
28....	....	....	....	....	....	....	....	50	27	34	49	66
29....	....	....	....	....	....	....	....	46	23	24	54	60
30....	....	....	....	....	....	....	....	46	23	24	48	54
31....	....	....	....	....	....	....	....	47	....	20	57	....
Total	....	....	....	....	....	....	....	1725	1158	991	1458	1571
Mean.	....	....	....	....	....	....	....	55.6	38.6	32.0	47.0	52.4
Max..	....	....	....	....	....	....	....	74	62	113	107	78
Min..	....	....	....	....	....	....	....	36	23	19	16	30
Acre-ft.	....	....	....	....	....	....	....	3420	2300	1970	2890	3120

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Garita Creek Near La Garita for Year Ending September 30, 1924.
Drainage Area, 61 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	51	....	....	....	....	....	45	143	87	29	12	5
2....	56	....	....	....	....	....	45	175	84	26	12	5
3....	66	....	....	....	....	....	45	242	84	24	12	5
4....	68	....	....	....	....	....	45	262	87	21	12	5
5....	68	....	....	....	....	....	45	276	91	23	12	5
6....	54	....	....	....	....	....	60	262	88	20	12	5
7....	48	....	....	....	....	....	160	274	90	19	8	5
8....	42	....	....	....	....	....	140	290	91	32	8	5
9....	42	....	....	....	....	....	90	304	91	19	8	5
10....	41	....	....	....	....	....	60	316	84	20	8	5
11....	42	....	....	....	....	....	100	286	87	20	8	5
12....	42	....	....	....	....	....	120	292	77	18	8	5
13....	42	....	....	....	....	....	119	240	76	18	8	5
14....	42	....	....	....	....	....	189	254	68	19	9	5
15....	42	....	....	....	....	....	177	248	64	19	14	5
16....	42	....	....	....	....	....	132	242	60	18	16	5
17....	42	....	....	....	....	....	90	226	64	18	8	5
18....	40	....	....	....	....	....	88	218	58	17	8	5
19....	34	....	....	....	....	....	109	206	58	14	8	5
20....	33	....	....	....	....	....	134	211	43	13	8	5
21....	31	....	....	....	....	....	139	211	42	13	8	5
22....	30	....	....	....	....	....	180	193	40	13	8	5
23....	25	....	....	....	....	....	216	180	36	13	5	5
24....	27	....	....	....	....	....	222	166	38	12	5	5
25....	32	....	....	....	....	....	268	159	40	12	5	5
26....	37	....	....	....	....	....	268	130	34	12	5	5
27....	42	....	....	....	....	....	137	130	34	12	5	5
28....	40	....	....	....	....	....	124	109	32	12	5	5
29....	40	....	....	....	....	....	119	104	32	12	5	5
30....	40	....	....	....	....	....	122	106	29	12	5	5
31....	40	....	....	....	....	....	....	91	....	12	5	....
Total	1321	....	....	....	....	....	3788	6546	1889	542	257	150
Mean.	42.6	....	....	....	....	....	126	211	63.0	17.5	8.29	5
Max..	68	....	....	....	....	....	268	316	91	32	16	5
Min..	25	....	....	....	....	....	45	91	29	12	5	5
Acre-ft.	2620	....	....	....	....	....	7500	13000	3750	1080	510	298

Discharge of Carnero Creek at La Garita for Year Ending September 30, 1923.
Drainage Area, 117 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	7	....	....	....	....	....	20	29	29	6	20	40
2....	7	....	....	....	....	....	20	34	29	6	12	40
3....	7	....	....	....	....	....	20	40	24	12	20	40
4....	7	....	....	....	....	....	20	40	24	6	16	40
5....	7	....	....	....	....	....	20	53	24	6	20	34
6....	7	....	....	....	....	....	25	53	24	12	12	34
7....	7	....	....	....	....	....	25	53	20	16	12	24
8....	7	....	....	....	....	....	25	53	29	12	12	24
9....	7	....	....	....	....	....	25	53	29	12	20	24
10....	7	....	....	....	....	....	25	53	24	12	34	24
11....	7	....	....	....	....	....	30	53	24	6	40	20
12....	7	....	....	....	....	....	30	53	24	6	40	20
13....	7	....	....	....	....	....	30	53	34	6	34	24
14....	7	....	....	....	....	....	30	53	34	16	29	29
15....	7	....	....	....	....	....	30	53	24	16	40	34
16....	7	....	....	....	....	....	29	46	20	12	40	29
17....	7	....	....	....	....	....	34	40	16	24	53	29
18....	14	....	....	....	....	....	29	40	12	12	53	46
19....	14	....	....	....	....	....	34	40	12	24	60	29
20....	14	....	....	....	....	....	20	40	12	16	53	46
21....	14	....	....	....	....	....	20	46	12	16	53	40
22....	14	....	....	....	....	....	20	46	9	12	53	29
23....	14	....	....	....	....	....	20	46	9	9	46	29
24....	14	....	....	....	....	....	20	46	9	6	53	40
25....	14	....	....	....	....	....	20	46	6	6	53	34
26....	14	....	....	....	....	....	20	40	6	40	46	46
27....	14	....	....	....	....	....	29	40	6	20	40	40
28....	14	....	....	....	....	....	24	40	6	20	40	40
29....	14	....	....	....	....	....	29	40	6	16	40	40
30....	14	....	....	....	....	....	29	34	6	12	46	34
31....	14	....	....	....	....	....	....	29	....	16	53	....
Total	315	....	....	....	....	....	752	1385	543	411	1143	1002
Mean.	10.2	....	....	....	....	....	25.1	44.7	18.1	13.3	36.9	33.4
Max..	14	....	....	....	....	....	34	53	34	40	60	46
Min..	7	....	....	....	....	....	20	29	6	6	12	20
Acre-ft.	627	....	....	....	....	....	1490	2750	1080	818	2270	1990

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Carnero Creek Near La Garita for Year Ending September 30, 1924.
Drainage Area, 117 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	46	....	....	....	....	....	40	136	106	16	11	5
2....	40	....	....	....	....	....	40	136	96	17	10	5
3....	38	....	....	....	....	....	40	184	94	16	10	5
4....	38	....	....	....	....	....	40	152	101	16	9	4
5....	34	....	....	....	....	....	40	240	103	16	18	4
6....	40	....	....	....	....	....	142	309	106	19	18	4
7....	34	....	....	....	....	....	290	192	96	26	13	4
8....	40	....	....	....	....	....	257	216	87	29	10	4
9....	38	....	....	....	....	....	103	202	72	26	9	4
10....	34	....	....	....	....	....	89	216	73	36	9	4
11....	29	....	....	....	....	....	164	216	57	29	8	4
12....	31	....	....	....	....	....	230	240	50	29	8	4
13....	29	....	....	....	....	....	418	296	60	22	8	4
14....	27	....	....	....	....	....	500	230	51	24	7	4
15....	27	....	....	....	....	....	56	108	45	30	7	4
16....	29	....	....	....	....	....	28	108	55	23	7	4
17....	29	....	....	....	....	....	52	136	47	21	6	4
18....	29	....	....	....	....	....	38	172	46	24	6	4
19....	29	....	....	....	....	....	78	240	40	20	6	4
20....	24	....	....	....	....	....	78	192	44	15	6	4
21....	20	....	....	....	....	....	152	172	38	13	6	4
22....	20	....	....	....	....	....	216	172	36	11	6	4
23....	20	....	....	....	....	....	172	152	32	11	6	4
24....	20	....	....	....	....	....	285	142	34	11	6	4
25....	20	....	....	....	....	....	126	139	36	11	6	4
26....	20	....	....	....	....	....	62	115	30	11	6	4
27....	20	....	....	....	....	....	45	115	30	10	6	4
28....	20	....	....	....	....	....	50	113	30	17	6	4
29....	18	....	....	....	....	....	56	94	40	25	5	4
30....	22	....	....	....	....	....	70	92	26	18	5	4
31....	20	....	....	....	....	....	....	92	....	11	5	....
Total	885	....	....	....	....	....	3957	5319	1761	603	249	123
Mean.	28.6	....	....	....	....	....	132	172	58.7	19.5	8.03	4.10
Max..	46	....	....	....	....	....	500	309	106	36	18	5
Min..	18	....	....	....	....	....	....	92	26	10	5	4
Acre-ft.	1760	....	....	....	....	....	7860	10600	3490	1200	494	244

Discharge of Saguache Creek at Saguache for Year Ending September 30, 1923.
Drainage Area, 595 Square Miles. Altitude, 7,800 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	37	36	....	....	....	....	50	63	253	141	134	134
2....	37	39	....	....	....	....	50	63	253	127	227	127
3....	36	37	....	....	....	....	50	76	253	134	134	127
4....	36	35	....	....	....	....	50	91	262	134	115	134
5....	36	36	....	....	....	....	50	109	262	148	121	127
6....	36	36	....	....	....	....	60	109	244	170	148	121
7....	36	38	....	....	....	....	60	102	235	170	109	102
8....	36	40	....	....	....	....	60	115	262	163	109	91
9....	36	44	....	....	....	....	60	127	262	163	102	86
10....	36	44	....	....	....	....	60	141	227	155	91	81
11....	36	40	....	....	....	....	60	141	194	163	102	81
12....	37	40	....	....	....	....	67	141	210	163	155	76
13....	37	40	....	....	....	....	76	115	253	127	178	86
14....	38	40	....	....	....	....	63	127	244	163	170	141
15....	37	40	....	17.2	....	....	60	121	235	178	202	121
16....	37	40	....	....	....	....	57	109	227	148	202	121
17....	37	40	....	....	....	....	63	121	218	134	218	115
18....	37	30	....	....	....	....	71	127	194	178	235	141
19....	37	30	....	....	....	....	81	134	194	178	262	148
20....	37	30	....	....	....	....	67	148	186	163	218	115
21....	37	30	....	....	....	....	57	178	210	163	202	102
22....	38	30	....	....	....	....	57	186	178	141	218	102
23....	38	30	....	....	....	....	52	178	163	115	235	102
24....	38	30	....	....	....	....	50	178	155	109	194	141
25....	38	30	....	....	....	....	50	210	155	109	163	121
26....	37	30	....	....	....	....	54	235	163	109	155	115
27....	35	30	....	....	....	....	54	253	178	155	134	109
28....	36	30	....	....	....	....	54	271	163	127	127	109
29....	36	30	....	....	....	....	54	271	141	91	109	115
30....	36	30	....	....	....	....	63	262	127	76	134	115
31....	36	....	....	....	....	....	....	244	....	86	134	....
Total	1137	1055	....	....	....	....	1760	4746	6301	4381	5037	3406
Mean.	36.7	35.2	24	17	20	35	58.7	153	210	141	162	114
Max..	38	....	....	....	....	....	81	271	262	178	262	148
Min..	35	....	....	....	....	....	....	63	127	76	91	76
Acre-ft.	2260	2090	1480	1050	1110	2150	3490	9410	12500	8670	9960	6780

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Saguache Creek at Ward's Ranch for Year Ending September 30, 1924.
Drainage Area, 595 Square Miles. Altitude, 7,800 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	109	86	....	....	....	....	100	199	300	135	80	43
2....	103	92	....	....	....	....	120	268	280	125	72	39
3....	115	86	....	....	....	....	140	346	278	123	66	34
4....	109	72	....	....	....	....	130	469	324	118	79	33
5....	109	72	....	....	....	....	150	481	400	119	83	37
6....	109	67	....	....	....	....	160	455	440	135	80	40
7....	103	67	....	....	....	....	240	389	415	178	70	42
8....	92	67	....	....	....	....	350	371	406	184	60	39
9....	92	72	....	....	....	....	300	378	338	170	57	39
10....	97	67	....	....	....	....	275	415	308	157	58	40
11....	97	97	....	....	....	....	216	452	298	156	59	48
12....	103	72	....	....	....	....	203	481	318	131	55	44
13....	121	60	....	....	....	....	326	498	362	112	56	38
14....	109	67	....	....	....	....	476	524	378	102	67	35
15....	103	42	....	....	....	....	602	488	356	101	62	34
16....	97	42	....	....	....	....	320	486	344	100	55	39
17....	97	38	....	....	....	....	129	486	324	117	54	47
18....	86	36	....	....	....	....	115	486	293	119	48	44
19....	86	34	....	....	....	....	150	486	258	97	45	41
20....	81	34	....	....	....	....	197	514	232	87	41	38
21....	81	34	....	....	....	....	312	501	218	79	40	40
22....	76	36	....	....	....	....	380	498	205	71	40	38
23....	92	38	....	....	....	....	448	479	197	70	40	38
24....	92	42	....	....	....	....	498	443	190	74	40	36
25....	86	38	....	....	....	....	462	479	177	74	45	35
26....	86	32	....	....	....	....	278	452	166	71	41	34
27....	76	26	....	....	....	....	165	448	157	71	37	34
28....	76	22	....	....	....	....	165	464	152	77	35	36
29....	81	22	....	....	....	....	150	419	154	87	34	38
30....	76	22	....	....	....	....	162	354	143	85	34	40
31....	76	....	....	....	....	....	....	330	....	79	38	....
Total	2916	1582	....	....	....	....	7719	13539	8411	3404	1671	1163
Mean.	94.1	52.7	....	....	....	....	257	437	280	110	53.9	38.8
Max..	121	97	....	....	....	....	602	524	440	184	83	48
Min..	76	22	....	....	....	....	....	199	143	70	34	33
Acre-ft.	5790	3140	....	....	....	....	15300	26900	16700	6760	3310	2310

Discharge of Kerber Creek Near Villa Grove for Year Ending September 30, 1923.
Drainage Area, 80 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	....	38	18	23	13
2....	....	....	....	....	....	....	....	....	38	13	34	23
3....	....	....	....	....	....	....	....	....	40	13	34	23
4....	....	....	....	....	....	....	....	....	40	13	34	18
5....	....	....	....	....	....	....	....	....	44	13	34	13
6....	....	....	....	....	....	....	....	....	44	23	34	13
7....	....	....	....	....	....	....	....	....	42	13	34	10
8....	....	....	....	....	....	....	....	....	42	13	18	6
9....	....	....	....	....	....	....	....	....	28	13	13	6
10....	....	....	....	....	....	....	....	....	34	28	13	6
11....	....	....	....	....	....	....	....	....	23	28	13	10
12....	....	....	....	....	....	....	....	....	28	23	23	10
13....	....	....	....	....	....	....	....	....	28	18	34	10
14....	....	....	....	....	....	....	....	....	28	23	28	13
15....	....	....	....	....	....	....	....	....	28	23	23	18
16....	....	....	....	....	....	....	....	....	34	23	28	13
17....	....	....	....	....	....	....	....	....	28	23	49	13
18....	....	....	....	....	....	....	....	....	28	23	34	23
19....	....	....	....	....	....	....	....	....	34	23	49	23
20....	....	....	....	....	....	....	....	....	42	18	49	23
21....	....	....	....	....	....	....	....	....	42	18	49	23
22....	....	....	....	....	....	....	....	....	34	18	57	23
23....	....	....	....	....	....	....	....	....	34	13	57	18
24....	....	....	....	....	....	....	....	....	23	13	49	18
25....	....	....	....	....	....	....	....	....	23	13	49	23
26....	....	....	....	....	....	....	....	....	23	13	42	23
27....	....	....	....	....	....	....	....	....	18	23	34	18
28....	....	....	....	....	....	....	....	....	18	23	23	23
29....	....	....	....	....	....	....	....	....	13	18	23	23
30....	....	....	....	....	....	....	....	....	18	18	18	18
31....	....	....	....	....	....	....	....	....	....	18	13	....
Total	....	....	....	....	....	....	....	....	937	573	1025	497
Mean.	....	....	....	....	....	....	....	....	31.2	18.5	33.1	16.6
Max..	....	....	....	....	....	....	....	....	44	28	57	23
Min..	....	....	....	....	....	....	....	....	13	13	13	6
Acre-ft.	....	....	....	....	....	....	....	....	1860	1140	2040	988

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Kerber Creek Near Villa Grove for Year Ending September 30, 1924.
Drainage Area, 80 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	10	6	....	....	....	....	22	36	76	31	11	5
2....	10	10	....	....	....	....	28	36	66	26	8	5
3....	10	10	....	....	....	....	36	36	76	26	6	5
4....	10	13	....	....	....	....	32	43	97	22	6	5
5....	10	13	....	....	....	....	36	50	108	22	6	5
6....	10	13	....	....	....	....	38	58	134	22	6	5
7....	10	13	....	....	....	....	43	58	134	22	6	5
8....	10	13	....	....	....	....	47	66	108	18	6	5
9....	10	10	....	....	....	....	46	66	108	18	6	5
10....	10	13	....	....	....	....	44	76	108	18	6	5
11....	10	....	....	....	....	....	36	86	108	14	6	5
12....	10	....	....	....	....	....	36	108	108	14	6	5
13....	10	....	....	....	....	....	43	108	121	14	8	5
14....	18	....	....	....	....	....	66	134	121	14	11	5
15....	18	....	....	....	....	....	58	174	121	14	11	5
16....	18	....	....	....	....	....	43	174	108	18	8	5
17....	18	....	....	....	....	....	36	174	97	18	8	5
18....	13	....	....	....	....	....	31	174	86	18	8	5
19....	13	....	....	....	....	....	31	174	76	14	8	5
20....	10	....	....	....	....	....	36	174	66	14	8	5
21....	10	....	....	....	....	....	43	191	66	14	6	5
22....	10	....	....	....	....	....	50	208	58	11	6	5
23....	10	....	....	....	....	....	58	134	50	11	6	5
24....	6	....	....	....	....	....	76	134	50	11	6	5
25....	6	....	....	....	....	....	66	134	50	11	6	5
26....	6	....	....	....	....	....	50	121	50	11	5	5
27....	13	....	....	....	....	....	58	134	50	11	5	3
28....	13	....	....	....	....	....	50	121	43	11	5	3
29....	6	....	....	....	....	....	50	108	31	11	5	5
30....	4	....	....	....	....	....	43	97	31	8	5	5
31....	6	....	....	....	....	....	....	66	....	8	5	....
Total	328	....	....	....	....	....	1332	3453	2506	495	209	146
Mean.	10.6	8.0	....	....	....	....	44.4	111	83.5	16.0	6.74	4.87
Max..	18	....	....	....	....	....	76	208	134	31	11	5
Min..	4	....	....	....	....	....	22	36	31	8	5	3
Acre-ft.	652	476	....	....	....	....	2640	6820	4970	984	414	290

Discharge of San Luis Creek at Villa Grove, Colo., for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	6.4	....	....	....	....	....	....	4 5	39	9.4	10	29
2....	6.4	....	....	....	....	....	....	4.5	37	9.4	12	28
3....	6.4	....	....	....	....	....	....	4.8	44	9.8	14	27
4....	6.4	....	....	....	....	....	....	4.5	44	9.4	11	29
5....	6.8	....	....	....	....	....	....	4.8	45	10	8.4	27
6....	6.4	....	....	....	....	....	....	4.8	45	9.8	8.4	24
7....	6.4	....	....	....	....	....	....	4.5	44	11	17	29
8....	6.8	....	....	....	....	....	....	4.8	61	11	20	23
9....	6.8	....	....	....	....	....	....	4.5	59	10	17	21
10....	7.2	....	....	....	....	....	....	4.8	50	9.8	13	20
11....	7.2	....	....	....	....	....	....	4.5	46	9.4	9.8	19
12....	7.2	....	....	....	....	....	....	4.5	42	9.4	11	17
13....	6	....	....	....	....	....	....	5.7	38	9.8	17	15
14....	5.6	....	....	....	....	....	....	9.4	36	8.9	40	17
15....	5.2	....	....	....	....	....	....	15	40	9.4	24	20
16....	5.2	....	....	....	....	....	....	9.8	40	14	35	23
17....	5.6	....	....	....	....	....	3.6	8.9	39	13	21	27
18....	6.8	....	....	....	....	....	3.6	8.9	42	15	44	84
19....	6.8	....	....	....	....	....	3.6	9.8	34	13	54	54
20....	6.8	....	....	....	....	....	3.9	11	32	14	54	41
21....	6.4	....	....	....	....	....	4.5	12	32	12	56	33
22....	6.4	....	....	....	....	....	4.2	12	19	9.4	65	29
23....	6.4	....	....	....	....	....	4.5	12	17	10	64	46
24....	6.4	....	....	....	....	....	4.2	12	13	10	60	57
25....	6.4	....	....	....	....	....	4.5	11	12	11	63	53
26....	6.8	....	....	....	....	....	4.5	13	13	11	62	49
27....	6.8	....	....	....	....	....	4.5	24	13	10	53	47
28....	7.2	....	....	....	....	....	4.5	22	11	10	43	46
29....	7.2	....	....	....	....	....	4.5	24	9.8	9.8	30	44
30....	7.2	....	....	....	....	....	4 5	34	9.4	9.8	30	44
31....	7.6	....	....	....	....	....	....	38	....	7.5	29	....
Total	203.2	....	....	....	....	....	....	348	1006.2	326	995.6	1022
Mean.	6.56	....	....	....	....	....	4	11.2	33.5	10.5	32.1	34.1
Max..	7.6	....	....	....	....	....	....	38	61	15	65	84
Min...	5.2	....	....	....	....	....	....	4.5	9.4	7.5	8.4	15
Acre-ft.	403	....	....	....	....	....	238	689	1990	646	1970	2030

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Luis Creek Near Villa Grove for Year Ending September 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	40	30	15	....	....	....	81	89	206	9	9	9
2....	40	30	14	....	....	....	140	77	135	8	10	9
3....	37	30	12	....	....	....	180	69	102	9	9	8
4....	37	32	11	....	....	....	154	105	114	8	10	8
5....	35	30	11	....	....	....	182	124	110	8	11	8
6....	35	30	....	....	....	....	186	156	118	11	12	8
7....	34	24	....	....	....	....	262	154	102	11	12	8
8....	31	26	....	....	....	....	334	180	86	13	12	8
9....	30	24	....	....	....	....	329	167	86	13	12	8
10....	30	24	....	....	....	....	300	172	118	14	12	10
11....	30	47	....	....	....	....	200	200	105	13	12	11
12....	30	41	....	....	....	....	200	206	102	13	12	12
13....	27	31	....	....	....	....	200	200	105	12	11	11
14....	34	30	....	....	....	....	267	234	134	12	11	10
15....	33	26	....	....	....	....	250	250	129	10	11	9
16....	30	21	....	....	....	....	140	250	119	11	11	9
17....	30	21	....	....	....	....	61	250	116	11	11	8
18....	30	18	....	....	....	....	94	262	104	11	10	8
19....	29	18	....	....	....	....	54	267	113	11	10	8
20....	29	18	....	....	....	....	51	286	64	11	10	8
21....	30	14	....	....	....	....	64	250	47	10	10	8
22....	26	16	....	....	....	....	94	255	37	12	10	8
23....	26	16	....	....	....	....	88	248	30	10	10	8
24....	38	15	....	....	....	....	108	248	29	11	10	8
25....	28	15	....	....	....	....	121	255	28	10	9	8
26....	32	17	....	....	....	....	94	276	25	10	9	8
27....	36	17	....	....	....	....	149	329	21	10	9	8
28....	36	17	....	....	....	....	127	300	14	10	10	8
29....	35	16	....	....	....	....	111	276	14	10	10	8
30....	30	16	....	....	....	....	97	243	14	10	10	8
31....	30	....	....	....	....	....	....	236	....	9	9	8
Total	998	710	....	....	....	....	4718	6614	2527	331	324	258
Mean.	32.2	23.7	11	....	....	....	157	213	84.2	10.7	10.5	8.60
Max..	40	47	....	....	....	....	334	329	206	14	12	12
Min...	26	14	....	....	....	....	51	69	14	8	9	8
Acre-ft.	1980	1410	676	....	....	....	9340	13100	5010	658	646	512

Unless otherwise noted, all discharges are in cubic feet per second.

GREEN RIVER DRAINAGE

YAMPA RIVER AT STEAMBOAT SPRINGS

Location—On First Street bridge in Steamboat Springs.
Records Available—May 3, 1904, to October 31, 1906; March 1, 1910, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

YAMPA RIVER NEAR MAYBELL

Location—In Sec. 2, T. 6 N., R. 95 W., three miles east of Maybell.
Records Available—April 24, 1916, to September 30, 1924. From April 17, 1904, to October 31, 1905, and June 12, 1910, to November 30, 1912, a station was maintained nine miles below the present station.
Gage—Automatic recording gage.
Accuracy—Records considered good.

ELK RIVER NEAR TRULL

Location—In Sec. 6, T. 6 N., R. 85 W., on Steamboat Springs-Craig highway.
Records Available—May 2, 1904, to August 16, 1906; May 1, 1910, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered good.

WILLIAMS RIVER NEAR HAMILTON

Location—In Sec. 21, T. 5 N., R. 91 W., on Craig-Meeker highway.
Records Available—April 29, 1904, to October 31, 1906; April 15, 1910, to September 30, 1924.
Gage—Chain gage.
Accuracy—Records considered good.

LITTLE SNAKE RIVER NEAR DIXON, WYOMING

Location—In Sec. 6, T. 12 N., R. 90 W., one mile west of Dixon, Wyoming.
Records Available—May 27, 1910, to September 30, 1923.
Gage—Chain gage.
Accuracy—Records considered good.

LITTLE SNAKE RIVER NEAR LILY

Location—In Sec. 20, T. 7 N., R. 98 W., sixteen miles west of Sunbeam and six miles above mouth.

Records Available—May 1, 1922, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

SOUTH FORK LITTLE SNAKE RIVER AT FLEMINGS

Location—In Sec. 1, T. 11 N., R. 87 W., at Flemings, six miles above mouth.

Records Available—April 8, 1922, to September 30, 1923.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

FOUR MILE CREEK AT RANGER STATION NEAR BAGGS, WYOMING

Location—In Sec. 9, T. 10 N., R. 90 W., twenty miles southeast of Baggs, Wyoming.

Records Available—May 1, 1912, to July 1, 1923.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

WILLOW CREEK AT RYAN'S RANCH NEAR BAGGS, WYO.

Location—In Sec. 26, T. 11 N., R. 90 W., twenty-two miles southeast of Baggs, Wyoming.

Records Available—May 4, 1912, to July 31, 1923.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

WHITE RIVER NEAR MEEKER

Location—In Sec. 24, T. 1 N., R. 93 W., three and one-half miles east of Meeker.

Records Available—May 7, 1910, to September 30, 1924. From April 12, 1904, to October 31, 1906, a station was maintained two and one-half miles below the present station.

Gage—Automatic recording gage.

Accuracy—Records considered good.

WHITE RIVER NEAR WATSON, UTAH

Location—In Sec. 1, T. 1 S., R. 105 W., at bridge on Vernal-Dragon highway.

Records Available—April 1 to October 31, 1906; April 1, 1923, to September 30, 1924; at Rangely, twenty miles above this station, April 15, 1904. to October 31, 1905, and May 20 to November 23, 1918.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Discharge of Yampa River at Steamboat Springs for Year Ending Sept. 30, 1923.
Drainage Area, 500 Square Miles. Altitude, 6,680 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	85	85	....	....	....	....	180	1630	3400	864	330	158
2....	85	78	....	....	....	....	180	1480	3400	788	314	158
3....	84	78	....	....	....	....	180	1440	3520	713	314	152
4....	82	78	....	....	....	....	180	1530	3160	671	306	152
5....	81	81	....	....	....	....	180	1880	2920	596	299	147
6....	78	81	....	....	....	....	180	2460	2620	570	276	145
7....	78	92	....	....	....	....	180	2080	2740	546	291	145
8....	78	105	....	....	....	....	180	1980	3100	524	284	130
9....	78	118	....	....	....	....	186	2030	3220	501	284	120
10....	78	128	....	....	....	....	189	2130	3280	480	276	110
11....	78	128	....	117	....	168	195	2340	3220	460	276	108
12....	78	128	....	....	....	....	306	1880	3280	440	232	108
13....	78	108	....	....	....	....	440	1580	3340	396	223	110
14....	85	108	....	....	....	....	485	1440	3400	346	239	108
15....	84	108	....	....	....	....	518	1480	3400	546	314	114
16....	81	100	....	....	146	....	583	1300	3220	490	299	116
17....	81	92	....	....	....	....	750	1340	2860	414	226	128
18....	78	92	....	....	....	....	1130	1580	2460	440	192	140
19....	81	92	....	....	....	....	1340	1880	2290	440	201	145
20....	84	92	....	....	....	....	1260	2180	2180	409	265	147
21....	85	92	....	....	....	....	940	2480	2290	418	226	142
22....	85	92	....	....	....	....	676	2290	2030	334	195	147
23....	85	92	....	....	....	....	565	2180	1930	295	180	152
24....	85	92	....	....	....	....	490	2560	1830	396	174	166
25....	85	92	....	....	....	....	546	2920	1730	388	172	158
26....	86	92	....	....	....	....	940	3160	1630	379	166	158
27....	91	92	....	....	....	....	1390	3400	1480	375	166	166
28....	89	92	....	....	....	....	1340	3460	1130	362	166	174
29....	89	92	....	....	....	....	1440	3320	1050	354	163	174
30....	92	92	....	....	....	....	1730	3040	978	342	158	166
31....	85	....	....	....	....	....	....	3220	....	338	160	....
Total	2572	2892	....	....	....	....	18879	67570	77088	14635	7367	4184
Mean.	83.0	96.4	100	120	150	170	629	2180	2570	472	238	139
Max..	92	128	....	....	....	....	1730	3460	3400	864	330	174
Min...	78	78	....	....	....	....	180	1300	978	295	158	108
Acre-ft.	5100	5740	6150	7380	8330	10500	37400	134000	153000	29000	14600	8270

Discharge of Yampa River at Steamboat Springs for Year Ending Sept. 30, 1924.
Drainage Area, 500 Square Miles. Altitude, 6,680 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	146	179	....	....	....	....	160	546	1830	440	79	40
2....	156	174	....	....	....	....	180	691	1980	430	72	40
3....	169	174	....	....	....	....	200	940	2130	402	68	41
4....	177	166	....	....	....	....	220	1170	2290	383	63	40
5....	182	161	....	....	....	....	240	1260	2620	374	67	41
6....	182	156	....	....	....	....	280	1210	2860	370	67	43
7....	182	151	....	....	....	....	320	1090	3100	348	68	43
8....	185	144	....	....	....	....	392	1090	2860	340	68	41
9....	182	146	....	....	....	....	558	1020	2340	328	67	59
10....	188	146	....	....	....	....	750	1050	2400	316	68	90
11....	182	149	....	....	....	....	622	1210	2740	316	67	106
12....	182	146	....	....	....	....	577	1480	2980	243	65	106
13....	225	146	92	....	....	....	902	1730	3220	210	63	77
14....	196	146	....	....	....	....	1170	1780	3280	177	65	72
15....	169	151	....	....	....	....	1480	1830	2980	169	67	58
16....	156	151	....	....	....	....	826	1980	2680	164	67	54
17....	149	151	....	....	....	....	450	2240	2180	156	68	58
18....	142	151	....	....	....	....	348	2510	1930	146	67	72
19....	134	151	....	....	....	....	480	2400	1580	132	67	83
20....	132	146	....	....	....	104	788	2180	1390	117	67	85
21....	137	134	....	....	95	....	1050	2240	1130	106	63	86
22....	139	121	....	....	....	....	1170	2290	1020	102	65	98
23....	144	119	....	....	....	....	1210	2180	902	96	61	102
24....	156	117	....	....	....	....	1170	2180	826	86	58	94
25....	169	117	....	112	....	....	902	2510	735	81	51	85
26....	182	106	....	....	....	....	622	2920	615	83	46	85
27....	196	100	....	....	....	....	480	2680	558	83	44	92
28....	199	90	....	....	....	....	465	2510	460	83	41	96
29....	199	86	....	....	....	....	465	2130	450	86	41	121
30....	196	81	....	....	....	....	465	1880	440	90	41	151
31....	196	....	....	....	....	....	....	1680	....	86	40	....
Total	5329	4156	....	....	....	....	18942	54607	56506	6543	1901	2259
Mean.	172	139	95	102	98	114	631	1760	1880	211	61.3	75.3
Max..	225	179	....	....	....	....	1480	2920	3280	440	79	151
Min...	132	81	....	....	....	....	....	546	440	81	40	40
A.-ft.	10600	8270	5840	6270	5640	7010	37500	108000	112000	13000	3770	4480

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Yampa River Near Maybell for Year Ending Sept. 30, 1923.
Drainage Area, 3,670 Square Miles. Altitude, 5,900 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	210	260	210	....	....	....	500	7770	8940	3500	782	487
2....	210	260	420	....	....	....	500	7410	9230	3280	727	404
3....	210	260	210	....	....	....	600	7410	8850	3050	782	469
4....	210	260	310	....	....	....	700	7500	8940	2820	738	420
5....	165	235	360	....	....	....	800	8130	8850	2680	716	404
6....	165	210	360	....	....	....	900	9700	8310	2530	672	332
7....	135	210	360	....	....	....	1000	9040	7500	2390	650	300
8....	135	210	360	....	....	....	1200	8850	7050	2180	672	290
9....	135	260	360	....	....	....	1400	8490	7320	2320	694	280
10....	135	260	....	....	....	....	1600	8670	7590	2600	672	275
11....	135	310	....	....	378	....	1800	9140	7860	2600	815	280
12....	135	310	....	....	....	....	2000	9320	7770	2390	894	280
13....	165	310	....	....	....	....	2500	7680	8040	2250	705	280
14....	165	260	....	....	....	....	2300	6870	8220	2040	815	275
15....	165	260	....	....	....	....	2000	6510	8310	1830	760	275
16....	165	210	....	....	....	....	3400	5600	8040	2040	930	280
17....	210	260	....	....	....	436	3810	5980	8040	2040	848	300
18....	210	310	....	324	....	....	4370	5600	7590	1830	716	300
19....	210	285	....	....	....	....	4880	7950	6600	1690	650	332
20....	210	260	....	....	....	....	5720	8490	5980	1560	630	404
21....	210	260	....	....	....	....	5470	9320	5900	1490	590	523
22....	210	260	....	....	....	....	4290	9320	5980	1490	550	532
23....	210	210	....	....	....	....	3580	8400	5560	1560	532	460
24....	210	260	....	....	....	....	3050	8130	3220	1690	469	396
25....	210	310	....	....	....	....	2750	8850	4790	1760	436	356
26....	210	335	....	....	....	....	4090	9800	4790	1300	404	356
27....	210	360	....	....	....	....	5430	10300	4620	1170	364	404
28....	210	360	....	....	....	....	6780	10700	4540	1170	356	444
29....	210	310	....	....	....	....	6870	10600	4050	1110	332	428
30....	210	260	....	....	....	....	7320	9800	3650	942	316	428
31....	210	....	....	....	....	....	....	9140	....	815	332	....
Total	5790	8125	....	....	....	....	91610	260380	206130	62117	19549	10994
Mean.	187	271	360	320	380	430	3050	8400	6870	2000	631	366
Max..	210	360	....	....	....	....	7320	10700	9230	3500	894	532
Min...	135	210	....	....	....	....	....	7410	3220	815	316	275
A.-ft.	11500	16100	22100	19700	21100	26400	181000	516000	409000	123000	38800	21800

Discharge of Yampa River Near Maybell for Year Ending Sept. 30, 1924
Drainage Area, 3,670 Square Miles. Altitude, 5,900 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	391	401	....	....	....	....	400	2010	5520	1800	308	146
2....	401	391	....	....	....	....	800	2360	5000	1680	306	134
3....	411	342	....	....	....	....	1000	2920	5000	1540	303	139
4....	401	336	....	....	....	....	1060	3840	4320	1350	303	134
5....	391	371	....	....	....	....	1220	4740	5790	1220	300	158
6....	411	371	....	....	....	....	1480	4740	6420	1160	297	182
7....	421	362	....	....	....	....	1620	4400	6690	1080	294	208
8....	430	336	....	....	....	....	1800	4000	7140	1050	292	213
9....	440	328	....	....	....	....	2200	4080	6780	1100	292	213
10....	421	325	....	....	....	....	2800	3760	5610	1080	292	216
11....	450	336	....	....	....	....	3750	3840	5250	1080	289	218
12....	480	364	....	....	....	....	3200	4400	5700	1120	286	218
13....	470	362	....	....	....	....	3600	5080	6330	1250	281	218
14....	411	342	....	....	....	....	5000	5610	6780	1160	276	216
15....	381	342	....	....	....	....	5250	5700	6510	1100	270	221
16....	381	342	....	....	....	....	4240	5700	6420	1040	265	239
17....	381	342	....	....	....	....	2850	5880	6780	956	260	244
18....	371	342	....	....	....	....	2010	6330	6150	860	263	244
19....	362	342	....	....	....	....	1540	6780	5160	772	265	239
20....	342	342	....	....	....	....	1680	6510	4660	706	260	237
21....	342	330	....	....	....	....	2290	5880	3760	662	252	237
22....	440	325	....	....	....	....	2920	5700	3220	570	242	255
23....	490	320	....	....	....	....	3380	5790	3080	520	234	255
24....	520	310	....	....	....	....	3600	5880	2920	460	226	263
25....	500	305	....	....	....	....	3920	5610	2850	391	221	265
26....	480	300	....	....	....	....	3450	5790	2780	342	216	263
27....	440	300	....	....	....	....	2500	6780	2640	336	203	265
28....	421	300	....	....	....	358	2080	7050	2360	334	177	276
29....	440	300	240	251	291	....	1870	6690	2150	328	163	273
30....	421	300	....	....	....	....	1870	6240	1940	320	158	270
31....	421	....	....	....	....	....	....	6060	....	314	153	....
Total	13062	10079	....	....	....	....	75380	160150	145710	27681	7947	6659
Mean.	421	336	250	245	270	320	2510	5170	4860	893	256	222
Max..	520	401	....	....	....	....	5250	7050	7140	1800	308	276
Min...	342	....	....	....	....	....	....	2010	1940	314	153	134
A.-ft.	25900	20000	15400	15100	15500	19700	149000	318000	289000	54900	15700	13200

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Elk River at Trull for Year Ending Sept. 30, 1923.
Drainage Area, 415 Square Miles. Altitude, 6,650 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	92	73	....	....	....	....	130	1180	3540	1440	312	120
2....	84	76	....	....	....	....	130	1260	3200	1540	296	130
3....	76	76	....	....	....	....	150	1340	3280	1440	280	126
4....	70	79	....	....	....	....	170	1590	3280	1340	273	116
5....	68	86	....	....	....	....	200	1980	2960	1340	258	114
6....	63	92	....	....	....	....	210	2530	2670	1220	244	101
7....	60	92	....	....	....	....	220	2600	2390	1100	230	89
8....	63	95	....	....	....	....	240	2600	2530	1140	217	82
9....	63	106	....	....	....	....	280	2670	2960	1220	204	79
10....	65	116	....	....	....	....	300	2960	2740	1140	195	76
11....	65	114	....	....	....	....	350	3040	2740	990	220	76
12....	65	114	....	....	....	....	450	2050	2820	887	204	73
13....	65	96	....	....	....	....	500	1920	2820	792	180	72
14....	65	96	....	....	....	....	400	1740	2890	762	189	72
15....	68	96	....	....	....	....	400	1920	2890	955	288	76
16....	72	88	....	....	....	....	490	1490	2960	823	251	84
17....	69	80	....	....	....	....	582	1740	2820	707	201	92
18....	69	80	....	....	....	....	762	2390	2460	630	175	92
19....	68	80	....	....	....	....	990	2600	2250	559	189	92
20....	66	80	....	....	....	....	1200	2890	2320	606	186	92
21....	66	80	....	....	....	....	762	3040	2320	762	164	92
22....	66	80	....	....	....	....	606	2670	2120	606	149	92
23....	66	80	....	....	....	....	536	2460	2050	536	149	92
24....	69	80	....	98	....	....	490	2890	2180	490	149	92
25....	69	80	....	....	....	....	559	3370	2250	444	137	101
26....	69	80	....	....	108	....	823	3620	2180	513	120	110
27....	70	80	....	....	....	127	1030	3880	2250	490	110	110
28....	72	80	....	....	....	....	1060	3880	1920	392	105	120
29....	73	80	....	....	....	....	1030	3370	1800	360	101	130
30....	73	80	....	....	....	....	1260	3120	1590	344	101	142
31....	72	80	....	....	....	....	....	3200	....	328	110	....
Total	2141	2615	....	....	....	....	16310	77990	77180	25896	5987	2935
Mean.	69.1	87.2	90	96	100	120	544	2520	2570	835	193	97.8
Max..	92	116	....	....	....	....	1260	3880	3540	1540	312	142
Min...	60	73	....	....	....	....	....	1180	1590	328	101	72
Acre-ft.	4250	5190	5530	5900	5550	7380	32400	155000	153000	51300	11900	5820

Discharge of Elk River Near Trull for Year Ending Sept. 30, 1924.
Drainage Area, 415 Square Miles. Altitude, 6,650 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	154	128	....	....	....	....	140	790	1340	757	114	56
2....	147	114	....	....	....	....	150	1000	1440	630	108	58
3....	136	122	....	....	....	....	160	1340	1440	600	103	54
4....	128	108	....	....	....	....	180	1760	1810	544	99	50
5....	128	103	....	....	....	....	200	1700	2040	518	99	48
6....	128	108	....	....	....	....	220	1490	2220	492	98	48
7....	130	103	....	....	....	....	260	1290	2470	572	94	48
8....	132	107	....	....	....	....	280	1340	2100	630	89	44
9....	136	112	....	....	....	....	300	1160	1700	544	86	44
10....	154	101	....	....	....	....	380	1200	1700	444	83	52
11....	136	116	....	....	....	....	360	1440	2100	422	81	75
12....	139	112	....	....	....	....	320	1760	2540	422	81	78
13....	143	108	....	....	....	....	400	1920	2950	375	81	67
14....	139	105	....	....	....	....	480	2040	3170	330	86	58
15....	134	101	....	....	....	....	600	1980	3020	288	88	56
16....	139	103	....	....	....	104	400	2040	2670	262	83	58
17....	136	99	....	....	....	....	350	2220	2400	255	75	68
18....	124	108	....	....	....	....	300	2400	2040	251	72	74
19....	132	143	....	....	....	....	380	2220	1870	210	68	103
20....	122	132	....	....	100	....	500	1980	1700	195	67	83
21....	128	130	....	....	....	....	560	1870	1490	180	65	81
22....	134	122	....	....	....	....	660	1870	1290	167	64	81
23....	136	120	....	....	....	....	757	2100	1340	157	60	80
24....	134	115	....	90	....	....	928	1810	1390	147	59	77
25....	126	115	....	....	....	....	893	1810	1390	139	58	71
26....	136	105	....	....	....	....	600	2280	1290	132	58	75
27....	134	105	....	....	....	....	492	2280	1160	120	58	89
28....	132	90	....	....	....	....	492	2160	1000	118	56	89
29....	128	85	....	....	....	....	518	1980	893	124	52	89
30....	126	80	....	....	....	....	572	1760	824	122	50	91
31....	122	....	....	....	....	....	....	1490	....	118	60	....
Total	4153	3300	....	....	....	....	12832	54480	54787	10265	2395	2045
Mean.	134	110	90	90	98	110	428	1760	1830	331	77.3	68.2
Max..	154	143	....	....	....	....	928	2400	3170	757	114	103
Min...	122	....	....	....	....	....	....	790	824	118	50	44
Acre-ft.	8240	6550	5530	5530	5640	6760	25500	108000	109000	20400	4750	4060

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Williams River at Hamilton's for Year Ending Sept. 30, 1923.
Drainage Area, 341 Square Miles. Altitude, 6,400 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	15	20	15	....	....	....	....	1100	1220	342	106	82
2....	18	20	15	....	....	....	....	1050	1100	310	112	88
3....	18	18	18	....	....	....	....	1050	1080	291	106	82
4....	20	15	15	....	....	....	....	1060	1020	282	106	70
5....	18	15	15	....	....	....	....	1200	840	264	100	68
6....	18	18	15	....	....	....	....	1300	782	228	92	65
7....	20	18	15	....	....	....	....	1230	825	228	82	65
8....	20	20	15	....	....	....	....	1180	840	273	82	65
9....	18	18	15	....	....	....	....	1150	885	255	88	65
10....	18	18	13	....	....	....	....	1200	825	255	94	60
11....	18	20	14	....	....	....	....	1240	810	228	88	55
12....	18	20	15	....	....	....	....	960	855	273	94	55
13....	18	18	15	....	....	....	....	930	930	201	94	58
14....	18	18	15	....	....	....	....	840	945	192	130	72
15....	28	18	15	....	....	....	....	810	885	237	144	68
16....	28	18	15	....	....	....	....	726	870	210	176	60
17....	24	18	15	....	....	....	....	768	825	192	130	65
18....	24	18	15	....	....	....	....	1240	712	184	112	68
19....	24	20	15	....	....	....	....	1450	628	192	94	92
20....	24	18	15	....	....	....	....	1530	628	184	100	100
21....	28	18	15	....	....	....	....	1580	544	176	94	82
22....	20	15	15	....	....	....	....	1270	506	152	84	70
23....	18	18	15	....	....	....	....	1130	482	144	82	70
24....	18	18	15	....	....	....	....	1330	494	353	82	70
25....	24	20	15	....	....	....	....	1430	506	168	76	70
26....	20	15	15	....	....	....	....	1490	506	152	76	70
27....	18	15	15	....	....	....	....	1590	518	137	70	70
28....	20	15	15	....	....	....	....	1480	434	130	70	70
29....	18	20	15	....	....	....	....	1250	398	130	70	70
30....	20	20	15	....	....	....	....	1110	353	112	70	70
31....	18	....	15	....	....	....	....	1160	....	106	70	....
Total	629	540	465	....	....	....	....	36834	22246	6581	2974	2115
Mean.	20.3	18.0	15.0	....	....	....	....	1190	742	212	96.0	70.5
Max..	28	20	....	....	....	....	....	1580	1220	353	144	100
Min..	15	15	....	....	....	....	....	726	353	106	70	55
Acre-ft.	1250	1070	922	....	....	....	....	73200	44200	13000	5900	4200

Discharge of Williams River at Hamilton for Year Ending Sept. 30, 1924.
Drainage Area, 341 Square Miles. Altitude, 6,400 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	70	65	65	....	....	....	50	237	740	144	60	21
2....	76	65	62	....	....	....	60	331	740	130	60	20
3....	80	65	62	....	....	....	65	446	810	118	60	20
4....	76	65	62	....	....	....	80	614	885	118	60	20
5....	76	60	62	....	....	....	95	614	1130	112	60	20
6....	80	60	62	....	....	....	112	558	1000	100	60	20
7....	80	60	65	....	....	....	124	614	1160	106	55	20
8....	82	60	65	....	....	....	176	614	900	112	55	20
9....	80	70	65	....	....	....	192	600	712	130	55	20
10....	72	70	65	....	....	....	176	586	782	137	50	22
11....	70	70	65	....	....	....	144	698	840	168	50	40
12....	70	68	65	....	....	....	124	810	960	124	50	40
13....	65	65	65	....	....	....	144	915	1020	100	50	32
14....	70	65	65	....	....	....	246	945	990	100	50	32
15....	68	62	65	....	....	....	320	975	975	94	60	32
16....	65	62	65	....	....	....	176	1020	900	88	60	32
17....	65	62	65	....	....	....	124	1080	870	82	40	42
18....	65	62	65	....	....	....	112	1210	768	76	40	48
19....	65	62	65	....	....	....	112	1170	572	70	32	42
20....	60	65	65	....	....	....	137	1020	458	70	32	40
21....	65	62	65	....	....	....	210	960	386	65	26	32
22....	65	65	65	....	....	....	282	960	331	62	26	40
23....	65	68	65	....	....	....	353	885	331	60	22	40
24....	82	68	65	....	....	....	375	840	282	60	22	32
25....	80	62	65	....	....	....	320	870	246	55	22	40
26....	70	62	65	....	....	....	228	1130	228	55	22	40
27....	65	62	60	....	....	....	176	1000	184	58	18	40
28....	65	62	60	....	....	....	160	870	168	55	18	40
29....	65	65	60	....	....	....	168	796	168	55	18	45
30....	65	62	60	....	....	....	168	825	160	55	18	48
31....	65	....	60	....	....	....	....	754	....	58	19	....
Total	2187	1921	1975	....	....	....	5209	24947	19796	2817	1270	980
Mean.	70.5	64.0	63.7	....	....	....	174	805	660	90.9	41.0	32.7
Max..	82	70	65	....	....	....	375	1210	1160	168	60	48
Min..	60	60	60	....	....	....	50	237	160	55	18	20
Acre-ft.	4330	3810	3920	....	....	....	10400	49500	39300	5590	2520	1950

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Snake River at Dixon, Wyo., for Year Ending Sept. 30, 1923.
Drainage Area, 1,294 Square Miles. Altitude, 6,300 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	45	34	....	....	....	....	100	874	3420	422	40	40
2....	37	34	....	....	....	....	110	874	3210	358	40	40
3....	34	40	....	....	....	....	120	1050	2620	318	40	40
4....	34	40	....	....	....	....	130	1340	2560	318	40	40
5....	34	45	....	....	....	....	140	2060	2490	264	40	40
6....	34	50	....	....	....	....	150	2430	2370	204	40	37
7....	31	50	....	....	....	....	160	2940	2250	204	37	34
8....	31	45	....	....	....	....	170	3000	2310	204	34	34
9....	28	45	....	....	....	....	180	3120	2370	204	34	31
10....	28	40	....	....	....	....	190	3070	2490	248	34	31
11....	28	40	....	....	....	....	190	3350	2680	233	31	31
12....	31	40	....	....	....	....	280	1820	2680	218	31	34
13....	31	40	....	....	....	....	299	1700	2680	233	31	34
14....	31	40	....	....	....	....	248	1700	2620	218	34	37
15....	34	40	....	....	....	....	299	1760	2250	233	108	37
16....	34	40	....	....	....	....	338	1760	2120	218	158	40
17....	34	40	....	....	....	....	400	1940	1820	218	96	40
18....	34	40	....	....	....	....	640	2430	1470	218	74	45
19....	34	40	....	....	....	....	750	2810	1210	190	64	45
20....	34	40	....	....	....	....	640	3070	1050	190	57	40
21....	34	40	....	....	....	....	490	3630	942	162	50	40
22....	34	40	....	....	....	....	444	3490	874	148	40	40
23....	34	40	....	....	....	....	318	3210	874	162	40	40
24....	34	40	....	....	....	....	358	3210	810	176	40	45
25....	34	40	....	....	....	....	318	3490	780	148	40	64
26....	34	40	....	....	....	....	444	4140	694	121	40	64
27....	34	40	....	....	....	....	588	3770	640	74	40	74
28....	34	40	....	....	....	....	694	3770	538	64	40	74
29....	34	40	....	....	....	....	750	3560	514	57	40	64
30....	34	40	....	....	....	....	942	3350	444	57	40	74
31....	34	....	....	....	....	....	....	3490	....	50	40	....
Total	1035	1223	....	....	....	....	10880	82208	53780	6132	1513	1329
Mean.	33.3	40.8	....	....	....	....	363	2650	1790	198	48.8	44.3
Max..	45	50	....	....	....	....	942	4140	3420	422	158	74
Min...	28	34	....	....	....	....	100	874	444	50	31	31
Acre-ft.	2050	2430	....	....	....	....	21600	163000	107000	12200	3000	2640

Discharge of Little Snake at Lily Park for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	20	59	....	....	....	....	....	2590	3580	598	10	89
2....	24	52	....	....	....	....	....	2370	3450	532	8	104
3....	24	52	....	....	....	....	....	2370	3450	511	8	122
4....	24	52	....	....	....	....	....	2420	3260	532	8	127
5....	28	46	....	....	....	....	....	2820	3320	490	8	134
6....	28	46	....	....	....	....	....	3930	3320	450	8	134
7....	34	52	....	....	....	....	....	3450	3060	370	8	146
8....	28	46	....	....	....	....	....	3320	2700	262	8	134
9....	34	40	....	....	....	....	....	3060	2480	215	6	127
10....	34	46	....	....	....	....	....	3580	2940	172	6	122
11....	40	40	....	....	....	....	....	3650	3120	146	6	122
12....	40	40	....	....	....	....	....	3650	2940	122	6	134
13....	46	40	....	....	....	....	....	2820	2820	100	6	141
14....	46	40	....	....	....	....	....	2370	2820	172	6	134
15....	46	46	....	....	....	....	....	2260	2700	230	8	134
16....	46	46	....	....	....	....	....	2320	2640	370	172	139
17....	59	52	....	....	....	....	....	2150	2370	576	89	141
18....	52	52	....	....	....	....	....	2150	2260	532	49	146
19....	52	52	....	....	....	....	....	2370	2200	410	58	146
20....	52	52	....	....	....	....	....	2940	1800	370	89	146
21....	59	59	....	....	....	....	....	2700	1750	314	100	146
22....	52	66	....	....	....	....	....	2260	1440	172	111	146
23....	59	46	....	....	....	....	....	2150	1320	100	122	146
24....	59	46	....	....	....	....	....	3000	1170	100	118	146
25....	66	12	....	....	....	....	....	3580	1070	82	122	146
26....	66	59	....	....	....	....	....	4000	1030	49	113	146
27....	66	52	....	....	....	....	....	4450	999	37	100	146
28....	66	46	....	....	....	....	....	4750	966	37	93	146
29....	59	52	....	....	....	....	....	4900	900	37	89	146
30....	59	40	....	....	....	....	....	4450	694	37	80	146
31....	52	....	....	....	....	....	....	3860	....	24	82	....
Total	1420	1469	....	....	....	....	....	96690	68369	8149	1697	4082
Mean.	45.8	49.0	....	....	....	....	....	3120	2280	263	54.7	136
Max..	66	59	....	....	....	....	....	4900	3580	598	122	146
Min...	20	40	....	....	....	....	....	2150	694	24	6	89
Acre-ft.	2820	2920	....	....	....	....	....	192000	136000	16200	3360	8090

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Little Snake at Lily Park for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	194	....	....	....	....	....	600	1750	2940	186	0	0
2....	186	....	....	....	....	....	900	1850	2760	186	0	0
3....	183	....	....	....	....	....	950	1800	2590	172	0	0
4....	178	....	....	....	....	....	1000	2940	2640	186	0	0
5....	178	....	....	....	....	....	1100	3580	2320	172	0	0
6....	178	....	....	....	....	....	1150	3380	2200	158	0	0
7....	200	....	....	....	....	....	1200	3190	2050	158	0	0
8....	283	....	....	....	....	....	1400	2880	1950	144	0	0
9....	232	....	....	....	....	....	1800	2760	1600	130	0	0
10....	226	....	....	....	....	....	2000	2590	1280	116	0	0
11....	232	....	....	....	....	....	2600	2370	1200	116	0	0
12....	219	....	....	....	....	....	3000	2540	1100	130	0	116
13....	226	....	....	....	....	....	3200	2700	1140	116	0	0
14....	206	....	....	....	....	....	3000	2480	1170	103	0	0
15....	200	....	....	....	....	....	3000	2760	1200	103	0	0
16....	216	....	....	....	....	....	2820	2880	1200	90	0	0
17....	200	....	....	....	....	....	1900	3060	1100	79	0	0
18....	192	....	....	....	....	....	1260	3120	999	79	0	0
19....	186	....	....	....	....	....	1070	3260	933	79	0	0
20....	178	....	....	....	....	....	933	2820	644	79	0	0
21....	169	....	....	....	....	....	748	2760	668	57	0	4
22....	161	....	....	....	....	....	806	2820	532	57	0	12
23....	186	....	....	....	....	....	1070	2940	430	46	0	8
24....	186	....	....	....	....	....	1400	3060	336	46	0	14
25....	189	....	....	....	....	....	1440	3120	266	35	0	12
26....	194	....	....	....	....	....	1480	3190	232	24	0	8
27....	206	....	....	....	....	....	1480	3260	200	4	0	16
28....	194	....	68	....	....	....	1480	3520	200	2	0	24
29....	200	....	....	....	....	....	1560	3060	186	2	0	24
30....	200	....	....	....	....	....	1700	2940	186	0	0	24
31....	200	....	....	....	....	....	....	2940	....	0	0	....
Total	6178	....	....	....	....	....	48047	88320	36252	2855	0	262
Mean.	199	120	70	70	90	150	1600	2850	1210	92.1	0	8.73
Max..	283	....	....	....	....	....	....	3580	2940	186	0	116
Min...	161	....	....	....	....	....	....	1750	186	0	0	0
Acre-ft.	12200	7140	4300	4300	5180	9220	95200	175000	72000	5660	0	519

Discharge of South Fork Little Snake at Flemings for Year Ending Sept. 30, 1923.
Drainage Area, 22 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	2	4	....	....	....	....	8	49	124	17	3	4
2....	2	6	....	....	....	....	8	54	116	17	6	4
3....	2	6	....	....	....	....	10	70	116	17	6	3
4....	2	7	....	....	....	....	10	94	108	17	4	3
5....	2	3	....	....	....	....	12	116	94	12	4	2
6....	2	3	....	....	....	....	12	156	98	6	4	2
7....	2	3	....	....	....	....	14	140	88	6	6	2
8....	2	3	....	....	....	....	16	132	82	6	4	2
9....	2	3	....	....	....	....	18	140	108	14	3	2
10....	2	3	....	....	....	....	20	140	88	8	3	1
11....	2	4	....	....	....	....	24	132	76	7	3	1
12....	3	4	....	....	....	....	26	76	76	6	3	1
13....	2	....	....	....	....	....	29	70	76	6	3	1
14....	4	....	....	....	....	....	26	70	70	7	3	1
15....	4	....	....	....	....	....	26	76	64	14	2	1
16....	3	....	....	....	....	....	26	59	54	6	2	1
17....	3	....	....	....	....	....	29	88	44	6	2	2
18....	3	....	....	....	....	....	32	124	36	6	2	2
19....	3	....	....	....	....	....	36	124	32	3	2	4
20....	3	....	....	....	....	....	32	174	29	3	2	2
21....	4	....	....	....	....	....	20	148	29	4	2	2
22....	6	....	....	....	....	....	17	140	23	3	2	2
23....	4	....	....	....	....	....	12	156	20	3	2	2
24....	4	....	....	....	....	....	12	156	20	3	2	1
25....	4	....	....	....	....	....	12	156	17	3	2	1
26....	4	....	....	....	....	....	12	174	17	3	2	2
27....	4	....	....	....	....	....	26	165	14	2	3	4
28....	4	....	....	....	....	....	40	156	17	2	3	4
29....	4	....	....	....	....	....	49	140	17	2	4	4
30....	4	....	....	....	....	....	54	132	17	2	4	7
31....	4	....	....	....	....	....	....	132	....	2	4	....
Total	96	....	....	....	....	....	668	3739	1766	213	97	70
Mean.	3.1	3.0	....	....	....	....	22.3	121	58.9	6.87	3.13	2.33
Max..	6	....	....	....	....	....	54	174	124	17	6	7
Min...	2	....	....	....	....	....	8	49	14	2	2	1
Acre-ft.	191	179	....	....	....	....	1330	7440	3500	422	192	139

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Four Mile Creek at Ranger Station for Year Ending Sept. 30, 1923.
Drainage Area, 4 Square Miles. Altitude, 7,800 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	0.8	....	....	....	....	....	....	....	11	9.5	....	....
2....	0.8	....	....	....	....	....	....	....	11	8	....	....
3....	0.8	....	....	....	....	....	....	....	11	8	....	....
4....	0.8	....	....	....	....	....	....	....	13	9.5	....	....
5....	0.8	....	....	....	....	....	....	....	15	11	....	....
6....	1.8	....	....	....	....	....	....	....	17	11	....	....
7....	2.7	....	....	....	....	....	....	....	19	9.5	....	....
8....	1.8	....	....	....	....	....	....	....	17	9.5	....	....
9....	1.3	....	....	....	....	....	....	....	19	9.5	....	....
10....	1.8	....	....	....	....	....	....	....	19	9.5	....	....
11....	1.8	....	....	....	....	....	....	....	15	9.5	....	....
12....	1.8	....	....	....	....	....	....	....	13	9.5	....	....
13....	1.8	....	....	....	....	....	....	....	11	8	....	....
14....	1.8	....	....	....	....	....	....	....	15	8	....	....
15....	1.8	....	....	....	....	....	....	....	17	9.5	....	....
16....	1.8	....	....	....	....	....	....	....	15	6.8	....	....
17....	3.6	....	....	....	....	....	....	....	15	6.8	....	....
18....	2.7	....	....	....	....	....	....	....	13	8	....	....
19....	1.8	....	....	....	....	....	....	....	9.5	6.8	....	....
20....	2.7	....	....	....	....	....	....	....	11	5.6	....	....
21....	2.7	....	....	....	....	....	....	....	11	5.6	....	....
22....	1.8	....	....	....	....	....	....	....	11	4.6	....	....
23....	1.8	....	....	....	....	....	....	....	11	4.6	....	....
24....	1.8	....	....	....	....	....	....	....	13	5.6	....	....
25....	1.8	....	....	....	....	....	....	....	11	3.6	....	....
26....	1.8	....	....	....	....	....	....	....	11	3.6	....	....
27....	1.8	....	....	....	....	....	....	....	9.5	4.6	....	....
28....	1.8	....	....	....	....	....	....	....	9.5	3.6	....	....
29....	1.8	....	....	....	....	....	....	....	9.5	3.6	....	....
30....	1.8	....	....	....	....	....	....	....	11	3.6	....	....
31....	1.8	....	....	....	....	....	....	....	....	3.6	....	....
Total	55.7	....	....	....	....	....	....	....	394	220.1	....	....
Mean.	1.80	....	....	....	....	....	....	....	13.1	7.10	....	....
Max..	3.6	....	....	....	....	....	....	....	19	11	....	....
Min...	1.8	....	....	....	....	....	....	....	9.5	3.6	....	....
Acre-ft.	111	....	....	....	....	....	....	....	780	437	....	....

Discharge of Willow Creek at Ryan's Ranch for Year Ending Sept. 30, 1923.
Drainage Area, 5 Square Miles. Altitude, 8,000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1	....	....	....	....	....	....	....	94	36	....	....
2....	1	....	....	....	....	....	....	....	100	32	....	....
3....	1	....	....	....	....	....	....	....	100	32	....	....
4....	1	....	....	....	....	....	....	....	107	28	....	....
5....	1	....	....	....	....	....	....	....	114	28	....	....
6....	1	....	....	....	....	....	....	....	114	32	....	....
7....	1	....	....	....	....	....	....	....	122	28	....	....
8....	.8	....	....	....	....	....	....	....	114	28	....	....
9....	1	....	....	....	....	....	....	....	122	25	....	....
10....	1.5	....	....	....	....	....	....	....	130	25	....	....
11....	1	....	....	....	....	....	....	....	114	16	....	....
12....	.8	....	....	....	....	....	....	....	122	19	....	....
13....	1.5	....	....	....	....	....	....	....	130	16	....	....
14....	1.5	....	....	....	....	....	....	....	107	12	....	....
15....	1	....	....	....	....	....	....	....	122	14	....	....
16....	1	....	....	....	....	....	....	....	122	14	....	....
17....	.8	....	....	....	....	....	....	....	107	12	....	....
18....	.8	....	....	....	....	....	....	....	87	12	....	....
19....	.8	....	....	....	....	....	....	....	87	14	....	....
20....	1	....	....	....	....	....	....	....	75	12	....	....
21....	1.5	....	....	....	....	....	....	....	64	10	....	....
22....	2	....	....	....	....	....	....	....	64	10	....	....
23....	1.5	....	....	....	....	....	....	....	87	10	....	....
24....	1	....	....	....	....	....	....	....	87	10	....	....
25....	1.5	....	....	....	....	....	....	....	59	8	....	....
26....	2	....	....	....	....	....	....	....	64	10	....	....
27....	2	....	....	....	....	....	....	....	64	8	....	....
28....	2	....	....	....	....	....	....	....	44	8	....	....
29....	1.5	....	....	....	....	....	....	....	49	8	....	....
30....	1.5	....	....	....	....	....	....	....	44	8	....	....
31....	2	....	....	....	....	....	....	....	....	10	....	....
Total	39	....	....	....	....	....	....	....	2816	535	....	....
Mean.	1.26	....	....	....	....	....	....	....	93.9	17.3	....	....
Max..	2	....	....	....	....	....	....	....	130	36	....	....
Min...	.8	....	....	....	....	....	....	....	44	8	....	....
Acre-ft.	77	....	....	....	....	....	....	....	5590	1060	....	....

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of White River near Meeker for Year Ending Sept. 30, 1923.
Drainage Area, 634 Square Miles. Altitude, 6,182 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	390	456	....	....	....	....	500	758	2400	1170	444	412
2....	390	456	....	....	....	....	510	767	2460	1040	495	355
3....	390	456	....	....	....	....	530	865	2440	950	495	344
4....	367	456	....	....	....	....	540	1010	2460	910	469	344
5....	349	456	....	....	....	....	560	1210	2170	883	456	344
6....	344	456	....	....	....	....	570	1320	2010	847	456	355
7....	344	456	....	....	....	....	580	1430	1930	811	463	355
8....	373	450	....	....	....	....	609	1560	1980	838	420	332
9....	384	444	....	....	....	....	587	1740	1790	847	450	310
10....	378	438	....	....	....	....	580	1820	1600	820	469	286
11....	338	420	....	....	....	....	580	1740	1800	829	414	270
12....	332	378	....	....	....	....	594	1570	2180	802	420	275
13....	344	361	....	....	....	....	609	1450	2340	741	426	309
14....	378	355	....	....	....	....	573	1490	2440	724	426	344
15....	396	349	....	....	....	....	554	1370	2570	776	420	344
16....	420	326	....	....	....	....	540	1260	2590	785	416	344
17....	420	309	....	313	....	....	540	1490	2470	692	412	344
18....	408	321	....	....	....	....	587	2000	2170	652	407	349
19....	402	326	....	....	....	....	630	2110	1910	645	402	373
20....	390	338	....	....	....	....	616	2040	1750	660	398	378
21....	402	361	....	....	292	....	567	2360	1700	660	394	355
22....	438	355	....	....	....	....	577	2160	1580	645	390	332
23....	438	344	....	....	....	....	588	1970	1470	609	386	321
24....	444	332	....	....	....	....	599	2070	1400	567	382	361
25....	432	330	....	....	....	....	610	2400	1290	547	378	344
26....	396	330	....	....	....	....	618	2650	1340	573	355	321
27....	390	330	....	....	....	....	629	2650	1470	602	326	332
28....	396	350	....	....	....	....	640	2520	1330	587	332	344
29....	456	370	....	....	....	....	652	2380	1320	558	349	355
30....	476	370	....	....	....	....	750	2330	1280	521	378	373
31....	456	....	....	....	....	....	....	2450	....	463	390	....
Total	12261	11479	....	....	....	....	17619	54940	57640	22754	12818	10205
Mean.	396	383	360	320	300	400	587	1770	1920	734	413	340
Max..	476	456	....	....	....	....	750	2650	2590	1170	495	412
Min..	332	330	....	....	....	....	500	758	1280	463	326	270
Acre-ft.	24300	22800	22100	19700	16700	24600	34900	109000	114000	45100	25400	20200

Discharge of White River near Meeker for Year Ending Sept. 30, 1924.
Drainage Area, 634 Square Miles. Altitude, 6,182 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	386	448	....	....	....	....	400	408	1210	602	320	310
2....	386	399	....	....	....	....	410	525	1210	579	324	310
3....	390	386	....	....	....	....	420	824	1210	559	324	320
4....	395	408	....	....	....	....	420	1040	1620	545	318	337
5....	373	433	....	....	....	....	430	1100	1800	518	314	354
6....	364	448	....	....	....	....	430	1040	1860	470	310	337
7....	373	458	....	....	....	....	433	940	1800	458	303	320
8....	390	453	....	....	....	....	443	992	1740	494	303	314
9....	399	453	....	....	....	....	433	1040	1680	552	304	320
10....	408	433	....	....	....	....	438	1150	1680	559	309	354
11....	438	408	....	....	....	....	433	1380	1920	707	312	399
12....	433	408	....	....	....	....	448	1620	2220	625	310	433
13....	428	413	....	....	....	....	408	1680	2860	532	310	408
14....	438	418	....	....	....	....	433	1620	3250	470	314	347
15....	458	443	....	....	....	....	433	1860	3320	464	326	347
16....	458	404	....	....	....	....	433	1980	2990	448	326	330
17....	443	386	....	....	....	....	458	2040	2730	438	322	330
18....	418	386	....	....	....	....	458	2100	2280	404	322	333
19....	399	395	....	....	....	....	458	2040	2040	395	324	347
20....	395	399	....	....	....	....	458	1860	1560	377	320	364
21....	408	404	....	....	....	....	428	1860	1500	368	322	361
22....	433	404	....	....	....	....	476	1920	1440	361	318	337
23....	453	413	....	....	....	....	532	1860	1320	350	322	326
24....	443	404	....	....	....	....	594	1800	1260	344	324	330
25....	443	399	....	....	....	....	558	1740	1150	330	318	330
26....	423	399	....	....	....	....	488	1800	1040	326	314	326
27....	399	395	....	....	....	....	438	1800	940	324	320	320
28....	408	404	....	....	....	....	423	1680	891	326	310	322
29....	418	413	....	....	....	....	386	1500	842	326	307	326
30....	418	418	....	....	....	....	357	1380	768	326	306	328
31....	423	....	....	....	....	....	....	1320	....	318	309	....
Total	12841	12432	....	....	....	....	13357	45899	52131	13895	9785	10220
Mean.	414	414	360	340	310	340	445	1480	1740	448	316	340
Max..	458	458	....	....	....	....	594	2100	3320	707	326	433
Min..	364	386	....	....	....	....	357	408	768	318	303	310
Acre-ft.	25500	24600	22100	20900	17800	20900	26500	91000	104000	27500	19400	20200

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of White River near Watson, Utah, for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	700	883	2400	1030	687	529
2....	....	....	....	....	....	....	700	927	2400	971	628	872
3....	....	....	....	....	....	....	700	938	2400	850	760	696
4....	....	....	....	....	....	....	730	971	2380	790	574	580
5....	....	....	....	....	....	....	730	1040	2360	732	542	561
6....	....	....	....	....	....	....	730	1420	2340	714	732	473
7....	....	....	....	....	....	....	760	1750	2300	644	478	449
8....	....	....	....	....	....	....	760	1780	2210	678	467	431
9....	....	....	....	....	....	....	800	1710	2100	705	462	422
10....	....	....	....	....	....	....	820	1840	2060	760	458	414
11....	....	....	....	....	....	....	840	2030	1880	960	820	407
12....	....	....	....	....	....	....	872	2060	1570	810	494	373
13....	....	....	....	....	....	....	916	1850	1660	820	760	395
14....	....	....	....	....	....	....	949	1880	1800	780	1390	391
15....	....	....	....	....	....	....	872	1780	1980	872	3470	644
16....	....	....	....	....	....	....	790	1700	2080	810	1320	431
17....	....	....	....	....	....	....	770	1520	2160	810	1060	407
18....	....	....	....	....	....	....	770	1490	2200	872	872	395
19....	....	....	....	....	....	....	810	1940	2160	1150	780	750
20....	....	417	....	....	....	....	883	2240	1770	927	760	652
21....	....	....	....	....	....	....	916	2420	1710	905	741	494
22....	....	....	....	....	....	....	982	2700	1610	894	723	414
23....	....	....	....	....	....	....	1030	2610	1420	927	678	395
24....	....	....	....	....	....	....	982	2340	1270	1130	652	620
25....	....	....	....	....	....	....	916	2240	1350	993	596	542
26....	....	....	....	....	....	....	883	2400	1320	949	574	449
27....	....	....	....	....	....	....	861	2620	1320	894	561	418
28....	....	....	....	....	....	....	861	2940	1330	872	542	407
29....	....	....	....	....	....	....	872	2940	1230	810	529	399
30....	....	....	....	....	....	....	872	2700	1070	741	522	395
31....	....	....	....	....	....	....	....	2460	....	732	522	....
Total	....	....	....	....	....	....	25077	60119	55840	26532	24154	14805
Mean.	....	....	....	....	....	....	836	1940	1860	856	782	493
Max..	....	....	....	....	....	....	1030	2940	2400	1150	3470	872
Min...	....	....	....	....	....	....	700	883	1070	732	522	373
Acre-ft.	....	....	....	....	....	....	49700	119000	110000	52600	48100	29300

Discharge of White River Near Watson, Utah, for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	530	513	483	....	....	....	....	620	1180	569	324	308
2....	522	530	509	....	....	....	....	560	1350	564	319	322
3....	1410	530	517	....	....	....	....	730	1530	558	317	331
4....	522	522	477	....	....	....	....	800	1850	552	310	317
5....	522	522	461	....	....	....	....	1130	2200	547	305	371
6....	541	517	461	....	428	....	....	1240	2280	547	303	305
7....	618	509	444	....	....	....	....	1240	2200	541	303	308
8....	757	501	488	....	....	....	....	1180	2130	541	301	301
9....	564	505	505	....	....	....	....	1180	1990	536	299	314
10....	530	513	501	....	....	....	....	1240	1850	650	297	465
11....	558	541	488	....	....	....	....	1290	1720	444	297	501
12....	558	536	488	....	....	....	....	1410	1650	513	294	434
13....	547	526	488	....	....	....	....	1720	1920	509	294	385
14....	547	522	480	....	....	....	....	1720	2420	444	1180	368
15....	541	517	484	....	....	....	....	1720	3880	418	680	358
16....	530	509	480	....	....	....	....	1920	4100	403	394	380
17....	522	501	477	....	....	....	....	1990	3950	394	350	360
18....	517	496	477	....	....	....	....	2060	3650	397	329	355
19....	517	492	477	....	....	....	....	2060	2350	382	326	350
20....	513	488	470	....	....	....	....	1920	1990	371	324	350
21....	517	480	470	....	....	....	....	1850	1650	353	292	368
22....	509	509	470	....	....	....	....	1780	1350	346	290	368
23....	522	509	470	....	....	....	....	1720	1130	338	288	371
24....	599	517	470	....	....	....	....	1590	1040	338	319	363
25....	558	509	470	....	....	....	....	1590	943	331	312	348
26....	541	513	470	....	....	....	....	1590	878	326	308	353
27....	522	501	470	....	....	....	....	1470	781	324	288	353
28....	522	473	470	....	....	....	....	1410	657	329	290	358
29....	522	465	470	....	....	....	....	1350	605	324	288	360
30....	522	461	470	....	....	....	....	1240	575	326	290	355
31....	517	....	470	....	....	....	....	1130	....	326	290	....
Total	17717	15227	14825	....	....	....	....	44450	55799	13541	10801	10780
Mean.	572	508	478	440	420	460	530	1430	1860	437	348	359
Max..	1410	541	517	....	....	....	....	2060	4100	650	1180	501
Min...	513	461	....	....	....	....	....	....	575	324	288	301
Acre-ft.	35200	30200	29400	27100	24200	28300	31500	87900	111000	26900	21400	21400

Unless otherwise noted, all discharges are in cubic feet per second.

COLORADO RIVER DRAINAGE

COLORADO RIVER AT HOT SULPHUR SPRINGS

Location—At highway bridge near depot in Sulphur Springs, Sec. 2, T. 1 N., R. 78 W.

Records Available—July 22, 1904, to September 30, 1909, and September 23, 1910, to September 30, 1924.

Gage—Chain gage.

Accuracy—Results considered good.

Co-operation—Records furnished by the United States Geological Survey.

COLORADO RIVER AT GLENWOOD SPRINGS

Location—In Glenwood Springs opposite D. & R. G. R. R. Depot.

Records Available—May 12, 1899, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the United States Geological Suvey.

COLORADO RIVER NEAR PALISADE

Location—At highway bridge in Sec. 2, T. 11 S., R. 98 W., two miles above Palisade.

Records Available—April 9, 1902, to September 30, 1924.

Gage—Chain gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the United States Reclamation Service.

COLORADO RIVER NEAR FRUITA

Location—At highway bridge in Sec. 20, T. 1 N., R. 2 W., Ute Principal Meridian.

Records Available—Flood records during 1908, 1909 and 1910. Complete records April 1, 1911, to September 30, 1923.

Gage—Chain gage.

Accuracy—Results considered good.

Co-operation—Records furnished by the United States Geological Survey.

COLORADO RIVER NEAR CISCO, UTAH

Location—Between Secs. 8 and 17, T. 23 S., R. 24 E. Salt Lake Meridian, fifteen miles south of Cisco. Dolores River enters one mile above station.

Records Available—November 10, 1914, to September 30, 1917; October 1, 1922, to September 30, 1924. From October 1, 1913, to November 10, 1914, a station was maintained at Moab, 31 miles below this station.

Gage—Automatic recording gage.

Accuracy—Results considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey and State of Utah.

FRASER RIVER NEAR WEST PORTAL (Arrow)

Location—In Sec. 4, T. 2 S., R. 75 W., one-quarter mile from Vasquez Siding.

Records Available—September 23, 1910, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Results considered good.

Co-operation—Records furnished by the United States Geological Survey.

WILLIAMS FORK NEAR PARSHALL

Location—At Fields ranch four miles above mouth of river in Sec. 36, T. 1 N., R. 79 W.

Records Available—July 25, 1904, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Results considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

TROUBLESOME CREEK NEAR TROUBLESOME

Location—In Sec. 12, T. 1 N., R. 80 W., at highway bridge one mile north of Troublesome.

Records Available—July 23, 1904, to October 31, 1905; April 26, 1922, to September 30, 1924.

Gage—Vertical staff.

Accuracy—Results considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

BLUE RIVER AT DILLON

Location—At Cemetery bridge in Sec. 18, T. 5 S., R. 77 W., a short distance above the mouth of Snake River.

Records Available—October 15, 1910, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Results considered good.

Co-operation—Records furnished by the United States Geological Survey.

EAGLE RIVER AT RED CLIFF

Location—In Sec. 29, T. 6 S., R. 80 W., in the town of Red Cliff and 100 yards above the mouth of Turkey Creek.

Records Available—January 8, 1911, to September 30, 1924.

Gage—Chain gage.

Accuracy—Results considered good.

Co-operation—Records furnished by the United States Geological Survey.

EAGLE RIVER AT EAGLE

Location—In Sec. 33, T. 4 S., R. 84 W., at highway bridge at Eagle above the mouth of Brush Creek.

Records Available—January 17, 1911, to September 30, 1924. From March 12, 1905, to February 10, 1907, a station was maintained below the mouth of Brush Creek.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the United States Geological Survey.

ROARING FORK AT GLENWOOD SPRINGS

Location—In Sec. 9, T. 6 S., R. 89 W., one-half mile above mouth.

Records Available—April 6, 1906, to September 30, 1909; September 21, 1910, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the United States Geological Survey.

ELK CREEK AT NEW CASTLE

Location—In Sec. 31, T. 5 S., R. 90 W., in the town of New Castle.

Records Available—March 17, 1922, to September 30, 1924.

Gage—Staff gage.

Accuracy—Records considered good.

PARACHUTE CREEK AT GRAND VALLEY

Location—In the NW¼ Sec. 12, T. 7 S., R. 96 W., at Aplin Ranch one-half mile northwest of Grand Valley.

Records Available—April 7, 1921, to September 30, 1924.

Gage—Staff gage.

Accuracy—Records considered good.

ROAN CREEK NEAR DEBEQUE

Location—On Section line between Secs. 10 and 15, T. 7 S., R. 98 W., at highway bridge 11 miles north of DeBeque.

Records Available—April 8, 1921, to September 30, 1924.

Gage—Chain gage.

Accuracy—Records considered fair.

PLATEAU CREEK NEAR COLLBRAN

Location—In Sec. 23, T. 9 S., R. 94 W., on private bridge about seven miles east of Collbran.

Records Available—August 20, 1921, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

BUZZARD CREEK NEAR COLLBRAN

Location—In Sec. 14, T. 9 S., R. 94 W., on highway bridge seven miles east of Collbran.

Records Available—August 18, 1921, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

TAYLOR RIVER AT ALMONT

Location—At highway bridge at Almont in Sec. 22, T. 51 N., R. 1 E., N.M.P.M. and 800 feet above junction with East River.

Records Available—July 27, 1910, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained by the United States Geological Survey and Bureau of Reclamation in co-operation.

GUNNISON RIVER NEAR GUNNISON

Location—At highway bridge in Sec. 3, T. 49 N., R. 1 W., two miles west of Gunnison above the mouth of Tomichi Creek.

Records Available—November 27, 1910, to November 30, 1914; April 27, 1916, to September 30, 1924.

Gage—Chain gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the United States Geological Survey.

GUNNISON RIVER NEAR GRAND JUNCTION

Location—In NW¼ Sec. 35, T. 1 S., R. 1 W., two miles above mouth. This record includes the flow of Redlands Irrigation and Power Company's canal.

Records Available—October 19, 1894, to December 21, 1895; May 2, 1897, to November 30, 1899; April 1, 1917, to September 30, 1924.

Gage—Vertical staff gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with United States Geological Survey and Redlands Irrigation & Power Company.

LAKE FORK AT LAKE CITY

Location—In Sec. 34, T. 44 N., R. 4 W., at private bridge one-third mile above mouth of Henson Creek.

Records Available—April 21, 1918, to September 30, 1924.

Gage—Vertical staff gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the United States Geological Survey.

NORTH FORK OF GUNNISON RIVER NEAR PAONIA

Location—In Sec. 28, T. 13 S., R. 91 W., on highway bridge two miles northeast of Paonia.

Records Available—January 1, 1922, to September 30, 1924.

Gage—Chain gage.

Accuracy—Records considered good.

LEROUX CREEK NEAR LAZEAR

Location—In Sec. 33, T. 13 S., R. 93 W., at highway bridge eight miles north of Lazear.

Records Available—May 15, 1917, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

SURFACE CREEK AT CEDAREDGE

Location—In Sec. 29, T. 13 S., R. 94 W., at Cedaredge.

Records Available—May 16, 1917, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

UNCOMPAHGRE RIVER AT OURAY

Location—At highway bridge Sec. 31, T. 44 N., R. 7 W., 150 feet above mouth of Canon Creek. This record includes flow through Western Colorado Power Company's pipeline.

Records Available—January 25, 1911, to September 30, 1924. January 7 to March 17, 1908, records were kept at power plant one mile south of Ouray.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with United States Geological Survey and the Western Colorado Power Co.

UNCOMPAHGRE RIVER BELOW OURAY

Location—In Sec. 30, T. 44 N., R. 7 W., one-third mile below railroad station at Ouray.

Records Available—May 12, 1913, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with United States Geological Survey and the Western Colorado Power Co.

UNCOMPAHGRE RIVER NEAR COLONA

Location—In Sec. 5, T. 46 N., R. 8 W., at highway bridge four miles south of Colona.

Records Available—April 6, 1917, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the United States Bureau of Reclamation.

UNCOMPAHGRE RIVER AT MONTROSE

Location—At highway bridge one-fourth mile west of Montrose.

Records Available—April 22, 1903, to December 16, 1913; March 8, 1915, to September 30, 1923.

Gage—Vertical staff gage.

Accuracy—Records considered fair.

Co-operation—Records furnished by the United State Bureau of Reclamation.

UNCOMPAHGRE RIVER NEAR DELTA

Location—At railroad bridge in Sec. 13, T. 15 S., R. 96 W., one mile northwest of Delta.

Records Available—April 29, 1903, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

Co-operation—Records furnished by the United States Bureau of Reclamation.

DALLAS CREEK NEAR RIDGWAY

Location—In Sec. 5, T. 48 S., R. 8 W., at highway bridge, one and one-half mile northwest of Ridgway.

Records Available—March 1, 1922, to September 30, 1924.

Gage—Vertical staff.

Accuracy—Records considered good.

ESCALANTE CREEK NEAR DELTA

Location—In Sec. 20, T. 15 S., R. 97 W., about two miles above mouth and below mouth of Dry Fork.

Records Available—April 1, 1920, to August 13, 1923.

Gage—Chain gage.

Accuracy—Results considered poor.

DOLORES RIVER AT DOLORES

Location—At highway bridge in Sec. 9, T. 37 S., R. 15 W., in the town of Dolores.

Records Available—June 24, 1895, to October 31, 1903; November 1, 1910, to November 30, 1912; April 11, 1922, to September 30, 1924.

Gage—Chain gage.

Accuracy—Records considered good.

LOST CANON CREEK NEAR DOLORES

Location—In Sec. 16, T. 37 S., R. 15 W., on D. & R. G. W. R. R. bridge one-half mile south of Dolores.

Records Available—April 1, 1922, to September 30, 1924.

Gage—Staff gage.

Accuracy—Records considered good.

SAN MIGUEL RIVER AT NATURITA

Location—On highway bridge in Naturita.

Records Available—April 26, 1918, to September 30, 1924.

Gage—Chain gage.

Accuracy—Records considered good.

Discharge of Colorado River at Hot Sulphur Springs for Year Ending September 30, 1923. Drainage Area, 785 Square Miles. Altitude, 7,665 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	132	117	...	...	...	...	...	888	3410	2360	905	401
2....	126	117	...	...	...	...	...	834	3560	2160	850	423
3....	123	86	...	...	...	...	...	888	3410	2060	905	358
4....	117	123	...	...	...	...	...	1000	3410	2060	795	338
5....	123	...	...	...	...	...	...	1220	3410	1880	740	338
6....	123	...	...	...	...	...	...	1630	3060	1880	690	338
7....	117	...	...	...	...	...	...	1470	2820	1710	615	294
8....	112	...	...	...	...	...	...	1400	3200	1880	540	272
9....	112	...	...	...	...	...	...	1550	3340	2260	540	251
10....	109	...	...	...	...	...	...	1630	3480	2060	540	238
11....	112	...	...	...	...	...	...	2060	3340	2020	690	223
12....	106	...	...	...	...	...	...	1550	3340	1930	565	204
13....	109	...	...	...	...	...	...	1330	3340	1670	590	200
14....	109	...	...	...	...	...	...	1210	3640	1590	740	285
15....	112	...	...	...	...	...	...	1210	4130	1750	740	255
16....	117	...	...	...	...	...	...	1120	6220	1750	740	281
17....	117	...	...	...	...	...	...	1120	5090	1590	640	302
18....	114	...	...	...	...	...	...	1180	4500	1430	615	358
19....	106	...	...	...	...	...	...	1430	4130	1300	540	358
20....	103	...	...	...	94	...	...	1750	4130	1430	516	401
21....	103	...	...	...	...	...	...	2110	4130	1590	516	358
22....	103	...	...	...	...	...	454	1840	4040	1430	540	338
23....	95	...	...	...	...	...	345	1840	3710	1300	468	358
24....	98	...	...	...	...	...	328	2060	3710	1180	445	358
25....	95	...	...	...	...	...	345	2700	3870	1070	423	358
26....	100	...	...	...	...	...	525	3060	3710	1120	401	358
27....	95	...	...	...	...	...	600	3640	3710	1070	380	358
28....	98	...	...	...	...	...	600	3640	3270	960	315	401
29....	106	...	...	...	...	...	625	3060	2530	905	315	380
30....	100	...	...	...	...	...	778	2820	2640	850	294	380
31....	106	...	...	...	...	...	...	3200	...	740	336	...
Total	3398	...	...	...	...	...	4600	56440	110280	48985	17929	9765
Mean.	110	...	...	...	...	...	511	1820	3680	1580	578	326
Max..	132	...	...	...	...	...	...	3640	6220	2360	905	423
Min...	95	...	...	...	...	...	...	834	2530	740	294	200
Acre-ft.	6760	...	...	...	...	...	...	112000	219000	97200	35500	19400

Discharge of Colorado River at Hot Sulphur Springs for Year Ending September 30, 1924. Drainage Area, 785 Square Miles. Altitude, 7,665 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	332	186	...	...	...	...	...	...	1590	2020	294	117
2....	345	190	...	...	...	...	...	...	1750	1930	272	112
3....	345	173	...	...	...	...	...	...	1840	1840	272	106
4....	397	167	...	...	...	...	...	...	2420	1750	272	100
5....	397	160	...	...	...	...	...	...	3000	1670	315	100
6....	414	148	...	...	...	...	...	...	3270	1590	230	100
7....	375	144	...	...	...	...	...	...	3870	1670	223	100
8....	332	135	...	...	...	...	...	...	3560	1670	223	100
9....	336	154	...	...	...	...	...	...	3270	1670	219	100
10....	302	151	...	...	...	...	...	...	3140	1430	193	100
11....	311	226	...	105	...	...	...	...	3000	1360	193	100
12....	328	259	...	...	...	...	...	...	4590	1180	193	100
13....	311	148	...	...	134	...	...	...	6090	1070	193	100
14....	276	141	...	...	...	...	...	...	8310	1020	193	100
15....	251	117	...	...	...	...	...	1930	8310	960	176	100
16....	243	...	...	...	...	...	...	2110	6860	960	173	100
17....	259	...	...	...	...	...	...	2760	5620	905	160	100
18....	238	...	...	...	...	...	...	2530	4990	850	160	100
19....	259	...	...	...	...	...	...	2760	4590	590	154	100
20....	243	...	...	...	...	...	...	2310	3560	615	135	100
21....	219	...	...	...	...	...	...	2310	3130	615	129	114
22....	251	...	...	...	...	...	...	2210	3270	565	129	114
23....	243	...	...	...	...	...	...	2210	3270	516	129	126
24....	264	...	...	...	...	...	...	2110	3270	468	129	132
25....	247	...	...	...	...	...	...	2110	3130	445	129	129
26....	226	...	...	...	...	...	...	2530	3130	423	129	120
27....	230	...	...	...	...	...	...	3000	3000	423	129	109
28....	223	...	...	...	...	...	...	3000	2760	401	129	104
29....	238	...	...	...	...	...	...	2310	2580	380	129	100
30....	173	...	...	...	...	...	...	2110	2210	358	126	100
31....	148	...	...	...	...	...	...	1840	...	336	117	...
Total	8756	2499	...	...	...	...	...	40140	113380	31680	5647	3183
Mean.	282	...	...	...	...	...	...	...	3780	1020	182	106
Max..	414	...	...	...	...	...	...	...	8310	2020	315	132
Min...	148	...	...	...	...	...	...	...	1590	336	117	100
Acre-ft.	17300	...	...	...	...	...	...	...	225000	62700	11200	6310

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River at Glenwood Springs for Year Ending September 30, 1923. Drainage Area, 4,560 Square Miles. Altitude, 5,747 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1030	880	858	828	777	791	1020	3090	14800	9910	3290	2070
2....	971	940	895	828	763	749	1150	3290	15200	9230	3840	2220
3....	955	1020	791	763	805	910	1100	3500	15300	8570	3950	2070
4....	963	1030	770	898	594	858	1030	4070	15200	8250	3720	1930
5....	940	1000	798	835	535	613	858	4840	15200	7930	3400	1860
6....	895	955	770	791	639	626	895	5960	15200	7610	3190	1800
7....	940	865	763	835	756	700	1060	6990	14900	7300	2810	1740
8....	918	791	932	910	714	652	1040	6690	14700	7610	2460	1680
9....	880	932	749	880	763	679	1060	6990	14800	7930	2380	1570
10....	888	865	700	749	742	700	1110	7610	15700	8570	2300	1520
11....	872	1020	714	749	574	805	1060	8570	16100	8570	2460	1470
12....	850	940	798	791	742	652	1200	8570	16100	8250	2810	1470
13....	880	820	805	613	574	749	1370	7300	16100	7610	3190	1470
14....	865	728	842	415	828	728	1520	6390	17000	7300	3720	1420
15....	880	812	858	580	835	721	1470	5810	17800	6990	4840	1470
16....	895	756	672	620	842	646	1470	5390	18700	7300	4440	1570
17....	872	812	820	672	880	798	1570	5110	20000	7300	3840	1570
18....	895	888	785	728	693	796	1740	5530	19100	6990	3500	1570
19....	880	918	750	948	721	794	2000	6100	16500	6390	3610	1740
20....	910	910	721	835	763	791	2640	7610	15200	6390	3290	1800
21....	948	888	777	770	763	686	2380	9230	15700	6690	3090	1860
22....	910	850	646	652	770	763	2070	10200	14800	6390	3000	1800
23....	940	805	763	686	763	714	1930	9570	13200	5810	2810	1680
24....	902	820	749	728	805	714	1740	9570	12800	5250	2720	1620
25....	895	763	686	798	728	805	1570	10200	13200	4700	2550	1620
26....	888	805	865	812	880	735	1620	12400	13200	4970	2380	1680
27....	880	756	932	842	721	756	1930	14800	13200	4970	2300	1680
28....	940	798	880	791	735	791	2300	15700	12400	4570	2140	1680
29....	872	842	842	763	...	932	2300	15700	11300	4070	2000	1700
30....	955	711	902	735	...	979	2640	14400	10200	3500	1860	1780
31....	963	...	842	777	...	1050	...	14000	...	3190	1930	...
Total	28272	25920	24675	23622	20705	23683	46843	255180	453600	210110	93820	51110
Mean.	912	864	796	762	739	764	1560	8230	15100	6780	3030	1700
Max..	1030	1030	932	948	880	1050	2640	15700	20000	9910	4840	2220
Min...	850	711	646	415	535	613	858	3090	10200	3190	1860	1420
Acre-ft.	56100	51400	48900	46900	41000	47000	92800	506000	898000	417000	186000	101000

Discharge of Colorado River at Glenwood Springs for Year Ending September 30, 1924. Drainage Area, 4560 Square Miles. Altitude, 5747 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1940	1530	1010	782	775	852	796	2280	7610	6990	1870	972
2....	1910	1560	935	602	810	733	803	2600	7300	6390	1870	1070
3....	1910	1600	1090	726	635	761	824	3400	7930	6100	1710	965
4....	1920	1570	980	733	928	712	1060	4700	8900	5530	1520	1020
5....	1970	1510	898	740	740	712	1170	6240	11300	5250	1440	1070
6....	1970	1500	882	782	705	622	1260	6390	13200	4700	1400	912
7....	1960	1440	890	670	817	663	1460	5960	15700	4570	1450	852
8....	1960	1350	1090	761	824	768	1740	5670	16100	4700	1410	1010
9....	1910	1340	958	875	831	950	2300	5530	14800	5110	1370	1020
10....	1830	1370	761	875	719	905	3040	4840	13200	5110	1350	1040
11....	1820	1370	698	942	1000	1050	3210	4970	12800	4570	1340	1130
12....	1830	1390	761	912	761	958	2500	5810	15700	4320	1290	1260
13....	1860	1410	860	875	831	950	2510	7300	18200	3950	1210	1040
14....	1890	1390	740	905	831	928	3520	8090	21700	3500	1260	875
15....	1840	1370	898	782	920	905	5870	8570	23400	3190	1070	817
16....	1820	1340	838	796	995	860	4940	9400	23400	3090	1250	838
17....	1800	1170	712	942	905	810	2830	10100	21200	3090	1290	782
18....	1790	1070	684	958	838	852	2120	11100	18200	3190	1260	775
19....	1770	1070	691	928	1020	890	1820	11700	16100	3090	1250	995
20....	1660	1060	705	810	845	852	1870	11500	14000	2750	1130	1100
21....	1640	1100	796	875	920	868	2220	10600	11700	2540	1010	1070
22....	1640	1200	912	958	965	942	3000	10600	10200	2400	995	1170
23....	1710	1230	789	928	912	602	3720	10400	9910	2340	1020	1160
24....	1760	1220	845	920	684	995	4190	9910	9910	2100	1110	1170
25....	1760	1090	782	965	684	782	4440	9230	9570	2100	1060	1160
26....	1720	1210	845	970	677	775	3190	9570	9570	2040	1080	1150
27....	1660	1020	942	950	918	803	2400	11000	8900	1980	1080	1060
28....	1690	965	905	920	988	905	2160	11300	8570	1940	1050	1110
29....	1710	935	860	880	1000	890	2100	10600	8250	1920	1050	1150
30....	1650	1060	1010	810	....	898	2100	9230	7610	1920	1020	1130
31....	1580	...	761	775	...	852	...	8570	...	1920	958	...
Total	55880	38440	26528	26347	24478	26045	75163	247160	394930	112390	39173	30873
Mean.	1800	1280	856	850	844	840	2510	7970	13200	3630	1260	1030
Max..	1970	1600	1090	970	1020	1050	4940	11700	23400	6990	1870	1260
Min...	1580	935	684	602	635	602	796	2280	7300	1920	958	775
Acre-ft.	111000	76200	52600	52300	48500	51600	149000	490000	786000	223000	77500	61300

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Palisade for Year Ending September 30, 1923.
Drainage Area, 8,790 Square Miles. Altitude, 4,729 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1530	1480	1700	1580	1820	1580	1940	5360	25500	17800	4700	3300
2....	1370	1530	1580	1530	1700	1820	2060	5480	26300	17400	5600	3390
3....	1420	1530	1640	1480	1370	1940	2180	6210	27100	16200	6470	3480
4....	1580	1760	1640	1480	1420	1940	2120	7160	28200	15000	5960	3210
5....	1530	2060	1700	1530	1190	1640	1880	8480	26600	14700	5600	3030
6....	1480	1940	1640	1480	1190	1820	1760	10200	24800	14500	5140	2860
7....	1530	1880	1820	1370	1280	1940	1940	11500	22800	13800	4810	2860
8....	1480	1880	1880	1640	1420	2000	2120	12400	22100	14300	4280	2700
9....	1320	1940	1940	1480	1580	1940	2060	12900	23000	14300	3880	2460
10....	1530	1940	1760	1700	1580	1940	2120	14500	23800	14700	3780	2250
11....	1640	2000	1580	1760	1370	1940	2060	15800	23800	15200	3780	2120
12....	1530	2120	1700	1480	1480	1880	2060	16400	24500	14100	4180	2120
13....	1580	2000	1760	1420	1420	1760	2460	14800	24800	13400	5030	2250
14....	1480	1820	1940	1820	1370	1640	2860	12900	26300	13100	6080	2250
15....	1420	1700	1880	1640	1420	1580	3120	11200	27600	12400	7880	2180
16....	1480	1640	1760	1370	1480	1530	2940	10400	29000	12200	7590	2250
17....	1420	1640	1580	1280	1480	1640	2860	10400	30400	11700	7160	2320
18....	1420	1820	1420	1530	1530	1820	3210	10200	29900	11700	6210	2390
19....	1420	1820	1420	1700	1580	1760	4080	11400	26800	10900	5840	2860
20....	1480	1760	1480	1880	1530	1700	5030	13900	25000	10600	6340	2780
21....	1530	1760	1480	1880	1580	1820	4920	16800	24300	11400	5720	2860
22....	1420	1760	1530	1760	1700	1760	4810	18600	24300	10700	5140	2860
23....	1420	1760	1480	1640	1700	1580	3980	17800	23000	10100	4920	2860
24....	1580	1700	1420	1530	1700	1420	3580	17000	22600	9260	4700	3120
25....	1580	1640	1420	1700	1640	1580	3120	18400	23000	7740	4280	2860
26....	1580	1700	1420	1530	1580	1480	2940	22100	23300	7440	4080	2860
27....	1640	1700	1420	1580	1580	1320	3390	25500	23300	7880	3680	2860
28....	1640	1640	1370	1530	1530	1370	3980	27400	22600	7160	3780	2860
29....	1580	1760	1640	1480	....	1480	4180	27100	20800	6340	3210	2860
30....	1640	1760	1820	1370	...	1640	4700	25300	18600	5600	2940	3030
31....	1530	...	1820	1530	...	1760	...	24300	...	5030	2860	...
Total	46780	53440	50640	48680	42220	53020	90460	461890	744100	366650	155620	82090
Mean.	1510	1780	1630	1570	1510	1710	3020	14900	24800	11800	5020	2740
Max..	1640	2120	1940	1880	1820	2000	5030	27400	30400	17800	7880	3480
Min...	1320	1480	1370	1280	1190	1320	1760	5360	18600	5030	2860	2120
Acre-ft.	92800	106000	100000	96500	83900	105000	180000	916000	1480000	726000	309000	163000

Discharge of Colorado River Near Palisade for Year Ending September 30, 1924.
Drainage Area, 8,790 Square Miles. Altitude, 4,729 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	3210	2540	2060	...	1700	1640	1540	3000	13200	11900	1980	750
2....	3210	2540	2180	...	1700	1700	1540	3780	12600	11000	1860	630
3....	3210	2540	2060	...	1700	1860	1640	4810	12900	10100	1810	670
4....	3120	2540	1940	...	1700	1920	1860	7300	14800	8790	1760	750
5....	3210	2540	1880	...	1700	1760	1980	10100	18200	8180	1700	750
6....	3390	2540	1940	...	1700	1700	2360	11200	21600	7880	1590	790
7....	3300	2460	2000	...	1700	1760	3080	10200	25500	7880	1440	670
8....	3210	2460	1940	...	1700	1700	3780	9420	26600	8030	1490	670
9....	3300	2390	2000	...	1700	1640	3980	9420	24500	8940	1440	790
10....	3210	2390	2000	...	1700	1640	4180	9260	21600	8640	1440	1100
11....	3480	2700	1700	...	1700	1590	4390	9260	21900	7740	1240	1340
12....	3120	2540	1700	...	1700	1640	4600	10600	24300	7160	1240	1440
13....	2860	2460	1760	...	1700	1640	3580	13100	29300	6470	1150	1640
14....	2860	2390	1760	...	1700	1700	4390	14300	34600	5960	1150	1590
15....	2940	2320	1700	...	1700	1640	6210	14800	34300	5360	1440	1490
16....	2860	2250	1700	...	1700	1640	7300	15600	34000	4920	1200	1390
17....	2860	2250	1700	...	1700	1640	5030	17000	33400	4500	1200	1540
18....	2780	2250	1700	...	1700	1700	3160	18400	28200	4600	1290	1340
19....	2700	2060	1700	...	1700	1810	2860	19700	24500	4600	1200	1390
20....	2620	2000	1700	...	1700	1760	2570	19700	22100	3880	1240	1290
21....	2540	2000	1700	...	1700	1700	2860	18800	19200	3580	1060	1440
22....	2540	2000	1700	...	1640	1640	3230	17600	17400	3310	830	1390
23....	2860	2060	1700	...	1590	1640	5360	17200	17000	3080	965	1440
24....	2780	2120	1700	...	1540	1640	6340	16600	16600	2860	750	1440
25....	2700	2120	1700	...	1540	1640	6880	15400	16200	2500	920	1340
26....	2620	1880	1700	...	1540	1640	5960	15800	15800	2290	790	1390
27....	2540	1820	1700	...	1590	1700	3480	17800	15000	2220	750	1340
28....	2620	1700	1700	...	1540	1810	3480	19200	14100	2100	830	1240
29....	2700	1940	1700	...	1590	1860	3160	18200	13900	2100	830	1290
30....	2540	2000	1700	...	...	1860	2860	15800	13200	2220	790	1340
31....	2540	...	1700	...	...	1700	...	14100	....	1980	750	...
Total	90430	67800	55820	54870	48270	52910	113640	417450	636500	174770	38125	35670
Mean.	2920	2260	1800	1770	1660	1710	3790	13500	21200	5640	1230	1190
Max..	3480	2700	2180	...	...	1920	7300	19700	34600	11900	1980	1640
Min...	2540	1700	...	...	1540	1590	1540	3000	12600	1980	750	630
Acre-ft.	180000	134000	111000	109000	95500	105000	226000	830000	1260000	347000	75600	70800

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Fruita for Year Ending September 30, 1923.
Drainage Area, 17100 Square Miles. Altitude, 4500 Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1...	1930	2600	2730	2350	2310	2270	2600	8440	40200	24000	5830	4100
2...	1930	2760	2570	2380	2240	2340	2840	8780	43100	22300	7160	4220
3...	1930	2760	2730	2450	2250	2410	3280	9660	43100	21900	7940	4100
4...	1930	2760	2900	2470	2240	2710	3380	11400	43100	21000	8440	4100
5...	2050	2840	2900	2540	2230	2630	2840	14900	43100	18800	8270	3990
6...	2120	2840	2900	2700	2370	2630	2600	19100	41200	18200	7160	3880
7...	1990	2760	2900	2700	2510	2630	2760	20600	38400	17200	6400	3570
8...	1930	2760	2900	2860	2300	2630	3020	21300	34700	18500	5560	4100
9...	2050	2760	2900	2950	2230	2630	3280	23000	36100	19400	5050	3880
10...	2050	2760	2900	2860	2180	2630	3280	25600	36500	18200	4800	3670
11...	2050	2930	2730	2700	2370	2630	3100	27600	34300	19100	4920	3280
12...	2120	2930	2570	2700	2370	2480	3280	28000	35200	18000	5970	3100
13...	1990	2960	2900	2540	2370	2480	3570	25600	39800	17200	7310	2760
14...	1930	2760	3070	2460	2370	2340	4330	23000	41200	15900	8270	2600
15...	1930	2760	3240	2540	2370	2340	4560	18800	43100	15700	9300	2600
16...	2050	2760	3190	2540	2440	2340	4440	16900	44000	15700	9660	2600
17...	2050	2760	2930	2540	2230	2340	4330	17700	45900	14400	9300	2680
18...	2050	2930	2680	2540	2230	2340	5560	19400	45500	13700	8950	3380
19...	2180	2930	2450	2620	2510	2210	7160	22600	34700	12800	9120	3880
20...	2120	2760	2280	2700	2660	2410	8780	24800	35200	12800	9660	4100
21...	2310	2930	2350	2700	2510	2790	8440	28400	34700	12800	8610	3880
22...	2310	2930	2420	2700	2510	2560	7620	32700	33800	12800	7620	3880
23...	2180	2840	2420	2700	2510	2140	6400	33100	30300	12400	6850	4220
24...	2240	2760	2570	2700	2510	2080	5430	26400	29900	10600	6550	4800
25...	2180	2760	2310	2700	2510	2210	4330	31400	29500	9660	6110	4560
26...	2310	2760	2330	2600	2660	2210	3880	37200	29500	8950	4330	4440
27...	2240	2760	2380	2380	2510	2210	4330	41400	29900	8950	4330	4330
28...	2180	2760	2430	2100	2440	2210	5700	47100	31600	8950	3880	4330
29...	2450	2760	2380	2050	....	2270	6260	49600	31200	7940	3670	4330
30...	2600	2760	2310	2380	....	2340	7160	45200	27000	7000	3670	4100
31...	2600	....	2310	2310	....	2480	....	41400	.....	6110	3670	....
Total	65980	84100	82580	79460	66940	74920	138540	801080	1105800	460960	208360	113460
Mean	2130	2800	2660	2560	2390	2420	4620	25800	36900	14900	6720	3780
Max.	2600	2960	3240	2950	2660	2790	8780	49600	45900	24000	9660	4800
Min..	1930	2600	2280	2050	2180	2080	2600	8440	27000	6110	3670	2600
Acre-ft..	131000	167000	164000	157000	133000	149000	275000	1590000	2200000	916000	413000	225000

Discharge of Colorado River Near Cisco, Utah, for Year Ending September 30, 1923.
Drainage Area, 24,100 Square Miles. Altitude, 4,088 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	2000	2940	3120	4000	2760	2790	3330	11900	40500	27100	7260	4950
2....	2000	2870	3160	3400	2920	2720	3750	12200	41900	25900	8710	5330
3....	2000	3090	3050	2900	2780	2830	4340	12800	41900	24600	9040	5470
4....	2000	3220	3070	2920	2650	3090	4670	14900	42800	22300	9930	5540
5....	2000	3550	3260	2950	2280	3220	4360	18000	43100	20500	9290	5130
6....	2000	3330	3220	2980	2200	3010	3790	21600	40500	19900	8860	4900
7....	2000	3590	3090	3000	2340	2850	3450	24800	37000	18800	8060	4740
8....	2000	3280	3010	2900	2460	2670	3940	27100	34900	18600	7250	4630
9....	2000	3160	3140	3200	2650	3070	4760	28800	34000	20600	6450	4900
10....	2000	2970	3240	3500	2850	3030	5040	30800	34500	20400	5670	4610
11....	2000	3330	3050	3400	2740	2920	5520	32500	34200	20700	6250	4340
12....	2000	3390	2900	3250	2790	2990	5990	34100	34000	20600	6170	4020
13....	2150	3470	3050	3100	2560	2990	6400	31500	35800	18900	7710	3900
14....	2210	3330	3430	2900	2850	2780	8320	27800	38100	17500	9360	3770
15....	2280	3200	3650	2700	2720	2780	8860	24500	40700	17300	12400	4130
16....	2340	2920	3690	2600	2810	2760	8860	21600	42100	17200	13300	4020
17....	2340	3050	3590	2520	2810	2650	8650	20700	43800	17200	12500	3830
18....	2340	2940	3370	2480	2880	2600	9480	21800	44200	16000	11900	4060
19....	2310	3180	3050	2400	2900	2520	10700	22900	41200	15700	11200	5280
20....	2330	3310	2670	2900	2870	2460	11800	26100	37200	15100	11100	5130
21....	2380	3200	2450	3430	2880	2600	12200	30800	35800	14900	11000	5330
22....	2400	3140	2560	3300	2830	2920	11200	34200	35200	15100	9930	5350
23....	2340	3200	2450	3100	3050	2780	10100	34500	33300	14300	9170	5210
24....	2510	3160	2400	2950	3030	2740	8590	31000	31500	13600	8680	7040
25....	2430	3050	2500	2800	3010	2580	7620	30800	31700	12700	7910	6060
26....	2340	2920	2600	2830	3050	2500	7040	35800	32400	11900	7210	5790
27....	2480	3030	2800	3030	3070	2560	7210	41200	33500	11000	6530	5890
28....	2510	3090	3000	2920	2990	2630	8170	45600	34500	10200	5790	5540
29....	2780	2900	3250	2780	....	2650	9360	47100	32200	9320	5470	5540
30....	2760	3090	3500	2690	....	2790	10100	44200	29500	8350	5300	5660
31....	2620	....	3770	2810	....	3030	....	40700	....	7680	4830	....
Total	69850	94900	95090	92640	77730	86520	217000	882300	1112000	523950	264230	150090
Mean.	2250	3160	3070	2990	2780	2790	7250	28500	37100	16900	8520	5000
Max..	2780	3590	3770	4000	3070	3220	12200	47100	44200	27100	13300	7040
Min...	....	2870	2400	2400	2200	2460	3330	11900	29500	7680	4830	3770
Acre-ft.	138000	188000	189000	184000	154000	172000	432000	1750000	2210000	1040000	524000	298000

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Colorado River Near Cisco, Utah, for Year Ending September 30, 1924.
Drainage Area, 24,100 Square Miles. Altitude, 4,088 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	5490	4250	3160	2880	2500	2850	2790	9830	23700	15200	2850	958
2....	5540	4190	3570	2210	2500	2920	2620	10700	21800	14000	2830	970
3....	5590	4230	3590	2000	2500	2830	2450	13300	21000	13000	2440	899
4....	5250	4300	3390	1800	2500	2970	2700	17100	22000	11800	2440	866
5....	5180	4280	3530	1700	2500	3070	2900	21600	25100	10600	2440	982
6....	5250	4170	3240	1600	2500	2880	3650	24400	31300	10100	2440	877
7....	5280	4020	3010	1600	2690	2780	5060	25100	36200	9820	2440	922
8....	5400	3980	3120	1600	3400	2600	6910	23900	41000	9890	2440	982
9....	5300	4000	3010	1700	3400	2670	9570	23700	37500	10500	2040	982
10....	5130	4000	3300	1800	3400	2650	11300	24200	34000	11200	1940	7840
11....	5110	7020	2970	2000	3400	2620	11900	24500	30400	11900	1810	3370
12....	4970	5690	2460	2000	3400	2430	12700	25700	34300	10700	1720	3010
13....	4830	4760	2300	2000	3400	2870	12400	26500	38200	9860	1610	2560
14....	4740	4520	2300	2000	3400	2790	13200	27700	42100	8890	1760	2400
15....	4860	4390	2400	2000	4000	2720	16300	28800	46000	7970	2120	2290
16....	4880	4080	2400	2000	4000	2880	18000	29200	49900	7210	2280	2230
17....	4720	3960	2400	2000	4000	2830	15100	29900	46000	6430	1980	2200
18....	4560	3920	2300	2000	4000	2690	11200	31400	42000	6090	1840	2200
19....	4470	3810	2400	2000	4000	2650	9040	33100	38100	6060	1900	2210
20....	4340	3530	2560	2000	4080	2630	8290	32600	34200	5920	1750	2200
21....	4210	3570	2810	2000	3980	2670	9670	31400	30200	5400	1560	2200
22....	4130	3570	3010	2000	4020	2630	12200	29600	26300	4900	1540	2180
23....	4880	3590	3550	2000	3590	2670	14500	28600	22400	4340	1450	2180
24....	5470	3450	3410	2000	3370	2700	16200	27300	21400	3870	1380	2170
25....	4880	3690	2960	2000	3160	2450	17900	25200	20800	3670	1310	2260
26....	4700	3670	2830	2100	2990	2790	17000	24200	20000	3260	1230	2280
27....	4500	3650	3070	2100	2830	2580	14300	26200	19400	3010	1090	2150
28....	4390	3640	3510	2100	2870	2700	12100	29900	18300	2870	1010	2020
29....	4360	3390	3350	2100	2870	2940	10900	31000	17200	2870	1040	1940
30....	4340	3260	3300	2100	....	3180	10200	28600	16400	2870	1010	2050
31....	4390	....	3430	2100	....	3100	....	26400	....	2870	958	....
Total	151140	122580	92640	61490	95250	85740	313050	791630	907200	237070	56648	62378
Mean.	4880	4090	2990	1980	3280	2770	10400	25500	30200	7650	1830	2080
Max..	5590	7020	3590	2880	....	3180	18000	33100	49900	15200	2850	7840
Min...	4130	3260	2300	1600	....	2430	2450	9830	16400	2870	958	866
Acre-ft.	300000	243000	184000	122000	189000	170000	619000	1570000	1800000	470000	113000	124000

Discharge of Fraser River Near West Portal for Year Ending September 30, 1923.
Drainage Area, 29 Square Miles. Altitude, 9,500 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	16	17	....	....	....	....	8	17	198	154	50	31
2....	14	17	....	....	....	....	8	23	190	143	46	29
3....	14	17	....	....	....	....	8	20	197	131	43	26
4....	14	17	....	....	....	....	8	41	205	123	42	25
5....	14	16	....	....	....	....	8	41	208	117	43	25
6....	14	16	....	....	....	....	8	41	198	111	41	24
7....	14	16	....	....	....	....	8	41	195	101	37	23
8....	14	17	....	....	....	....	8	32	208	106	35	22
9....	14	15	....	....	....	....	8	32	221	101	34	22
10....	14	15	....	....	....	....	8	32	218	102	36	21
11....	14	15	....	....	....	....	8	30	213	104	40	20
12....	13	15	....	....	....	....	8	30	252	93	50	19
13....	13	15	....	....	....	....	8	41	289	99	50	22
14....	13	15	....	....	....	....	8	41	328	111	52	22
15....	13	15	....	....	....	....	12	36	353	104	56	21
16....	13	15	....	....	....	....	12	36	423	97	56	22
17....	14	15	....	....	....	....	12	39	346	106	50	23
18....	13	15	....	....	....	....	12	41	305	101	46	22
19....	13	15	....	....	....	....	12	41	292	97	46	23
20....	13	15	....	....	....	....	12	56	267	90	45	21
21....	14	13	....	....	....	....	12	96	244	81	43	19
22....	12	13	....	....	....	....	12	96	229	76	41	18
23....	12	13	....	....	....	....	12	96	221	70	36	19
24....	12	12	....	....	....	....	12	104	224	70	35	21
25....	12	12	....	....	....	....	12	112	221	69	32	21
26....	12	12	....	....	....	....	12	193	218	67	31	21
27....	12	12	....	....	....	....	12	200	216	56	30	19
28....	12	12	....	....	....	....	12	195	194	50	28	21
29....	12	12	....	....	....	....	14	182	173	47	28	21
30....	12	12	....	....	....	....	16	185	161	43	28	21
31....	17	....	....	....	....	....	....	195	....	43	30	....
Total	413	436	279	248	224	217	310	2365	7207	2863	1260	664
Mean.	13.3	14.5	9.0	8.0	8.0	7.0	10.3	76.3	240	92.4	40.6	22.1
Max..	17	17	....	....	....	....	16	200	423	154	56	31
Min...	12	....	....	....	....	....	....	17	161	43	28	18
Acre-ft.	818	863	553	492	444	430	613	4690	14300	5680	2500	1320

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Fraser River Near West Portal for Year Ending September 30, 1924.
Drainage Area, 29 Square Miles. Altitude, 9500 Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	21	....	....	13	10	6.5	7.1	17	117	110	33	16
2....	20	....	....	13	10	6.5	7.7	28	119	98	31	12
3....	22	....	....	13	10	6.5	7.7	30	123	90	30	12
4....	23	....	....	13	9.5	6.5	7.7	41	154	85	30	12
5....	22	....	....	13	9.0	6.5	7.7	43	188	80	31	12
6....	22	....	....	13	9.0	6.5	8.0	62	192	76	29	14
7....	24	....	....	13	9.5	6.5	8.8	65	232	73	26	14
8....	24	....	....	12	9.5	6.5	8.8	41	244	70	25	13
9....	25	....	....	12	9.2	6.5	8.8	43	208	67	25	15
10....	26	....	....	12	9.2	6.5	8.8	43	235	65	24	17
11....	26	....	....	12	8.9	6.5	8.8	43	283	63	25	22
12....	28	....	....	12	8.3	6.5	8.8	43	315	62	24	15
13....	31	....	....	12	8.0	7.1	10	43	367	60	24	13
14....	28	....	....	12	8.0	7.1	11	75	388	58	24	13
15....	25	....	....	12	8.0	7.1	13	136	356	56	27	13
16....	22	....	....	12	7.8	6.5	7.4	136	328	70	24	12
17....	18	....	....	12	7.8	6.5	6.8	136	295	76	23	12
18....	15	....	....	12	7.6	6.5	6.8	140	283	65	22	12
19....	18	....	....	12	8.0	6.5	6.8	136	235	59	21	12
20....	16	....	....	12	7.8	6.5	6.2	136	208	56	19	13
21....	18	....	....	12	7.8	6.5	6.2	136	208	54	18	16
22....	16	....	....	11	7.4	6.5	6.2	147	202	52	17	17
23....	15	....	....	11	7.4	6.5	6.2	154	198	48	17	17
24....	16	....	....	11	6.8	6.5	7.4	150	200	47	18	16
25....	15	....	....	11	6.8	6.5	8.0	143	192	43	22	16
26....	15	....	....	11	6.8	6.5	6.8	158	185	42	19	16
27....	15	....	....	10	6.8	6.5	6.2	166	178	41	17	17
28....	15	....	....	10	6.8	6.5	6.2	161	170	40	16	16
29....	14	....	....	10	6.8	6.5	7.4	146	155	39	15	16
30....	14	....	....	10	....	6.5	9.6	125	130	37	14	16
31....	14	....	....	10	....	6.5	....	119	....	34	16	....
Total	623	....	....	364	238.5	203.3	236.9	3042	6688	1916	706	437
Mean.	20.1	14	13.3	11.7	8.22	6.56	7.90	98.1	223	61.8	22.8	14.6
Max..	31	....	....	13	10	7.1	13	166	388	110	33	17
Min...	14	....	....	10	6.8	6.5	6.2	17	117	34	14	12
Acre-ft.	1240	833	818	719	473	403	470	6030	13300	3800	1400	869

Discharge of Williams Fork River Near Parshall for Year Ending September 30, 1923.
Drainage Area, 185 Square Miles. Altitude, 7,800 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	58	51	44	38	44	34	40	124	612	604	244	145
2....	57	52	43	38	44	35	39	124	604	596	196	140
3....	55	42	40	38	44	36	37	130	580	556	185	126
4....	52	52	38	38	44	38	33	148	612	532	150	126
5....	50	48	42	38	44	39	35	176	580	516	145	130
6....	52	40	42	38	44	39	40	213	580	500	142	122
7....	54	44	47	38	44	40	39	167	580	486	135	105
8....	54	42	47	38	44	40	44	176	660	524	130	91
9....	51	42	44	38	44	39	48	210	740	532	140	76
10....	52	34	42	38	44	45	44	220	780	580	161	89
11....	54	34	36	44	43	40	50	252	740	516	192	91
12....	52	34	38	44	43	43	61	185	865	472	192	95
13....	54	32	40	44	43	48	63	150	955	444	240	100
14....	55	34	40	44	43	37	66	138	910	444	358	113
15....	55	38	42	44	43	41	69	135	865	458	328	102
16....	57	45	34	44	43	50	72	130	865	406	316	104
17....	57	51	32	44	43	43	74	145	865	406	252	107
18....	55	47	33	44	43	45	71	161	820	370	224	113
19....	55	44	34	44	43	41	55	199	820	322	213	128
20....	54	47	35	44	43	42	58	228	820	295	202	122
21....	55	55	36	41	39	40	55	260	820	260	188	124
22....	55	61	38	41	39	39	44	270	780	260	179	135
23....	51	51	39	41	39	39	52	252	780	240	167	142
24....	47	55	40	41	39	33	60	248	780	240	170	132
25....	47	55	37	41	39	40	68	346	780	260	155	117
26....	47	64	34	41	39	43	76	430	780	290	150	117
27....	48	58	40	41	39	38	89	500	780	236	142	109
28....	45	58	44	41	39	40	86	516	740	228	135	126
29....	50	44	42	41	....	40	86	486	700	199	130	98
30....	45	44	40	41	....	39	105	532	660	158	130	98
31....	48	....	38	41	....	50	....	548	....	192	148	....
Total	1621	1398	1221	1273	1177	1256	1759	7799	22453	12122	5839	3423
Mean.	52.3	46.6	39.4	41	42	40.5	58.6	252	748	391	188	114
Max..	58	64	47	....	....	50	105	548	955	604	358	145
Min...	45	32	32	....	....	33	33	124	580	158	130	76
Acre-ft.	3220	2770	2420	2520	2330	2490	3490	15500	44500	24000	11600	6780

Unless otherwise noted. all discharges are in cubic feet per second.

Discharge of Williams Fork Near Parshall for Year Ending September 30, 1924.
Drainage Area, 185 Square Miles. Altitude, 7,800 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	95	74	52	45	40	40	79	132	376	486	93	41
2....	95	91	52	45	40	40	72	145	437	479	82	66
3....	91	81	52	45	40	40	72	206	493	451	79	68
4....	95	77	52	45	40	40	61	280	628	424	72	72
5....	95	74	52	45	40	40	69	370	588	424	76	79
6....	91	82	52	45	40	40	72	364	660	418	72	69
7....	88	60	52	45	40	40	86	260	740	388	68	74
8....	77	64	52	45	40	40	95	232	780	382	71	88
9....	72	72	52	45	40	40	100	220	700	388	68	88
10....	74	64	52	45	40	40	107	196	700	358	61	74
11....	79	95	51	46	40	44	104	238	780	346	63	60
12....	84	74	51	46	41	44	69	280	910	295	63	82
13....	81	64	51	46	48	44	96	328	865	256	63	84
14....	74	64	51	46	55	44	132	316	910	236	55	72
15....	79	55	51	46	61	44	176	358	910	216	81	66
16....	77	68	51	46	76	44	130	328	865	216	86	64
17....	74	58	51	46	58	44	84	437	820	203	66	61
18....	81	63	51	46	55	44	84	451	780	176	48	68
19....	88	64	51	46	50	44	89	493	865	182	37	76
20....	89	58	51	46	48	44	79	430	740	142	39	89
21....	93	68	44	50	40	60	145	458	700	135	50	98
22....	91	77	44	50	40	62	394	493	700	122	55	91
23....	93	68	44	50	40	65	236	516	700	100	57	82
24....	102	58	44	50	40	68	394	444	700	98	54	82
25....	77	72	44	50	40	60	532	437	700	91	36	89
26....	102	66	44	50	40	58	228	486	660	86	32	88
27....	95	58	44	50	40	64	88	508	628	79	44	82
28....	93	55	44	50	40	63	107	548	612	89	54	81
29....	89	54	44	50	40	74	88	472	612	74	61	84
30....	74	54	44	50	....	72	91	451	540	81	55	86
31....	84	....	44	50	....	71	....	376	....	86	34	....
Total	2672	2032	1514	1460	1292	1557	4159	11253	21099	7507	1875	2304
Mean.	86.2	67.7	48.8	47.1	44.6	50.2	139	363	703	242	60.5	76.8
Max..	102	95	....	....	76	74	532	548	910	486	93	98
Min..	72	54	....	....	....	....	61	132	376	74	32	41
Acre-ft.	5300	4030	3000	2900	2570	3090	8270	22300	41800	14900	3720	4570

Discharge of Troublesome Creek Near Troublesome for Year Ending September 30, 1923.
Drainage Area, 172 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	18	25	....	....	....	....	....	181	495	46	59	26
2....	16	27	....	....	....	....	....	203	440	42	43	25
3....	16	27	....	....	....	....	....	207	412	38	40	27
4....	16	31	....	....	....	....	....	244	412	38	37	25
5....	16	31	....	....	....	....	....	305	358	38	38	25
6....	16	....	....	....	....	....	....	330	305	30	43	24
7....	17	....	....	....	....	....	....	305	262	30	40	22
8....	16	....	....	....	....	....	....	330	276	30	35	22
9....	16	....	....	....	....	....	....	358	495	40	35	22
10....	20	....	....	....	....	....	....	412	550	61	35	22
11....	18	....	....	....	....	....	....	440	522	57	43	22
12....	16	....	....	....	....	....	....	358	468	57	40	24
13....	17	....	....	....	....	....	....	305	440	45	38	22
14....	16	....	....	....	....	....	....	280	412	42	42	22
15....	16	....	....	....	....	....	....	91	271	330	64	38	25
16....	16	....	....	....	....	....	....	123	244	305	86	42	24
17....	18	....	....	....	....	....	....	138	240	276	66	38	22
18....	18	....	....	....	....	....	....	149	305	235	64	38	24
19....	18	....	....	....	....	....	....	167	305	203	61	37	32
20....	18	....	....	....	....	....	....	126	412	178	52	38	32
21....	18	....	....	....	....	....	....	116	468	160	53	42	26
22....	20	....	....	....	....	....	....	102	468	138	43	38	25
23....	19	....	....	....	....	....	....	91	468	123	38	40	25
24....	18	....	....	....	....	....	....	80	495	111	30	35	25
25....	18	....	....	....	....	....	....	84	550	98	27	32	25
26....	18	....	....	....	....	....	....	116	605	231	35	30	25
27....	18	....	....	....	....	....	....	133	660	468	28	30	25
28....	18	....	....	....	....	....	....	146	632	72	28	27	27
29....	22	....	....	....	....	....	....	149	550	61	28	26	27
30....	26	....	....	....	....	....	....	184	495	57	26	25	32
31....	22	....	....	....	....	....	....	....	468	....	26	27	....
Total	555	....	....	....	....	....	....	1995	11894	8893	1349	1151	751
Mean.	17.9	....	....	....	....	....	....	....	384	296	43.5	37.1	25.0
Max..	26	....	....	....	....	....	....	....	660	550	86	59	32
Min...	16	....	....	....	....	....	....	....	181	57	26	25	22
Acre-ft.	1110	....	....	....	....	....	....	....	23600	17600	2670	2280	1490

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Troublesome Creek Near Troublesome for Year Ending September 30, 1924.
Drainage Area, 172 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	30	30	....	....	....	....	....	133	219	21	29	19
2....	30	31	....	....	....	....	....	131	231	20	26	19
3....	32	31	....	....	....	....	....	131	280	20	23	18
4....	34	37	....	....	....	....	....	235	330	17	24	18
5....	32	34	....	....	....	....	....	235	440	18	24	15
6....	32	27	....	....	....	....	....	235	412	25	25	15
7....	31	21	....	....	....	....	....	211	440	26	23	17
8....	30	27	....	....	....	....	....	199	412	40	22	15
9....	32	32	....	....	....	....	....	157	305	39	25	17
10....	37	32	....	....	....	....	....	167	244	75	26	28
11....	35	37	....	....	....	....	....	199	215	50	26	28
12....	34	37	....	....	....	....	....	231	227	35	23	21
13....	34	34	....	....	....	....	....	276	253	26	21	26
14....	35	31	....	....	....	....	....	305	227	20	21	25
15....	32	32	....	....	....	....	....	305	195	19	22	20
16....	40	....	....	....	....	....	....	305	178	20	22	18
17....	42	....	....	....	....	....	....	305	152	24	22	17
18....	42	....	....	....	....	....	....	330	131	23	20	18
19....	42	....	....	....	....	....	....	305	111	17	20	17
20....	42	....	....	....	....	....	....	258	93	14	20	18
21....	42	....	....	....	....	....	....	235	78	10	20	17
22....	42	....	....	....	....	....	....	248	67	9	19	17
23....	45	....	....	....	....	....	....	235	60	14	20	18
24....	48	....	....	....	....	....	....	215	40	14	20	17
25....	40	....	....	....	....	....	....	223	40	12	22	16
26....	43	....	....	....	....	....	....	253	35	11	16	18
27....	46	....	....	....	....	....	....	305	33	10	20	18
28....	45	....	....	....	....	....	....	330	25	12	17	18
29....	45	....	....	....	....	....	....	258	24	18	19	16
30....	31	....	....	....	....	....	....	253	24	26	18	18
31....	26	....	....	....	....	....	....	227	....	29	19	....
Total	1151	....	....	....	....	....	....	7435	5521	714	674	562
Mean.	37.1	30.0	....	....	....	....	....	240	184	23.0	21.7	18.7
Max..	48	....	....	....	....	....	....	330	440	75	29	28
Min..	26	....	....	....	....	....	....	131	24	9	16	15
Acre-ft.	2280	1780	....	....	....	....	....	14800	10900	1410	1330	1110

Discharge of Blue River at Dillon for Year Ending September 30, 1923.
Drainage Area, 110 Square Miles. Altitude, 8,815 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	61	50	....	....	....	....	....	75	440	461	207	113
2....	59	49	....	....	....	....	....	84	461	440	222	113
3....	59	50	....	....	....	....	....	93	461	440	207	113
4....	59	50	....	....	....	....	....	110	483	418	194	110
5....	58	50	....	....	....	....	....	131	461	418	180	110
6....	58	....	....	....	....	....	....	144	440	398	165	106
7....	57	....	....	....	....	....	....	155	440	398	155	101
8....	60	....	....	....	....	....	....	162	461	440	148	96
9....	57	....	....	....	....	....	....	175	461	440	142	96
10....	56	....	....	....	....	....	....	207	440	418	140	93
11....	56	....	....	....	....	....	....	252	440	418	148	92
12....	55	....	....	....	....	....	....	236	440	440	172	88
13....	55	....	....	....	....	....	....	194	483	440	207	87
14....	54	....	....	....	....	....	....	170	528	440	236	87
15....	54	....	....	....	....	....	....	160	572	461	252	88
16....	54	....	....	....	....	....	....	146	695	440	222	90
17....	54	....	....	....	....	....	....	140	695	398	222	92
18....	53	....	....	....	....	....	43	144	645	377	207	92
19....	54	....	....	....	....	....	45	170	550	365	194	90
20....	53	....	....	....	....	....	44	207	595	370	194	92
21....	53	....	....	....	....	....	42	252	645	398	180	90
22....	53	....	....	....	....	....	40	267	550	358	170	87
23....	52	....	....	....	....	....	38	252	528	320	172	87
24....	52	....	....	....	....	....	38	236	550	284	155	84
25....	51	....	....	....	....	....	40	284	550	284	148	84
26....	51	....	....	....	....	....	50	358	550	301	142	82
27....	51	....	....	....	....	....	55	398	550	267	133	81
28....	51	....	....	....	....	....	60	418	528	252	127	80
29....	51	....	....	....	....	....	65	418	483	230	121	79
30....	50	....	....	....	....	....	69	377	483	207	115	80
31....	50	....	....	....	....	....	....	398	....	194	113	....
Total	1691	249	....	....	....	....	629	6813	15608	11515	5390	2783
Mean.	54.5	49.8	....	....	....	....	48.4	220	520	371	174	92.8
Max..	61	....	....	....	....	....	....	418	695	461	252	113
Min..	50	....	....	....	....	....	....	75	440	194	113	79
Acre-ft.	3350	....	....	....	....	....	....	13500	30900	22800	10700	5520

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Blue River at Dillon for Year Ending September 30, 1924.
Drainage Area, 110 Square Miles. Altitude, 8,815 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	80	....	....	....	....	....	....	53	228	345	131	68
2....	80	....	....	....	....	....	....	76	225	316	129	68
3....	80	....	....	....	....	....	....	98	231	288	121	68
4....	80	....	....	....	....	....	....	103	258	272	111	66
5....	80	....	....	....	....	....	....	137	340	264	111	66
6....	79	....	....	....	....	....	....	158	431	275	113	66
7....	....	....	....	....	....	....	....	148	584	272	113	65
8....	....	....	....	....	....	....	....	142	624	414	110	65
9....	....	....	....	....	....	....	....	133	527	414	104	65
10....	....	....	....	....	....	....	....	131	461	311	99	64
11....	....	....	....	....	....	....	....	135	533	288	96	66
12....	....	....	....	....	....	....	....	168	645	268	93	66
13....	....	....	....	....	....	....	....	219	864	244	92	67
14....	....	....	....	....	....	....	....	244	976	222	92	69
15....	....	....	....	....	....	....	....	258	896	213	90	67
16....	....	....	....	....	....	....	....	289	784	210	92	66
17....	....	....	....	....	....	....	....	325	736	228	90	65
18....	....	....	....	....	....	....	....	381	645	254	87	64
19....	....	....	....	....	....	....	....	392	597	222	84	64
20....	....	....	....	....	....	....	....	355	503	201	82	64
21....	....	....	....	....	....	....	....	340	455	183	81	63
22....	....	....	....	....	....	....	....	360	449	178	79	62
23....	....	....	....	....	....	....	64	360	449	168	76	62
24....	....	....	....	....	....	....	64	320	437	160	71	64
25....	....	....	....	....	....	....	62	306	425	155	70	64
26....	....	....	....	....	....	....	59	350	420	153	70	64
27....	....	....	....	....	....	....	56	387	398	146	70	64
28....	....	....	....	....	....	....	54	360	386	137	70	63
29....	....	....	....	....	....	....	52	306	386	137	69	62
30....	....	....	....	....	....	....	53	264	360	135	68	62
31....	....	....	....	....	....	....	....	240	....	133	68	....
Total	....	....	....	....	....	....	....	7538	15253	7206	2832	1949
Mean.	77.0	....	....	....	....	....	38	243	508	232	91.4	65.0
Max..	....	....	....	....	....	....	....	392	976	414	131	69
Min..	....	....	....	....	....	....	....	53	225	133	68	62
Acre-ft.	4730	....	....	....	....	....	2260	14900	30200	14300	5620	3870

Discharge of Eagle River at Redcliff for Year Ending September 30, 1923.
Drainage Area, 64 Square Miles. Altitude 8,598 Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	17	10	11	9	17	16	17	89	380	142	55	28
2....	16	15	14	10	15	16	16	92	400	138	58	32
3....	15	15	14	10	15	17	18	101	420	133	51	28
4....	16	15	14	11	17	16	17	109	430	133	49	40
5....	15	14	14	11	17	17	16	110	420	122	44	28
6....	15	15	8	12	17	16	19	120	400	112	40	25
7....	15	15	8	13	17	16	18	125	400	110	40	22
8....	16	15	8	13	17	17	19	130	420	117	39	20
9....	15	15	8	14	17	16	19	150	430	120	37	20
10....	14	13	8	15	17	17	20	170	420	120	39	20
11....	15	12	8	16	17	17	23	200	420	120	43	22
12....	15	12	11	16	17	18	26	180	420	114	43	20
13....	16	12	12	14	17	17	27	170	428	104	48	32
14....	16	14	12	14	17	17	26	140	468	92	50	20
15....	16	14	14	14	18	15	30	130	488	99	56	20
16....	16	12	14	16	18	16	33	120	528	93	57	25
17....	17	15	12	16	18	16	48	110	488	92	58	25
18....	15	14	14	16	18	16	65	120	408	89	51	25
19....	14	12	14	17	17	15	75	130	369	90	48	28
20....	15	12	12	16	17	14	64	170	408	85	44	20
21....	15	12	14	16	17	14	57	210	408	86	44	25
22....	13	14	14	16	18	15	50	240	279	86	41	25
23....	13	15	14	16	18	16	44	240	215	88	41	25
24....	13	14	14	16	18	18	44	200	246	80	39	26
25....	6	14	12	14	18	16	50	230	231	85	37	26
26....	6	12	14	13	17	17	56	280	215	82	36	26
27....	5	14	13	12	17	18	70	330	209	68	35	26
28....	5	14	13	14	16	17	80	370	169	59	34	25
29....	5	14	11	17	....	18	86	360	161	58	31	25
30....	6	12	10	17	....	16	89	330	150	52	25	26
31....	7	....	10	17	....	15	....	350	....	51	22	....
Total	403	406	369	441	479	505	1222	5806	10828	3020	1335	755
Mean.	13	13.5	11.9	14.2	17.1	16.3	40.7	187	361	97.4	43.1	25.2
Max..	17	15	14	17	18	18	89	370	528	142	58	40
Min..	5	10	8	9	15	14	16	89	150	51	22	20
Acre-ft.	799	803	732	873	950	1000	2420	11500	21500	5990	2650	1500

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Eagle River at Redcliff for Year Ending September 30, 1924.
Drainage Area, 74 Square Miles. Altitude, 8,598 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	26	18	16	12	13	11	16	56	173	99	30	21
2....	26	18	16	13	13	12	14	72	173	92	26	20
3....	26	18	19	13	13	12	16	107	185	85	26	20
4....	24	18	18	13	14	12	14	142	255	78	27	20
5....	21	18	17	12	13	12	20	151	290	78	27	18
6....	20	18	16	12	14	12	22	142	342	78	25	20
7....	9	18	16	12	15	12	24	151	420	85	24	20
8....	7	18	16	13	14	12	27	136	380	99	22	20
9....	6	19	15	13	15	12	51	142	290	92	22	21
10....	6	22	14	13	14	12	54	151	272	85	21	21
11....	8	21	13	13	12	12	52	173	272	78	20	18
12....	9	20	14	14	11	12	29	211	360	72	20	18
13....	11	18	14	13	10	12	56	255	360	60	21	10
14....	11	17	16	13	12	12	85	225	380	60	25	17
15....	15	17	18	13	12	12	92	272	325	60	26	22
16....	17	18	17	13	12	12	66	255	325	60	21	19
17....	17	17	13	15	12	12	32	325	272	72	19	20
18....	20	17	14	13	11	12	37	240	219	66	18	20
19....	20	16	14	13	10	12	38	308	211	55	18	19
20....	17	15	13	13	10	12	48	272	185	47	19	20
21....	18	16	13	13	10	12	66	255	162	45	21	21
22....	18	16	13	12	11	11	85	290	151	40	22	20
23....	20	15	14	12	10	11	107	272	142	41	20	16
24....	22	16	14	13	12	10	107	225	132	35	18	8
25....	20	15	13	13	12	10	92	240	124	30	19	9
26....	18	14	13	13	12	10	72	240	118	31	20	11
27....	18	15	13	13	10	11	54	272	115	33	20	17
28....	18	16	13	13	11	11	43	240	107	35	20	20
29....	18	15	13	13	12	12	41	197	99	33	18	20
30....	18	16	14	12	....	11	47	185	99	30	19	17
31....	21	....	13	13	....	10	....	173	....	30	21	....
Total	524	515	455	399	350	358	1507	6375	6938	1884	675	533
Mean.	16.9	17.2	14.7	12.9	12.1	11.5	50.2	206	231	60.8	21.8	17.8
Max..	26	22	19	15	15	12	107	325	420	99	30	22
Min..	6	14	13	12	10	10	14	56	99	30	18	8
Acre-ft.	1040	1020	904	793	696	707	2990	12700	13700	3740	1340	1060

Discharge of Eagle River at Eagle for Year Ending September 30, 1923.
Drainage Area, 650 Square Miles. Altitude, 6,558 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	154	128	125	....	....	180	274	520	3860	2340	770	372
2....	154	130	130	....	....	185	242	600	3860	2140	785	394
3....	152	132	128	....	....	190	225	630	4070	2000	785	394
4....	147	147	126	....	....	188	211	700	4070	1940	690	360
5....	144	130	121	....	....	198	200	950	3470	1940	642	332
6....	144	110	132	....	....	196	245	1150	3200	1810	616	332
7....	144	126	152	....	....	178	270	1140	3040	1810	554	332
8....	149	135	140	....	....	186	236	1100	3290	2140	480	321
9....	154	132	135	....	....	183	233	1200	3290	2000	460	310
10....	154	135	....	....	....	188	236	1300	2790	2140	480	300
11....	152	126	....	....	....	186	258	1450	2870	1810	622	290
12....	149	117	....	....	....	167	292	1350	3040	1690	648	280
13....	147	115	....	....	....	162	302	1230	3380	1570	808	260
14....	149	116	....	....	....	181	278	1070	3660	1630	1080	255
15....	149	128	....	....	....	165	267	992	3860	1520	1130	255
16....	149	142	....	....	....	165	278	906	4280	1430	1080	260
17....	148	147	....	....	....	172	292	922	4280	1360	992	264
18....	146	132	....	....	....	165	336	1060	3660	1280	914	267
19....	145	128	....	....	....	162	394	1370	3380	1320	880	298
20....	143	126	....	....	....	186	416	1640	3470	1550	816	317
21....	142	124	....	....	....	178	380	1880	3860	1310	636	313
22....	140	123	....	....	....	176	352	1750	3200	1140	636	298
23....	140	122	....	....	....	169	320	1690	2870	1120	610	288
24....	132	121	....	....	....	169	300	1690	3200	1050	578	281
25....	135	120	....	....	....	183	280	2410	3290	906	536	278
26....	126	120	....	....	....	176	290	3040	3290	974	486	274
27....	121	121	....	....	....	176	310	3560	3290	856	450	264
28....	121	122	....	....	....	190	400	3660	2950	755	407	267
29....	126	123	....	....	....	222	475	3380	2630	697	380	274
30....	126	124	....	....	....	248	500	3120	2480	629	356	274
31....	123	....	....	....	....	278	....	3660	....	584	364	....
Total	4405	3812	1189	....	....	5748	9092	51120	101880	45441	20671	9004
Mean.	142	127	....	....	....	185	303	1650	3400	1470	667	300
Max..	154	147	....	....	....	278	500	3660	4280	2340	1130	394
Min..	121	110	....	....	....	162	200	520	2480	584	356	255
Acre-ft.	8730	7560	....	....	....	11400	18000	101000	202000	90400	41000	17900

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Eagle River at Eagle for Year Ending September 30, 1924.
Drainage Area, 650 Square Miles. Altitude, 6,558 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	274	223	135	....	....	137	223	591	938	1550	309	119
2....	270	206	130	....	....	135	223	617	892	1420	233	119
3....	270	194	125	....	....	133	240	742	1090	1330	226	117
4....	270	180	120	....	....	131	278	1250	1360	1290	219	115
5....	274	177	125	....	....	129	270	1250	1950	1260	216	112
6....	274	160	140	....	....	127	300	1450	2710	1250	216	128
7....	270	160	150	....	....	125	332	1500	3300	1280	200	132
8....	270	160	152	....	....	123	338	1610	3120	1310	186	128
9....	266	160	144	....	....	130	332	1660	2490	1420	172	126
10....	270	160	132	....	....	130	274	1610	2060	1400	164	140
11....	270	160	108	....	....	130	251	1720	2680	1360	164	183
12....	274	160	108	....	....	130	223	1840	3550	1340	159	172
13....	282	160	154	....	....	130	266	1810	4450	1360	162	164
14....	286	160	142	....	....	130	369	1900	4990	1380	197	147
15....	296	160	132	....	162	130	434	2090	5020	1380	192	123
16....	296	140	144	56	137	130	359	2230	4560	1380	183	119
17....	286	140	123	....	....	130	290	2460	3860	1420	175	115
18....	278	140	119	....	....	130	215	2700	3120	1440	162	112
19....	266	140	126	....	....	130	225	2160	2810	1420	154	112
20....	259	140	159	....	....	130	236	1840	2260	1210	147	112
21....	247	140	152	....	....	150	278	1920	2120	1050	144	110
22....	233	140	137	....	....	150	338	1970	2100	900	142	108
23....	229	140	119	....	152	150	488	1850	2090	760	140	108
24....	226	140	112	....	....	150	565	1530	2090	560	137	112
25....	229	140	130	....	....	150	640	1400	2060	460	132	110
26....	233	140	121	....	....	150	555	1710	2020	428	130	115
27....	229	140	102	....	....	150	550	1800	1920	452	130	119
28....	236	140	100	....	....	150	560	1570	1840	488	130	120
29....	240	140	102	....	....	150	565	1310	1780	500	128	120
30....	233	140	103	....	....	180	570	1130	1720	506	126	120
31....	226	....	100	....	....	209	....	1030	....	482	121	....
Total	8062	4680	3946	....	....	4339	10787	50250	76950	33786	5296	3737
Mean.	260	156	127	....	....	140	360	1620	2560	1090	171	125
Max..	296	223	159	....	....	209	640	2700	5020	1550	309	183
Min..	226	....	100	....	....	....	215	591	892	428	121	108
Acre-ft.	16000	9280	7810	....	....	8610	21400	99600	152000	67000	10500	7440

Discharge of Roaring Fork River at Glenwood Springs for Year Ending September 30, 1923.
Drainage Area, 1,460 Square Miles. Altitude, 5,747 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	699	571	536	490	358	392	606	1120	6500	6080	1840	1280
2....	692	564	564	490	358	432	599	1150	6640	5800	2240	1170
3....	684	578	578	490	358	439	578	1350	7300	5010	2040	1100
4....	677	635	571	490	358	419	564	1650	7450	4880	2040	1070
5....	670	599	536	490	358	385	543	1970	7400	5010	1900	1060
6....	670	571	522	490	358	352	571	2400	7000	4760	1650	1040
7....	663	578	571	490	358	385	656	2450	6400	4880	1590	1030
8....	663	599	543	490	358	352	677	2400	6100	5530	1420	972
9....	663	606	536	494	367	372	642	2590	5270	4520	1360	932
10....	649	614	529	501	367	366	649	2740	4760	4760	1470	895
11....	649	614	571	487	367	366	684	3070	4760	5010	1440	858
12....	649	606	543	487	367	359	778	2820	5270	4400	1500	843
13....	656	599	550	487	367	350	902	3590	5940	4180	1700	850
14....	649	599	564	487	367	370	880	2240	6920	4400	2000	865
15....	649	606	536	487	367	390	850	2040	7620	4180	2250	865
16....	649	592	550	508	367	410	836	1900	8600	3850	2000	895
17....	642	585	529	480	367	426	865	1970	8600	3640	1900	918
18....	628	564	474	480	352	412	972	2170	7480	3440	1840	964
19....	621	557	480	480	352	412	1110	2900	6920	3440	1970	980
20....	614	536	585	480	359	439	1120	4290	7200	3440	1900	988
21....	606	550	529	480	352	419	972	4880	6920	3440	1600	980
22....	614	536	508	480	333	412	880	5140	6640	3160	1600	956
23....	606	536	529	480	340	399	799	4180	6500	2980	1550	948
24....	599	536	564	412	346	412	741	4400	6640	2660	1450	1010
25....	592	522	564	412	372	494	713	6220	7200	2440	1300	1010
26....	585	522	578	412	406	446	756	7200	7480	2380	1280	980
27....	578	529	557	412	372	467	850	7600	7200	2170	1200	964
28....	578	550	564	412	385	487	910	6220	6640	2040	1140	1050
29....	571	543	569	412	....	515	956	5800	6360	1900	1090	1040
30....	564	525	564	412	....	536	1100	5530	6220	1780	1090	1040
31....	571	....	522	412	....	578	....	5940	....	1650	1120	....
Total	19600	17122	16916	14514	10136	12993	23759	109920	201930	117810	50470	29553
Mean.	632	571	546	468	362	419	792	3550	6730	3800	1630	985
Max..	699	635	578	....	406	578	1120	7600	8600	6080	2250	1280
Min..	564	522	474	....	....	350	543	1120	4760	1650	1090	843
Acre-ft.	38900	34000	33600	28800	20100	25800	47100	218000	400000	234000	100000	58600

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roaring Fork at Glenwood Springs for Year Ending September 30, 1924.
Drainage Area, 1,460 Square Miles. Altitude, 5,747 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	963	736	533	494	619	349	410	972	2900	3540	847	456
2....	946	713	518	494	549	364	479	1100	2980	3160	831	433
3....	963	705	502	502	541	417	464	1520	3540	2820	783	433
4....	980	720	471	502	464	410	525	1970	4400	2660	776	425
5....	963	697	456	518	494	395	572	2240	5940	2660	760	425
6....	998	689	487	494	502	379	642	2100	7060	2660	736	448
7....	989	658	549	470	440	395	713	2040	7760	2820	681	425
8....	938	642	549	500	410	410	752	2100	6640	3250	635	410
9....	900	650	518	505	395	357	799	2100	5140	2900	596	433
10....	840	635	433	500	395	387	799	2170	5140	2520	611	541
11....	820	666	440	480	387	433	783	2520	6500	2240	588	697
12....	800	658	580	448	364	402	705	2980	8040	2200	564	689
13....	750	642	510	417	402	379	760	3440	9440	2090	564	697
14....	658	619	487	494	395	417	946	3440	11100	1960	611	674
15....	642	596	564	518	425	417	1070	3850	10800	1830	674	642
16....	619	611	510	518	417	395	895	3960	10300	1790	658	627
17....	603	557	518	518	387	364	736	4400	8880	1870	619	619
18....	572	487	525	518	402	395	674	5010	6640	1680	596	611
19....	572	487	533	518	387	387	689	4400	6500	1540	564	611
20....	627	494	564	425	387	357	713	4290	5140	1420	549	611
21....	689	494	572	494	387	357	807	4290	4880	1350	525	658
22....	689	487	564	541	410	364	938	4290	5270	1280	518	642
23....	708	479	533	580	379	372	1170	3850	5270	1170	502	635
24....	728	502	525	596	342	395	1350	3440	5010	1140	494	596
25....	710	525	564	580	349	372	1350	3960	4880	1070	494	580
26....	700	464	580	580	364	402	1090	5010	4880	1020	487	580
27....	675	487	580	580	402	425	946	4640	4400	963	479	580
28....	660	425	494	666	364	448	887	4070	4290	938	464	572
29....	680	448	580	627	372	440	847	3440	4290	946	464	564
30....	689	541	588	580	....	425	887	3440	3850	938	464	557
31....	705	....	502	611	....	379	....	3070	....	895	464	....
Total	23776	17514	16329	16268	12131	12188	24398	100102	181860	59320	18598	16871
Mean.	767	584	527	525	418	393	813	3230	6060	1910	600	562
Max..	998	736	580	666	619	448	1350	5010	11100	3540	847	697
Min...	572	425	433	417	342	349	410	972	2900	895	464	410
Acre-ft.	47200	34800	32400	32300	24000	24200	48400	199000	361000	117000	36900	33400

Discharge of Elk Creek at New Castle for Year Ending September 30, 1923.
Drainage Area, 177 Square Miles. Altitude, 5,700 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	24	32	....	....	....	29	35	66	778	206	11	6
2....	28	34	....	....	....	35	33	66	744	206	18	5
3....	30	38	....	....	....	33	33	70	761	206	27	5
4....	28	36	....	....	....	29	33	99	744	194	25	5
5....	27	36	....	....	....	31	31	144	676	172	29	6
6....	27	36	....	....	....	27	33	172	545	158	27	6
7....	27	36	....	....	....	31	33	186	520	106	24	6
8....	27	36	....	....	....	29	33	222	511	172	18	5
9....	27	36	....	....	....	33	31	258	466	144	18	5
10....	27	36	....	....	....	33	31	288	392	106	11	5
11....	27	36	....	....	....	29	31	320	432	84	8	5
12....	30	36	....	....	....	27	33	304	453	73	7	5
13....	34	34	....	....	....	29	33	273	545	70	7	7
14....	36	32	....	....	....	29	33	258	580	70	8	6
15....	36	32	....	....	....	24	33	258	580	84	9	6
16....	36	38	....	....	....	27	33	258	596	60	10	7
17....	32	36	....	....	....	29	38	258	520	57	9	15
18....	30	36	....	....	....	31	43	320	474	57	8	15
19....	30	36	....	....	....	31	46	347	412	50	8	33
20....	30	32	....	....	....	27	54	453	354	43	7	35
21....	28	32	....	....	....	27	54	545	327	38	7	33
22....	28	36	....	....	....	27	57	530	304	35	8	33
23....	28	38	....	....	....	27	46	483	282	33	11	33
24....	28	34	....	....	....	27	46	483	294	29	17	38
25....	28	32	....	....	....	29	43	633	304	27	10	43
26....	32	30	....	....	....	27	43	778	304	27	9	43
27....	30	30	....	....	....	31	46	850	282	19	7	43
28....	28	32	....	....	....	41	57	850	243	17	7	43
29....	34	34	....	....	....	38	57	820	214	15	6	41
30....	32	36	....	....	....	38	60	732	206	13	5	41
31....	32	....	....	....	....	33	....	761	....	15	5	....
Total	921	1038	....	....	....	938	1212	12085	13843	2586	381	579
Mean.	29.7	34.6	....	....	....	30.3	40.4	390	461	83.4	12.3	19.3
Max..	36	38	....	....	....	41	60	850	778	206	29	43
Min...	24	30	....	....	....	24	31	66	206	13	5	5
Acre-ft.	1830	2060	....	....	....	1860	2400	24000	27400	5130	756	1150

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Elk Creek at New Castle for Year Ending September 30, 1924.
Drainage Area, 177 Square Miles. Altitude, 5,700 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	42	34	26	....	....	26	24	58	354	114	6	3
2....	42	34	26	....	....	26	24	75	346	114	6	4
3....	42	34	29	....	....	26	34	86	367	114	6	4
4....	46	34	31	....	....	32	40	58	455	86	6	4
5....	46	34	29	....	....	26	40	75	432	95	6	4
6....	46	31	29	....	....	24	36	83	576	79	6	4
7....	46	26	31	....	....	24	34	114	767	72	6	6
8....	46	24	34	....	....	24	34	143	710	72	5	4
9....	46	24	34	....	....	24	34	126	628	72	5	4
10....	46	24	....	....	....	24	36	124	526	72	5	20
11....	46	24	....	....	....	24	32	268	602	58	4	16
12....	46	26	....	....	....	24	32	346	710	58	4	10
13....	42	26	....	....	....	24	32	410	767	65	4	13
14....	46	24	....	....	....	24	34	388	738	65	4	8
15....	42	24	....	....	34	24	44	445	738	72	5	6
16....	42	24	....	....	....	24	44	478	655	46	4	8
17....	42	24	....	....	....	24	44	526	455	46	4	13
18....	42	24	....	....	....	24	44	710	455	40	5	10
19....	40	26	....	....	....	24	44	682	388	40	5	10
20....	40	24	....	....	....	24	44	576	326	34	5	6
21....	40	26	....	....	....	24	48	628	306	29	4	8
22....	40	31	....	....	....	24	48	551	306	34	3	8
23....	48	29	....	....	....	24	48	478	287	24	3	16
24....	40	31	....	....	....	24	58	478	251	13	3	24
25....	40	34	....	....	....	24	61	478	218	8	3	16
26....	36	29	....	....	....	24	65	432	188	8	3	16
27....	36	29	....	....	....	26	58	432	148	8	2	16
28....	34	29	....	....	....	34	58	455	124	8	2	16
29....	40	29	....	....	....	34	58	455	114	13	2	16
30....	36	29	....	....	....	24	58	432	104	7	2	16
31....	34	....	....	....	....	24	....	367	....	6	2	....
Total	1300	841	....	....	....	782	1290	10967	13041	1572	130	309
Mean.	41.9	28.0	30	30	34	25.2	43	354	435	50.7	4.19	10.3
Max..	46	34	....	....	....	34	65	710	767	114	6	24
Min...	34	24	....	....	....	24	24	58	104	6	2	3
Acre-ft.	2580	1670	1840	1840	1960	1550	2560	21800	25900	3120	258	613

Discharge of Parachute Creek at Grand Valley for Year Ending September 30, 1923.
Drainage Area, 196 Square Miles. Altitude, 5,105 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	12	18	....	....	....	15	24	142	155	18	10	10
2....	12	18	....	....	....	18	27	168	155	14	10	10
3....	12	18	....	....	....	24	32	220	130	13	10	10
4....	12	18	....	....	....	20	24	265	118	11	10	10
5....	12	18	....	....	....	15	21	299	118	10	10	10
6....	12	18	....	....	....	14	24	356	93	10	10	10
7....	12	18	....	....	....	18	27	384	93	12	10	10
8....	14	18	....	....	....	20	27	404	78	11	10	10
9....	14	18	....	....	....	18	27	404	78	10	10	10
10....	14	15	....	....	....	15	29	412	64	24	10	10
11....	12	15	....	....	....	15	34	425	61	27	10	10
12....	12	15	....	....	....	15	45	364	51	18	10	10
13....	12	14	....	....	....	16	50	347	47	11	10	10
14....	12	14	....	....	....	15	54	310	38	10	10	10
15....	12	14	....	....	....	16	54	292	42	10	10	10
16....	12	14	....	....	....	16	61	275	36	10	10	10
17....	12	14	....	....	....	16	61	299	42	10	10	10
18....	12	14	....	....	....	20	78	372	36	10	10	10
19....	14	10	....	....	....	20	93	396	36	10	10	11
20....	15	10	....	....	....	15	97	396	34	10	10	12
21....	15	10	....	....	....	15	97	412	34	10	10	12
22....	15	10	....	....	....	18	93	347	34	10	10	12
23....	18	10	....	....	....	18	78	299	32	10	10	18
24....	18	10	....	....	....	18	88	310	32	10	10	27
25....	18	10	....	....	....	18	75	310	29	10	10	20
26....	18	10	....	....	....	18	78	285	27	14	10	20
27....	18	12	....	....	....	28	82	252	26	11	10	20
28....	18	12	....	....	....	24	88	242	24	10	10	20
29....	18	12	....	....	....	24	97	211	18	10	10	20
30....	15	12	....	....	....	24	142	190	18	10	10	15
31....	15	....	....	....	....	24	....	174	....	10	10	....
Total	437	419	....	....	....	560	1807	9562	1779	374	310	387
Mean.	14.1	14.0	....	....	....	18.1	60.2	308	59.3	12.1	10.0	12.9
Max..	18	18	....	....	....	24	142	425	155	27	10	27
Min...	12	10	....	....	....	15	21	142	18	10	10	10
Acre-ft.	867	833	....	....	....	1110	3580	18900	3530	744	615	768

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Parachute Creek at Grand Valley for Year Ending Sept. 30, 1924.
Drainage Area, 196 Square Miles. Altitude, 5,105 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	23	19	13	....	....	16	14	100	60	1.3	0.8	0.5
2....	23	19	13	....	....	16	14	118	53	0.8	0.8	0.8
3....	23	19	14	....	....	16	17	114	46	0.8	0.8	0.8
4....	23	19	13	....	....	16	20	142	53	0.8	1.0	0.8
5....	23	18	13	....	....	16	27	155	53	0.8	1.3	0.5
6....	23	18	13	....	....	16	36	118	46	0.8	1.8	0.5
7....	23	18	13	....	....	16	79	130	40	0.8	1.8	1.8
8....	23	18	13	....	....	16	132	130	35	0.8	1.8	0.8
9....	23	18	13	....	....	15	132	96	35	10	1.8	0.8
10....	23	18	16	....	....	15	120	96	33	6	1.3	3.6
11....	23	21	13	....	....	18	90	88	30	6	0.8	19
12....	23	21	13	....	....	16	90	88	22	4.8	0.8	14
13....	23	18	13	....	....	16	132	88	16	3.6	0.8	14
14....	23	19	13	....	....	15	171	77	12	3.6	0.8	14
15....	20	19	13	....	15	16	158	68	14	2.7	1.8	14
16....	18	19	13	....	....	16	70	53	16	2.7	0.8	14
17....	18	18	13	....	....	16	47	37	14	1.8	0.8	14
18....	18	18	13	....	....	18	62	35	12	1.3	1.3	9.6
19....	20	18	13	....	....	16	62	30	9.6	0.8	1.8	9.6
20....	20	18	13	....	....	16	70	30	9.6	0.8	1.3	9.6
21....	20	18	13	....	....	18	98	26	7.8	0.8	0.8	6
22....	22	18	13	....	....	18	150	19	7.8	0.8	0.2	6
23....	22	13	13	....	....	18	328	19	7.8	0.8	0.2	6
24....	24	14	13	....	....	18	168	14	6	0.8	0.1	6
25....	24	13	13	....	....	18	118	12	4.8	0.8	0.2	6
26....	18	13	13	....	....	18	107	14	3.6	0.8	0.2	6
27....	22	13	11	....	....	18	107	22	2.7	0.8	0.1	6
28....	20	13	11	....	....	18	96	22	2.7	0.8	0.1	6
29....	22	13	13	....	....	18	96	35	1.8	0.8	0.1	6
30....	20	13	13	....	....	18	96	46	1.8	0.8	0.1	6
31....	18	....	13	....	....	15	....	60	....	0.8	0.1	....
Total	668	514	403	....	....	516	2907	2087	656	59.8	26.4	202.7
Mean.	21.5	17.1	13,0	12	15	16.6	96.9	67.3	21.9	1.93	0.85	6.76
Max..	24	21	16	....	....	18	328	155	60	10	1.8	19
Min...	18	13	11	....	....	15	14	12	1.8	0.8	0.1	0.5
Acre-ft.	1320	1020	799	738	863	1020	5770	4140	1300	119	52	402

Discharge of Roan Creek at DeBeque for Year Ending September 30, 1923.
Drainage Area, 210 Square Miles. Altitude, 4,935 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	38	38	....	....	....	28	54	266	328	82	30	60
2....	37	38	....	....	....	37	52	290	312	82	28	40
3....	37	41	....	....	....	43	50	330	297	80	28	40
4....	36	38	....	....	....	26	43	379	286	78	28	45
5....	36	40	....	....	....	27	46	471	272	69	26	45
6....	36	38	....	....	....	17	49	528	248	61	26	46
7....	34	38	....	....	....	26	49	584	241	58	28	43
8....	37	36	....	....	....	30	47	709	215	58	28	43
9....	38	36	....	....	....	34	49	614	208	56	34	43
10....	30	38	....	....	....	30	52	697	191	60	34	43
11....	30	37	....	....	....	29	52	753	191	64	39	43
12....	30	38	....	....	....	22	72	883	169	61	37	43
13....	30	33	....	....	....	26	94	709	158	64	38	42
14....	28	26	....	....	....	28	99	584	161	61	44	40
15....	28	26	....	....	....	24	102	464	148	64	43	40
16....	28	25	....	....	....	18	114	440	134	61	43	40
17....	27	28	....	....	....	28	125	407	136	58	40	40
18....	29	28	....	....	....	18	154	452	129	56	38	42
19....	30	28	....	....	....	26	177	563	124	51	39	50
20....	33	28	....	....	....	26	180	674	115	50	40	40
21....	36	29	....	....	....	25	180	674	109	48	45	40
22....	33	30	....	....	....	24	154	570	111	46	51	38
23....	33	28	....	....	....	25	139	549	111	48	48	56
24....	30	30	....	....	....	26	130	549	106	48	48	61
25....	30	29	....	....	....	27	130	528	111	51	48	45
26....	33	30	....	....	....	27	142	502	106	34	48	45
27....	38	29	....	....	....	26	160	502	102	36	44	43
28....	41	29	....	....	....	40	180	440	92	34	39	43
29....	41	29	....	....	....	38	202	407	86	32	36	40
30....	38	30	....	....	....	40	257	378	84	32	43	43
31....	38	....	....	....	....	41	....	340	....	30	43	....
Total	1043	971	....	....	....	882	3334	16236	5081	1713	1184	1322
Mean.	33.6	32.4	....	....	....	28.5	111	524	169	55.3	38.2	44.1
Max..	41	41	....	....	....	41	257	883	328	82	51	61
Min...	27	25	....	....	....	17	43	266	84	30	26	38
Acre-ft.	2070	1930	....	....	....	1750	6600	32200	10100	3400	2350	2620

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Roan Creek at De Beque for Year Ending Sept. 30, 1924.
Drainage Area, 210 Square Miles. Altitude, 4,935 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	37	37	29	....	....	30	31	76	62	25	18	18
2....	36	36	22	....	....	31	33	79	64	22	18	17
3....	34	34	27	....	....	32	41	80	66	21	17	17
4....	36	34	27	....	....	31	60	83	70	22	17	16
5....	34	36	27	....	....	31	68	91	72	22	18	17
6....	36	34	27	....	....	31	109	85	68	22	18	17
7....	36	36	28	....	....	31	143	85	66	24	18	18
8....	36	35	28	....	....	30	167	87	66	27	17	18
9....	36	34	27	....	....	26	115	88	61	26	17	20
10....	34	35	....	....	....	28	95	78	56	28	18	27
11....	34	42	....	....	....	31	83	80	56	28	17	27
12....	33	37	....	....	....	30	100	78	54	25	17	25
13....	34	34	....	....	....	30	118	68	53	25	18	25
14....	34	34	....	....	....	30	136	68	52	22	19	25
15....	34	34	....	....	33	31	110	66	54	21	18	25
16....	34	31	....	....	....	30	72	62	52	19	18	25
17....	34	32	....	....	....	26	62	55	51	20	17	25
18....	34	32	....	....	....	32	60	45	49	20	18	25
19....	34	31	....	....	....	31	66	42	49	21	18	24
20....	34	31	....	....	....	32	91	31	44	19	17	25
21....	34	32	....	....	....	32	108	27	42	21	18	25
22....	35	31	....	....	....	33	117	27	42	21	17	24
23....	43	30	....	....	....	33	127	28	43	20	17	24
24....	38	31	....	....	....	32	118	31	41	18	17	24
25....	37	30	....	....	....	32	90	33	38	18	17	23
26....	37	33	....	....	....	33	91	35	35	18	17	25
27....	37	30	....	....	....	33	90	42	36	18	18	27
28....	37	25	....	....	....	41	85	45	33	19	18	27
29....	37	28	....	....	...	32	76	52	32	18	18	27
30....	36	31	....	....	....	32	77	54	30	18	18	27
31....	36	....	....	....	....	25	....	55	....	18	18	....
Total	1101	990	....	....	....	962	2740	1856	1537	666	546	688
Mean.	35.5	33.0	27.0	30.0	33.0	31.0	91.3	59.9	51.2	21.5	17.6	22.9
Max..	43	42	....	....	....	41	167	91	72	28	19	27
Min...	33	25	....	....	....	25	31	27	30	18	17	16
Acre-ft.	2180	1960	1610	1840	1900	1910	5430	3680	3050	1320	1080	1360

Discharge of Plateau Creek near Collbran for Year Ending Sept. 30, 1923.
Drainage Area, 88 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	8	8	....	....	....	....	23	112	881	242	38	40
2....	8	7	....	....	....	....	22	124	898	222	55	30
3....	8	7	....	....	....	....	20	160	960	208	41	25
4....	8	12	....	....	....	....	17	205	907	213	49	27
5....	8	18	....	....	....	....	16	239	872	180	49	19
6....	8	21	....	....	....	....	19	280	806	158	32	17
7....	8	19	....	....	....	....	21	283	771	150	22	16
8....	6	18	....	....	....	....	25	351	656	142	18	16
9....	5	19	....	....	....	17	25	422	580	134	27	17
10....	5	18	....	....	....	....	23	494	631	115	31	15
11....	6	14	....	....	....	....	23	498	762	110	25	14
12....	7	8	....	....	....	....	31	458	837	89	23	14
13....	8	6	....	....	....	....	39	410	824	96	131	17
14....	7	5	....	....	....	....	47	380	784	138	129	18
15....	6	6	....	....	....	....	45	266	740	120	150	23
16....	6	8	....	....	....	....	47	251	656	92	100	22
17....	5	9	....	....	....	....	63	236	555	86	62	26
18....	5	10	....	....	....	....	86	356	510	106	49	28
19....	5	9	....	11	....	....	117	414	462	129	41	41
20....	5	6	....	....	....	....	117	530	418	86	39	35
21....	5	8	....	....	....	....	86	648	378	84	41	37
22....	5	6	....	....	....	....	81	474	351	70	38	40
23....	8	6	....	....	....	....	60	522	332	57	38	43
24....	6	6	....	....	....	....	40	639	332	47	25	47
25....	5	6	....	....	....	....	60	810	318	38	22	41
26....	5	14	....	....	....	....	86	885	390	37	21	39
27....	6	12	....	....	....	....	95	947	332	33	20	28
28....	7	10	....	....	....	....	89	920	270	27	20	43
29....	7	10	....	....	....	....	103	854	270	15	20	38
30....	7	10	....	....	....	....	115	898	266	14	20	45
31....	7	....	....	....	....	25	....	988	....	14	26	....
Total	200	316	....	....	....	....	1641	15094	17749	3252	1402	861
Mean.	6.45	10.5	12	10	10	20	54.7	486	592	105	45.2	28.7
Max..	8	21	....	....	....	....	117	988	960	242	150	45
Min...	5	6	....	....	....	....	16	112	266	14	18	14
Acre-ft.	397	625	738	615	555	1230	3260	29900	35200	6460	2780	1710

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Plateau Creek Near Collbran for Year Ending September 30, 1924.
Drainage Area, 88 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	69	27	....	....	....	....	20	114	542	20	13	9
2....	60	30	....	....	....	....	19	147	542	20	12	9
3....	55	27	....	....	....	....	20	222	555	17	12	10
4....	45	28	....	....	....	....	22	310	610	14	11	9
5....	46	27	....	....	....	....	26	391	658	14	14	9
6....	64	24	....	....	....	....	32	384	520	21	18	9
7....	77	23	....	....	....	....	45	380	399	47	13	10
8....	54	17	....	....	....	....	62	403	327	43	10	9
9....	79	17	....	....	....	....	76	437	294	33	8	15
10....	81	20	....	....	....	....	75	511	245	26	8	36
11....	77	23	....	....	....	....	62	600	266	44	9	31
12....	70	26	....	....	....	....	54	687	304	24	11	22
13....	46	22	....	....	....	....	83	732	313	19	15	14
14....	41	24	....	....	....	....	128	732	281	14	29	13
15....	37	26	....	....	....	....	114	663	267	14	19	12
16....	34	27	....	....	15	....	69	748	227	14	13	12
17....	33	28	....	....	....	....	48	847	189	13	9	13
18....	26	30	....	....	....	....	46	852	146	13	10	14
19....	27	29	....	....	....	....	46	918	123	14	11	12
20....	26	28	....	....	....	....	61	907	105	14	11	10
21....	30	28	....	....	....	....	89	820	90	13	10	12
22....	27	29	....	12	....	....	125	663	79	15	9	14
23....	37	29	....	....	....	....	151	582	77	19	8	12
24....	29	30	....	....	....	....	153	555	75	20	9	12
25....	26	30	....	....	....	20	165	511	62	19	11	11
26....	28	30	....	....	....	20	120	546	51	20	11	10
27....	31	30	....	....	....	21	89	410	41	20	10	10
28....	35	30	....	....	....	21	77	498	33	29	9	11
29....	35	30	....	....	....	20	70	542	29	24	7	11
30....	28	30	....	....	....	20	85	542	22	16	7	11
31....	29	....	....	....	....	20	....	542	....	15	8	....
Total	1382	799	....	....	....	....	2232	17196	7472	648	355	392
Mean.	44.6	26.6	24	16	15	20	74.4	555	249	20.9	11.4	13.1
Max..	81	30	....	....	....	....	165	918	658	47	29	36
Min...	26	17	....	....	....	....	19	114	22	13	7	9
Acre-ft.	2740	1580	1480	984	863	1230	4430	34100	14800	1290	701	780

Discharge of Buzzard Creek at Collbran for Year Ending September 30, 1923.
Drainage Area, 136 Square Miles. Altitude, ... Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	3.0	6.4	....	....	....	....	37	162	389	44	15	30
2....	2.0	7.2	....	....	....	....	29	168	349	38	28	23
3....	2.0	9.1	....	....	....	....	24	227	345	32	28	16
4....	2.0	11.0	....	....	....	....	23	273	333	32	31	13
5....	2.7	7.2	....	....	....	....	22	320	279	31	37	13
6....	3.2	10.0	....	....	....	....	41	369	267	25	25	11
7....	3.2	8.0	....	....	....	....	57	350	245	23	18	10
8....	3.4	7.6	....	....	....	....	52	372	254	23	14	8
9....	3.0	6.6	....	....	....	28	50	419	276	25	13	7
10....	2.7	7.6	....	....	....	....	50	439	237	25	13	7
11....	2.5	8.3	....	....	....	....	63	493	233	25	13	7
12....	2.5	9.1	....	....	....	....	99	413	237	25	11	7
13....	2.2	11.0	....	....	....	....	90	375	264	25	31	7
14....	2.0	9.1	....	....	....	....	126	365	240	25	54	7
15....	2.5	8.3	....	....	....	....	103	325	209	25	46	7
16....	2.5	9.5	....	....	....	....	122	337	183	27	38	11
17....	3.0	9.9	....	....	....	....	140	367	153	23	28	11
18....	3.0	9.5	....	....	....	....	198	400	121	23	23	13
19....	3.4	11.0	....	23	....	....	210	452	111	25	25	9
20....	3.4	9.1	....	....	....	....	188	527	106	29	30	9
21....	3.9	10.0	....	....	....	....	114	567	99	36	25	10
22....	4.4	7.2	....	....	....	....	92	505	83	31	24	10
23....	6.1	5.8	....	....	....	....	70	404	73	22	21	10
24....	4.4	6.1	....	....	....	....	57	471	65	29	25	11
25....	3.9	6.4	....	....	....	....	70	541	65	21	17	16
26....	3.9	11.0	....	....	....	....	113	584	65	24	13	13
27....	4.4	7.2	....	....	....	....	139	557	83	23	11	7
28....	5.8	5.6	....	....	....	....	126	495	63	21	9	15
29....	6.9	5.6	....	....	....	....	150	426	56	18	9	14
30....	7.2	5.6	....	....	....	....	218	390	48	9	10	15
31....	6.1	....	....	....	....	38	....	415	....	8	19	....
Total	106.2	246.4	....	....	....	....	2873	12508	5530	792	704	347
Mean.	3.4	8.2	14	20	26	32	95.7	403	184	25.5	22.7	11.6
Max..	7.2	11.0	....	....	....	....	218	584	389	44	54	30
Min...	2.0	5.6	....	....	....	....	22	162	48	8	9	7
Acre-ft.	209	488	861	1230	1440	1970	5690	24800	10900	1570	400	690

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Buzzard Creek Near Collbran for Year Ending September 30, 1924.
Drainage Area, 136 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	15	14	....	....	....	....	19	143	276	9.1	1.6	0.7
2....	15	15	....	....	....	....	21	213	243	6.5	1.4	0.7
3....	16	13	....	....	....	....	22	322	249	5	1.3	0.7
4....	15	12	....	....	....	....	18	412	258	4.6	1.1	0.7
5....	16	8	....	....	....	....	20	469	276	3.6	0.9	0.7
6....	22	9.9	....	....	....	....	45	423	266	3.6	0.8	0.7
7....	22	7.2	....	....	....	....	88	381	258	4.6	0.8	0.8
8....	24	7	....	....	....	....	129	387	236	9.9	0.8	0.8
9....	20	7	....	....	....	....	116	390	157	16	0.8	1.1
10....	24	10	....	....	....	....	91	410	137	14	0.8	2.2
11....	24	8.5	....	....	....	....	92	545	126	18	0.8	8.3
12....	22	11	....	....	....	....	89	468	120	15	0.8	2.4
13....	21	10	....	....	....	....	117	433	113	8.7	0.9	1.3
14....	20	8.3	....	....	....	....	188	460	101	6.5	1.8	1.2
15....	18	6.8	....	....	....	....	192	408	96	5	2.4	1.1
16....	18	8.0	....	....	18	....	82	404	85	4.4	2.6	1.2
17....	17	11	....	....	....	....	65	398	70	2.8	1.8	1.2
18....	16	14	....	....	....	....	69	404	58	2.4	1.6	1.1
19....	15	11	....	....	....	....	71	370	49	2.2	1.4	1.0
20....	15	8.0	....	....	....	....	108	380	46	2.3	1.2	1.0
21....	15	7.2	....	....	....	....	137	351	40	2.4	0.8	1.3
22....	16	8.0	....	23	....	....	189	315	36	1.9	0.7	1.3
23....	15	9.1	....	....	....	....	252	276	31	1.9	0.8	1.2
24....	17	8.7	....	....	....	....	249	288	28	1.7	0.8	1.3
25....	16	6.5	....	....	....	5.0	170	270	25	1.6	0.9	0.9
26....	15	7	....	....	....	6.5	113	292	22	1.8	0.7	1.0
27....	13	6	....	....	....	9.5	94	320	19	1.9	0.6	1.1
28....	11	6	....	....	....	13	94	303	16	2	0.6	1.2
29....	14	6	....	....	....	24	77	294	14	1.9	0.6	1.3
30....	13	6	....	....	....	6.5	91	315	12	1.8	0.7	1.2
31....	13	....	....	....	....	7.2	....	280	....	1.7	0.8	....
Total	533	270.2	....	....	....	....	3108	11124	3463	164.7	33.6	40.7
Mean.	17.2	9.01	14	22	19	11	104	359	115	5.31	1.08	1.36
Max..	24	15	....	....	....	....	252	545	276	18	2.6	8.3
Min...	11	6	....	....	....	....	19	143	12	1.7	0.6	0.7
Acre-ft.	1060	536	861	1350	1090	676	6190	22100	684	326	66	81

Discharge of Taylor River at Almont for Year Ending September 30, 1923.
Drainage Area, 440 Square Miles. Altitude, 8,031 Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	163	172	142	....	....	125	95	256	1730	1340	589	362
2....	166	172	142	....	....	125	95	314	1740	1240	735	362
3....	163	172	137	....	....	125	93	387	1780	1140	605	362
4....	166	182	137	....	....	125	91	465	1800	1120	549	362
5....	185	179	137	....	....	125	91	605	1740	1070	494	350
6....	179	172	137	....	....	125	95	630	1640	1030	490	320
7....	175	172	134	....	....	125	95	622	1630	1170	475	303
8....	175	172	131	....	....	124	100	708	1620	1180	460	303
9....	169	172	131	....	....	121	100	807	1430	1000	440	292
10....	163	172	129	....	....	121	104	906	1270	1020	470	292
11....	166	172	126	....	....	119	109	861	1290	1180	480	281
12....	172	172	126	....	....	109	121	735	1560	1050	500	281
13....	175	169	126	....	....	104	140	664	1670	942	530	281
14....	172	172	121	....	....	109	140	573	1850	1150	600	281
15....	166	172	119	....	....	121	142	541	1910	980	750	281
16....	166	172	116	....	....	121	145	533	2030	825	740	281
17....	163	172	116	....	....	126	145	525	1980	816	760	320
18....	159	172	116	....	....	100	159	565	1740	816	810	413
19....	169	169	116	....	....	74	205	639	1590	906	834	450
20....	166	172	116	....	....	91	193	771	1740	798	573	413
21....	159	172	120	....	....	91	175	888	1760	807	494	375
22....	153	166	120	....	....	82	166	825	1590	690	437	331
23....	159	166	120	....	....	91	148	726	1530	605	432	314
24....	156	159	120	....	....	78	175	861	1670	565	426	310
25....	156	153	120	....	....	78	175	1160	1700	541	426	300
26....	166	153	120	....	....	87	205	1290	1740	549	413	310
27....	182	153	120	....	....	95	205	1610	1840	541	400	315
28....	182	153	120	....	....	95	209	1720	1590	525	400	318
29....	185	148	120	....	....	100	205	1600	1480	486	387	320
30....	172	145	120	....	....	100	266	1550	1380	437	375	320
31....	172	....	120	....	....	100	....	1660	....	450	362	....
Total	5220	5019	3875	....	....	3312	4387	25997	50020	26969	16436	9803
Mean.	168	167	125	....	....	107	146	839	1670	870	530	327
Max..	185	182	142	....	....	126	266	1720	2030	1340	834	450
Min...	153	145	....	....	....	78	91	256	1270	437	362	281
Acre-ft.	10300	9940	7690	....	....	6580	8690	51600	99400	53500	32600	19500

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Taylor River at Almont for Year Ending September 30, 1924.
Drainage Area, 440 Square Miles. Altitude, 8,031 Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	315	238	195	146	145	116	102	1060	726	726	288	189
2....	315	226	189	146	145	116	140	1060	694	678	262	192
3....	315	212	177	146	145	116	140	710	906	646	258	186
4....	315	198	177	146	145	116	145	1000	1360	600	258	186
5....	325	195	177	146	145	116	145	710	1880	578	262	189
6....	355	216	183	146	145	116	152	592	1900	592	262	189
7....	365	206	183	146	145	116	180	592	2090	608	284	189
8....	355	202	180	146	145	116	223	592	1640	750	292	186
9....	340	220	171	146	145	104	242	615	1460	615	279	186
10....	330	212	162	146	145	102	223	694	1360	555	279	198
11....	325	226	162	155	139	162	226	758	1560	570	270	223
12....	315	226	160	155	139	148	212	862	1880	492	266	209
13....	315	212	160	155	139	122	223	1010	2200	466	266	202
14....	315	189	166	155	139	136	284	1010	2230	426	279	180
15....	315	180	166	155	139	136	365	980	2070	402	274	160
16....	315	206	166	155	139	131	209	1040	2230	398	242	162
17....	320	202	166	155	139	131	180	1230	1840	433	230	162
18....	335	206	166	155	139	150	171	1240	1520	414	226	162
19....	345	206	166	155	139	150	180	1150	1410	365	216	165
20....	355	183	166	155	139	150	260	980	1190	340	206	165
21....	355	189	166	154	123	152	340	1120	1120	330	206	168
22....	325	186	150	154	123	145	420	1160	1080	310	220	165
23....	262	189	150	154	123	131	534	1020	1010	302	216	165
24....	238	195	150	154	123	142	608	924	970	302	216	165
25....	230	198	150	154	123	140	414	1060	960	302	209	165
26....	230	171	150	154	123	142	292	1230	942	288	209	171
27....	230	162	150	154	123	145	262	1140	870	284	198	174
28....	238	140	150	154	123	142	262	960	846	292	202	177
29....	238	140	150	154	123	140	306	888	822	292	206	189
30....	223	195	150	154	....	138	790	830	750	288	198	192
31....	226	....	150	154	....	102	....	822	....	297	195	....
Total	9380	5926	5096	4709	3942	4069	8230	29039	41516	13941	7474	5411
Mean.	303	198	164	152	136	131	274	937	1380	450	241	180
Max..	365	238	195	....	....	162	790	1240	2230	726	292	223
Min...	223	140	....	....	....	102	102	592	694	284	195	160
Acre-ft.	18600	11800	10100	9350	7820	8060	16300	57600	82100	27700	14800	10700

Discharge of Gunnison River Near Gunnison for Year Ending September 30, 1923.
Drainage Area, 1,010 Square Miles. Altitude, 7,673 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	197	227	174	166	174	184	290	984	4310	3190	1110	713
2....	181	217	167	166	174	184	265	995	4410	3050	1310	731
3....	181	213	170	166	174	184	255	1330	4610	2910	1290	695
4....	181	227	170	166	174	184	250	1720	4870	2860	1100	668
5....	189	232	170	166	174	184	255	1960	4750	2910	1100	704
6....	197	232	174	166	174	184	250	2490	4110	2860	1040	659
7....	197	236	174	166	174	184	260	2620	3670	2860	1020	610
8....	197	236	170	166	174	184	270	2630	4030	2870	984	578
9....	197	236	178	166	174	184	270	2840	3570	2690	929	555
10....	189	232	164	166	174	184	275	3230	2970	2710	973	495
11....	189	232	164	182	189	159	290	3330	3130	2670	973	481
12....	185	241	164	182	189	159	305	2670	3630	2560	995	467
13....	185	232	164	182	189	159	338	2560	3870	2470	1040	474
14....	181	222	164	182	189	159	354	2330	4330	2560	1170	540
15....	181	222	164	182	189	159	432	2090	4330	2420	1210	518
16....	181	227	164	182	189	159	453	2000	4690	2300	1210	525
17....	181	222	164	182	189	159	532	2350	4390	2010	1220	594
18....	185	222	164	182	189	159	634	2250	3890	2080	1240	668
19....	181	222	164	182	189	159	759	2350	3790	2090	1330	731
20....	181	222	164	182	189	159	650	2870	3950	2090	1170	677
21....	181	222	179	161	162	243	677	3130	3750	2160	1240	634
22....	181	213	179	161	162	243	677	3190	3450	1800	1210	594
23....	181	204	179	161	162	243	618	2650	3450	1660	1200	570
24....	181	200	179	161	162	243	555	2910	3310	1470	995	586
25....	181	181	179	161	162	243	525	3830	3650	1410	898	602
26....	181	170	179	161	162	243	532	4130	3750	1400	898	626
27....	189	167	179	161	162	243	634	4730	3850	1210	806	626
28....	204	167	179	161	162	243	650	4930	3350	1160	806	642
29....	204	170	179	161	....	243	797	4830	3350	1060	722	642
30....	213	170	179	161	....	349	995	3830	3250	973	713	642
31....	213	....	179	161	....	310	....	4630	....	930	797	....
Total	5845	6411	5314	5254	5010	6273	14047	88389	116460	67393	32699	18247
Mean.	189	214	171	169	179	202	468	2850	3880	2170	1050	608
Max..	213	241	....	....	....	349	995	4930	4870	3190	1330	731
Min...	181	167	....	....	....	....	250	984	2970	930	713	467
Acre-ft.	11600	12700	10500	10400	9940	12400	27800	175000	231000	133000	64600	36200

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Gunnison River Near Gunnison for Year Ending September 30, 1924.
Drainage Area, 1,010 Square Miles. Altitude, 7,673 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	578	439	285	....	....	220	300	1310	1650	1400	366	236
2....	540	460	275	....	....	220	285	1360	1710	1300	349	222
3....	548	446	270	....	....	220	305	1840	1840	1170	349	213
4....	563	418	260	....	....	220	354	2200	2450	1150	354	213
5....	570	418	265	....	....	220	425	2030	3210	1090	425	217
6....	578	354	222	....	....	220	548	1790	3810	1060	386	227
7....	610	332	246	....	....	220	704	1770	3950	1070	360	227
8....	555	349	280	....	....	220	846	1800	3510	1250	354	227
9....	518	360	270	....	....	220	1030	1960	2840	1150	344	222
10....	532	338	265	....	....	220	919	2040	2710	1040	344	241
11....	518	380	236	....	....	220	919	2320	2910	1000	360	270
12....	525	392	227	....	....	220	888	2560	3510	930	344	260
13....	548	349	217	....	....	220	1030	2710	4110	908	349	236
14....	548	338	208	....	....	220	1300	2760	4270	835	406	222
15....	525	290	204	....	....	220	1410	2720	4070	722	412	227
16....	518	285	217	....	....	220	930	2650	3830	731	392	213
17....	502	275	217	....	....	220	578	2720	3310	778	360	217
18....	488	275	208	....	....	220	594	2690	2870	816	349	217
19....	481	280	213	....	....	220	634	2630	2780	668	354	222
20....	481	275	217	....	....	220	750	2510	2400	618	300	217
21....	488	275	208	....	....	246	1100	2620	2330	548	275	213
22....	481	280	213	....	....	232	1210	2690	2330	525	270	217
23....	481	280	217	....	....	217	1600	2450	2200	467	280	208
24....	481	290	222	....	....	197	1870	2280	2000	453	280	204
25....	488	295	222	....	....	222	1270	2280	2000	412	270	193
26....	510	265	227	....	....	246	1040	2200	2010	412	285	204
27....	481	270	217	....	....	241	920	2720	1770	392	270	213
28....	481	285	204	....	....	222	846	2630	1800	399	250	208
29....	474	300	208	....	....	217	797	2030	1710	406	260	208
30....	453	300	208	....	....	217	988	1880	1580	392	255	208
31....	386	....	208	....	....	246	....	1840	....	392	241	....
Total	15930	9893	7156	....	....	6903	26390	69990	81470	24484	10193	6622
Mean.	514	330	231	230	225	223	880	2260	2720	790	329	221
Max..	610	460	285	....	....	246	1870	2760	4270	1400	425	270
Min...	386	265	204	....	....	....	285	1310	1580	392	241	193
Acre-ft.	31600	19600	14200	14100	12900	13700	52400	139000	162000	48600	20200	13200

Discharge of Gunnison River and Redlands Power Canal at Grand Junction for Year Ending September 30, 1923.
Drainage Area, 8,020 Square Miles. Altitude, 4,573 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	452	1110	1030	895	850	810	1280	4180	14800	7550	2110	2820
2....	472	1110	1030	895	850	810	1300	3880	14100	7550	2700	2330
3....	472	1110	1030	895	850	810	1350	3310	14100	7090	3170	2330
4....	516	1120	1030	895	850	810	1370	6230	14600	6060	3590	2100
5....	472	1150	962	895	850	810	1190	8020	14000	5690	3450	2000
6....	472	1150	962	895	755	865	979	9610	12800	5510	2880	2000
7....	472	1030	962	895	755	880	1460	10500	11400	5160	2610	2150
8....	472	1030	962	895	755	890	1440	11400	11500	5870	2480	2460
9....	472	1030	962	895	755	880	1480	12400	11200	6250	2480	2350
10....	537	1030	962	895	755	860	1570	13400	10500	5690	2340	2150
11....	537	1030	843	880	755	855	1650	14700	8810	5330	2390	2150
12....	586	1030	824	880	755	855	1600	13400	8810	5160	2340	2150
13....	630	1030	824	880	755	855	2130	11100	11400	4800	3120	1960
14....	667	1030	1030	872	755	855	2390	10900	12700	4640	3090	1730
15....	697	1030	1180	872	755	855	2390	9060	13500	4990	3370	1200
16....	697	1030	1280	890	830	855	2310	8020	13800	5170	3810	1040
17....	697	962	1200	890	830	855	2430	8790	13500	4500	4110	1020
18....	727	962	1200	890	830	855	2880	10200	12800	4270	3980	1050
19....	803	962	1230	890	830	873	4260	11400	11500	3890	3840	1250
20....	1040	962	1020	890	830	827	4400	13400	10900	3750	3990	1290
21....	1040	1030	980	890	835	831	3590	15400	10200	3890	4120	1360
22....	904	1030	940	890	835	835	3060	14700	9630	4200	2980	1360
23....	904	1030	940	890	835	870	2880	12700	8810	4040	3000	1400
24....	904	1030	940	890	835	800	1740	11400	8550	3010	2700	1520
25....	996	1030	940	890	835	653	1570	13400	8790	3040	2460	1520
26....	1040	1030	940	900	835	664	1480	16000	9040	3590	2340	1520
27....	1040	1030	940	900	835	752	1800	18000	10200	3870	2400	1740
28....	1040	995	940	900	835	752	2800	18100	10500	2910	2570	1740
29....	1040	1010	940	900	....	764	2940	16400	9630	2420	2250	1690
30....	1110	1030	940	900	....	829	3130	14700	8040	2420	2250	1640
31....	1110	....	940	900	....	946	....	14400	....	2330	2250	....
Total	23018	31143	30903	27634	22630	25661	64849	359100	340110	144640	91170	53020
Mean.	743	1040	997	891	808	828	2160	11600	11300	4670	2940	1770
Max..	1110	1150	1280	....	....	946	4400	18100	14800	7550	4120	2820
Min...	452	962	....	....	....	....	979	3310	8040	2330	2110	1020
Acre-ft.	45700	61900	61300	54800	44900	50900	129000	713000	672000	287000	181000	105000

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Gunnison River and Redlands Power Canal Near Grand Junction for Year Ending September 30, 1924.
Drainage Area, 8,020 Square Miles. Altitude, 4,573 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1570	1630	1120	990	890	900	1060	2870	9230	3460	525	183
2....	1920	1630	1090	990	890	1000	1060	4460	8880	3110	400	175
3....	2080	1760	1090	990	890	1100	1010	6010	9020	2920	381	162
4....	2100	1910	1020	990	890	1200	701	9850	9480	2700	343	163
5....	2100	1900	1090	990	890	1100	1070	11500	12100	2210	339	160
6....	2010	1840	1090	1000	950	1000	1250	10900	14600	2080	343	160
7....	1970	1740	1090	1000	950	900	1360	9400	15000	2140	375	169
8....	2130	1410	1090	1000	950	880	3080	9980	14900	2100	343	203
9....	2160	1550	1090	1000	950	870	3500	9420	12400	2150	340	205
10....	1960	1550	1060	1000	950	860	4640	9420	9980	2460	298	300
11....	1930	1670	1060	990	1000	850	4000	11300	9420	2530	265	654
12....	1940	1860	1060	990	1000	850	4420	12200	10300	2640	255	440
13....	1830	1720	1060	990	1000	858	4420	12100	12600	2270	235	360
14....	1880	1610	1060	990	1000	808	4420	12400	14900	1660	340	380
15....	1930	1570	1060	990	1000	718	5290	12100	14900	1370	320	360
16....	1830	1530	1080	990	1200	718	5700	11800	14100	1290	350	350
17....	1780	1530	1080	990	1200	727	4590	11500	12800	1160	440	340
18....	1740	1410	1080	990	1200	741	3210	12400	11100	1170	320	350
19....	1740	1350	1080	990	1200	718	2760	12200	10000	1090	270	410
20....	1650	1350	1080	990	1200	718	2310	11500	9450	1060	220	450
21....	1650	1350	1050	950	1000	708	3120	10900	7780	812	210	440
22....	1630	1350	1050	950	1000	785	4120	10100	6880	782	210	500
23....	1630	1350	1050	950	1000	858	4990	10100	6460	672	210	520
24....	1630	1280	1050	950	1000	858	6610	9020	5980	573	210	530
25....	1720	1280	1050	950	1000	885	6260	8580	5660	531	200	540
26....	2180	1280	1030	950	900	913	5880	9020	5550	500	190	531
27....	2440	1090	1030	950	900	1060	4180	11200	5210	470	180	545
28....	1630	1210	1030	950	900	1130	3480	12600	4700	460	170	531
29....	1630	1210	1030	950	900	1140	3340	12300	4300	490	163	573
30....	1630	1150	1030	950	....	1140	2690	11200	4780	500	190	573
31....	1630	....	1030	950	....	1060	....	10600	....	585	190	....
Total	57650	45070	32960	30300	28800	28053	104521	318930	292460	47945	8825	11257
Mean.	1860	1500	1060	977	993	905	3480	10300	9750	1550	285	375
Max..	2440	1910	....	....	....	1200	6610	12600	15000	3460	525	654
Min...	1570	1090	....	....	....	708	701	2870	4300	460	163	160
Acre-ft.	114000	89300	65200	60100	57100	55600	207000	633000	580000	95300	17500	22300

Discharge of Lake Fork at Lake City for Year Ending September 30, 1923.
Drainage Area, 126 Square Miles. Altitude, 8,675 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	21	12	....	....	....	....	12	44	530	498	150	92
2....	20	14	....	....	....	....	12	48	540	460	150	92
3....	20	13	....	....	....	....	12	51	570	433	150	92
4....	19	14	....	....	....	....	12	84	635	415	150	90
5....	18	22	....	....	....	....	12	153	620	380	153	84
6....	18	15	....	....	....	....	12	180	590	375	136	82
7....	17	13	....	....	....	....	84	184	570	365	118	80
8....	17	12	....	....	....	....	44	162	505	409	116	77
9....	15	12	....	....	....	....	26	198	468	370	114	69
10....	17	12	....	....	....	....	20	240	409	345	118	67
11....	17	11	....	....	....	....	16	243	452	340	123	64
12....	17	11	....	....	....	....	18	266	580	360	134	61
13....	15	12	....	....	....	....	19	254	650	365	165	64
14....	15	13	....	....	....	....	20	226	710	370	212	64
15....	10	14	....	....	....	....	20	190	740	415	226	64
16....	15	13	....	....	....	....	26	165	755	403	258	67
17....	36	15	....	....	....	....	24	159	635	375	258	67
18....	33	15	....	....	....	....	23	159	550	340	270	67
19....	27	15	....	....	....	....	28	174	512	350	335	69
20....	24	15	....	....	....	....	32	236	520	415	335	72
21....	22	15	....	....	....	....	35	278	468	409	299	75
22....	20	15	....	....	....	....	40	312	452	350	254	74
23....	17	15	....	....	....	....	42	317	439	299	215	84
24....	15	15	....	....	....	....	42	326	498	266	177	98
25....	14	20	....	....	....	....	40	340	540	250	153	98
26....	14	23	....	....	....	....	38	403	590	232	131	105
27....	14	23	....	....	....	....	36	482	610	215	121	100
28....	14	20	....	....	....	....	36	540	610	204	112	100
29....	15	20	....	....	....	....	36	550	590	184	102	96
30....	14	20	....	....	....	....	39	540	570	168	98	96
31....	12	....	....	....	....	....	....	600	....	153	92	....
Total	562	459	....	....	....	....	856	8104	16908	10513	5425	2410
Mean.	18.1	15.3	....	....	....	....	28.5	261	564	339	175	80.3
Max..	36	23	....	....	....	....	84	600	755	498	335	105
Min...	10	11	....	....	....	....	12	44	409	153	92	61
Acre-ft.	1110	910	....	....	....	....	1700	16000	33600	20800	10800	4780

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lake Fork at Lake City for Year Ending September 30, 1924.
Drainage Area, 126 Square Miles. Altitude, 8,675 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	96	42	....	....	....	....	14	64	215	394	82	19
2....	96	44	....	....	....	....	13	74	215	362	77	22
3....	96	39	....	....	....	....	12	78	278	322	70	20
4....	96	36	....	....	....	....	12	123	400	300	67	19
5....	92	35	....	....	....	....	12	219	495	273	66	17
6....	92	38	....	....		....	16	219	580	255	61	16
7....	90	38	....	....	....	....	33	215	630	251	56	15
8....	82	38	....	....	....	....	39	212	630	243	50	18
9....	78	36	....	....	....	....	39	201	580	223	46	19
10....	77	34	....	....	....	....	39	231	580	208	43	18
11....	72	34	....	....	....	....	38	255	580	208	42	17
12....	72	35	....	....	....	....	31	255	700	212	44	16
13....	74	35	....	....	....	....	34	300	885	194	42	16
14....	70	34	....	....	....	....	50	345	1000	180	49	22
15....	64	32	....	....	....	....	63	400	1150	168	50	22
16....	63	....	....	....	....	....	63	400	770	150	53	19
17....	61	....	....	....	....	....	64	400	770	150	45	19
18....	63	....	....	.....	....	....	90	495	770	147	45	21
19....	63	....	....	....	....	17	150	530	630	136	63	19
20....	58	....	....	....	....	11	136	495	530	126	90	19
21....	53	....	....	....	....	10	77	495	530	116	31	19
22....	27	....	....	....	....	10	100	495	530	107	21	16
23....	31	....	....	....	....	11	139	460	495	98	27	17
24....	43	....	....	....	....	11	174	460	495	94	27	19
25....	49	....	....	....	....	10	159	460	495	86	26	19
26....	46	....	....	....	....	11	147	460	495	80	25	17
27....	46	....	....	....	....	11	118	400	460	78	24	19
28....	42	....	....	....	....	12	118	345	460	94	24	23
29....	39	....	....	....	....	12	70	300	430	105	19	19
30....	38	....	....	....	....	14	66	255	406	98	27	19
31....	38	....	....	....	....	14	....	235	....	90	20	....
Total	2007	550	....	....	....	154	2116	9876	17184	5548	1412	560
Mean.	64.7	....	....	....	....	....	70.5	319	573	179	45.5	18.7
Max..	96	....	....	....	....	....	174	530	1150	394	90	23
Min...	27	....	....	....	....	....	12	64	215	78	19	15
Acre-ft.	3980	....	....	....	....	....	4200	19600	34100	11000	2800	1110

Discharge of North Fork Gunnison River Near Paonia for Year Ending September 30, 1923.
Drainage Area, 702 Square Miles. Altitude, 5,684 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	5	20	....	....	....	98	228	1400	3440	1300	142	52
2....	6	34	....	..	....	112	192	1580	3360	1190	247	43
3....	5	27	....	....	....	126	192	2080	3210	1150	247	27
4....	9	34	....	....	....	126	158	2560	3140	1070	228	34
5....	6	43	....	....	....	112	142	2840	2770	1110	228	43
6....	14	74	....	....	....	86	158	2910	2700	960	228	34
7....	11	63	....	....	....	112	247	3360	2440	960	175	27
8....	12	52	....	....	....	98	266	3210	2560	1190	158	20
9....	9	63	....	....	....	98	286	3590	2370	995	52	16
10....	9	98	....	....	....	98	327	3750	2080	792	63	16
11....	9	74	....	....	....	98	392	3750	2250	792	86	27
12....	12	86	....	....	....	74	564	3140	2370	730	98	16
13....	9	98	....	....	....	74	730	2840	2250	672	228	12
14....	12	98	....	....	....	86	672	2440	2310	644	464	16
15....	12	112	....	....	....	74	700	2440	2440	564	416	16
16....	9	98	....	....	....	86	824	2200	2310	564	370	20
17....	12	86	....	....	....	63	1070	2200	2310	513	228	16
18....	9	98	....	....	....	52	1310	2030	2200	513	158	20
19....	12	86	....	....	....	74	1480	3210	2030	488	112	34
20....	12	98	....	....	....	86	1400	3590	1870	464	126	27
21....	9	74	....	....	....	74	1070	3670	1870	513	142	16
22....	12	63	....	....	....	86	890	3210	1670	464	126	27
23....	12	63	....	....	....	63	617	2910	1670	370	86	27
24....	9	86	....	....	....	86	464	3210	1670	286	86	27
25....	9	74	....	....	....	86	513	3910	1820	247	74	34
26....	12	98	....	....	....	63	760	3990	1770	228	63	27
27....	9	63	....	....	....	74	1110	4230	1580	210	43	43
28....	16	86	....	....	....	98	1190	3910	1620	175	20	34
29....	52	86	....	....	....	112	1230	3590	1580	142	16	43
30....	27	112	....	....	....	126	1620	3440	1440	126	27	43
31....	20	....	....	....	....	175	....	3360	....	112	43	....
Total	381	2247	....	....	....	2876	20802	94450	67100	19534	4780	837
Mean.	12.3	74.9	....	....	....	92.8	693	3050	2240	630	154	27.9
Max..	52	112	....	....	....	175	1620	4230	3440	1300	464	52
Min...	5	20	....	....	....	52	142	1400	1440	112	16	16
Acre-ft.	756	4460	....	....	....	5710	41200	188000	133000	38700	9470	1660

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of North Fork Gunnison River at Paonia for Year Ending September 30, 1924.
Drainage Area, 702 Square Miles. Altitude 5684 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	88	78	88	....	100	54	48	1190	2020	382	15	7
2....	98	88	88	....	98	69	78	1590	1900	360	12	6
3....	88	98	110	....	78	69	69	2260	2020	318	8	8
4....	98	78	78	....	98	78	98	2530	2330	298	7	6
5....	110	98	88	....	78	60	98	2670	2740	298	6	7
6....	148	88	98	....	69	48	163	2460	2670	260	7	6
7....	135	78	88	....	88	54	298	2330	2400	225	5	7
8....	148	78	88	....	78	48	339	2530	1960	298	6	7
9....	178	88	98	....	98	42	452	2460	1850	339	8	7
10....	193	98	88	....	88	48	532	2670	1900	208	10	7
11....	163	96	98	....	122	69	590	2740	1900	260	6	6
12....	163	94	110	....	122	54	452	2890	2140	242	7	8
13....	148	94	88	....	98	60	560	3040	2140	208	12	5
14....	135	92	98	....	78	69	846	2960	2200	163	12	6
15....	148	92	90	....	122	69	952	2820	1960	135	10	7
16....	135	90	84	....	88	48	560	2820	2020	98	8	8
17....	110	90	88	....	148	42	428	2890	1590	98	7	7
18....	135	88	88	....	88	54	339	2670	1270	88	8	6
19....	122	88	88	....	98	69	360	2600	1270	69	10	7
20....	88	88	86	....	98	54	504	2600	991	48	7	5
21....	88	98	86	....	110	60	812	2330	991	42	8	6
22....	98	88	86	....	88	60	1190	2200	846	36	7	8
23....	110	78	86	....	60	60	1540	1900	779	31	6	7
24....	98	88	86	....	54	78	1740	1640	779	18	10	6
25....	88	88	86	....	60	60	1270	1690	714	18	6	8
26....	98	110	86	....	60	78	1030	2020	590	22	6	7
27....	88	98	86	....	54	60	779	2200	560	15	7	6
28....	88	88	86	....	69	78	651	2330	504	18	6	7
29....	69	98	86	....	60	78	560	2140	452	60	8	8
30....	78	110	86	....	....	69	746	2200	504	15	6	7
31....	88	....	86	....	....	54	....	2080	....	12	8	....
Total	3622	2736	2776	....	2560	1893	18084	73450	45990	4682	249	203
Mean.	117	91.2	89.5	84	88.3	61.1	603	2370	1530	151	8.03	6.77
Max..	193	110	110	....	148	78	1740	3040	2740	382	15	8
Min...	69	78	78	....	54	42	48	1190	452	12	5	5
Acre-ft.	7190	5430	5500	5160	5080	3760	35900	146000	91000	9280	494	403

Discharge of Leroux Creek near Lazear for Year Ending Sept. 30, 1923.
Drainage Area 52 Square Miles. Altitude, ... Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	3	1	....	....	....	....	....	49	416	42	34	36
2....	3	1	....	....	....	....	....	91	373	42	37	34
3....	3	2	....	....	....	....	....	107	385	46	33	33
4....	3	2	....	....	....	....	....	154	313	41	34	30
5....	3	2	....	....	....	....	....	171	232	37	14	26
6....	3	3	....	....	....	....	....	205	295	33	26	25
7....	3	3	....	....	....	....	....	288	171	35	35	25
8....	3	2	....	....	....	....	....	403	134	35	35	27
9....	3	2	....	....	....	....	....	421	123	36	30	27
10....	3	3	....	....	....	....	....	463	141	38	27	26
11....	3	2	....	....	....	....	....	416	158	38	27	25
12....	3	2	....	....	....	....	....	340	200	30	30	24
13....	3	3	....	....	....	....	....	278	192	27	27	24
14....	3	3	....	....	....	....	....	197	158	39	27	24
15....	3	4	....	....	....	....	....	164	143	37	88	37
16....	4	4	....	....	....	....	....	151	113	31	52	32
17....	4	4	....	....	....	....	....	169	100	30	38	27
18....	3	4	....	....	....	....	....	262	84	30	32	26
19....	2	4	....	....	....	....	....	348	78	28	27	26
20....	2	4	....	....	....	....	....	472	58	25	27	26
21....	2	3	....	....	....	....	....	425	47	25	30	26
22....	2	3	....	....	....	....	....	332	46	32	30	26
23....	3	3	....	....	....	....	....	227	68	32	33	27
24....	3	3	....	....	....	....	....	381	71	29	34	27
25....	2	3	....	....	....	....	....	515	76	30	32	27
26....	1	4	....	....	....	....	....	540	81	30	33	28
27....	2	3	....	....	....	....	....	612	82	32	34	28
28....	2	3	....	....	....	....	....	515	70	38	35	29
29....	1	3	....	....	....	....	....	434	51	37	35	30
30....	1	4	....	....	....	....	....	458	46	35	35	30
31....	1	....	....	....	....	....	....	515	....	33	36	....
Total	80	87	....	....	....	....	....	10103	4505	1053	1047	839
Mean.	2.58	2.90	....	....	....	....	....	326	150	34.	33.8	28.
Max...	4	4	....	....	....	....	....	612	416	46	88	36
Min...	1	1	....	....	....	....	....	49	46	25	14	24
Acre-ft.	159	173	....	....	....	....	....	20000	8930	2090	2080	1670

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Leroux Creek Near Lazear for Year Ending September 30, 1924.
Drainage Area, 52 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	22	5	....	....	....	4	5	234	214	16	10	3
2....	17	5	....	....	....	4	4	477	341	17	9	3
3....	17	5	....	....	....	4	5	439	306	24	9	3
4....	16	4	....	....	....	4	6	500	282	20	8	3
5....	16	4	....	....	....	4	6	504	231	18	9	1
6....	16	4	....	....	....	4	10	485	188	22	8	1
7....	12	4	....	....	....	4	13	466	136	26	7	1
8....	12	4	....	....	....	2	15	489	86	24	6	2
9....	12	4	....	....	....	6	16	532	83	19	6	4
10....	12	4	....	....	....	8	20	540	83	15	6	16
11....	12	6	....	....	....	4	21	544	74	16	6	18
12....	12	7	....	....	....	4	16	520	75	15	6	8
13....	12	8	....	....	....	7	25	520	77	14	7	5
14....	12	7	....	....	....	6	24	432	70	14	9	3
15....	12	6	....	....	....	6	24	367	66	13	9	5
16....	12	6	....	....	....	6	24	424	59	13	7	4
17....	12	6	....	....	....	5	24	409	55	12	5	3
18....	11	8	....	....	....	5	24	371	46	12	4	2
19....	11	9	....	....	....	5	24	292	39	10	2	2
20....	11	11	....	....	....	5	30	221	36	10	1	2
21....	6	13	....	....	....	5	36	198	35	10	1	2
22....	4	18	....	....	....	5	36	160	32	10	1	4
23....	5	13	....	....	....	5	36	141	31	11	2	2
24....	4	10	....	....	....	5	36	141	29	11	4	2
25....	4	8	....	....	....	5	36	138	27	13	6	1
26....	5	5	....	....	....	5	36	174	22	14	6	1
27....	5	4	....	....	....	5	41	208	21	18	6	2
28....	3	5	....	....	....	5	39	168	21	22	4	2
29....	4	4	....	....	....	6	52	121	18	18	6	3
30....	5	4	....	....	....	5	102	121	16	13	6	4
31....	6	....	....	....	....	6	....	119	....	10	4	....
Total	320	201	....	....	....	154	786	10455	2799	480	180	112
Mean.	10.3	6.70	....	....	....	4.97	26.2	337	93.3	15.5	5.81	3.73
Max..	22	18	....	....	....	.8	102	544	341	26	10	18
Min...	3	4	....	....	....	2	4	119	16	10	1	1
Acre-ft.	633	399	....	....	....	306	1560	20700	5550	953	357	222

Discharge of Surface Creek at Cedaredge for Year Ending September 30, 1923.
Drainage Area, 43 Square Miles. Altitude, 7,000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	10	6	6	....	....	4	5	35	130	63	11	26
2....	10	6	5	....	....	4	4	57	114	52	18	42
3....	10	6	5	....	....	4	4	85	102	56	13	37
4....	10	7	....	....	....	4	5	116	72	51	10	29
5....	10	6	....	....	....	4	5	125	46	44	17	26
6....	10	10	....	....	....	4	5	164	63	48	21	24
7....	10	8	....	....	....	4	5	202	96	44	20	20
8....	10	6	....	....	....	4	5	193	114	51	20	22
9....	9	6	....	....	....	4	6	208	118	44	21	20
10....	9	6	....	....	....	4	6	215	109	46	32	18
11....	9	6	....	....	....	4	6	208	107	38	30	17
12....	9	8	....	....	....	5	6	172	116	31	38	20
13....	8	6	....	....	....	4	8	107	120	32	56	22
14....	8	7	....	....	....	4	8	87	109	26	48	18
15....	8	12	....	....	....	5	8	89	87	20	63	18
16....	8	8	....	....	....	5	8	89	74	16	46	15
17....	8	5	....	....	....	4	8	104	58	22	38	14
18....	8	4	....	....	....	5	8	150	57	23	28	13
19....	8	5	....	....	....	6	8	193	67	19	24	17
20....	8	4	....	....	....	6	10	237	74	20	31	16
21....	7	4	....	....	....	6	10	215	72	23	31	14
22....	6	4	....	....	....	6	12	150	63	23	48	14
23....	6	5	....	....	....	6	12	120	57	28	42	15
24....	6	5	....	....	....	5	14	150	52	43	38	20
25....	5	5	....	....	....	3	16	193	51	41	32	13
26....	6	6	....	....	....	4	18	225	60	31	28	10
27....	5	6	....	....	....	4	20	218	60	27	25	9
28....	5	6	....	....	....	4	20	164	65	26	28	13
29....	6	6	....	....	....	4	22	130	72	21	27	17
30....	6	6	....	....	....	5	40	125	77	20	32	17
31....	6	....	....	....	....	6	....	138	....	17	38	....
Total	244	185	....	....	....	141	312	4664	2462	1046	954	576
Mean.	7.87	6.17	3	3	3	4.55	10.4	150	82.1	33.7	30.8	19.2
Max..	10	10	....	....	....	6	40	225	130	63	63	42
Min...	5	4	....	....	....	3	4	35	46	16	11	9
Acre-ft.	484	367	184	184	167	280	619	9220	4890	2070	1890	1140

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Surface Creek at Cedaredge for Year Ending September 30, 1924. Drainage Area, 43 Square Miles. Altitude, 7000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	12	....	....	....	....	6.4	6.4	43	48	36	17	9.6
2....	12	....	....	....	....	6	6.4	63	63	51	16	19
3....	13	....	....	....	....	6	6.2	118	52	46	9.2	21
4....	13	....	....	....	....	6.2	6.2	123	48	40	12	14
5....	13	....	....	....	....	6.2	6.2	109	87	40	16	9.2
6....	14	....	....	....	....	6.6	7.0	104	51	68	20	9.6
7....	14	....	....	....	....	6.4	9.6	96	29	58	15	10
8....	11	....	....	....	....	6.2	13	96	23	44	17	8
9....	12	....	....	....	....	6.2	14	102	24	40	14	7.6
10....	14	....	....	....	....	6	17	104	33	48	14	11
11....	12	....	....	....	....	6	15	111	42	51	14	13
12....	11	....	....	....	....	6	17	96	67	38	12	10
13....	11	....	....	....	....	6	24	92	68	36	13	9.6
14....	11	....	....	....	....	6.2	28	67	63	22	19	8.8
15....	11	....	....	....	....	6	28	70	60	24	19	9.2
16....	10	....	....	....	....	6	28	96	58	32	17	8.8
17....	10	....	....	....	7.6	6	21	87	52	29	20	9.6
18....	8.8	....	....	....	....	6	15	65	51	23	17	9.6
19....	8.4	....	....	....	....	6	12	67	36	22	17	9.6
20....	7.8	....	....	....	....	6	29	63	33	21	23	8.8
21....	9.6	....	....	....	....	6.2	44	48	30	18	17	8.8
22....	7.6	....	....	....	....	6.4	87	38	33	20	17	8.8
23....	7.6	....	....	....	....	6.4	98	74	31	18	17	9.2
24....	7.6	....	....	....	....	6.4	83	70	34	20	15	9.2
25....	7.4	....	....	....	....	6.6	67	81	36	20	13	9.2
26....	7	....	....	....	....	6.8	31	85	42	11	16	9.2
27....	7	....	....	....	....	7.0	23	111	36	11	16	9.6
28....	7	....	....	....	....	7.2	20	74	29	17	17	9.6
29....	7	....	....	....	....	6.4	16	43	29	20	24	9.6
30....	7	....	....	....	....	6.6	28	44	32	22	10	9.6
31....	7	....	....	....	....	6.6	....	36	....	22	9.6	....
Total	310.8	....	....	....	....	195.0	806	2476	1320	968	492.8	308.8
Mean.	10	7	7	7	7.6	6.3	26.9	79.9	44	31.2	15.9	10.3
Max..	14	....	....	....	....	7.2	98	123	87	68	24	21
Min...	7	....	....	....	....	6.	6.2	36	23	11	9.2	7.6
Acre-ft.	615	417	430	430	437	387	1600	4910	2620	1920	978	613

Discharge of Uncompahgre River and Power House Flume at Ouray for Year Ending September 30, 1923. Drainage Area, 44 Square Miles. Altitude, 7710 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	28	25	16	18	14	13	19	74	375	289	73	66
2....	28	25	16	18	14	14	19	75	400	248	73	65
3....	26	24	16	18	14	14	19	88	434	216	73	62
4....	25	22	16	19	14	13	14	103	431	208	68	55
5....	25	24	15	17	14	13	14	105	369	186	64	55
6....	22	26	15	18	14	13	14	88	382	170	58	52
7....	22	26	16	22	15	13	15	114	389	226	54	50
8....	22	27	16	15	14	13	16	156	279	218	49	45
9....	24	27	17	17	14	13	19	260	236	213	54	50
10....	24	27	17	19	14	13	15	354	214	170	51	49
11....	24	29	17	16	14	12	16	244	293	158	51	48
12....	22	29	18	15	14	12	27	196	420	163	58	52
13....	23	29	18	15	14	12	39	168	456	165	75	55
14....	26	27	18	14	14	12	35	135	462	148	67	57
15....	28	29	18	14	14	12	32	120	490	163	93	54
16....	26	27	18	15	14	11	43	122	392	136	95	53
17....	26	26	18	19	14	11	61	150	315	117	90	55
18....	27	29	19	19	14	11	75	196	357	111	106	65
19....	24	25	16	17	14	11	75	241	378	107	100	66
20....	26	26	20	17	16	15	53	244	345	121	82	63
21....	26	25	20	13	19	15	55	246	284	148	90	61
22....	26	26	18	14	17	11	50	185	273	111	68	61
23....	23	26	18	17	15	11	40	149	322	104	56	114
24....	24	24	18	15	14	11	40	193	362	96	63	111
25....	24	24	18	17	21	11	45	298	394	94	66	87
26....	20	23	20	14	19	11	49	498	450	91	67	81
27....	20	23	16	14	13	12	52	414	436	83	62	80
28....	22	22	18	14	13	14	55	375	362	82	58	73
29....	22	22	18	13	....	14	62	345	331	83	58	69
30....	23	16	16	19	....	17	71	351	313	72	60	61
31....	23	....	16	18	....	21	....	396	....	70	61	....
Total	751	760	536	510	414	399	1139	6683	10944	4567	2143	1915
Mean.	24.2	25.3	17.3	16.5	14.8	12.9	38.0	216	365	147	69.1	63.8
Max..	28	29	20	22	21	21	75	498	490	289	106	114
Min...	20	16	15	13	13	11	14	74	214	70	49	45
Acre-ft.	1490	1510	1060	1010	822	793	2260	13300	21700	9040	4250	3800

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River and Power House Flume at Ouray for Year Ending Sept. 30, 1924.
Drainage Area, 44 Square Miles. Altitude, 7,710 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	62	35	22	19	19	19	23	86	164	211	43	16
2....	60	38	22	19	19	19	25	130	224	188	42	17
3....	55	33	24	19	18	19	26	195	333	170	41	17
4....	50	31	19	20	18	19	28	200	438	152	42	17
5....	48	30	20	20	18	19	31	175	501	164	38	17
6....	47	29	21	19	18	18	35	168	540	175	28	18
7....	44	29	24	19	18	18	38	193	498	150	29	19
8....	46	30	24	19	18	18	38	209	376	154	27	15
9....	62	31	23	19	18	18	36	235	333	137	29	19
10....	45	34	22	19	21	18	33	288	381	157	31	19
11....	44	37	22	18	21	18	31	263	477	152	31	22
12....	43	32	22	18	19	18	33	253	531	137	33	21
13....	41	30	23	18	16	18	43	310	633	123	43	19
14....	40	29	23	18	18	18	72	335	591	105	50	17
15....	39	28	22	18	20	18	58	335	504	89	41	16
16....	38	27	22	18	20	18	36	327	429	111	32	21
17....	38	27	22	18	20	18	35	350	384	98	31	21
18....	36	26	21	18	20	18	36	339	341	85	29	16
19....	37	26	21	18	20	18	34	297	258	66	28	15
20....	37	26	17	18	21	19	45	308	221	53	27	18
21....	34	25	18	18	20	19	67	333	308	48	29	19
22....	36	25	18	18	20	19	101	347	327	42	28	18
23....	41	26	17	18	20	19	113	361	311	48	28	18
24....	36	26	21	18	19	19	110	333	311	42	23	17
25....	35	26	21	18	19	19	93	302	311	43	24	17
26....	35	25	21	18	19	20	55	250	294	40	23	16
27....	34	24	21	18	19	20	54	211	266	44	24	16
28....	33	24	21	18	19	20	46	164	261	75	23	15
29....	36	23	18	18	19	20	45	128	255	51	21	16
30....	36	23	18	18	....	19	55	124	237	47	20	16
31....	34	....	18	19	....	22	....	124	....	46	18	....
Total	1302	855	648	571	554	582	1475	7673	11038	3203	956	528
Mean.	42	28.5	20.9	18.4	19.1	18.8	49.2	248	368	103	30.8	17.6
Max..	62	38	24	20	21	22	113	361	633	211	50	22
Min...	33	23	17	18	18	18	23	86	164	40	18	15
Acre-ft.	2580	1700	1290	1130	1100	1160	2930	15200	21900	6330	1890	1050

Discharge of Uncompahgre River below Ouray for Year Ending Sept. 30, 1923.
Drainage Area, 76 Square Miles. Altitude, 7,710 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	43	31	27	29	31	31	36	120	650	670	152	110
2....	43	31	31	25	29	32	33	130	736	570	157	110
3....	42	31	33	25	29	31	30	157	742	502	163	107
4....	42	29	34	25	30	29	29	184	775	498	159	100
5....	42	29	30	29	31	29	30	189	690	466	140	102
6....	41	32	32	32	29	26	36	198	660	444	123	97
7....	39	34	35	31	29	29	41	233	630	575	115	90
8....	40	35	33	32	28	29	37	296	502	561	112	83
9....	39	35	32	31	30	25	37	313	448	561	117	80
10....	39	33	32	33	29	26	37	344	399	466	115	75
11....	39	33	33	36	28	25	40	316	516	435	121	72
12....	38	34	35	36	26	22	53	285	675	444	166	79
13....	38	33	36	25	25	24	68	247	786	484	190	81
14....	37	31	34	25	25	24	63	220	814	453	228	87
15....	34	32	34	27	28	22	62	198	860	476	275	91
16....	35	34	35	32	28	26	84	196	731	431	257	96
17....	34	33	31	33	30	26	120	218	615	375	228	99
18....	34	35	29	31	32	28	134	239	715	364	240	114
19....	34	35	34	30	33	31	130	292	736	354	248	110
20....	34	35	33	29	31	29	103	391	690	403	205	100
21....	33	32	33	25	28	28	84	403	605	326	178	97
22....	33	32	34	29	29	26	74	324	615	266	155	97
23....	32	32	35	29	30	24	63	252	700	242	146	180
24....	33	31	33	30	31	28	54	296	758	238	124	163
25....	30	33	35	31	31	23	60	466	780	218	124	134
26....	30	30	33	31	29	23	68	605	872	209	121	130
27....	30	31	34	31	28	31	75	640	786	200	114	121
28....	30	32	35	27	28	37	80	650	715	190	105	117
29....	31	31	34	28	....	42	102	610	670	170	105	102
30....	29	28	31	34	....	52	114	600	680	152	107	94
31....	30	....	29	34	....	41	....	655	....	142	110	....
Total	1108	967	1019	925	815	899	1977	10267	20551	11885	4900	3118
Mean.	35.7	32.2	32.9	29.8	29.1	29	65.9	331	685	383	158	104
Max..	43	35	36	36	33	52	134	655	872	670	275	180
Min...	29	28	27	25	25	22	29	120	399	142	105	72
Acre-ft.	2200	1920	2020	1830	1620	1780	3920	20400	40800	23600	9720	6190

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River below Ouray for Year Ending Sept. 30, 1924.
Drainage Area, 76 Square Miles. Altitude, 7,710 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	100	49	31	27	28	26	28	149	222	413	160	48
2....	98	59	30	27	28	26	28	197	276	382	129	44
3....	93	48	30	27	28	26	32	262	413	359	126	43
4....	88	43	30	27	27	26	36	258	590	345	124	42
5....	85	43	30	27	27	26	42	229	670	324	119	40
6....	82	41	31	27	26	26	78	227	710	350	115	41
7....	74	40	32	27	26	25	95	255	720	330	105	41
8....	80	39	32	27	26	25	85	288	600	332	90	40
9....	100	40	31	27	26	25	82	321	520	315	79	47
10....	85	44	30	27	26	25	64	394	605	330	78	57
11....	78	57	29	26	26	25	59	397	770	305	76	70
12....	80	49	30	26	26	26	70	382	878	285	76	49
13....	73	44	31	26	26	26	117	446	890	249	98	48
14....	72	41	31	26	26	26	169	500	825	214	119	45
15....	69	44	31	26	26	26	135	500	1030	199	117	44
16....	65	41	31	26	26	26	80	532	896	197	100	63
17....	63	40	31	26	26	26	63	548	800	203	91	64
18....	54	38	30	26	26	26	65	512	745	177	80	53
19....	56	38	30	26	26	26	88	439	640	169	70	48
20....	59	37	31	27	27	26	120	456	528	162	64	46
21....	51	35	30	27	27	26	154	500	524	153	59	48
22....	53	35	30	27	27	26	191	484	610	144	58	44
23....	66	34	30	27	27	26	201	496	585	135	54	43
24....	56	34	30	27	26	27	197	488	585	131	59	42
25....	52	35	30	26	25	28	162	472	585	124	57	41
26....	52	32	31	26	25	28	112	385	575	120	54	40
27....	51	32	31	26	25	28	100	329	550	136	52	39
28....	52	31	31	27	26	27	91	262	524	231	49	41
29....	52	31	31	27	26	27	88	218	484	187	48	38
30....	48	31	30	27	....	25	105	201	446	168	48	37
31....	48	....	28	27	....	27	....	185	....	158	48	....
Total	2135	1205	944	825	763	810	2937	11312	18796	7327	2602	1386
Mean.	68.9	40.2	30.5	26.6	26.3	26.1	97.9	365	627	236	83.9	46.2
Max..	100	59	32	27	28	28	201	548	1030	413	160	70
Min...	48	31	28	26	25	25	28	149	222	120	48	37
Acre-ft.	4240	2390	1880	1640	1510	1600	5830	22400	37300	14500	5160	2750

Discharge of Uncompahgre River at Colona for Year Ending Sept. 30, 1923.
Drainage Area, 403 Square Miles. Altitude, 6,399 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	81	....	....	....	....	....	105	265	795	1020	335	250
2....	78	....	....	....	....	....	105	286	846	965	358	258
3....	78	....	....	....	....	....	105	307	930	843	343	256
4....	71	....	....	....	....	....	105	380	1000	813	385	240
5....	68	....	....	....	....	....	105	400	885	795	311	232
6....	66	....	....	....	....	....	105	385	813	735	275	237
7....	66	....	....	....	....	....	105	412	815	820	247	230
8....	65	....	....	....	....	....	103	465	703	907	233	205
9....	65	....	....	....	....	....	98	513	683	907	212	195
10....	65	....	....	....	....	....	98	527	605	828	218	190
11....	66	....	....	....	....	....	105	505	628	745	218	180
12....	65	....	....	....	....	....	118	470	796	715	311	180
13....	65	....	....	....	....	....	163	435	950	745	362	195
14....	66	....	....	....	....	....	171	462	1140	750	415	207
15....	68	....	....	....	....	....	155	358	1360	780	676	216
16....	66	....	....	....	....	....	153	444	1300	750	690	215
17....	66	....	....	....	....	....	196	540	910	750	538	216
18....	71	....	....	....	....	....	200	513	1030	715	555	232
19....	77	....	....	....	....	....	271	552	1030	684	670	233
20....	77	....	....	....	....	....	236	628	1010	796	490	215
21....	77	....	....	....	....	....	200	640	870	945	455	207
22....	80	....	....	....	....	....	200	580	845	730	403	205
23....	79	....	....	....	....	....	163	514	930	600	360	250
24....	81	....	....	....	....	....	146	530	1060	560	330	330
25....	81	....	....	....	....	....	146	648	1150	535	292	248
26....	77	....	....	....	....	....	184	850	1270	505	260	232
27....	80	....	....	....	....	....	211	998	1380	447	241	230
28....	84	....	....	....	....	....	189	998	1240	444	228	230
29....	82	....	....	....	....	....	214	858	1270	368	213	217
30....	82	....	....	....	....	....	227	804	1070	330	224	210
31....	82	....	....	....	....	....	....	830	....	320	....	....
Total	2275	....	....	....	....	....	4732	17097	29314	21847	11098	6741
Mean.	73.4	....	....	....	....	....	158	552	977	705	358	225
Max..	84	....	....	....	....	....	277	998	1380	1020	690	330
Min...	65	....	....	....	....	....	98	265	605	320	212	180
Acre-ft.	4510	....	....	....	....	....	9400	33900	58100	43300	22000	13400

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River at Colona for Year Ending Sept. 30, 1924.
Drainage Area, 403 Square Miles. Altitude, 6,399 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	203	135	107	....	....	....	118	501	550	566	230	100
2....	203	140	102	....	....	....	105	650	582	515	220	99
3....	195	137	103	....	....	....	105	843	722	485	203	93
4....	191	128	94	....	....	....	132	910	940	463	196	93
5....	186	125	91	....	....	....	154	837	1110	486	203	97
6....	194	121	96	....	....	....	270	705	1280	465	182	97
7....	177	123	104	....	....	....	395	705	1420	455	150	99
8....	173	121	....	....	....	....	506	715	1140	475	135	98
9....	195	119	....	....	....	....	423	740	970	435	123	100
10....	185	121	....	....	....	....	423	825	965	442	123	124
11....	173	156	....	....	....	....	300	895	1100	550	122	148
12....	175	135	....	....	....	....	297	805	1250	457	128	133
13....	173	128	....	....	....	....	437	837	1550	419	145	125
14....	160	121	....	....	....	....	602	935	1620	375	205	125
15....	159	123	....	....	....	....	628	870	1600	350	243	126
16....	156	119	....	....	....	....	325	895	1370	347	191	135
17....	150	120	....	....	....	....	234	895	1230	357	173	188
18....	136	112	....	....	....	....	210	873	1120	316	161	148
19....	145	112	....	....	....	....	270	787	993	278	147	140
20....	136	112	....	....	....	....	397	787	885	255	147	135
21....	135	110	....	....	....	....	541	805	867	230	148	146
22....	133	112	....	....	....	....	685	770	843	203	144	144
23....	156	110	....	....	....	....	742	740	825	182	133	133
24....	150	112	....	....	....	....	755	757	815	165	137	125
25....	140	112	....	....	....	....	565	737	792	155	132	122
26....	136	108	....	....	....	....	398	722	765	136	138	115
27....	133	108	....	....	....	....	320	740	725	121	123	113
28....	136	104	....	....	....	....	303	818	688	261	115	116
29....	136	107	....	....	....	....	300	600	660	287	114	113
30....	125	110	....	....	....	....	373	618	622	230	106	112
31....	129	....	....	....	....	....	....	555	....	230	101	....
Total	4974	3601	697	....	....	....	11313	23872	29999	10691	4818	3642
Mean.	160	120	....	....	....	....	377	770	1000	345	155	121
Max..	203	156	....	....	....	....	755	935	1620	566	243	188
Min...	125	104	....	....	....	....	105	501	550	121	101	93
Acre-ft.	9840	7140	....	....	....	....	22400	47300	59500	21200	9530	7200

Discharge of Uncompahgre River at Montrose for Year Ending Sept. 30, 1923.
Drainage Area, 565 Square Miles. Altitude, 5,820 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	76	580	872	471	585	462
2....	....	....	....	....	....	....	76	610	884	208	600	458
3....	....	....	....	....	....	....	76	640	1000	188	614	454
4....	....	....	....	....	....	....	76	602	900	287	628	450
5....	....	....	....	....	....	....	76	732	935	387	628	446
6....	....	....	....	....	....	....	76	708	760	486	604	442
7....	....	....	....	....	....	....	76	652	872	760	579	438
8....	....	....	....	....	....	....	350	732	760	901	556	434
9....	....	....	....	....	....	....	359	530	785	872	533	50
10....	....	....	....	....	....	....	368	708	746	814	510	35
11....	....	....	....	....	....	....	377	321	707	628	487	20
12....	....	....	....	....	....	....	386	115	1030	655	487	20
13....	....	....	....	....	....	....	395	115	1150	682	487	100
14....	....	....	....	....	....	....	405	158	1360	708	487	150
15....	....	....	....	....	....	....	398	602	1260	746	500	400
16....	....	....	....	....	....	....	390	627	1130	784	500	396
17....	....	....	....	....	....	....	380	708	1000	707	500	392
18....	....	....	....	....	....	....	485	708	872	741	450	388
19....	....	....	....	....	....	....	580	785	935	775	450	384
20....	....	....	....	....	....	....	440	815	1030	809	460	380
21....	....	....	....	....	....	....	435	845	933	843	470	376
22....	....	....	....	....	....	....	405	845	872	762	487	370
23....	....	....	....	....	....	....	438	812	785	682	426	367
24....	....	....	....	....	....	....	471	601	828	602	365	360
25....	....	....	....	....	....	....	504	760	872	548	303	353
26....	....	....	....	....	....	....	537	935	1280	495	315	346
27....	....	....	....	....	....	....	570	1030	1200	510	315	339
28....	....	....	....	....	....	....	512	970	773	525	315	332
29....	....	....	....	....	....	....	582	927	727	540	315	325
30....	....	....	....	....	....	....	652	886	734	555	350	318
31....	....	....	....	....	....	....	....	845	....	570	390	....
Total	....	....	....	....	....	....	10951	20904	27992	19241	14696	9785
Mean.	....	....	....	....	....	....	365	674	933	621	474	326
Max..	....	....	....	....	....	....	652	1030	1360	901	628	462
Min...	....	....	....	....	....	....	....	115	707	188	303	20
Acre-ft.	....	....	....	....	....	....	21700	41400	55500	38200	29100	19400

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Uncompahgre River Near Delta for Year Ending Sept. 30, 1923.
Drainage Area, 1,110 Square Miles. Altitude, 4,970 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	146	....	....	....	....	....	....	80	490	300	298	190
2....	172	....	....	....	....	....	....	60	415	230	410	284
3....	200	....	....	....	....	....	....	65	560	262	985	264
4....	219	....	....	....	....	....	....	123	655	80	1100	264
5....	248	....	....	....	....	....	....	300	435	140	983	280
6....	250	....	....	....	....	....	....	950	383	130	880	318
7....	235	....	....	....	....	....	....	850	250	130	920	285
8....	210	....	....	....	....	....	....	1020	380	455	705	171
9....	250	....	....	....	....	....	....	995	415	615	652	92
10....	260	....	....	....	....	....	....	930	410	450	620	158
11....	248	....	....	....	....	....	....	715	490	415	580	131
12....	265	....	....	....	....	....	....	425	440	401	675	358
13....	242	....	....	....	....	....	....	485	490	435	798	290
14....	277	....	....	....	....	....	....	495	1050	415	715	358
15....	280	....	....	....	....	....	....	620	760	685	560	333
16....	296	....	....	....	....	....	....	850	715	705	1500	358
17....	270	....	....	....	....	....	....	1510	615	540	920	450
18....	296	....	....	....	....	....	....	1250	550	675	580	550
19....	335	....	....	....	....	....	....	1240	720	600	665	605
20....	360	....	....	....	....	....	....	1460	685	548	796	635
21....	431	....	....	....	....	....	....	1260	710	745	498	522
22....	431	....	....	....	....	....	....	1180	595	605	425	523
23....	420	....	....	....	....	....	....	500	588	530	208	530
24....	461	....	....	....	....	....	....	540	680	440	293	670
25....	453	....	....	....	....	....	....	425	878	401	180	715
26....	453	....	....	....	....	....	....	620	900	523	155	550
27....	453	....	....	....	....	....	....	795	920	670	195	620
28....	442	....	....	....	....	....	....	685	668	490	230	654
29....	472	....	....	....	....	....	....	440	563	350	185	655
30....	550	....	....	....	....	....	....	270	400	312	148	680
31....	550	....	....	....	....	....	....	280	....	268	148	....
Total	10175	....	....	....	....	....	....	21418	17810	13545	18007	12493
Mean.	328	....	....	....	....	....	....	691	594	437	581	416
Max..	550	....	....	....	....	....	....	1510	1050	745	1500	715
Min...	146	....	....	....	....	....	....	60	250	80	148	92
Acre-ft.	20200	....	....	....	....	....	....	42500	35300	26900	35700	24800

Discharge of Uncompahgre River at Delta for Year Ending Sept. 30, 1924.
Drainage Area, 1,110 Square Miles. Altitude, 4,970 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	665	....	....	....	....	....	....	126	721	156	107	84
2....	680	....	....	....	....	....	....	215	571	128	109	84
3....	715	....	....	....	....	....	....	498	515	123	105	83
4....	690	....	....	....	....	....	....	510	750	109	102	83
5....	665	....	....	....	....	....	....	455	1010	105	107	82
6....	640	....	....	....	....	....	....	330	989	117	116	80
7....	615	....	....	....	....	....	....	335	1040	126	110	83
8....	695	....	....	....	....	....	....	340	890	130	102	83
9....	570	....	....	....	....	....	....	360	720	126	102	79
10....	550	....	....	....	....	....	....	398	720	117	94	82
11....	550	....	....	....	....	....	....	493	750	277	94	89
12....	550	....	....	....	....	....	....	504	800	195	94	89
13....	498	....	....	....	....	....	....	286	1020	163	97	102
14....	524	....	....	....	....	....	....	403	914	158	123	112
15....	524	....	....	....	....	....	....	295	1000	132	110	100
16....	498	....	....	....	....	....	....	256	842	112	102	95
17....	498	....	....	....	....	....	....	331	541	119	121	97
18....	535	....	....	....	....	....	....	374	325	110	128	109
19....	524	....	....	....	....	....	....	269	325	112	100	102
20....	498	....	....	....	....	....	....	190	195	109	98	107
21....	490	....	....	....	....	....	....	252	220	110	109	121
22....	509	....	....	....	....	....	....	318	281	107	107	132
23....	656	....	....	....	....	....	....	318	252	107	88	138
24....	487	....	....	....	....	....	....	295	212	105	82	178
25....	598	....	....	....	....	....	....	322	352	110	82	212
26....	579	....	....	....	....	....	261	374	288	110	79	209
27....	540	....	....	....	....	....	167	913	193	125	77	201
28....	523	....	....	....	....	....	120	1430	185	119	80	209
29....	520	....	....	....	....	....	119	1310	255	119	83	266
30....	523	....	....	....	....	....	138	1190	171	121	86	270
31....	509	....	....	....	....	....	....	930	....	116	86	....
Total	17518	....	....	....	....	....	805	14620	17047	3973	3080	3761
Mean.	565	....	....	....	....	....	....	472	568	128	99.4	125
Max..	715	....	....	....	....	....	....	1430	1040	277	128	270
Min...	487	....	....	....	....	....	....	126	171	105	77	79
Acre-ft.	34700	....	....	....	....	....	....	29000	33800	7870	6110	7440

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dallas Creek at Ridgway, Colo., for Year Ending Sept. 30, 1923.
Drainage Area, 90 Square Miles. Altitude, 6,980 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	9	13	....	....	....	22	20	48	8	96	71	134
2....	7	17	....	....	....	20	17	44	4	75	69	122
3....	7	17	....	....	....	17	14	48	1	71	63	67
4....	6	17	....	....	....	14	14	44	2	67	73	67
5....	5	17	....	....	....	21	14	41	5	63	61	71
6....	5	16	....	....	....	20	16	61	5	55	55	63
7....	5	25	....	....	....	18	18	40	3	89	42	63
8....	5	29	....	....	....	18	15	36	3	125	41	54
9....	6	29	....	....	....	20	20	35	36	192	40	55
10....	5	29	....	....	....	14	22	32	11	151	40	52
11....	6	29	....	....	....	15	22	35	7	120	46	48
12....	5	28	....	....	....	19	29	18	9	111	63	52
13....	5	27	....	....	....	22	36	20	32	118	89	54
14....	5	22	....	....	....	15	30	59	32	120	83	52
15....	5	21	....	....	....	20	29	87	67	181	481	52
16....	5	22	....	....	....	25	35	98	63	171	202	55
17....	5	22	....	....	....	17	48	98	41	269	141	59
18....	8	27	....	....	....	22	65	63	29	141	166	57
19....	7	27	....	....	....	25	81	42	30	134	171	52
20....	8	26	....	....	....	15	129	42	54	137	134	48
21....	9	27	....	....	....	14	73	35	41	158	192	44
22....	8	27	....	....	....	17	69	29	29	129	141	41
23....	9	25	....	....	....	21	52	36	29	113	96	48
24....	9	29	....	....	....	21	30	30	38	104	91	44
25....	10	28	....	....	....	15	32	29	71	89	83	41
26....	10	29	....	....	....	18	63	29	91	96	73	42
27....	11	25	....	....	....	18	57	29	122	91	67	44
28....	12	27	....	....	....	18	55	32	139	81	63	44
29....	13	27	....	....	....	27	91	25	100	71	63	41
30....	14	26	....	....	....	22	63	18	89	59	61	41
31....	13	....	....	....	....	22	....	13	....	67	316	....
Total	237	730	....	....	....	592	1259	1296	1191	3544	3377	1707
Mean.	7.65	24.3	....	....	....	19.1	42.0	41.8	39.7	114	109	56.9
Max..	14	29	....	....	....	27	129	98	139	269	481	134
Min..	5	13	....	....	....	14	14	13	1	55	40	41
Acre-ft.	470	1450	....	....	....	1170	2500	2570	2360	7010	6700	3390

Discharge of Dallas Creek at Ridgway for Year Ending Sept. 30, 1924
Drainage Area, 90 Square Miles. Altitude, 6,980 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	37	27	35	....	....	37	46	286	85	76	44	22
2....	37	27	31	....	....	41	28	616	76	78	48	14
3....	35	29	34	....	....	29	44	740	73	76	39	12
4....	36	25	36	....	....	25	51	481	58	80	31	13
5....	31	25	37	....	....	27	58	272	85	90	33	14
6....	30	24	32	....	....	24	92	110	115	71	34	14
7....	28	24	32	....	....	28	115	153	121	76	27	20
8....	28	25	31	....	....	36	136	136	98	78	14	22
9....	33	24	30	....	....	34	158	126	76	71	9	21
10....	30	22	30	....	....	50	144	121	56	71	12	30
11....	29	29	30	....	....	33	134	126	100	105	15	31
12....	31	25	30	....	....	26	150	126	158	80	14	21
13....	30	23	30	....	....	29	201	115	173	69	19	19
14....	29	28	30	....	....	30	328	71	204	80	37	24
15....	28	29	29	....	....	24	283	67	204	69	58	27
16....	28	31	29	....	....	24	118	58	234	71	58	29
17....	28	35	29	....	....	35	92	56	223	76	44	30
18....	27	35	29	....	....	24	78	51	153	48	37	30
19....	26	30	29	....	....	25	90	51	131	43	31	28
20....	27	36	30	....	....	37	220	48	118	41	36	28
21....	26	35	36	....	....	25	389	40	115	39	33	33
22....	27	36	49	....	....	24	466	39	100	28	29	29
23....	30	36	49	....	....	30	628	39	105	22	27	27
24....	30	36	48	....	....	25	376	56	95	15	29	27
25....	29	30	45	....	....	30	85	56	92	14	30	27
26....	26	35	39	....	....	48	144	71	92	10	34	25
27....	25	31	38	....	....	55	136	131	80	10	35	26
28....	27	30	28	....	....	37	115	144	76	44	34	27
29....	26	30	32	....	....	33	131	131	95	48	35	28
30....	26	30	30	....	....	36	272	131	82	44	29	30
31....	25	....	34	....	....	40	....	121	....	35	27	....
Total	905	882	1051	....	....	1001	5308	4769	3473	1758	982	728
Mean.	29.2	29.4	33.9	32.0	32.0	32.3	177	154	116	56.7	31.7	24.3
Max..	37	36	49	....	....	55	628	740	234	105	58	33
Min...	25	22	28	....	....	24	28	39	56	10	9	12
Acre-ft.	1800	1750	2080	1970	1840	1990	10500	9470	6900	3490	1950	1450

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Escalante Creek at Delta for Year Ending Sept. 30, 1923.
Drainage Area, 194 Square Miles. Altitude, ... Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	4	12	....	....	....	18	30	245	124	8	8	....
2....	2	13	....	....	....	22	29	256	117	7	6	....
3....	3	13	....	....	....	22	24	321	110	6	6	....
4....	3	15	....	....	....	20	22	440	103	8	4	....
5....	3	13	....	....	....	16	21	486	99	6	4	....
6....	2	14	....	....	....	10	27	552	86	7	5	....
7....	2	15	....	....	....	18	25	510	82	6	4	....
8....	1	15	....	....	....	21	25	552	72	5	2	....
9....	2	13	....	....	....	21	29	526	64	8	2	....
10....	2	13	....	....	....	19	30	552	54	9	2	....
11....	2	13	....	....	....	16	36	582	48	11	6	....
12....	4	13	....	....	....	15	46	486	44	8	300	....
13....	6	13	....	....	....	16	67	470	40	8	....	....
14....	6	15	....	....	....	22	60	486	40	70	....	....
15....	7	15	....	....	....	15	54	272	36	22	....	....
16....	6	13	....	....	....	16	72	245	36	20	....	....
17....	7	12	....	....	....	19	96	306	33	27	....	....
18....	8	13	....	....	....	16	168	336	29	21	....	....
19....	10	12	....	....	....	16	144	342	25	20	....	....
20....	8	13	....	....	....	20	189	352	24	27	....	....
21....	10	13	....	....	....	21	149	336	23	19	....	....
22....	10	13	....	....	....	18	182	312	21	19	....	....
23....	11	15	....	....	....	19	96	292	12	17	....	....
24....	10	13	....	....	....	21	74	272	8	15	....	....
25....	11	13	....	....	....	18	74	237	7	99	....	....
26....	13	11	....	....	....	21	70	229	10	40	....	....
27....	14	9	....	....	....	19	84	219	8	19	....	....
28....	14	10	....	....	....	22	144	182	7	15	....	....
29....	13	11	....	....	....	21	127	168	7	13	....	....
30....	13	11	....	....	....	21	196	154	6	10	....	....
31....	13	....	....	....	....	38	....	144	....	8	....	....
Total	220	387	....	....	....	597	2390	10862	1375	578	....	....
Mean.	7.1	12.9	....	....	....	19.3	79.7	350	45.8	18.6	28	7
Max..	14	15	....	....	....	38	196	582	124	70	....	....
Min...	1	9	....	....	....	10	21	144	6	5	....	....
Acre-ft.	437	768	....	....	....	1190	4740	21500	2720	1140	1720	417

Discharge of Dolores River at Dolores for Year Ending Sept. 30, 1923.
Drainage Area, 1,910 Square Miles. Altitude, 4,971 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	69	73	....	....	....	....	280	1380	3370	1300	430	330
2....	66	73	....	....	....	....	280	1730	3870	1190	430	330
3....	66	73	....	....	....	....	220	2510	3460	1030	430	330
4....	66	73	....	....	....	....	167	3420	3850	1030	318	363
5....	60	73	....	....	....	....	159	3520	3200	930	300	330
6....	60	73	....	....	....	....	175	3040	2850	823	300	300
7....	60	73	....	....	66	....	220	3620	2620	843	242	330
8....	60	73	....	....	....	....	292	3740	2320	1140	242	270
9....	60	83	....	....	....	....	325	4290	2040	1080	270	215
10....	60	67	....	....	....	....	400	4270	2120	1030	540	215
11....	60	64	....	....	....	....	400	4270	2680	847	843	205
12....	60	60	....	....	....	....	555	3820	2660	750	795	190
13....	60	56	....	....	....	....	700	2810	3440	750	795	242
14....	60	52	....	....	....	....	740	2190	3930	750	880	190
15....	60	48	....	....	....	....	804	1860	3390	750	1140	190
16....	60	46	....	....	....	....	910	1640	2900	750	1300	215
17....	60	50	....	....	....	....	1190	1700	2360	580	1240	270
18....	66	50	....	....	....	....	1130	1920	2070	580	1240	300
19....	66	50	....	....	....	....	1420	2400	1880	580	840	300
20....	66	50	....	....	....	....	1140	3270	1740	662	880	242
21....	66	52	....	....	....	....	982	3740	1480	843	880	215
22....	66	54	....	....	....	....	780	3010	1420	705	750	270
23....	66	56	....	....	....	....	590	2470	1420	580	580	300
24....	66	60	....	....	....	....	520	2770	1360	502	540	330
25....	66	60	....	....	....	96	555	3850	1480	430	540	270
26....	66	48	....	....	....	112	625	4550	1600	465	430	270
27....	66	48	....	....	....	104	740	4550	1740	451	300	242
28....	66	52	....	....	....	112	590	4060	1540	465	190	242
29....	73	54	....	....	....	121	1120	3930	1300	540	215	215
30....	73	60	....	....	....	180	1480	3150	1300	363	300	242
31....	73	....	....	....	....	200	....	3520	....	363	330	....
Total	1992	1804	....	....	....	....	19489	97000	71390	23102	18513	8053
Mean.	64.3	60.1	62	64	68	80	650	3130	2380	745	597	268
Max..	73	83	....	....	....	....	1480	4550	3930	1300	1300	430
Min...	60	46	....	....	....	....	159	1380	1300	363	190	190
Acre-ft.	3950	2580	3810	3940	3780	4920	38700	192000	142000	45800	36700	15900

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Dolores River at Dolores for Year Ending Sept. 30, 1924.
Drainage Area, 524 Square Miles. Altitude, 6,954 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	215	120	100	75	60	143	120	1600	2160	256	155	53
2....	215	120	100	70	60	165	165	1700	1830	286	135	53
3....	190	120	100	70	60	165	300	1910	1310	256	128	54
4....	165	80	100	65	60	80	330	2280	1310	216	119	53
5....	165	80	100	65	60	80	300	2020	973	128	117	53
6....	165	80	100	65	63	120	363	2270	1160	198	119	51
7....	165	80	100	60	63	80	430	2920	2800	236	112	50
8....	165	80	100	60	65	80	663	2530	2530	429	108	50
9....	165	80	100	60	65	100	930	2800	2160	281	102	52
10....	165	80	100	60	65	120	880	3080	1910	344	105	54
11....	165	80	100	57	65	100	980	3080	1440	281	105	60
12....	165	80	100	55	65	74	930	3200	1450	256	110	59
13....	165	80	95	55	65	80	880	3380	1240	198	115	55
14....	165	80	95	55	70	65	1030	3380	1240	174	115	53
15....	165	80	95	50	70	100	1480	3380	973	166	119	53
16....	165	80	95	50	70	100	1140	3540	916	166	124	53
17....	165	80	95	50	75	80	1030	3170	973	142	140	53
18....	165	65	90	55	75	65	1080	3080	810	133	124	53
19....	165	65	90	55	75	50	663	2800	762	119	112	53
20....	165	50	90	55	80	65	620	2530	672	119	104	53
21....	120	65	90	55	80	65	1670	2610	590	115	100	53
22....	165	50	85	55	80	65	2070	2530	590	119	96	53
23....	165	65	85	55	80	65	2240	2530	550	123	97	53
24....	120	50	85	55	90	50	2210	2400	480	121	75	53
25....	165	80	85	55	90	65	2000	2280	416	119	54	53
26....	165	100	80	55	100	100	1660	2120	448	155	54	53
27....	165	100	80	55	100	143	1500	1910	388	152	54	52
28....	120	65	80	55	110	120	1600	2160	281	180	53	52
29....	120	100	80	55	120	120	1580	2400	281	256	53	51
30....	120	120	80	55	....	100	1700	2160	256	202	54	51
31....	120	....	75	55	....	80	....	2160	....	198	53	....
Total	4970	2340	2850	1822	2181	2885	32529	80094	32895	6024	3057	1592
Mean.	160	78.0	91.9	58.8	75.2	93.1	1080	2580	1100	194	98.6	53.0
Max..	215	120	....	....	....	165	2240	3540	2800	429	155	60
Min..	120	50	....	....	....	50	120	1600	256	115	53	51
Acre-ft.	9840	4640	5650	3620	4330	5720	64300	159000	65500	11900	6060	3150

Discharge of Lost Canon at Dolores for Year Ending Sept. 30, 1923.
Drainage Area, 81 Square Miles. Altitude, 6 943 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	1	52	190	58	1	1	....
2....	....	....	....	....	....	1	63	237	58	1	1	....
3....	....	....	....	....	....	1	47	415	42	1	1	....
4....	....	....	....	....	....	1	28	415	24	1	1	....
5....	....	....	....	....	....	1	24	403	18	1	1	....
6....	....	....	....	....	....	1	28	337	13	1	1	....
7....	....	....	....	....	....	1	37	403	11	1	1	....
8....	....	....	....	....	....	1	52	403	9	1	1	....
9....	....	....	....	....	....	1	58	375	9	1	1	....
0....	....	....	....	....	....	1	58	349	5	1	1	....
1....	....	....	....	....	....	1	63	268	3	1	1	....
12....	....	....	....	....	....	1	58	237	2	1	1	....
13....	....	....	....	....	....	2	101	208	1	1	1	....
14....	....	....	....	....	....	2	101	190	1	1	1	....
15....	....	....	....	....	....	2	101	199	1	1	1	....
16....	....	....	....	....	....	2	108	181	1	1	1	....
17....	....	....	....	....	....	2	181	172	1	1	1	....
18....	....	....	....	....	....	2	190	190	1	1	1	....
19....	....	....	....	....	....	2	208	227	1	1	1	....
20....	....	....	....	....	....	2	155	227	1	1	1	....
21....	....	....	....	....	....	2	123	217	1	1	1	....
22....	....	....	....	....	....	2	94	172	1	1	1	....
23....	....	....	....	....	....	2	69	81	1	1	1	....
24....	....	....	....	....	....	2	58	139	1	1	1	....
25....	....	....	....	....	....	2	63	139	1	1	1	....
26....	....	....	....	....	....	3	58	190	1	1	1	....
27....	....	....	....	....	....	6	115	139	1	1	2	....
18....	....	....	....	....	....	11	101	139	1	1	2	....
29....	....	....	....	....	....	16	190	101	1	1	2	....
30....	....	....	....	....	....	24	268	69	1	1	1	....
31....	....	....	....	....	....	37	....	52	....	1	1	....
Total	....	....	....	....	....	135	2852	7064	270	31	34	....
Mean.	....	....	....	....	....	4.35	95	228	9	1	1.09	....
Max..	....	....	....	....	....	37	268	415	58	1	2	....
Min..	....	....	....	....	....	1	24	52	1	1	1	....
Acre-ft.	....	....	....	....	....	267	5650	14000	536	61	67	...

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Lost Canon at Dolores for Year Ending Sept. 30, 1924.
Drainage Area, 81 Square Miles. Altitude, 6,943 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	2	4	268	33	....	....	....
2....	....	....	....	....	....	4	7	279	33	....	....	....
3....	....	....	....	....	....	4	28	313	47	....	....	....
4....	....	....	....	....	....	4	47	350	9	....	....	....
5....	....	....	....	....	....	1	58	290	6	....	....	....
6....	....	....	....	....	....	1	428	247	6	....	....	....
7....	....	....	....	....	....	1	455	199	6	....	....	....
8....	....	....	....	....	....	1	540	147	6	....	....	....
9....	....	....	....	....	....	2	630	165	1	....	....	....
10....	....	....	....	....	....	2	615	115	1	....	....	....
11....	....	....	....	....	....	2	646	108	1	....	....	....
12....	....	....	....	....	....	3	630	101	2	....	....	....
13....	....	....	....	....	....	3	268	88	1	....	....	....
14....	....	....	....	....	....	3	279	69	1	....	....	....
15....	....	....	....	....	....	3	290	69	0	....	....	....
16....	....	....	....	....	....	4	165	64	0	....	....	....
17....	....	....	....	....	....	2	157	47	0	....	....	....
18....	....	....	....	....	....	1	108	37	0	....	....	....
19....	....	....	....	....	....	3	108	28	0	....	....	....
20....	....	....	....	....	....	3	157	33	0	....	....	....
21....	....	....	....	....	....	2	388	21	0	....	....	....
22....	....	....	....	....	....	3	428	16	0	....	....	....
23....	....	....	....	....	....	3	388	11	0	....	....	....
24....	....	....	....	....	....	3	350	11	0	....	....	....
25....	....	....	....	....	....	4	325	9	0	....	....	....
26....	....	....	....	....	....	9	279	9	0	....	....	....
27....	....	....	....	....	....	42	279	7	0	....	....	....
28....	....	....	....	....	....	17	199	9	0	....	....	....
29....	....	....	....	....	....	11	237	25	0	....	....	....
30....	....	....	....	....	....	5	268	37	0	....	....	....
31....	....	....	....	....	....	3	....	19	....	....	....	....
Total	....	....	....	....	....	158	8761	3191	154	....	....	....
Mean.	....	....	....	....	....	5.10	292	103	5.13	....	....	....
Max..	....	....	....	....	....	42	646	350	47	....	....	....
Min...	....	....	....	....	....	1	4	7	0	....	....	....
Acre-ft.	....	....	....	....	....	314	17400	6330	305	0	0	0

Discharge of San Miguel at Naturita for Year Ending Sept. 30, 1923.
Drainage Area, 1,080 Square Miles. Altitude, 5,426 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	51	64	....	....	....	88	174	489	1120	1000	263	185
2....	51	66	....	....	....	114	192	514	1120	802	271	178
3....	53	58	....	....	....	114	178	596	1180	676	257	189
4....	51	64	....	....	....	117	143	653	1200	688	252	178
5....	51	62	....	....	....	102	131	821	1140	659	252	167
6....	51	58	....	....	....	95	156	1020	1040	585	225	178
7....	53	64	....	....	....	110	246	928	996	750	194	150
8....	53	66	....	....	....	99	220	956	874	949	183	143
9....	51	55	....	....	....	99	258	1010	841	848	201	132
10....	53	66	....	....	....	95	298	996	841	782	286	120
11....	53	66	....	....	....	95	298	1020	821	694	283	111
12....	55	58	....	....	....	99	397	1050	1070	579	418	102
13....	53	62	....	....	....	99	568	1080	1080	579	432	117
14....	55	74	....	....	....	105	636	956	1120	590	441	127
15....	58	62	....	....	....	95	653	976	1200	647	574	127
16....	53	86	....	....	....	91	579	956	1120	969	489	410
17....	51	76	....	....	....	88	744	1280	996	536	499	254
18....	51	74	....	....	....	88	996	1010	976	499	441	152
19....	51	74	....	....	....	91	1080	1050	1020	536	479	148
20....	55	86	....	....	....	102	861	1080	1070	414	450	134
21....	66	88	....	....	....	99	694	1140	996	653	361	129
22....	55	86	....	....	....	95	744	1080	956	701	318	129
23....	53	86	....	....	....	70	427	1050	992	504	277	194
24....	53	82	....	....	....	76	369	996	942	504	277	223
25....	51	82	....	....	....	102	338	1080	992	469	230	150
26....	70	78	....	....	....	99	427	1490	1120	380	198	154
27....	82	82	....	....	....	102	514	1630	1180	357	187	161
28....	82	105	....	....	....	99	441	1540	1120	331	183	172
29....	95	88	....	....	....	110	441	1380	1010	307	210	150
30....	91	110	....	....	....	138	713	1220	1080	298	198	150
31....	82	....	....	....	....	178	....	1160	....	283	170	150
Total	1833	2228	....	....	....	3154	13910	32207	31213	18669	9499	4914
Mean.	59.1	74.3	110	105	95	102	464	1040	1040	602	306	164
Max..	95	110	....	....	....	178	1080	1630	1200	1000	574	410
Min..	51	55	....	....	....	70	131	489	821	283	170	102
Acre-ft.	3630	4420	6760	6460	5280	6270	27600	64000	61900	37000	18800	9760

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of San Miguel River at Naturita for Year Ending September 30, 1924.
Drainage Area, 1080 Square Miles. Altitude, 5426 Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	127	86	100	64	80	80	116	1020	636	442	136	49
2....	124	96	86	93	80	89	97	1180	613	420	136	49
3....	132	96	86	74	80	100	76	1620	653	400	124	49
4....	132	89	82	58	75	93	97	1620	874	372	136	45
5....	124	89	76	60	75	86	116	1690	976	372	132	43
6....	124	89	89	60	80	74	174	1470	1120	335	116	43
7....	124	86	89	60	80	86	292	1420	1180	315	97	42
8....	116	86	76	75	85	64	596	1470	1070	308	76	41
9....	119	82	60	80	90	62	541	1510	874	282	72	45
10....	116	86	60	70	90	80	596	1540	874	261	64	62
11....	116	86	69	70	91	80	1580	1470	928	412	60	62
12....	116	89	80	70	90	72	1280	1580	1070	302	50	58
13....	116	89	64	65	100	76	1440	1620	1280	282	119	56
14....	108	100	76	65	150	76	2040	1580	1380	232	154	53
15....	111	93	80	60	180	74	2080	1560	1380	166	218	51
16....	116	80	71	70	250	76	776	1440	908	181	132	55
17....	116	86	74	65	246	72	541	1470	1280	174	103	69
18....	116	96	74	75	276	89	400	1540	942	170	84	62
19....	108	103	69	75	160	84	636	1490	928	129	76	58
20....	96	96	82	70	108	80	1140	1300	808	124	69	58
21....	96	96	82	65	93	84	1510	1320	713	108	64	58
22....	93	89	69	70	119	84	2160	1260	713	103	62	58
23....	96	93	60	70	84	80	2260	1200	682	89	58	62
24....	103	108	76	75	74	69	2540	1180	653	80	62	62
25....	111	111	80	75	86	86	1220	1140	682	80	56	60
26....	111	108	93	75	76	86	888	1080	653	74	55	60
27....	108	103	74	75	93	93	694	1100	636	97	56	60
28....	96	89	82	75	86	150	874	1100	557	192	50	58
29....	96	93	93	75	80	103	808	928	514	302	51	58
30....	93	100	100	75	....	93	874	821	489	192	51	58
31....	96	....	80	75	....	76	....	744	....	160	50	....
Total	3456	2793	2432	2184	3257	2597	28442	41463	26066	7156	2769	1644
Mean.	111	93.1	78.5	70.5	112	83.8	948	1340	869	231	89.3	54.8
Max..	132	111	100	93	276	150	2540	1690	1380	442	218	62
Min...	93	82	64	60	74	72	76	744	489	74	50	41
Acre-ft.	6820	5540	4830	4330	6440	5150	56400	82400	51700	14200	5490	3260

Unless otherwise noted, all discharges are in cubic feet per second.

SAN JUAN RIVER DRAINAGE

SAN JUAN RIVER AT ROSA, NEW MEXICO

Location—In Sec. 11, T. 32 N., R. 6 W., at highway bridge one-half mile north of Rosa, New Mexico.

Records Available—October 1, 1920, to September 30, 1924. From 1895 to 1899 and August 21, 1910, to September 30, 1920, a station was maintained at Arboles. The San Juan River at Arboles, plus the Piedra River at Arboles, gives the flow of the San Juan River at Rosa.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the State Engineer of New Mexico.

NAVAJO RIVER AT EDITH

Location—In Sec. 24, T. 32 N., R. 1 E., one-eighth mile east of Edith.

Records Available—September 21, 1912, to September 30, 1924.

Gage—Vertical staff.

Accuracy—Records considered good.

Co-operation—Records furnished by the State Engineer of New Mexico.

PIEDRA RIVER AT ARBOLES

Location—In Sec. 16, T. 32 N., R. 5 W., one-half mile above mouth.

Records Available—June 19, 1895, to September 30, 1899; August 21, 1910, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the State Engineer of New Mexico.

LOS PINOS NEAR IGNACIO

Location—In Sec. 8, T. 33 N., R. 7 W., at Southern Ute Indian Agency.

Records Available—April 22, 1899, to October 31, 1903; September 1, 1910, to November 30, 1912; March 10, 1913, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Records furnished by the State Engineer of New Mexico.

ANIMAS RIVER AT DURANGO

Location—At footbridge at the Western Colorado Power Company's power plant.

Records Available—June 20, 1895, to December 31, 1905; January 1, 1910, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the State Engineer of New Mexico.

HERMOSA CREEK NEAR HERMOSA

Location—In Sec. 34, T. 37 N., R. 9 W., one mile above Hermosa.

Records Available—April 18, 1920, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

FLORIDA RIVER NEAR DURANGO

Location—In Sec. 5, T. 35 N., R. 8 W., about eight miles from Durango.

Records Available—May 21, 1899, to July 31, 1899; April 1, 1901, to October 5, 1903; September 8, 1910, to November 30, 1917; May 22, 1917, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

Co-operation—Station maintained in co-operation with the State Engineer of New Mexico.

LA PLATA RIVER AT HESPERUS

Location—In Sec. 14, T. 35 N., R. 11 W., at Hesperus.

Records Available—June 15, 1904, to August 11, 1904; April 1, 1906, to August 11, 1906; August 24, 1910, to December 31, 1910; May 25, 1917, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered good.

LA PLATA RIVER AT COLORADO-NEW MEXICO LINE

Location—Three hundred feet south of the Colorado-New Mexico line, three miles north of Pendleton, New Mexico.

Records Available—February 19, 1920, to September 30, 1924.

Gage—Automatic recording gage.

Accuracy—Records considered fair.

MANCOS RIVER AT MANCOS

Location—Fifty feet below Main Street bridge in the town of Mancos.
Records Available—February 1, 1921, to September 30, 1924.
Gage—Automatic recording gage.
Accuracy—Records considered fair.

MANCOS RIVER NEAR TOWAOC

Location—At Ute Indian Farm in Sec. 15, T. 32 S., R. 18 W.
Records Available—February 1, 1921, to September 30, 1924.
Gage—Staff gage.
Accuracy—Records considered fair.

Discharge of San Juan River at Rosa, N. M., for Year Ending September 30, 1923.
Drainage Area, 2044 Square Miles. Altitude, 6000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	124	126	223	320	379	385	1450	2590	4900	2290	472	710
2....	124	122	199	304	387	558	1290	2630	4940	2120	479	643
3....	123	128	250	289	395	755	995	2660	4960	1880	479	638
4....	123	163	247	273	403	678	897	2700	5100	1770	496	607
5....	122	160	220	257	411	624	755	2730	4760	1690	580	1380
6....	123	134	175	242	419	575	932	2760	4440	1560	540	806
7....	128	132	155	226	429	560	1490	2800	4440	1580	482	616
8....	126	155	199	211	436	546	1740	2830	4240	1650	540	560
9....	124	172	150	195	444	532	1710	2870	4030	1610	661	520
10....	124	178	208	179	453	518	1830	2900	3650	1430	1040	490
11....	126	190	220	164	461	504	1800	2940	4020	1340	765	465
12....	128	181	232	147	469	570	1810	2970	4690	1230	969	462
13....	126	172	294	133	478	690	2000	3010	5030	1170	1060	451
14....	124	152	418	117	486	666	2000	3040	5140	1150	942	462
15....	123	148	326	170	494	710	2040	3070	4920	1060	1110	482
16....	124	155	274	142	503	820	2070	3110	4720	969	1330	598
17....	123	163	240	129	511	848	2110	3140	4380	884	1680	638
18....	122	202	212	135	520	834	2140	3180	4070	890	1610	3920
19....	122	160	250	149	553	762	2190	3210	3590	866	1360	2890
20....	122	163	244	170	630	807	2210	3250	3590	890	1130	1550
21....	122	211	272	216	690	841	2250	3280	3400	916	1070	1580
22....	123	217	273	275	690	922	2280	3320	3220	948	1080	1680
23....	122	217	274	302	716	1000	2320	3350	3150	750	948	2580
24....	122	223	275	284	748	1080	2350	3940	3130	675	922	4620
25....	122	208	281	264	716	1160	2380	4870	3240	634	830	3480
26....	123	202	286	329	642	1250	2420	5370	3390	594	794	2340
27....	123	172	292	337	460	1330	2450	5760	3550	584	750	2100
28....	135	196	297	346	352	1020	2490	5700	3210	670	670	1890
29....	145	235	303	354	....	1260	2520	5210	2970	630	625	1700
30....	142	265	308	362	....	1430	2560	4620	2480	536	710	1510
31....	134	....	314	371	....	1430	....	4580	....	482	735	....
Total	3894	5302	7911	7394	14275	25665	57479	108390	121350	35448	26859	42368
Mean.	126	177	255	239	510	828	1920	3500	4040	1140	866	1410
Max..	145	265	418	371	748	1430	2560	5760	5140	2290	1680	4620
Min...	122	122	150	117	352	385	755	2590	2480	482	472	451
Acre-ft.	7720	10500	15700	14700	28300	50900	114000	215000	240000	70100	53200	83900

Discharge of San Juan River at Rosa, N. M., for Year Ending September 30, 1924.
Drainage Area, 2044 Square Miles. Altitude, 6000 Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1380	866	424	430	730	810	1390	2800	2120	1480	515	174
2....	1290	878	425	430	740	720	1180	3010	2160	1330	480	170
3....	1390	788	426	430	750	630	1440	3220	2990	1230	440	168
4....	1280	765	428	430	760	540	2260	3430	3760	1180	474	168
5....	1240	735	430	420	770	450	3000	3640	4340	1120	492	166
6....	1270	720	422	415	780	390	3700	3850	4730	1180	420	166
7....	1200	710	416	410	790	390	4500	4060	5260	1300	380	158
8....	1020	680	433	422	800	345	5300	4270	4580	1210	333	158
9....	1050	638	451	434	810	386	6050	4490	4000	1130	305	150
10....	1080	648	418	446	820	396	6010	5050	3870	1180	293	166
11....	872	848	406	458	830	380	5100	5360	3980	1170	275	272
12....	884	916	428	470	820	690	4680	5160	4520	1040	281	302
13....	854	630	426	482	810	386	5330	5160	5310	886	315	212
14....	842	598	406	496	782	380	6010	5640	5520	767	620	186
15....	824	570	408	510	754	374	5810	5500	5000	695	575	170
16....	806	538	410	518	726	386	3740	5310	4760	670	452	166
17....	745	526	412	532	698	410	2400	5190	4440	712	344	170
18....	700	494	414	546	670	370	2280	5570	4160	700	319	190
19....	670	487	416	560	642	384	2550	5380	3590	600	284	168
20....	666	478	418	574	670	386	3470	5500	3070	550	269	174
21....	643	481	420	588	610	368	4210	5520	2730	500	257	160
22....	638	463	422	602	578	378	4920	5470	2650	460	239	156
23....	695	454	424	616	675	388	4900	5350	2460	480	227	154
24....	745	445	426	630	816	368	4950	5190	2320	440	215	148
25....	755	448	428	644	986	340	4410	4860	2260	388	198	148
26....	750	439	430	658	1100	406	3740	4200	2170	472	202	142
27....	725	436	430	672	1020	900	2950	4090	2020	460	195	140
28....	700	418	430	686	950	1390	2890	3680	1940	1180	188	140
29....	710	420	430	700	900	1780	2400	3130	1920	830	184	130
30....	690	422	430	710	....	1940	2600	2570	1660	781	184	128
31....	685	....	430	720	....	2170	....	2260	....	570	178	....
Total	27799	17939	13117	16639	22787	19629	114170	137910	104290	26691	10133	5100
Mean.	897	598	423	537	786	633	3810	4450	3480	861	327	170
Max..	1390	916	451	720	1100	2170	6050	5640	5520	1480	620	302
Min...	638	418	406	410	578	340	1180	2260	1660	388	178	128
Acre-ft.	55200	35600	26000	33000	45200	38900	227000	274000	207000	52900	20100	10100

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Navajo River at Edith for Year Ending September 30, 1923.
Drainage Area, 165 Square Miles. Altitude, 7100 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	34	26	38	38	68	95	49	484	752	256	65	65
2....	34	26	37	39	69	96	49	647	752	256	65	65
3....	34	26	37	40	70	96	49	647	752	256	65	65
4....	34	26	36	41	71	96	170	647	752	225	65	65
5....	34	26	35	42	72	96	170	647	562	225	65	65
6....	34	26	35	43	72	96	170	647	562	225	65	65
7....	34	26	34	44	73	96	170	647	562	225	75	65
8....	34	33	34	45	74	96	170	647	562	225	75	65
9....	34	33	33	46	75	96	170	647	562	225	75	65
10....	34	33	32	47	76	96	170	647	562	225	85	65
11....	34	33	32	48	77	96	170	647	562	225	96	65
12....	34	33	31	49	78	96	272	372	562	225	96	65
13....	34	33	30	50	79	37	338	390	562	225	143	65
14....	34	33	30	50	80	37	355	156	562	225	272	65
15....	34	33	29	51	81	33	355	108	562	225	272	65
16....	34	33	29	52	82	33	390	108	562	225	305	65
17....	34	33	28	53	83	33	390	288	562	225	305	65
18....	34	33	27	54	84	33	409	464	445	225	210	65
19....	34	41	27	55	85	33	409	523	445	225	210	65
20....	34	41	26	56	86	33	256	523	445	225	210	65
21....	34	41	27	57	87	33	225	523	338	225	210	65
22....	26	41	28	58	88	27	170	562	338	225	156	65
23....	26	41	29	59	89	27	170	647	338	75	108	65
24....	26	41	30	60	90	27	170	647	338	75	108	240
25....	26	41	31	61	91	27	170	647	338	75	108	240
26....	26	41	32	62	92	33	240	647	338	65	108	240
27....	26	40	33	63	93	338	305	647	305	65	108	240
28....	26	40	34	64	94	338	338	647	256	65	65	240
29....	26	39	35	65	....	338	338	562	256	65	65	240
30....	26	39	36	66	....	338	338	562	256	65	65	240
31....	26	....	37	67	....	240	....	752	....	65	65	....
Total	974	1031	992	1625	2259	3189	7145	16729	14750	5658	3985	3175
Mean.	31.4	34.3	32.0	52.4	80.7	103	238	540	492	183	129	106
Max..	34	41	38	67	94	338	409	752	752	256	305	240
Min...	26	26	26	38	68	27	49	108	256	65	65	65
Acreft.	1930	2040	1970	3320	4480	6320	14200	33200	29200	11200	7900	6300

Discharge of Navajo River at Edith for Year Ending Sept. 30, 1924.
Drainage Area, 165 Square Miles. Altitude, 7,100 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	131	65	43	53	62	68	62	400	275	178	102	44
2....	131	65	44	53	62	68	62	400	275	178	102	44
3....	131	65	44	53	62	68	62	450	290	178	102	44
4....	131	65	44	54	63	68	573	466	290	178	102	44
5....	131	65	44	54	63	69	573	593	482	178	86	44
6....	131	65	45	54	63	69	573	593	482	178	86	44
7....	131	65	45	54	64	69	536	593	482	178	86	44
8....	131	65	45	55	64	69	536	593	482	178	86	44
9....	131	65	46	55	64	69	613	633	482	178	86	44
10....	131	65	46	55	65	69	573	633	433	178	86	44
11....	96	65	46	56	65	69	335	633	433	178	86	44
12....	96	65	47	56	65	70	335	633	433	178	86	44
13....	96	57	47	56	66	70	653	593	433	178	86	44
14....	96	57	47	56	66	70	653	593	433	178	86	44
15....	96	57	48	57	66	70	653	593	433	178	86	44
16....	75	57	48	57	66	70	653	593	433	178	86	44
17....	75	57	48	57	66	70	335	633	433	178	44	31
18....	75	57	48	58	66	70	305	633	433	178	44	31
19....	75	57	49	58	66	70	305	593	225	178	44	31
20....	75	57	49	58	66	70	573	593	225	178	44	31
21....	75	43	49	59	67	70	613	593	225	178	44	31
22....	75	43	50	59	67	70	613	593	225	178	44	31
23....	65	43	51	59	67	70	573	593	225	178	44	31
24....	65	43	50	60	67	70	450	593	225	178	44	31
25....	65	43	50	60	67	70	450	593	225	178	44	31
26....	65	43	51	60	67	70	450	593	225	178	44	31
27....	65	43	51	60	67	70	275	536	225	367	44	31
28....	65	43	51	61	68	70	275	466	225	613	44	31
29....	65	43	52	61	68	70	290	305	225	613	44	31
30....	65	43	52	61	....	70	290	275	225	178	44	31
31....	65	....	52	62	....	70	....	275	....	137	44	....
Total	2900	1666	1482	1771	1895	2155	13242	16859	10137	6536	2100	1138
Mean.	93.5	55.5	47.8	57.1	65.3	69.5	441	544	338	211	67.7	37.9
Max..	131	65	52	62	68	70	653	633	482	613	178	44
Min..	65	43	43	53	62	68	62	275	225	178	44	31
Acre-ft.	5750	3300	2940	3510	3760	4280	26300	33400	20100	13000	4160	2260

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Piedra River at Arboles for Year Ending September 30, 1923. Drainage Area, 650 Square Miles. Altitude, 6,000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	48	48	89	200	122	113	678	965	1690	767	77	233
2....	48	48	100	222	122	148	658	1140	1570	707	105	240
3....	48	48	89	245	122	218	590	1170	1590	629	110	187
4....	48	48	67	268	122	188	543	938	1710	575	92	170
5....	48	51	89	232	122	188	517	1810	1570	545	110	177
6....	48	64	89	122	122	195	552	1960	1630	485	125	140
7....	48	49	94	170	122	160	921	1960	1500	585	134	140
8....	48	49	100	148	122	130	774	1790	935	667	164	105
9....	40	49	112	160	122	148	899	1750	1220	585	285	88
10....	40	52	119	130	122	142	866	1720	1260	535	445	83
11....	40	52	148	152	122	139	965	1500	1950	535	285	92
12....	40	49	129	166	122	136	899	1500	1750	410	695	77
13....	40	46	112	130	122	152	938	1500	1780	345	612	99
14....	40	52	102	136	122	142	965	1500	1750	335	475	110
15....	40	54	129	136	122	130	866	1260	1750	310	525	155
16....	40	84	119	136	122	100	899	1570	1630	285	545	249
17....	40	79	100	142	122	113	1080	1260	1330	262	545	460
18....	40	90	100	122	122	122	1110	1620	1220	285	651	707
19....	40	70	96	122	122	113	1110	1970	1110	249	785	651
20....	40	61	92	122	122	122	976	1670	1110	262	923	510
21....	40	67	89	122	122	119	965	1550	1060	222	845	435
22....	40	79	104	122	122	116	921	1920	1030	222	815	475
23....	40	96	108	122	122	113	738	2310	1030	187	640	667
24....	40	104	113	122	122	110	723	2310	983	155	345	831
25....	40	110	113	122	122	110	748	1800	1030	110	205	995
26....	40	78	122	122	122	100	748	2180	995	99	177	845
27....	40	78	130	122	122	113	698	2400	983	146	177	725
28....	40	71	142	122	110	268	832	2270	947	187	205	640
29....	40	78	166	122	....	457	965	1900	875	134	164	629
30....	40	97	170	122	....	548	882	1800	755	92	205	612
31....	45	....	178	122	....	698	....	1630	....	92	240	....
Total	1309	2001	3508	4603	3404	5651	25026	52623	39743	11004	11706	11527
Mean.	42.3	66.7	113	148	122	182	834	1700	1320	355	378	384
Max..	48	110	178	268	122	698	1110	2400	1950	767	923	995
Min..	40	46	67	122	110	100	517	965	755	92	77	77
Acre-ft.	2600	3970	6960	9130	6750	11200	49600	105000	78600	22000	23200	23000

Discharge of Piedra River at Arboles for Year Ending September 30, 1924. Drainage Area, 650 Square Miles, Altitude, 6000 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	615	276	108	102	155	160	330	1340	888	536	130	77
2....	535	212	84	104	156	158	390	1320	866	510	125	76
3....	460	187	90	105	158	140	432	1490	1170	510	116	75
4....	425	170	90	107	160	121	1050	1610	1500	472	120	73
5....	435	198	69	109	162	154	1670	1730	1580	483	136	72
6....	385	170	90	110	163	117	2290	1850	1650	492	134	71
7....	385	198	69	112	165	102	2510	1800	1720	642	139	69
8....	395	170	136	114	167	88	2840	2100	1800	536	130	68
9....	375	177	150	116	168	88	2950	2220	1690	500	134	67
10....	310	205	120	117	170	102	2620	2340	1560	460	125	66
11....	285	495	96	119	172	88	2400	2550	1660	536	125	64
12....	295	485	100	121	174	102	2200	2420	1860	452	124	63
13....	335	335	80	122	176	121	2180	2440	2290	418	123	62
14....	285	360	62	124	177	136	2180	2680	2130	384	122	61
15....	222	302	56	126	179	121	2310	2520	1960	350	121	71
16....	177	244	40	127	181	136	1660	2400	1940	316	120	71
17....	177	187	43	129	179	140	1180	2420	1180	282	120	61
18....	177	184	44	131	178	136	1220	2600	1590	248	120	71
19....	164	178	23	132	176	121	1140	2380	1320	214	105	71
20....	146	137	32	134	175	132	1810	2400	1010	180	89	61
21....	146	123	52	136	173	140	1840	2480	1000	156	89	61
22....	140	129	23	138	172	136	2100	2310	980	142	89	61
23....	146	136	88	139	170	132	2240	1540	908	142	88	61
24....	170	123	48	141	168	230	2340	1680	840	142	87	61
25....	222	147	90	143	167	121	2130	1670	806	142	86	61
26....	233	103	92	145	166	390	3000	1520	757	142	84	50
27....	198	92	93	146	164	564	1680	1310	708	142	83	50
28....	170	112	95	148	162	480	1620	1090	659	252	82	55
29....	177	100	97	150	161	720	1510	880	610	224	80	60
30....	170	108	98	151	....	960	1340	880	562	180	79	65
31....	170	....	100	153	....	840	....	880	....	142	78	....
Total	.8561	6043	2458	3951	4894	7176	55162	58850	39194	10327	3383	1955
Mean.	276	201	76.1	127	169	231	1840	1900	1310	333	109	65.2
Max..	651	495	150	153	181	960	3000	2680	2290	642	139	77
Min...	140	92	23	102	155	88	330	880	562	142	78	50
Acre-ft.	17000	12000	4870	7830	9710	14300	109000	117000	78000	20500	6710	3880

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Los Pinos River near Ignacio for Year Ending Sept. 30, 1923.
Drainage Area, 450 Square Miles. Altitude, 6,480 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	12	34	70	119	100	107	306	515	1480	745	35	32
2....	11	46	72	102	100	123	332	579	2470	693	56	34
3....	10	54	75	109	88	146	292	705	1790	547	31	27
4....	9.6	56	84	97	94	134	225	1060	1760	502	20	25
5....	9.6	61	73	165	95	121	218	1290	1600	441	31	19
6....	8.4	54	70	128	102	105	236	1070	1410	374	20	25
7....	8.8	58	86	150	105	104	343	1130	1540	360	10	17
8....	11	64	75	134	102	112	350	1190	1320	471	8	10
9....	9.6	65	65	125	98	114	347	1290	1110	644	9	9
10....	8.8	44	60	118	97	116	388	1480	1170	602	70	7
11....	9.6	44	86	119	85	138	405	1490	1510	425	88	5
12....	8.8	35	84	116	100	116	388	1400	1780	355	393	6
13....	9.2	34	116	114	97	110	454	1230	1840	304	355	5
14....	9.2	29	116	107	94	138	472	1180	1790	282	419	5
15....	11	23	109	125	97	114	454	958	1740	322	775	9
16....	7.2	26	109	107	97	102	490	845	1620	350	708	10
17....	8.8	26	97	110	94	110	546	752	1160	258	534	26
18....	7.6	19	67	116	105	100	568	920	1200	274	581	203
19....	8.4	26	76	98	121	89	579	1140	1180	241	534	149
20....	8.4	29	85	83	123	109	557	1440	1150	290	425	127
21....	8.8	44	79	73	136	114	520	1340	982	414	331	214
22....	10	39	91	80	128	100	525	1360	858	355	258	232
23....	11	37	91	89	136	85	405	1140	930	842	203	430
24....	13	36	82	88	134	109	358	1430	920	192	159	1020
25....	14	56	97	88	121	107	358	1730	942	142	140	858
26....	14	68	94	88	121	116	375	2030	1160	102	129	708
27....	12	79	83	89	116	126	383	2090	1200	79	91	567
28....	12	73	91	97	109	155	366	2080	984	60	64	502
29....	15	88	95	109	....	203	400	1700	922	48	52	404
30....	22	106	83	100	....	249	551	1490	856	35	43	313
31....	22	....	82	91	....	282	....	1520	....	28	36	....
Total	340.8	1453	2643	3334	2995	3954	12191	39574	40374	10777	6608	5998
Mean.	11	48.4	85.2	107	107	128	406	1280	1350	348	213	200
Max..	22	106	116	165	136	282	579	2090	2470	842	775	1020
Min...	7.2	19	60	73	85	85	218	515	856	28	8	5
Acre-ft.	670	2880	5240	6610	5940	7840	24200	78700	80300	21400	13100	11900

Discharge of Los Pinos River near Ignacio for Year Ending Sept. 30, 1924.
Drainage Area, 450 Square Miles. Altitude, 6,480 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	278	241	110	....	....	114	210	660	333	276	33	2.8
2....	250	214	106	....	....	120	285	712	405	248	23	2
3....	250	200	100	....	....	138	360	966	735	214	25	2
4....	223	184	93	....	....	114	435	1190	1210	234	30	2
5....	217	182	114	....	....	106	510	1140	1450	166	27	5.2
6....	220	176	148	....	....	96	585	1190	1650	136	25	9.2
7....	212	171	142	....	....	112	838	1160	1930	130	19	5.2
8....	189	171	152	....	....	142	902	1160	1700	110	15	5.2
9....	304	176	122	....	....	102	838	1310	1440	91	13	4.4
10....	313	174	122	....	....	112	822	1460	1400	116	11	13
11....	274	360	138	....	....	120	728	1600	1510	150	10	26
12....	278	266	136	....	....	118	675	1600	1700	108	13	19
13....	282	247	122	....	....	104	728	1630	1920	96	17	12
14....	266	212	106	....	....	110	814	1770	1940	88	20	20
15....	250	205	128	....	....	120	846	1730	1920	80	18	29
16....	238	193	116	....	....	128	668	1790	1660	73	11	37
17....	217	172	124	....	....	104	489	1930	1450	66	8.4	58
18....	203	166	126	....	....	126	410	2000	1260	59	6.8	61
19....	192	166	130	....	....	116	435	1760	1030	52	5.2	58
20....	192	190	136	....	....	110	735	1780	886	45	3.6	58
21....	187	166	116	....	....	132	660	1810	690	30	2.8	57
22....	171	154	118	....	....	110	705	1800	735	26	2.8	57
23....	187	163	96	....	....	104	838	1720	660	22	2.8	56
24....	226	140	114	....	....	132	910	1740	592	15	2	56
25....	187	126	122	....	....	136	982	1600	592	21	2	55
26....	192	104	122	....	....	187	950	1240	585	18	2	55
27....	174	106	138	....	....	272	742	1090	519	18	2	51
28....	174	93	120	....	....	241	615	926	489	33	2	44
29....	189	104	110	....	....	178	525	712	435	47	2	45
30....	161	114	118	....	....	156	555	525	341	44	2	54
31....	179	....	132	....	....	136	....	420	....	35	3.6	....
Total	6875	5336	3777	....	....	4096	19795	42121	33167	2847	360	959
Mean.	222	178	122	128	135	132	660	1360	1110	91.8	11.6	31.9
Max..	313	360	152	....	....	272	982	2000	1940	276	33	61
Min...	161	93	93	....	....	96	210	420	333	15	2	2
Acre-ft.	13630	10580	7490	7870	7760	8120	39300	83600	66000	5650	714	1900

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Animas River at Durango for Year Ending Sept. 30, 1923.
Drainage Area, 694 Square Miles. Altitude, 6,550 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	246	218	238	139	143	270	480	1120	3830	2400	755	594
2....	242	210	234	143	135	285	480	1270	3920	2280	798	588
3....	238	218	242	143	135	285	456	1680	4270	1880	714	570
4....	238	218	242	159	135	285	456	2020	4450	1780	720	540
5....	234	218	242	175	139	285	432	2310	4210	1680	702	540
6....	222	218	230	175	151	285	426	2050	3680	1520	654	534
7....	210	218	230	167	155	260	426	2330	3530	1680	564	528
8....	214	218	230	155	155	260	456	2540	3530	1930	540	528
9....	206	222	234	135	155	260	462	2960	2860	2020	727	492
10....	206	226	222	135	155	260	522	3190	2510	1750	932	480
11....	202	226	230	142	155	260	582	3220	3390	1630	1020	462
12....	202	226	238	155	155	260	570	2960	4050	1540	1020	456
13....	206	226	250	135	159	251	600	2350	4440	1540	1200	450
14....	214	226	250	131	183	260	702	1860	4420	1520	1100	438
15....	210	218	211	139	215	260	762	1710	4360	1740	1410	444
16....	206	218	207	155	211	251	762	1610	4320	1710	1560	450
17....	214	226	207	155	183	238	955	1650	3000	1520	1610	480
18....	218	226	195	171	183	238	1140	1920	2940	1420	1670	552
19....	214	218	191	171	215	238	1150	2310	3070	1500	1600	624
20....	218	214	187	167	224	238	955	2950	3020	1440	1410	630
21....	210	218	187	167	215	251	902	2980	2380	1420	1290	648
22....	210	234	183	167	251	270	835	2740	2310	1320	1130	630
23....	210	246	183	159	238	270	720	2190	2440	1190	985	672
24....	202	242	183	159	224	316	660	2650	2660	1080	880	727
25....	210	234	183	167	238	316	642	3560	3010	992	790	748
26....	210	234	175	167	238	338	684	4200	3190	918	734	865
27....	214	242	175	167	242	392	755	4530	3440	865	684	910
28....	214	255	175	167	256	414	769	4680	2940	828	642	970
29....	214	270	175	167	....	468	872	4160	2650	776	600	955
30....	214	260	155	143	....	480	1230	3480	2480	714	612	940
31....	214	....	143	151	....	474	....	3730	....	672	600	....
Total	6682	6843	6427	4829	5243	9218	20843	82910	101300	45255	29653	18445
Mean.	216	228	207	155	187	297	695	2670	3380	1460	957	615
Max..	246	270	250	175	256	480	1230	4680	4450	2400	1670	955
Min...	202	210	143	131	135	238	426	1120	2310	672	540	438
Acre-ft.	13300	13600	12700	9600	10400	18300	41400	164000	201000	89800	58800	36600

Discharge of Animas River at Durango for Year Ending Sept. 30, 1924.
Drainage Area, 694 Square Miles. Altitude, 6,550 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	910	365	260	224	211	233	350	1680	1090	1330	480	215
2....	880	365	260	215	224	238	395	1860	1110	1150	425	211
3....	865	343	260	215	220	238	410	1900	1540	1130	380	209
4....	805	360	265	215	215	238	478	1950	2380	1040	360	205
5....	828	398	280	215	215	228	590	1900	2790	1020	356	205
6....	783	432	285	215	199	220	668	1900	3020	1000	346	199
7....	755	420	270	215	195	220	680	1900	3600	989	336	195
8....	672	528	270	207	195	215	704	2050	3060	910	319	195
9....	612	660	270	207	195	215	710	2280	2550	820	307	197
10....	576	570	260	195	195	207	775	2490	2440	850	301	197
11....	534	450	238	195	195	233	803	2720	2710	973	298	218
12....	516	432	215	195	195	228	775	2570	3060	880	295	220
13....	510	392	215	195	207	220	817	2650	3740	782	316	228
14....	510	360	207	195	242	215	873	3210	4130	712	325	228
15....	510	376	207	195	265	215	1030	3120	3970	621	316	230
16....	492	365	199	195	260	215	1130	3220	3330	586	313	232
17....	492	365	195	195	260	220	1380	3270	2960	607	301	232
18....	480	360	195	175	251	224	1410	3460	2780	579	292	232
19....	480	343	195	175	251	215	1410	3330	2480	526	283	240
20....	480	326	199	183	238	211	1450	3390	2110	490	274	240
21....	450	310	215	175	238	207	1500	3390	1990	485	265	230
22....	450	305	224	179	238	207	1490	3330	1900	465	256	228
23....	450	300	211	191	251	207	1550	3150	1900	455	248	225
24....	438	300	199	195	260	211	1480	3100	1820	430	240	225
25....	426	300	215	175	246	215	1410	2720	1850	405	240	232
26....	420	285	215	175	238	214	1380	2510	1800	370	235	240
27....	420	275	215	175	233	226	1130	2350	1660	380	235	240
28....	414	275	220	179	233	234	1210	1990	1630	532	228	240
29....	409	260	224	191	233	246	1380	1630	1490	698	228	240
30....	392	260	224	195	....	275	1580	1380	1480	554	220	240
31....	387	....	224	199	....	275	....	1120	....	500	220	....
Total	17346	11080	7131	6050	6598	6965	30948	77520	72370	22269	9238	6668
Mean.	560	369	230	195	228	225	1030	2500	2410	718	298	222
Max..	910	660	285	224	265	275	1580	3460	4130	1330	480	240
Min...	387	260	195	175	195	207	350	1120	1090	370	220	195
Acre-ft.	34400	22000	14100	12000	13100	13800	61300	154000	143000	44100	18300	13200

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Hermosa Creek at Hermosa for Year Ending Sept. 30, 1923.
Drainage Area, 168 Square Miles. Altitude, 6,700 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	....	....	....	....	....	....	....	447	598	197	73	68
2....	....	....	....	....	....	....	....	569	586	180	64	68
3....	....	....	....	....	....	....	....	685	579	172	60	67
4....	....	....	....	....	....	....	....	707	601	161	61	64
5....	....	....	....	....	....	....	....	727	561	148	58	60
6....	....	....	....	....	....	....	....	685	643	133	55	67
7....	....	....	....	....	....	....	....	691	637	138	51	55
8....	....	....	....	....	....	....	....	741	629	140	47	51
9....	....	....	....	....	....	....	....	747	596	148	68	47
10....	....	....	....	....	....	....	....	727	615	180	94	44
11....	....	....	....	....	....	....	....	699	671	151	94	43
12....	....	....	....	....	....	....	....	643	574	138	133	44
13....	....	....	....	....	....	....	....	548	569	129	140	45
14....	....	....	....	....	....	....	....	455	535	118	126	46
15....	....	....	....	....	....	....	....	455	522	126	166	46
16....	....	....	....	....	....	....	....	468	468	133	188	47
17....	....	....	....	....	....	....	....	494	417	113	200	55
18....	....	....	....	....	....	....	....	629	369	100	256	73
19....	....	....	....	....	....	....	....	770	345	106	215	68
20....	....	....	....	....	....	....	....	875	357	113	183	68
21....	....	....	....	....	....	....	....	785	297	109	164	64
22....	....	....	....	....	....	....	....	756	288	113	144	58
23....	....	....	....	....	....	....	....	685	273	100	126	126
24....	....	....	....	....	....	....	....	637	266	89	113	172
25....	....	....	....	....	....	....	....	756	266	83	100	119
26....	....	....	....	....	....	....	....	770	266	83	78	107
27....	....	....	....	....	....	....	266	766	253	106	73	94
28....	....	....	....	....	....	....	288	707	245	78	73	88
29....	....	....	....	....	....	....	455	643	225	68	71	81
30....	....	....	....	....	....	....	494	601	206	64	73	78
31....	....	....	....	....	....	....	....	615	....	60	69	....
Total	....	....	....	....	....	....	....	20483	13455	3777	3412	2113
Mean.	....	....	....	....	....	....	....	660	448	122	110	70.4
Max..	....	....	....	....	....	....	....	875	671	197	256	172
Min...	....	....	....	....	....	....	....	447	206	60	47	43
Acre-ft.	....	....	....	....	....	....	....	40600	26700	7440	6760	4190

Discharge of Hermosa Creek at Hermosa for Year Ending Sept. 30, 1924.
Drainage Area, 168 Square Miles. Altitude, 6,700 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	70	44	....	....	....	65	53	400	340	110	47	18
2....	69	41	....	....	....	70	62	466	360	106	38	18
3....	66	40	....	....	....	70	61	633	442	102	37	18
4....	62	44	....	....	....	38	89	675	589	98	36	18
5....	60	40	....	....	....	38	126	714	616	92	35	16
6....	57	40	....	....	....	60	257	738	668	88	34	16
7....	55	40	....	....	....	40	427	728	657	80	33	19
8....	53	40	....	....	....	40	397	782	562	78	30	19
9....	60	39	....	....	....	50	323	822	475	75	29	20
10....	57	45	....	....	....	65	287	908	442	89	28	20
11....	53	83	....	....	....	55	287	845	421	92	28	19
12....	51	64	....	....	....	40	359	809	463	75	28	20
13....	51	55	....	....	....	42	463	871	479	69	32	20
14....	49	51	....	....	....	38	548	886	482	60	38	27
15....	48	51	....	....	....	60	522	875	442	60	35	33
16....	47	53	....	....	....	60	348	902	388	55	30	25
17....	44	53	....	....	....	50	269	917	343	55	27	21
18....	47	51	....	....	....	40	252	913	295	53	25	20
19....	49	46	....	....	....	28	333	951	250	51	25	19
20....	46	47	....	....	....	40	421	913	223	47	23	20
21....	47	44	....	....	....	40	545	883	199	46	22	18
22....	37	44	....	....	....	40	651	864	176	44	22	18
23....	44	44	....	....	....	37	703	830	166	41	21	18
24....	47	44	....	....	....	36	658	749	157	40	20	18
25....	44	44	....	....	....	36	505	675	148	39	20	18
26....	37	44	....	....	....	44	400	668	141	41	20	17
27....	40	42	....	....	....	61	346	654	133	41	20	18
28....	33	42	....	....	....	74	305	572	126	57	20	16
29....	34	42	....	....	....	64	290	489	119	53	21	17
30....	39	40	....	....	....	55	330	412	113	44	20	18
31....	44	....	....	....	....	46	....	362	....	42	18	....
Total	1540	1397	....	....	....	1522	10617	22906	10405	2023	853	582
Mean.	49.7	46.6	....	....	....	49.1	354	739	347	65.3	27.5	19.4
Max..	70	83	....	....	....	....	703	951	668	110	47	33
Min...	33	39	....	....	....	....	53	362	113	39	18	16
Acre-ft.	3060	2770	....	....	....	3020	21100	45400	20600	4020	1690	1150

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Florida River Near Durango for Year Ending September 30, 1923.
Drainage Area, 96 Square Miles. Altitude,.... Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	18	6.6	13	15	18	21	70	246	823	....	....	....
2....	18	6.6	13	15	18	21	66	284	960	....	....	....
3....	18	6.6	13	15	19	21	80	284	964	....	....	....
4....	18	6.6	13	15	19	21	96	352	964	....	....	....
5....	18	6.6	13	15	19	21	96	352	973	....	....	....
6....	14	10	13	16	19	21	96	380	973	....	....	....
7....	14	10	13	16	19	21	96	409	982	....	48	....
8....	13	11	13	16	19	21	96	444	1080	....	....	....
9....	12	12	13	16	19	21	96	444	1130	....	....	....
10....	12	12	13	16	19	21	105	444	1170	....	....	....
11....	12	12	13	16	19	21	105	444	1130	....	....	....
12....	12	12	13	16	20	21	114	444	1180	....	....	....
13....	12	12	13	16	20	21	114	478	1130	....	....	....
14....	12	12	13	16	20	21	114	484	1080	....	....	....
15....	12	12	13	17	20	21	133	526	1100	....	....	....
16....	12	12	13	17	20	21	158	580	1100	....	....	....
17....	12	12	13	17	20	21	170	670	1110	....	....	....
18....	12	12	13	17	20	21	184	680	1060	....	....	....
19....	11	12	14	17	20	21	198	680	1070	....	....	....
20....	10	12	14	17	20	21	184	724	1070	....	....	....
21....	10	12	14	17	21	21	184	591	850	....	....	....
22....	8	12	14	17	21	21	214	603	810	....	....	....
23....	6.6	12	14	17	21	25	229	828	710	....	....	....
24....	6.6	12	14	18	21	21	214	878	760	....	....	....
25....	6.6	12	14	18	21	21	198	966	715	....	....	....
26....	6.6	12	14	18	21	23	184	927	670	....	....	....
27....	6.6	12	14	18	21	23	184	927	432	....	....	....
28....	6.6	12	15	18	21	28	198	1020	475	....	....	....
29....	6.6	12	15	18	....	37	229	932	521	....	....	....
30....	6.6	12	15	18	....	48	246	898	390	....	....	....
31....	6.6	....	15	18	....	60	....	898	....	....	....	....
Total	349.4	328	420	516	555	748	4453	18817	27382	....	....	....
Mean.	11.3	11	13.6	16.6	19.5	24.1	148	607	913	....	....	....
Max..	18	12	15	18	21	60	246	1020	1180	....	....	....
Min...	6.6	6.6	13	15	18	21	66	246	390	....	....	....
Acre-ft.	693	676	833	1020	1100	1480	8830	37300	54300	....	....	....

Discharge of Florida River Near Durango for Year Ending September 30, 1924.
Drainage Area, 96 Square Miles. Altitude, ... Feet Above Sea Level

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	260	50	50	34	29	27	57	275	201	126	54	15
2....	252	61	40	34	29	27	66	286	247	119	49	15
3....	247	61	40	34	29	27	75	297	383	112	44	15
4....	237	74	40	33	29	27	84	308	464	105	40	14
5....	242	55	40	33	29	27	93	319	474	98	37	14
6....	226	55	40	33	28	26	102	330	498	91	34	14
7....	206	55	40	33	28	26	111	341	416	89	31	14
8....	190	61	45	33	28	26	120	353	424	88	28	14
9....	174	83	45	33	28	26	129	364	394	87	25	14
10....	134	100	45	33	28	26	138	377	397	86	22	14
11....	124	134	45	32	28	26	147	394	414	85	22	14
12....	109	93	45	32	27	26	156	373	470	84	21	14
13....	93	74	45	32	27	26	165	404	500	83	21	14
14....	93	74	45	32	27	26	165	478	474	78	21	14
15....	74	74	36	32	27	26	165	504	455	73	20	15
16....	74	66	36	32	27	26	164	537	391	68	20	15
17....	74	74	36	32	27	26	164	520	366	63	20	15
18....	66	66	36	31	27	26	164	504	330	58	20	15
19....	66	66	36	31	27	26	163	500	290	53	19	15
20....	61	61	35	31	27	26	163	499	246	49	18	15
21....	61	61	35	31	27	26	173	498	243	53	17	15
22....	61	61	35	31	27	26	183	480	273	58	16	15
23....	61	61	35	31	27	26	193	511	232	63	15	15
24....	55	55	35	31	27	26	203	542	239	68	15	15
25....	50	50	35	30	27	26	213	574	219	73	15	14
26....	50	50	35	30	27	26	223	485	199	78	15	14
27....	50	50	34	30	27	41	233	420	179	83	15	14
28....	50	50	34	30	27	44	243	366	159	77	15	14
29....	50	45	34	30	27	41	253	314	140	71	15	14
30....	45	45	34	30	....	41	264	262	133	65	15	14
31....	45	....	34	29	....	49	....	211	....	59	15	....
Total.	3580	1965	1200	983	799	897	4772	12626	9850	2443	734	433
Mean.	115	65.5	38.7	31.7	27.6	28.9	159	407	328	78.8	23.7	14.4
Max..	....	134	50	34	29	49	264	574	500	126	54	15
Min...	45	45	34	29	27	26	57	211	133	49	15	14
Acre-ft.	7070	3900	2380	1940	1590	1780	9460	25000	19500	4840	1460	860

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Plata River at Hesperus for Year Ending Sept. 30, 1923.
Drainage Area, 37 Square Miles. Altitude, 8,113 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	5.6	5.4	5.4	6.1	5.2	7.2	15	134	422	119	26	24
2....	5.6	5.4	5.4	6.1	5.4	7.8	15	173	458	110	28	23
3....	5.5	5.4	5.4	5.4	5.2	7.2	16	240	452	98	30	21
4....	5.5	5.4	5.4	6.1	5.4	6.1	17	190	476	88	29	19
5....	5.4	5.4	5.4	6.1	5.4	8.6	17	163	416	77	25	18
6....	5.5	5.4	5.4	5.4	5.2	9.2	19	149	343	63	23	18
7....	5.4	5.4	5.4	6 1	5.4	8.9	23	155	277	72	20	18
8....	5.4	5.4	5.4	5.4	5.4	8.9	26	209	245	85	19	17
9....	5.4	5.4	5.4	5.4	5	8.9	31	293	204	98	33	15
10....	5.4	5.4	5.4	5.4	4.9	8.2	38	261	272	83	58	14
11....	5.4	5.4	5.4	5.4	5.4	7.2	38	218	392	85	56	13
12....	5.4	5.4	5.4	5.4	5	10	43	204	404	70	58	13
13....	5.4	5.4	5.4	5.4	5	10	52	183	392	70	54	12
14....	5.4	5.4	5.4	5.4	5.4	8.6	56	160	322	66	60	13
15....	5.4	5.4	5.4	5.4	5.5	8.2	67	141	298	64	123	13
16....	5.4	5.4	5.4	5.4	6.1	13.0	116	138	200	64	128	12
17....	5.4	5.4	5.4	5.2	6.1	8.9	149	155	153	56	134	12
18....	5.4	5.4	5.4	5.2	6.1	10.0	149	190	148	51	272	15
19....	5.4	5.4	5.4	5.5	6.0	12.0	131	200	149	50	162	14
20....	5.4	5.4	5.4	5.8	6.0	8.9	110	261	138	47	110	16
21....	5.4	5.4	5.4	5.5	6.0	8.6	96	566	109	49	104	19
22....	5.4	5.4	5.4	5.4	5.8	12.0	80	458	117	55	86	23
23....	5.4	5.4	5.4	5.4	6.0	13.0	64	333	130	57	64	35
24....	5.4	5.4	5.4	5.4	6.1	12.0	63	482	139	54	52	44
25....	5.4	5.4	5.5	5.4	6.1	8.9	72	644	154	52	45	40
26....	5.4	5.4	5.4	5.4	6.4	8.9	85	644	177	47	38	37
27....	5.4	5.4	5.4	6.1	8.6	7.8	94	584	162	40	34	29
28....	5.4	5.4	5.5	7.8	8.6	8.2	102	572	149	33	28	24
29....	5.4	5.4	5.6	5.4	....	9.2	129	488	132	23	27	18
30....	5.4	5.4	5.4	5.4	....	11.0	158	416	123	18	28	16
31....	5.4	....	5.6	5.2	....	13.0	....	452	....	24	26	....
Total	168.1	162.0	168.0	174.0	162.7	290.4	2071.	7456	6553	1968	1980	605
Mean.	5.42	5.40	5.42	5.61	5.81	9.37	69.0	241.	218.	63.5	63.9	20.2
Max..	5.6	5.4	5.6	7.8	8.6	13.0	158	644	458	119	272	44
Min...	5.4	5.4	5.4	5.2	4.9	6.1	15	134	109	18	19	12
Acre-ft.	333	321	333	345	323	576	4110	14800	13000	3900	3930	1200

Discharge of La Plata River at Hesperus for Year Ending Sept. 30, 1924.
Drainage Area, 37 Square Miles. Altitude, 8,113 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	21	14	18	11	9	9	13	136	83	33.0	14	5.6
2....	19	14	19	11	9	9	14	186	117	31.0	14	5.5
3....	18	13	19	11	9	9	16	266	181	26.0	14	5.5
4....	18	13	19	11	9	9	18	491	174	22.0	13	5.4
5....	17	13	18	10	9	9	22	463	224	19.0	12	5.6
6....	17	12	19	10	9	10	35	491	164	15.0	11	5.5
7....	17	12	19	10	9	10	68	547	180	22.0	10	5.5
8....	18	11	16	10	9	10	124	533	133	15.0	9	5.4
9....	19	12	15	10	9	10	168	352	100	13.0	7.8	5.5
10....	19	28	15	10	9	10	98	380	105	28.0	8.4	6.4
11....	19	29	15	10	9	10	102	386	142	33.0	7.7	5.8
12....	19	19	14	10	9	10	186	303	130	18.0	8.	5.6
13....	18	19	14	10	9	10	151	320	170	14 0	8.9	5.4
14....	18	16	14	10	9	10	213	373	170	13.0	8.6	5.4
15....	17	18	14	10	9	11	183	352	176	10.0	7.7	5.5
16....	16	15	14	10	9	11	100	286	112	10.0	6.1	5.5
17....	16	15	14	10	9	11	505	293	89	9.4	6.9	5.5
18....	16	15	13	10	9	11	491	421	78	8.0	6.1	5.6
19....	16	15	13	10	9	11	456	449	55	7.6	6.0	5.8
20....	16	15	13	10	9	11	456	463	45	9.7	5.8	16.
21....	15	15	13	10	9	11	460	380	48	8.3	5.7	14.
22....	16	16	13	10	9	11	460	320	41	10.0	5.6	13.
23....	18	17	13	10	9	12	450	315	43	11.0	5.6	11.
24....	16	17	12	10	9	12	449	243	43	9.7	5.6	9.5
25....	16	17	12	9	9	12	264	184	50	9.8	5.6	8.9
26....	16	17	12	9	9	12	145	173	47	8.7	5.7	8.9
27....	13	17	12	9	9	12	119	162	49	2.3	5.6	8.6
28....	13	18	12	9	9	12	100	140	44	12.0	5.7	8.6
29....	13	19	12	9	9	12	102	113	43	14.0	5.6	8.0
30....	12	19	11	9	....	12	117	97	36	14.0	5.5	7.6
31....	14	....	11	9	....	13	....	83	....	15.0	5.6	....
Total	516	490	448	307	261	332	6077	9835	3072	477.5	246.8	220.1
Mean.	16.6	16.3	14.4	9.90	9.00	10.7	203	317	102	15.4	7.96	7.33
Max..	21	29	19	....	....	....	505	547	224	35	14	16
Min...	12	11	....	....	....	....	....	83	36	7.6	5.5	5.3
Acre-ft.	1020	969	885	608	518	657	12100	19500	6070	946.0	489	436

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of La Plata River at Colo.-N. M. Line for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	1.7	4.4	9.0	11	8.4	15	73	54	59	2.3	1.5	16
2....	1.7	4.2	9.0	11	6.6	19	55	59	48	2.1	1.5	13
3....	1.7	5.0	9.0	12	9.8	20	59	80	59	1.9	1.5	13
4....	1.7	6.0	8.1	17	9.4	19	48	96	67	1.7	1.5	13
5....	1.7	5.4	6.9	17	11	16	35	116	52	1.6	1.5	14
6....	1.7	5.4	6.9	15	12	13	34	82	34	1.6	1.5	14
7....	1.8	5.0	7.8	14	13	13	33	108	19	1.6	1.5	14
8....	1.7	4.8	7.8	15	14	13	31	140	16	1.6	1.5	14
9....	1.6	5.4	7.5	13	17	14	29	120	10	3.7	2.7	13
10....	1.6	5.2	6.9	13	15	14	32	233	5.6	4.0	6.0	11
11....	1.6	5.4	6.6	14	13	12	27	230	6.0	5.0	7.5	11
12....	1.7	5.6	6.9	15	16	11	35	194	11	2.5	9.0	11
13....	1.9	4.8	8.1	13	17	9	41	143	18	2.3	9.0	12
14....	1.7	5.2	8.4	12	8.7	12	36	136	12	1.8	24	13
15....	1.7	6.0	8.7	13	43	14	59	77	7.5	1.8	52	13
16....	1.8	5.6	9.0	13	106	16	58	75	7.5	1.7	83	13
17....	2.1	6.0	7.5	13	118	15	64	42	8.1	1.7	59	16
18....	2.0	5.4	6.6	9.0	62	14	62	52	7.2	1.7	154	40
19....	2.3	5.0	8.7	9.0	46	13	78	70	6.0	1.7	78	22
20....	2.2	4.8	9.0	9.4	42	19	116	126	5.8	2.3	48	16
21....	1.8	5.8	10.0	9.0	41	19	120	106	6.0	1.6	42	16
22....	1.9	7.8	11	9.0	32	14	94	78	5.6	1.5	32	15
23....	1.8	8.7	11	9.0	24	17	62	48	4.6	1.0	24	138
24....	2.0	9.8	11	9.0	21	19	58	62	3.5	1.0	20	28
25....	2.1	9.4	9.4	9.0	21	19	56	126	3.2	0.5	15	25
26....	2.2	8.7	9.0	9.0	19	19	56	158	3.5	0.3	13	24
27....	2.4	7.5	9.4	13	16	21	49	194	5.4	1.7	13	15
28....	2.5	7.2	10	16	15	28	54	136	3.8	1.6	11	15
29....	2.8	12.2	9.4	22	....	36	55	106	3.8	1.5	12	15
30....	3.4	9.4	9.0	22	....	67	55	70	3.5	1.5	14	15
31....	4.2	....	8.4	36	....	65	....	70	....	1.5	15	....
Total	63.0	191.1	266.	426.4	776.9	615	1664	3387	501.6	58.3	755.2	608
Mean.	2.0	6.37	8.5	13.7	27.7	19.8	55.4	109.2	16.7	1.8	24.3	20.3
Max..	4.2	12.2	11.0	36	118	67	120	233	6.7	5.0	154	138
Min...	1.6	4.2	6.6	9.0	6.6	9	27	42	3.2	0.3	1.5	11
Acre-ft.	125	379	527	845	1540	1220	3300	6720	994	115	1500	1200

Discharge of La Plata River at Colorado-New Mexico Line for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	15	15	20	....	26	43	50	224	0	0	0	0
2....	15	19	20	....	28	44	72	224	0	0	0	0
3....	12	19	22	....	30	41	59	257	0	0	17	7.2
4....	13	17	20	....	32	40	80	225	0	0	117	0
5....	12	18	19	....	35	37	193	301	12	0	10	0
6....	13	19	18	....	37	33	230	298	10	0	5.6	0
7....	18	19	19	....	40	32	325	318	9.2	0	5.2	0
8....	15	20	20	....	44	35	410	335	8	0	4	6
9....	15	20	18	....	50	30	446	352	0	0	3.5	24
10....	17	27	25	11	67	39	554	393	3	3	3.1	3.3
11....	18	51	23	....	60	38	393	376	3.5	3.5	0	23
12....	17	20	20	....	55	33	342	291	2.5	3	0	5.6
13....	16	27	20	....	50	30	335	224	5	2.5	0	2.8
14....	14	37	20	....	50	35	393	291	5	0	0	2.4
15....	17	33	21	....	60	36	428	291	0	0	0	3
16....	15	30	26	....	60	33	325	250	0	0	0	3
17....	15	28	26	....	66	26	240	158	0	0	0	2.5
18....	16	27	28	....	70	32	240	193	0	0	0	2
19....	17	26	25	....	78	26	234	150	0	0	0	2.4
20....	15	26	24	....	90	24	208	124	0	0	0	1.6
21....	16	18	21	....	94	45	267	100	0	0	0	1.6
22....	16	19	22	....	84	46	342	80	0	0	0	4
23....	16	19	21	....	57	43	393	43	0	0	0	5
24....	19	19	28	....	54	53	393	30	0	0	0	5.6
25....	18	19	26	....	48	65	359	18	0	0	0	6
26....	19	19	28	....	46	60	291	12	0	0	0	5
27....	20	19	31	....	46	75	224	14	0	0	0	6
28....	20	17	28	....	57	70	274	8.8	0	0	0	5.2
29....	20	18	26	....	50	68	257	8	0	0	0	6.8
30....	19	19	25	....	....	53	224	5.2	0	0	0	4.6
31....	19	....	24	....	....	45	....	5	....	0	0	....
Total	507	684	692	....	1574	1277	8581	5599	58.2	12	165.4	168.3
Mean.	16.4	22.8	22.3	15	54.3	41.2	286	181	1.94	0.39	5.34	5.61
Max..	20	51	31	....	94	75	554	393	12	3.5	117	24
Min...	12	15	18	....	....	24	50	5	0	0	0	0
Acre-ft.	1010	1360	1370	922	3120	2530	17000	11100	115	24	328	334

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mancos River Near Towaoc for Year Ending Sept. 30, 1923.

Day	Oct.	Nov.	Dec.	Jan.	Feb	Mar.	April	May	June	July	Aug.	Sept.
1....	....	6	20	20	10	....	....	99	157	24	2	15
2....	....	6	15	11	14	....	....	501	155	23	3	14
3....	....	6	13	9	6	....	....	457	147	23	2	13
4....	....	7	14	18	....	....	....	314	161	23	1	12
5....	....	7	15	20	....	....	....	282	145	24	1	12
6....	....	7	14	24	....	....	46	310	130	21	1	13
7....	....	7	12	36	....	....	....	271	118	23	1	13
8....	....	7	12	20	....	....	....	280	147	337	1	10
9....	....	8	13	19	19	....	....	257	138	122	1	8
10....	....	8	12	9	....	....	....	263	56	58	92	7
11....	....	8	9	11	....	....	....	250	55	14	317	6
12....	....	9	13	9	....	....	....	247	105	13	178	22
13....	....	8	15	9	....	....	....	247	103	124	111	24
14....	....	8	18	9	....	....	....	247	97	78	60	21
15....	....	8	23	9	....	....	....	209	93	23	107	33
16....	....	7	19	8	....	....	....	178	92	24	118	31
17....	....	7	18	8	....	....	....	176	86	34	127	23
18....	....	9	14	8	....	....	....	199	71	59	127	25
19....	....	8	8	7	....	....	....	237	78	38	108	34
20....	....	8	6	7	....	....	....	288	71	33	83	39
21....	....	10	10	7	....	....	....	307	65	34	75	39
22....	....	13	8	9	....	....	93	266	64	34	67	45
23....	....	18	10	15	....	....	85	202	55	36	70	42
24....	....	20	11	13	....	....	78	190	61	30	65	46
25....	....	15	8	23	....	....	76	224	41	21	56	41
26....	....	13	20	11	....	....	87	250	27	18	47	34
27....	....	12	12	13	....	....	106	263	24	16	39	31
28....	....	10	9	9	....	....	100	247	44	10	38	28
29....	5	11	7	5	....	....	100	222	44	8	209	32
30....	6	17	5	6	....	....	105	192	33	5	95	29
31....	6	....	21	15	....	....	....	257	....	3	20	....
Total	17	288	404	397	....	....	....	7832	2663	1333	2224	742
Mean.	0.55	9 6	13	12.8	20	40	75	253	88.8	43	71.7	24.7
Max..	6	20	21	36	....	....	....	501	161	337	317	46
Min...	0	6	5	5	....	....	....	99	24	3	1	6
Acre-ft.	34	571	799	787	1110	2460	4460	15600	5280	2640	4410	1470

Discharge of Mancos River near Towaoc for Year Ending Sept. 30, 1924.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	27	20	27	38	20	30	18	315	27	0	0	0
2....	25	20	25	26	20	30	20	508	25	0	0	0
3....	24	19	21	20	25	30	37	325	21	0	13	0
4....	23	19	24	20	25	30	48	720	34	0	40	0
5....	22	19	21	37	25	25	99	558	28	0	27	0
6....	21	19	19	30	25	25	135	397	26	0	12	0
7....	20	19	14	25	25	25	172	425	20	0	6	0
8....	20	20	23	20	30	25	238	630	29	0	0	0
9....	19	20	20	15	32	25	187	372	24	0	0	0
10....	18	23	20	12	30	25	187	238	22	0	0	0
11....	18	460	21	12	30	25	199	184	19	16	0	0
12....	18	68	24	12	30	25	172	199	18	48	0	0
13....	18	47	27	12	30	25	164	190	16	1	0	0
14....	20	33	33	12	30	25	126	216	1	0	84	0
15....	19	32	42	12	30	25	263	190	0	0	20	0
16....	18	30	32	12	30	23	290	193	0	0	3	0
17....	18	28	31	12	30	23	285	187	0	0	0	0
18....	18	27	37	12	30	23	184	213	0	0	0	0
19....	18	26	42	12	30	22	156	206	0	0	0	1
20....	17	25	48	12	30	22	99	184	0	0	0	1
21....	17	25	66	15	35	22	105	178	0	0	0	1
22....	17	23	78	15	35	21	184	159	0	0	0	1
23....	18	23	48	15	35	20	290	110	0	0	0	1
24....	19	22	56	15	30	19	372	98	0	0	0	1
25....	20	23	44	15	30	18	251	95	0	0	0	1
26....	21	23	66	20	30	16	320	86	0	0	0	2
27....	20	21	52	20	30	20	213	81	0	0	0	2
28....	20	19	44	20	30	20	190	60	0	0	0	2
29....	19	18	56	20	30	18	238	58	0	0	0	2
30....	19	16	40	20	....	16	120	58	0	0	0	2
31....	19	....	27	20	....	16	....	38	....	0	0	....
Total	610	1186	1128	568	842	714	5382	7471	310	65	98	17
Mean.	19.7	39.5	36.4	18.3	29	23.8	179	241	10.3	2.10	3.16	0.57
Max..	27	460	78	....	....	....	372	720	34	48	84	2
Min...	17	16	14	....	....	....	18	38	0	0	0	0
Acre-ft.	1210	2350	2240	1130	1670	1410	10700	14800	613	129	194	34

Unless otherwise noted, all discharges are in cubic feet per second.

Discharge of Mancos River at Mancos, Colo., for Year Ending Sept. 30, 1923.
Drainage Area, 83 Square Miles. Altitude, 6,996 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	2	3	5	....	....	10	69	160	219	62	29	23
2....	2	3	5	....	....	10	62	219	234	55	12	23
3....	2	4	5	...	....	10	45	335	252	43	12	19
4....	2	5	5	....	....	10	32	418	252	43	15	15
5....	3	5	5	....	....	10	43	450	203	43	15	15
6....	3	4	5	....	....	10	43	389	174	32	12	23
7....	3	4	8	....	....	10	62	585	203	43	10	15
8....	2	4	7	....	....	10	49	620	147	43	10	15
9....	3	4	5	....	....	10	49	657	114	43	15	15
10....	3	4	10	....	....	10	55	657	161	43	43	10
11....	3	4	8	....	....	10	55	482	174	32	32	10
12....	3	4	8	....	....	10	69	418	189	32	49	10
13....	3	5	5	....	....	10	69	335	174	55	43	10
14....	3	4	5	....	....	12	85	270	160	38	43	10
15....	3	4	5	....	....	10	77	219	136	49	94	10
16....	3	4	5	....	....	10	94	203	136	37	103	10
17....	3	4	5	....	....	10	114	290	136	27	94	15
18....	3	4	5	....	....	12	136	335	124	23	170	23
19....	3	4	5	....	....	12	136	360	114	23	85	23
20....	3	4	5	....	....	12	103	482	103	13	85	15
21....	3	5	5	....	....	10	103	450	69	15	85	15
22....	3	5	5	....	....	8	85	290	55	43	85	13
23....	2	5	5	....	....	10	77	214	49	27	62	23
24....	3	5	5	....	....	10	85	310	62	19	55	28
25....	3	5	5	....	....	10	85	335	49	23	55	28
26....	2	4	5	....	....	10	85	418	77	15	49	23
27....	2	4	5	....	....	23	103	450	77	10	32	32
28....	2	4	5	....	....	32	103	335	69	10	32	23
29....	2	5	5	....	....	43	174	310	55	10	23	23
30....	2	5	5	....	....	55	189	310	62	7	28	15
31....	3	....	5	....	....	62	....	284	....	5	23	....
Total	82	128	171	....	....	481	2539	11545	4029	963	1500	532
Mean.	2.65	4.27	5.5	....	....	15.5	84.6	372	134	31.1	48.4	17.7
Max..	3	5	10	....	....	62	189	657	252	62	170	32
Min...	2	3	5	....	....	10	37	160	49	5	10	10
Acre-ft.	163	254	338	....	....	953	5030	22900	7970	1910	2980	1050

Discharge of Mancos River at Mancos, Colo., for Year Ending Sept. 30, 1924.
Drainage Area, 83 Square Miles. Altitude, 6,996 Feet Above Sea Level.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1....	12	3	3	8	12	10	25	157	44	21	8	1
2....	10	3	5	8	12	10	33	157	50	18	5	1
3....	10	3	5	6	12	10	57	299	80	15	3	1
4....	10	3	2	6	10	10	89	370	89	15	3	1
5....	10	3	2	6	12	8	109	393	89	15	5	1
6....	6	3	2	6	10	5	109	393	89	18	5	1
7....	5	3	6	6	10	8	185	393	72	18	5	1
8....	3	3	3	6	10	10	200	485	64	21	3	2
9....	3	3	5	6	10	6	170	550	50	25	2	3
10....	3	5	3	6	10	6	170	550	50	28	2	3
11....	2	21	3	6	8	12	144	518	38	21	2	2
12....	2	8	3	6	8	5	144	425	44	21	2	2
13....	2	3	3	6	8	5	144	425	57	18	5	1
14....	2	2	6	6	18	6	218	393	57	12	2	1
15....	2	2	8	10	21	8	237	321	57	8	2	1
16....	2	2	6	10	18	10	170	321	50	6	2	1
17....	2	2	6	10	18	6	98	276	44	6	1	1
18....	2	2	6	12	8	8	89	257	38	5	2	1
19....	2	2	6	12	8	10	109	257	38	3	1	1
20....	2	2	6	10	15	6	157	299	33	3	1	1
21....	2	2	6	10	15	8	256	237	33	3	1	1
22....	2	2	5	12	15	8	321	170	33	3	1	1
23....	2	2	5	12	8	8	370	170	28	2	1	1
24....	2	2	5	15	10	8	276	170	21	2	1	1
25....	2	2	5	15	10	10	200	120	21	2	1	1
26....	2	2	8	12	10	12	170	120	21	2	1	1
27....	2	2	5	12	6	12	144	89	25	2	1	1
28....	2	2	6	12	8	21	144	80	25	33	1	1
29....	2	2	6	10	10	21	132	57	25	8	1	1
30....	3	3	6	12	....	15	144	50	25	6	1	1
31....	3	....	6	12	....	15	....	44	....	8	1	....
Total	124	99	157	286	330	297	4814	8596	1390	368	72	37
Mean.	4.00	3.30	5.06	9.23	11.4	9.58	160	277	46.3	11.9	2.32	1.23
Max..	12	21	8	15	21	21	370	550	89	33	8	3
Min...	2	2	2	6	6	5	25	44	21	2	1	1
Acre-ft.	246	196	311	568	656	589	9520	17000	2760	732	143	73

Unless otherwise noted, all discharges are in cubic feet per second.

Annual Reports

OF

IRRIGATION DIVISION ENGINEERS

FOR

1923-1924

ANNUAL REPORT IRRIGATION DIVISION ENGINEER DIVISION NO. 1, 1923

November 30, 1923.

Mr. A. J. McCune, State Engineer,
Denver, Colo.

Dear Sir: I herewith submit my report for Irrigation Division No. 1 for the year 1923.

The first use of water for direct irrigation was reported for week ending March 10, by the Highline Canal in District No. 8, and the Julesburg Irrigation District in District No. 64.

April was the driest April in the last 13 years. The precipitation was below normal and the season backward. All crops were in need of warmer weather.

The Highline Canal was shut down May 2 to supply prior appropriations in District No. 2.

A severe hailstorm near Platteville on June 6 caused much damage to crops, and the breaking of two ditches damaged about one mile of the U. P. railroad's track.

The storm conditions during the week ending June 9th were most unusual, and, after a week of cloudy and rainy weather, a rainfall for 24 hours of 2 inches was reported on June 9th. High-water reported from Districts Nos. 2, 3, 4, 5, 6 and 7.

The first use of reservoir water for irrigation, via the river, was reported for week ending July 7th.

During the flood in Cherry Creek, night of July 16th, Castlewood Reservoir was reported full and water flowing over the top of the dam. The usual false report that the dam had gone out was not lacking.

The earthen dam across the South Platte River at Lake George broke night of July 17th, water flowing over the top of the dam, causing some damage to crops below.

Storage of undecreed water in Lake Cheesman, Lake Wellington and all reservoirs in District No. 1, was allowed July 17th.

During week ending July 21st all demands for water from the South Platte River for direct irrigation or storage were supplied, and during the month of July an average of 9,000 second-feet were used for direct irrigation in Districts Nos. 1 to 9 and 64, and 32,000 acre-feet diverted for storage. During the first one-half of July, 3,000 second-feet and during the last one-half, 4,000 second-feet were diverted from the South Platte River for direct irrigation in Districts Nos. 8, 2, 1 and 64, and 23,000 acre-feet diverted for storage in No. 1 and No. 64.

Lake Cheesman was reported full July 21st.

On August 11th there was a reported shortage in District No. 1 to 500 second-feet for direct irrigation under appropriations of earlier date than January 1, 1889.

The early heavy rainfall over the South Platte water-shed saturated the ground and the run-off from the later storms was unusually heavy and rapid.

After September 15th irrigation in District No. 3 fell to 60 second-feet and storage commenced.

Since September 17th all demands for water from the South Platte River in Districts Nos. 8, 2, 1 and 64 have been supplied.

The Highline Canal in District No. 8 shut down for the season on October 12th.

From May 1 to November 1, 475,000 acre-feet were diverted from the rivers for storage in Districts Nos. 1 to 9 and 64. Some storage each month.

The precipitation during August was 3.87 inches, making an excess of 5 inches since the first of the year.

October precipitation was 3.50 inches, the wettest October since 1892.

The flood waters of this year are largely useless, for these floods are too infrequent to make the construction of reservoirs large enough to control them a paying commercial enterprise.

During November only 67,000 acre-feet of water have been diverted for storage in the division, and only the Empire Reservoir is diverting water from the South Platte River at the present time.

On the date of this report the storage capacity of the reservoirs in this division is 63 per cent filled.

I hereto attach the statutory tabulation of the annual reports of the Water Commissioners.

Respectfully submitted,

F. COGSWELL,
Irrigation Division Engineer,
Irrigation Division No. 1.

IRRIGATION DIVISION No. 1

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS FOR THE IRRIGATION SEASON OF 1923.

District	Number of Reservoirs Reported	Area of High Water Line Acres	Capacity in Acre-Feet	Quantity of Water in Reservoirs May 1, 1923, Acre-Feet	Quantity of Water in Reservoirs Nov. 1, 1923, Acre-Feet	Quantity of Water Held Over from Nov. 1, 1922. Acre-Feet
1.....	19	11,980	162,399	114,925	64,133	3,880
2 (A).....	50	8,457	142,065	53,470	62,391	0
3.....	59	10,403	161,663	44,250	81,595	5,257
4.....	15	4,393	96,564	32,564	67,862	16,356
5.....	30	2,380	36,874	34,330	25,976	2,781
6.....	30	3,865	49,147	19,652	31,458	5,648
7.....	76	.....	22,855	7,401	9,487	817

All in Castlewood Reservoir.

IRRIGATION DIVISION No. 1—Continued

8.....	1	181	3,434	3,300	3,000	518
Marston Lake not included. Used by Denver Water Co. for domestic purposes.						
9.....	17	873	11,221	10,289	5,815	0
23 (B).....	4	5,182	141,181	64,695	103,247	53,579
46.....		No annual report received.				
47.....		No annual report received.				
48.....		Three small reservoirs reported.				
64 (C).....	7	7,146	140,952	92,202	89,171	1,606
65.....	2	14	69	69	69	69
Totals...	310	54,874	968,424	477,147	544,204	90,511
Marston Lake.	...	651	19,795	356	360	525

These "Annual Reports" of the Water Commissioners include many small reservoirs not included in their weekly reports.

(A) District No. 2 includes storage in Standley Lake.

(B) District No. 23 compiled from the records of this office. No annual reservoir report received from the Water Commissioner.

(C) District No. 64 includes storage in Point of Rocks and Prewitt Reservoirs, and Julesburg Reservoir.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923.

District	(1) Maximum average daily amount of water diverted by ditches during season from natural streams for irrigation Second-Feet	(2) No. of acre-feet diverted by ditches during season from natural streams for irrigation (See "Note")	(3) Total No. of acres that can be irrigated (See "Note")	CROPS IRRIGATED. ETC. (4) Alfalfa	(5) Natural Grasses
1.....	1,520	326,221	174,500	39,890	19,400
2.....	1,476	369,241	232,284	57,298	4,510
3.....	1,627	384,672	388,140	65,075	5,465
4.....	642	137,424	141,340	37,450	305
5.....	388	80,522	103,140	23,870	3,643
6.....	683	175,142	192,895	34,875	42,560
7.....	472	145,078	114,365	38,141	3,012
8.....	463	147,946	135,437	19,254	1,296
9.....	172	50,414	22,875	7,232	1,999
23.....	Only 56 ditches reported out of 409 decreed ditches				13,350
46.....	No annual report rceeived.				
47.....	No annual report received.				
48.....	391	48,093	7,691	20	6,262
64.....	774	193,584	208,516	37,172	25,106
65.....	71	13,575	2,789	965	211
Totals...	8,679	2,071,912	1,723,972	361,242	127,111

Note: The quantities given in columns (3) to (15), represent the total acreage that can be irrigated or was irrigated, whether the ditches only used the natural flow of the streams, or only used reservoir water, or used river and reservoir water combined.

In District No. 2, 1,218 Acre-Feet additional were diverted from District No. 23, and used for direct irrigation.

In District No. 3, 35,185 Acre-Feet additional were diverted from Districts Nos. 47, 48 and 51 and used for direct irrigation.

In District No. 7, 1,512 Acre-Feet were diverted from District No. 51, and used by the Golden City and Ralston Creek Ditch, and is included in column (2).

In District No. 8, 9,217 Acre-Feet additional were diverted from District No. 23, and distributed to the Highline Canal.

5,201 Acre-Feet, from Antero Reservoir and 4,016 Acre-Feet from Lake Cheesman to the credit of Antero Reservoir.

IRRIGATION DIVISION No. 1—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923.

(6) (7) (8) (9) (10) (11)

CROPS IRRIGATED FROM CANALS IN ACRES

District	Cereals	Orchards	Market Gardens	Potatoes	Sugar Beets	Beans
1	27,250	49	40	6,105	28,180	2,720
2	78,501	532	3,993	11,310	25,682	6,520
3	95,421	2,434	2,346	40,651	48,432	1,920
4	73,640	2,065	425	4,990	16,060	685
5	47,900	619	85	422	10,115	215
6	59,975	862	1,196	2,169	20,410	766
7	40,985	4,412	14,135	770	1,460	.....
8	21,475	1,039	1,800	815	1,383	400
9	7,339	122	88	5	139	.....
23	Only 56 ditches reported.					
46	No annual report received.					
47	No annual report received.					
48	.....	.....	490	.....	.....	.....
64	35,187	128	278	2,868	27,175	1,605
65	106	12	35	34	.....	.....
Totals	487,779	12,274	24,911	70,139	179,036	14,831

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923.

(12) (13) (14) (15) (16) (17) (18)

CROPS IRRIGATED FROM CANALS IN ACRES — COST DOLLARS

District	Peas	Cabbage	Other Crops	Total Irrigated	Superintendence	Repairs	Improvements
1	....	....	19,515 (A)	143,149	.....	.....	.....
2	409	5,553	15,676	209,984	36,722	92,135	19,640
3	650	2,101	2,445	266,940	.....	.....	.....
4	1,115	1,340	2,700	140,775	22,478	20,595	700
5	650	225	2,790	90,526	.....	42,000	.....
6	994	1,438	3,260	168,505	22,370	50,510	31,875
7	....	805	740	104,460	.....	.....	.....
8	....	....	915	48,377	29,468	15,857	815
9	....	18	2,928	19,870	4,205	1,510	6,950
23	Only 56 ditches reported			13,350	.....	.....	.....
46	No annual report received.						
47	No annual report rceeived.						
48	....	....	.....	6,772	.....	520	.....
64	....	160	16,586	146,265	18,636	38,980	22,038
65	....	....	148	1,511	1,325	2,512	286
Total	3,818	11,640	67,703	1,360,484	135,204	264,619	82,304

(A) In District No. 1 an additional acreage of 7,980 acres was reported as irrigated in 1922, from reservoirs on the small tributaries, but no inspection was made of this acreage during 1923, and no information as to acreage irrigated from these reservoirs, if any, during 1923.

ANNUAL REPORT IRRIGATION DIVISION ENGINEER DIVISION No. 1, 1924

November 24, 1924.

Mr. M. C. Hinderlider, State Engineer,
Denver, Colorado.

Dear Sir: I herewith submit report for Irrigation Division No. 1, for the year 1924.

At the beginning of March there was a deficiency of snow on the ground, but owing to the four storm periods and the low temperature during the month, there was more than the normal amount of snow on the ground at the end of the month and the ground was well saturated with moisture.

These snows furnished covering for grains, but the excess moisture of the ground delayed farming operations.

The dry condition existing during the latter part of April and most of May produced a shortage of water for direct irrigation, and on May 19 orders were sent to Districts Nos. 2 to 9 and 23 to shut out appropriations of later date than January 1, 1889, to supply 1,888 appropriations in District No. 1.

This shortage was of short duration as the unusually severe storm all over the South Platte drainage on May 26 and 27, ranging from 1.42 inches at Denver to 0.56 of an inch at Sterling, supplied all demands for direct irrigation and on May 27 orders were sent to store water in any reservoir not full.

Owing to the saturated condition of the ground from the storms of March, the run-off was excessive and 49,000 acre-feet were stored in June.

On June 24th, orders were issued to shut our appropriations of later date than January 1, 1886, to supply the demands for 1885 water.

On July 2, the first call was made for 1879 water from the Highline Canal in District No. 8.

June was the driest June of record; July the third driest July and August the second driest August of record, while the summer was the driest of any previous summer of record.

On September 22, orders were sent to Districts Nos. 1 to 9 to store water in decreed reservoirs.

The shortage of water from the South Platte River for direct irrigation, only extended from June 24 to September 22, and required no more close attention to the distribution of water by the water commissioners, than they are required to give during any shortage of water, as the law requires that they shall devote their entire time, when necessary, to the distribution of water and be actively employed on the stream.

No complaints were received by this office relative to the distribution of water except from Districts No. 1 and No. 2, and

they were based upon the loss of water by decreed ditches, due to running reservoir water over a dry and sandy river bed.

The burden of proof lies with the party making the mixture and ditch appropriations from the river should not be penalized.

In spite of the dry season irrigated crops show good yields of fine quality.

Sugar beets are reported to contain more sugar content with an increase of tonnage per acre.

This higher percentage of sugar in the beets may be due to the dry weather and continuous sunshine during the summer, provided reservoir water was available for the necessary irrigation.

During September, 30,000 acre-feet of water were stored, which amount has only been exceeded twice since 1908, the average for the other thirteen years was 4,000 acre-feet.

This storage in September was due to the fact, that in order to reduce the amount of water to by-pass at the site of the new diversion dam under construction for the Empire Reservoir, there was no demand made upon the upper districts by District No. 1, for water for late irrigation.

If we assume that the quantity of water stored in the ground, and carried into the following year will be small if the rainfall has been small during the last month or two, thus allowing the excess to drain off, the prospect for storage of water during the coming winter months is not very favorable.

On the date of this report the storage capacity of the reservoirs in the division is only about 30 per cent filled.

On October 11, this office was asked for a ruling relative to storage of water in a reservoir of senior date and thus deprive a ditch of junior date of water for direct irrigation.

It was ruled by this office that direct irrigation is senior to storage under the law as stated in Section 1682, C. L. of 1921, that reservoirs may store "water not needed for immediate use for domestic or irrigation purposes." We must assume that this law is constitutional until such time as a Court may attack it.

In District No. 2, under this order, storage of 1885 water was shut down and direct irrigation under a 1907 ditch appropriation was allowed.

It is also necessary to repeat certain other orders that have heretofore been issued by this office and overruled, but are again in active operation.

Ditch appropriations for direct irrigation must not be diverted for storage in reservoirs without an order from the District Court. The right to store water must be measured by the right to divert water for storage, and not by the physical condition of a ditch.

No change in point of diversion can be allowed without an order from the District Court.

Water wasted into the river from a ditch belongs to the general supply of the river and is to be distributed to the ditches in accordance with their decreed dates of appropriation.

Seepage water and leakage from ditches and reservoirs, which in their natural course flow to the stream and mingle therewith, belong to the general supply of the river and must be distributed to the ditches in accordance with their decreed dates of appropriation.

I hereto attach a tabulation of the annual reports of the water commissioners.

Respectfully submitted,

F. GOGSWELL,
Irrigation Division Engineer,
Irrigation Division No. 1.

IRRIGATION DIVISION No. 1

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORTS FOR THE IRRIGATION SEASON OF 1924.

District	Number of Reservoirs Reported	Area of High-Water Line Acres	Capacity in Acre-Feet	Quantity of Water in Reservoirs May 1, 1924 Acre-Feet	Quantity of Water in Reservoirs Nov. 1, 1924 Acre-Feet	Quantity of Water Held Over from Nov. 1, 1923 Acre-Feet
1	24	12,072	164,025	124,247	25,482	64,133
2 (A)....	43	8,440	138,311	99,470	14,827	62,391
3	67	10,532	161,074	126,263	34,052	81,595
4	22	4,831	100,600	84,342	39,521	67,862
5	67	2,461	39,502	38,076	8,219	25,976
6	30	3,705	50,583	44,813	12,852	31,458
7	54	1,513	20,005	12,127	1,114	9,487
		All in Castlewood Reservoir				
8	1	181	3,434	3,366	175	3,000
	Marston Lake not included. Used by Denver Water Co. for domestic purposes					
9.....	17	873	11,221	11,221	1,968	5,815
23 (B)....	4	5,182	141,181	107,823	64,145	103,247
47.....			No reservoirs reported			
48	3	.....	450	149	149	.....
64 (C)....	9	7,156	141,628	117,520	43,599	89.171
65	3	64	528	69	184	69
Totals ...	344	57,010	972,542	769,486	246,287	544,204
Marston Lake		652	19,795	16,104	10,044	360

These "Annual Reports" of the Water Commissioners include many small reservoirs not included in their weekly reports.

(A) District No. 2, includes storage in Standley Lake.

(B) District No. 23, compiled from the records of this office. No annual reservoir report received from the Water Commissioner.

(C) District No. 64 includes storage in North Sterling or "Point of Rocks" and Prewitt Reservoirs and Julesburg Reservoir.

IRRIGATION DIVISION No. 1—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

District	(1) Maximum Average daily amount of water diverted by ditches during season from natural streams for irrigation Second-Feet	(2) No. of Acre-Feet diverted by ditches during season from natural streams for irrigation (See "Note")	(3) Total No. of acres that can be irrigated (See "Note")	CROPS IRRIGATED, ETC. (4) Alfalfa	(5) Natural Grasses
1	1,044	237,336	198,340	43,945	20,540
2	1,335	308,995	233,124	56,583	4,303
3	1,430	343,063	388,140	83,915	5,490
4	634	132,022	141,380	36,745	270
5	521	82,295	95,548	21,381	3,272
6	825	150,426	198,024	34,995	50,080
7	500	149,284	118,195	37,811	2,475
8	475	117,070	137,044	20,623	1,373
9	176	42,498	21,752	6,020	3,110
23	1,200	105,036	30,430	.....	30,430
47	Only 28 ditches reported out of 411 decreed ditches.				
48	357	42,789	7,991	.....	6,910
64	934	191,665	189,268	36,204	29,622
65	75	13,794	3,114	978	146
Totals	9,506	1,916,273	1,762,350	379,200	158,021

Note: The quantities given in columns (3) to (15) represent the total acreage that can be irrigated or was irrigated, whether the ditches only used the natural flow of the streams, or only used reservoir water, or used river and reservoir water combined.

In District No. 1, 5,852 Acre-Feet additional were diverted from Districts No. 2, No. 5 and No. 64, and used for direct irrigation.

In District No. 2, 9,340 Acre-Feet additional were diverted from District No. 23, and used for direct irrigation, and 7,236 Acre-Feet from District No. 5.

In District No. 3, 21,262 Acre-Feet additional were diverted from Districts Nos. 47, 48 and 51, and used for direct irrigation.

In District No. 7, 88 Acre-Feet were diverted from District No. 51 and used by the Golden City and Ralston Creek Ditch, and is included in column (2).

In District No. 8, 36,084 Acre-Feet additional were diverted from District No. 23 and distributed to the Highline Canal and Denver Water Works.

13,412 Acre-Feet from Antero Reservoir and 22,672 Acre-Feet from Lake Cheesman.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

District	(6) Cereals	(7) Orchards	(8) Market Gardens	(9) Potatoes	(10) Sugar Beets	(11) Beans
	CROPS IRRIGATED FROM CANALS IN ACRES					
1	33,360	4,078	580	4,329	28,947	2,155
2	72,449	552	4,044	11,029	33,457	7,923
3	75,288	2,417	3,009	32,974	52,722	3,109
4	70,180	2,085	425	5,125	21,520	865
5	47,109	597	295	443	11,922	220
6	54,740	850	1,061	2,751	20,730	711
7	41,732	4,096	13,740	730	1,795	365
8	21,344	1,141	1,725	873	1,511	400
9	5,283	186	90	....	100	....
23	Only 74 ditches reported out of 409 decreed ditches					
47	Only 28 ditches reported out of 411 decreed ditches					
48	.....	....	....	....	....	....
64	41,886	118	414	2,785	27,501	528
65	106	12	23	6	30	15
Totals	463,477	16,132	25,406	61,045	200,235	16,291

IRRIGATION DIVISION No. 1—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	CROPS IRRIGATED FROM CANALS IN ACRES				COST DOLLARS		
District	Peas	Cabbage	Other Crops	Total Irrigated	Superintendence	Repairs	Improvements
1	3,520	135	19,288	160,877	31,565	250	33,300
2	489	4,908	13,785	209,522	46,595	51,290	35,235
3	1,500	3,064	3,452	266,940	.....	.....	.....
4	1,095	1,360	1,606	141,276	22,050	5,000	2,000
5	365	120	1,781	87,505	10,980	29,985	.....
6	1,001	1,168	2,346	170,433	16,300	43,390	24,550
7	276	1,422	151	104,595	10,105	29,132	11,820
8	....	.....	1,086	50,076	39,250	10,420	1,062
9	....	60	1,924	16,773	4,477	10,862	1,875
23	Only 74 ditches reported			30,430	409 Decreed ditches		
47	Only 28 ditches reported out of 411 decreed ditches						
48	....	.....	.....	6,910	.....	.....	.....
64	6	.....	9,415	148,479	31,951	39,025	16,630
65	....	.....	104	1,420	1,394	2,552	488
Totals	8,252	12,237	54,938	1,395,236	214,667	221,906	126,960

ANNUAL REPORT IRRIGATION DIVISION ENGINEER DIVISION No. 2, 1923

Pueblo, Colo., Nov. 30, 1923.

A. J. McCune, State Engineer,
Denver, Colorado.

Dear Sir: I herewith submit to you my annual report for the season ending Nov. 30, 1923.

The dryness of the 1922 season extended into the year 1923 until June 1. The precipitation from January 1, until June 1, 1923, was 2.65 inches which was a shortage of 2.14 inches for the period. During the month of June the drought was broken and there was an abundance of water for irrigation and storage during the remainder of the season. On November 30 the total precipitation for the year to date had been 17.03 inches which was an excess above normal of 5.54 inches. To one who is familiar with the relation of runoff to the irrigation supply it can readily be seen that there was an abundance of irrigation water after the rains started.

The growing season up to June 1 was dry and cold, and was very backward. The first cutting of alfalfa was much below normal and all plant life was below normal in growth. After the rains started and the temperatures became normal plant life made a rapid growth and where there was an opportunity soon reached a condition above normal.

On May 1, 1923, the amount of water in the storage reservoirs available for irrigation amounted to 42,400 acre-feet, which was the lowest amount in the reservoirs for many years. This storage water was all run out during the month of May and on June 1 the storage supply was exhausted.

After the drought was broken there was storage water during every month of the season. All canals were supplied to the extent of their demands and on November 30 practically all the reservoirs were again filled to their capacity. There was in storage on November 30 for use during the season of 1924, 319,000 acre-feet of water and those reservoirs which had not entirely filled have a good chance of securing all the water desired during the winter storage season. The outlook for irrigation water for another season is encouraging.

The crops grown under irrigation have on the whole been good. Some of the crops were short owing to the dryness of the early part of the growing season while other crops that mature later in the season have been above the average.

The reports of the Water Commissioners of this Irrigation Division show somewhat less area under irrigation than last year. This discrepancy is probably due to inaccurate methods of collecting data.

The total area under irrigation is given as 709,566 acres. The total in alfalfa is given at 198,600 acres. The total in cereals is 149,850 acres. Sugar beets are given at 16,650 acres, and the total irrigated is given as 517,721 acres.

In the mountain sections head lettuce and cauliflower are receiving considerable attention as crops giving the farmer greater returns per acre. In Water District No. 11, 94 car loads of head lettuce were shipped out during the season of 1923. In Water District No. 13, 332 acres of head lettuce were grown and in Water District No. 12, 94 acres were grown. In all the mountain sections some head lettuce is grown.

In the plains sections the farmers are giving considerable attention to the growing of corn as a crop requiring less water and having a longer planting and harvesting season.

The farmers are slowly recovering from the financial depression which is general over the farming communities.

Farmers are adapting their methods and crops to new conditions. Agriculture is fundamental and essential. Monetary and industrial conditions may temporarily depress agriculture, but its recovery is essential to the general good.

We have continued to operate the river and canals with the automatic self-registers and they have given universal satisfaction. I am free to confess the results obtained have been better than I expected. I hope for the good of all that we may continue to use them.

The handling of the runs of mountain reservoir water thru the river have always been a source of disturbance and dissatisfaction. The self-registers have given us much useful information concerning the rate of travel and amount of head getting thru. By studying the charts made by the self-registers we have been able to correct certain errors in the administration of the water to the end that less disturbance of the flow was made in diverting the mountain reservoir water.

For several years past plans have been made from time to time to make a test run of mountain reservoir water to determine the loss, if any, in transit. It so happened that about April 24th of this year, the owners of the Twin Lakes desired to make a run of mountain reservoir water. Mr. Amsley, Chief Hydrographer of this division was immediately notified and things were arranged to carefully note and measure all ditches diverting water along the path of the run and also to note the inflow of all side streams enroute. The temperature was cool. Climatic conditions remained stationary during the test. There were no storms to interfere with the flow of the water. Altogether it was about as an ideal condition as could be hoped for during the time of the test. The net result of the test showed an apparent loss of ten per cent in the run from the Twin Lakes as far as Pueblo. This has been the amount we have been deducting for loss. We hope with the information that has so far been collected to administer these runs of reservoir water in such a manner as to avoid a large part of the dissatisfaction that has occurred in the past.

The work of the office has been greatly facilitated by the work of the hydrographers assigned to duty here. They have all been faithful and efficient and have greatly assisted wherever possible. The hydrographers, under Mr. Amsley's direction, have collected a large amount of data that has a great scientific value and can be used to determine future irrigation developments and thus save a loss of money thru ill-advised investments.

On August 24, the large dam on the Apishapa Creek failed by percolation of the water thru the earth of the dam. It had not apparently been well settled in the construction of the dam. Ample warning of the failure was given to all in the path of the flood so that no lives were lost. Much damage was done to property in the path of the flood which could not be moved.

This year marks the completion of the new dam of the Brush Hollow reservoir which will now supply water to lands formerly supplied by the Schaffer reservoir. Errors in the design of the dam of the Schaffer reservoir have been avoided and it is expected that the new dam will give service for all time to come.

Irrigation development during the present agricultural depression is slow but the knowledge gained is of value and progress is being made at all times which will become apparent when the knowledge gained is put to practical use.

In conclusion I wish to thank you, your office force, the hydrographers assigned to duty here and the Water Commissioners of this irrigation Division for their hearty co-operation during the past season.

Respectfully submitted,

C. W. BEACH,
Division Engineer of Irrigation,
Division No. 2.

IRRIGATION DIVISION No. 2

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

No. of District	Amt. of Appro. in Sec.-ft.	Capacity of Ditches in Sec.-ft.	Length of Main Ditches in Miles	Length of Laterals in Miles
10	724.7	.....	215.45	....
11	779.63	2,298.4	574	180
12	729.72	.....	.....	....
13	480.87	.....	208.10	....
14	2,025.66	3,556	469.3	....
15	201.31	267.9	90.5	....
16	901.89	.....	.....	....
17	5,800.78	8,833	365.5	....
18	.....	273.6	54.5	66.5
19	2,575.7	1,497.8	403.15	....
49	.....	.....	.....	....
66	.....	.....	.....	....
67	1,471.2	1,670	225	284
	15,690.93		2,605.4	

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

No. of District	First day water was diverted from natural stream for irrigation	Last day water was diverted from natural stream for irrigation	Maximum No. of days water diverted from natural stream for irrigation	Maximum No. of days water carried from reservoirs
10	Feb. 20	Oct. 30	120	..
11	May 1	Nov. 1	135	..
12	Nov. 1, 1922	Oct. 31, 1923	361	63
13	April 10	Aug. 29	170	8½
14	Nov. 1, 1922	Oct. 31, 1923	346	..
15	Feb. 1	Oct. 15	219	..
16	Nov. 17, 1922	Oct. 31	196	..
17	Nov. 1, 1922	Oct. 31	346	30
18	Mar. 27	Sept. 22	48	..
19	Nov. 1, 1922	Oct. 31, 1923	185	81
49	.....	.....	...	..
66	.....	.....	...	..
67	Jan. 1, 1923	Oct. 31, 1923	285	40
	Nov. 1, 1922	Oct. 31, 1923	346	81

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

No. of District	Amount of water carried from reservoirs in acre-ft.	Avge. daily amt. water diverted by ditches from streams during season in cu. ft. per sec.	No. of acre-ft. diverted by ditches during season from natural streams	Total No. of acres that can be irrigated
10	.....	205.50	29,384	40,835
11	.....	588.55	210,450	33,310
12	399	.....	184,097	35,557
13	59½	264.97	41,300	19,759
14	.....	774	96,827	108,865
15	.....	91.47	8,040	12,474
16	.....	610.42	219,518	44,883
17	46,652	1,070.5	249,477	276,561
18	.....	147.42	5,813.10	7,736
19	17,000	.....	.....	64,746
49	.....	.....	.....	.....
66	.....	.....	.....	.....
67	9,357	431	112,942	64,840
		4,183.8	960,282	709,566

IRRIGATION DIVISION No. 2—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

No. of District	Alfalfa	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes	Sugar Beets
10	5,953	4,414	1,143	162	139	...	119
11	5,411	8,217	4,387	86	55	274	.....
12	8,737	1,751	4,676	3,948	589	44	.....
13	1,946	13,931	3,486	5	5	11	.....
14	53,240	9,815	28,615	1,702	2,243	...	9,295
15	3,129	2,225	639	38	12.5	...	10.5
16	19,139.91	633	4,506	201	24	1	427.
17	52,204	11,078	72,732	888	775.	80.	13,439
18	3,716	515	1,172	3	...	...	1
19	19,279	12,224	6,233	96	388	14	88
49	....	....	....	....	....	...	....
66	....	....	....	....	....	...	....
67	25,855	3,053	22,260	336	245	9	3,268
Totals	198,610	67,856	149,849	7,465	4,475	433	16,648

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

District No.	Corn	Head Lettuce	Beans	Melons	Other Crops	Total Irrigated	Cost of Superintendence	Cost of Repairs	Cost of Improvements
10	...	...	6	...	2,667	14,593	$	$ 6,825 00	$ 1,000.00
11	126	102	89	...	2,342	21,741	2,375 00	.....	2,100.00
12	...	94	84	...	1,672	21,615	5,739.00	18,167.00	1,000.00
13	...	332	...	...	43	19,759	.....	672.00	.....
14	...	...	...	5,400	6,045	111,887	8,000.00	7,250.00	.....
15	1,485	...	...	...	1,213	7,734.25	.....	.....	4,170.00
16	...	...	411	...	4,135	26,957	11,745.68	14,786.86	10,511.60
17	...	...	609	...	24,237	176,773	47,318.00	79,472.00	11 515.00
18	...	...	...	...	48	5,455	.....	.....	.....
19	...	...	1,777	...	13,549	53,648	20,980.00	46,004.00	90,700.00
49	...	...	...	...	....	.....	.....	.....	.....
66	...	...	...	...	....	.....	.....	.....	.....
67	...	...	196	...	4,019	57,559	11,740.00	1,944.00	600.00
Totals	1,611	528	3,172	5,400	59,970.	517,721			

ANNUAL REPORT IRRIGATION DIVISION ENGINEER DIVISION NO. 2, 1924

Pueblo, Colo., December 26, 1924.

M. C. Hinderlider, State Engineer,
Denver, Colorado.

Dear Sir: I herewith submit to you my report for the irrigation season ending November 1, 1924.

The fall of 1923 was remarkable for the amount of rain and snow that fell. The snowfall in the mountains was one of the largest that has occurred for several years. The runoff from the melting snows was abundant during the 1924 season and was a great help to the farmers. The abundant precipitation in the latter part of the 1924 season was followed by an extreme dryness during the growing season of 1924 and had it not been for the large amount of reservoir water that was stored in 1923 and the increase in the runoff from the melting snows in 1924 the farmers would have suffered badly from lack of irrigation water.

The total precipitation from January 1, 1924, to November 1, 1924, following was 5.90 inches. The average precipitation for the same period is 11.12 inches. The deficiency is 47 per cent below normal. To one who is familiar with the relation of precipitation to runoff it can readily be seen that the streams must have been low and the irrigation water scarce.

The growing season started off cold and backward. Crops were about two weeks behind on account of the cold weather. The fall of 1923 was wet and the soil went into the winter with an abundance of moisture in it. All reservoirs were filled during the winter that were not full in the fall and frequent and severe storms put plenty of snow in the mountains.

The abundance of reservoir water, snow in the mountains and the large water content of the soil is what carried crops through the season of 1924 during one of the driest seasons known here for years. The season of 1924 was even dryer than the season of 1922.

The crops grown this year have been of excellent quality, although under some ditches they have been a little below the average in yield due to the shortage of irrigation water. The sugar beet crop shows an excellent content of sugar which is attributed to the dry season. The yield per acre is good and better than was expected. The hay crop is most excellent in quality as it was practically put up without having been rained upon. The wheat crop was high in yield and tested over sixty pounds per bushel. The corn crop is good. Lettuce and cauliflower continue to be good crops in the mountain sections. The cantaloup crop was unexcelled in quality, the yield was good and price high.

There was a total of 453,686 acre-feet of water stored in the reservoirs on May 1, 1924, and there was left over 140,732 acre-feet of water on November 1, 1924. The difference between these two amounts does not represent the true amount of reservoir water that was used on the crops. A considerable amount of reservoir water was used in the spring of 1923 and the reservoirs were again filled during the runoff of snow water. The great value of reservoirs has again been demonstrated. I cannot emphasize too much the advantage of having water stored to be used at times of greatest need. This year we had the spectacle of ditches with old decrees being dry for a considerable period of time and junior ditches with reservoir water running at the time of greatest need. It was a strong demonstration of the value of reservoir water. Storage reservoirs equalize the flow of the streams from year to year and month to month. They conserve the waters at times of great abundance and let it out again at times of greatest need.

Prices for farm products are better than a year ago. It would appear that we have passed the time of greatest depression in values of the farmers' crops and that a brighter light shines ahead.

We have continued to operate the river with the aid of the self-registers and I cannot speak too loudly in praise of them. We have been able to give better service which has the effect of estab-

lishing confidence among the canal owners. The self-registers have become a necessity.

I attach herewith a tabulated statement which gives the area irrigated and the various crops grown in this Irrigation Division. This information was gathered by the Water Commissioners of this Division and is contained in their reports to this office. The record is not quite complete owing to the fact that the Water Commissioner of District No. 16 did not get up an accurate report on the area of crops grown. The report he submitted was grossly in error and was returned to him.

I desire to thank yourself and all others connected with the Irrigation service for the valuable assistance given this office in the distribution of the waters for irrigation.

Respectfully submitted

C. W. BEACH,
Division Engineer of Irrigation,
Division No. 2.

RESERVOIR REPORT, 1924

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT FOR 1924

No. of District	Number of Reservoirs	Capacity in Acre-Feet	Quantity Water in Reservoirs May 1, 1924 Acre-Feet	Quantity Water in Reservoirs Nov. 1, 1924 Acre-Feet	Quantity Water Held Over From Nov. 1, 1923 Acre-Feet
10	15	.....	.....	.....	.....
11	3	90,484	90,484	13,405	90,484
12	6	.....	1,580	2,033	1,414
13	1	2,570	2,570	370	2,570
14	3	39,495	39,495	17,059	35,369
15	1	939	905	53	252
16	3	96,390	60,312	25,100	60,312
17	4	117,736	110,089	2,145	96,647
18	1	3,400	1,778	227	1,778
19	1	13,450	8,890	.....	9,700
67	4	264,000	150,500	75,000	97,041
Totals			466,603	135,392	395,567

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

No. of District	Amount Appropriat in Sec. Ft.	Capacity of Ditches in Sec. Ft.	Length of Main Ditches in Miles	Length of Laterals in Miles	First Day Water Diverted from Natural Stream for Irrigation	Last Day Water Diverted from Natural Stream for Irrigation
10	695.12	.....	216.7	.....	April 1	Oct. 15
11	713.2	2,633.7	652.0	.....	May 1	Nov. 1
12	1,015.12	.....	....	.....	Nov. 1, 1923	Oct. 31, 1924
13	408.83	.....	....	245.35	Mar. 5	Sept. 30
14	1,890.66	1,926	221.9	.....	Nov. 1, 1923	Oct. 31, 1924
15	201.35	267.9	88.75	.....	April 1	Oct. 31
16	1,236.38	3,712	918	.....	Mar. 1	Sept. 30
17	5,826.98	.....	345	600	Nov. 1, 1923	Oct. 31, 1924
18	298.9	.....	54.5	.....	April 2	Aug. 26
19	1,494.8	.....	362	.....		
49	.....	.....	.....	.....		
66	.....	.....	.....	.....		
67	1,470	1,689	269	203	Nov. 1, 1924	Oct. 31, 1924

IRRIGATION DIVISION No. 2—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

No. of District	Maximum No. of Days Water Diverted From Natural Stream for Irrigation	Average Daily Amount Water Diverted by Ditches From Stream During Season	Number of Acre-Feet Diverted During Season From Natural Stream	Total Number Acres That Can Be Irrigated
10	149	192.65	29,497	39,330
11	135	376.2	192,512	27,278
12	363	.....	211,391	37,350
13	150	305.84	60,859	20,932
14	355	.....	.....	125,145
15	183	.....	.....	13,655
16	216	892.6	133,383	94,859
17	355	.....	.....	280,248
18	85	.....	.....	6,375
19	...	.....	.....	65,132
49	...	.....	.....	.....
66	...	.....	.....	.....
67	228	.....	119,594	61,760

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

No. of District	Alfalfa	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes	Sugar Beets
10	6,206	3,745	1,027	128	172	...	216
11	5,735	8,398	3,986	95	299	235	275
12	8,737	1,927	6,060	3,804	350	13	.....
13	1,891	14,743	4,061	17	27	19	.....
14	48,000	5,905	25,285	1,607	2,245	...	13,825
15	3,504	2,287	1,639	33 5	9.75	1	30
16	38,008	12,174	8,642	78	4,007	883	334
17	55,117	7,773	41,899	1,263	550	11	17,881
18	2,745	400	737	.....	.....	...	.....
19	18,219	685	6,195	78	387	4	357
49	....	.....	.....	.....	.....	...	.....
66	....	.....	.....	.....	.....	...	.....
67	25,885	2,928	16,727	285	238	1	4,528

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

No. of Dist.	Head Lettuce	Beans	Melons	Other Crops	Total Irrigated	Cost of Superintendence	Cost of Repairs	Cost of Improvements
10	...	....	....	1,937	16,867	$ 4,030	$ 2,570.00	$.....
11	...	46	....	1,901	21,084	1,813	.....	1,661.00
12	99	109	....	2,549	23,644	.....	.....	.....
13	143	....	....	....	20,932	.....	.....	.....
14	...	1,575	....	16,305	115,144	21,175	28,357.00	2,200.00
15	...	35	....	8,720	.....	.....	.....	11,510.00
16	...	....	....	7,244	70,299	.....	.....	.....
17	...	1,662	....	38,197	164,491	23,070	63,973.00	41,910.00
18	...	....	....	....	3,882	.....	.....	.....
19	...	2,521	7,393	4,531	40,370	17,960	15,417.00	62,015.00
49	...	....	....	....	.....	.....	.....	.....
66	...	....	....	....	.....	.....	.....	.....
67	...	208	....	5,166	55,968	7,625	19,764.74	.....

ANNUAL REPORT OF IRRIGATION DIVISION ENGINEER, DIVISION NO. 3, FOR THE YEAR 1923

Alamosa, Colorado, December 1, 1923.

Hon. Addison J. McCune,
State Engineer,
Denver, Colorado.

Dear Sir: I hand you herewith my annual report for the fiscal year ending November 30, 1923, on ditches and resorvoirs in Irrigation Division No. 3, comprising the eight districts in the San Luis Valley, and covering the drainage basin of the Rio Grande Del Norte and its tributaries in the State of Colorado.

There has been no shortage of water for irrigation during the past season. The crop yield is about the average except potatoes which, on account of the heavy rain which began in the middle of July and continued through the month of August, showed a heavy growth of vine and a small yield of potatoes.

I am pleased to note the beginning of a better co-operation of the water users of this division through the organization of the San Luis Valley Water Users Protective Association which is now a member of the State Association. In District 20, which comprises all of the land irrigated by the Rio Grande River and all its tributaries from its source to the mouth of the Conejos contains six counties—Alamosa, Conejos, Saguache, Rio Grande, Mineral, Hinsdale—and, under the law, each county must pay its pro-rata cost of the water commissioners' salary. This, upon its face, is unjust for the mountain counties of Mineral and Hinsdale with a few hundred acres of hay land, only to be irrigated must pay just as much as counties like Rio Grande with several hundred acres of farm land. The Water Users Association, taking the above facts into consideration, asked and obtained from the commissions of the Rio Grande and Alamosa Counties the employment of any extra deputy water commissioner whose salary was paid by the two counties. Mr. Charles E. Neff was so employed and gave good satisfaction for all the water users in the two counties.

Field Commissioner Miles Cannon and Chief Engineer F. E. Weymouth of the Reclamation Service, in company with Ralph I. Meeker, Special Deputy State Engineer, spent a week during this month in the valley making a study of the water situation, both regarding the storage of water and drainage. The people of the valley are in hopes that the embargo against the building of reservoirs and the storage of water may be removed as a result of this study.

In conclusion, I wish to express my appreciation of the hearty co-operation of the Water Commissioners of this division and the assistance of Hydrographer Dan S. Jones, Jr.

Respectfully submitted,

E. S. COUNSELOR,
Irrigation Division Engineer,
Division No. 3.

IRRIGATION DIVISION NO. 3

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

District Number	Number of Priorities Reported	Amount of Appropriations in Sec. Feet Reported	Length of Main Ditches in Miles	Length of Laterals in Miles
20	388	$ 5,971.18	.....	....
21	89	2,877.88	269.3	....
22	188	5,732.14	218.75	....
24	64	861.87	73.11	....
25	130	522.85	95	....
26	132	5,152.00	.....	....
27	30	.....	.....	....
35	67	582.08	134.65	57.05
Total	...	$21,700.00	790.81	....

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

District Number	First Day Water Diverted from Natural Streams for Irrigation	Last Day Water Diverted from Natural Streams for Irrigation	Max. No. Days Water Diverted from Natural Streams for Irrigation
20	April 1	Oct. 15	198
21	March 7	Sept. 20	198
22	May 1	Nov. 1	184
24	April 1	Nov. 1	214
25	Jan. 1	Dec. 1	365
26	April 1	Oct. 25	208
27	April 2	Nov. 5	217
35	April 1	Nov. 1	214

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

District Number	Max. No. Days Water Carried from Reservoirs	Amt of Water Carried from Reservoirs Acre-Feet	Average Daily Amt. of Water Carried by Ditches During Season from Nat. Streams for Irrigation Second-Feet
20	120	50,612	2,095
21	...	.....	....
22	197	.....	....
24	90	19,700	....
25	...	.....	....
26	...	.....	....
27	...	.....	....
35	198	.....	....
Total	...	77,912	....

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

District Number	No. of Ac. Ft. Diverted by Ditches During Season from Natural Streams for Irrigation	Total No. Acres that Can be Irrigated	Alfalfa	Peas	Beans
20	673,885	388,100	45,365	57,192	4
21	.....	64,626	8,648.5	6,445	598.5
22	253,163	135,365	12,125	15,990	1,360
24	42,443	21,730	5,844	4,766	965
25	22,830	65,450	1,535	20	.....
26	74,020.72	117,972	2,943	42	.....
27	.....	5,795	682	553	10
35	24,007	68,395	1,958	367	53
Total	416,463.72	867,433	79,200.5	85,375	2,990.5

IRRIGATION DIVISION No. 3—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

District Number	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes	Lettuce
20	190,882	47,295	7.25	592.75	28,635	566
21	17,196	6,769	....	.....	1,892.25	...
22	53,410	27,250	....	.....	4,720	70
24	3,213	7,836	55	301	136	...
25	6,890	1,170	....	.....	35	...
26	41,596	797	....	.....	5	...
27	3,539	58	....	.....	155.5	...
35	6,063	436	1	11	39	...
Total	322,789	91,611	63.25	904.75	35,667.75	636

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

District Number	Sweet Clover	Other Crops	Total Irrigated in Acres	Cost of Superintendence
20	705	129	379,349	$5,110.00
21	....	252	41,821.25	.....
22	2,200	18,240	135,365	.....
24	....	1,055	16,794	2,125.80
25	....	.....	9,650	.....
26	....	200	45,583	.....
27	....	231	5,228.5	.....
35	....	15	8,943	.....
Total	2,905	20,122	642,733.75	$7,235.80

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1923

District Number	Repairs	Improvements
20	$56,865.00	$10,054.00
21	.....	.....
22	.....	.....
24	1,635.00	3,363.00
25	.....	.....
26	1,040.00	.....
27	1,045.00	.....
35	535.00	.....
Total	$61,120.00	$13,417.00

ANNUAL REPORT OF IRRIGATION DIVISION ENGINEER, DIVISION NO. 3, FOR THE YEAR 1924

Alamosa, Colorado, November 22, 1924.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir: As provided by statute I am herewith submitting my annual report of Irrigation Division No. 3 for the fiscal year ending November 30, 1924.

The season of 1924 was very dry; the run-off was less than any year since 1902.

This season has shown us the need of another reservoir on the Rio Grande and one on the Conejos river for the storage of flood water. This is exceedingly necessary on the Conejos, where there

is 136,840 acres under irrigation and where the discharge at the mouth of the Conejos into the Rio Grande, below all irrigation, was 230,872 acre-feet for the seven months following, March 1, 1922 (see page 163, Biennial Report, State Engineer for 1921 and 1922).

This water, a few miles below the mouth of the Conejos, passes into New Mexico and is lost to Colorado.

The Del Norte Irrigation District, comprising about 15,000 acres of land lying on the north side of the Rio Grande River, west and north of the town of Del Norte, has been formed, the bonds sold and construction commenced. The source of water supply will be the Continental Reservoir on north Clear Creek. It is understood that the reservoir will be completed next season and the canal this year.

The raising of head lettuce has become a very important industry in this division. Three hundred cars were shipped this season, for which the grower received a little over one thousand dollars per car. The raising of cauliflower, turnips and sugar beets has also brought a great deal of money into the division, the average yield of beets was twelve tons per acre, with a sugar content of 17½ per cent.

There has been very little dispute over irrigation matters this season, and one of the reasons, we believe, is that there is a better understanding and feeling between water users and water officials. It has been the custom of this office for the past several years to have the Commissioners and their deputies as our guests to a dinner and a get-together meeting. Last April we had the State Engineer with us and a great deal of help and good came from his advice and talk to the Commissioners. It is our opinion that there should be two meetings held each year, one before and one after the closing of the season and that the directors and ditch riders should be invited.

Attached hereto is a tabulated statement of the Water Commissioners' Annual Ditch and Reservoir Reports.

Respectfully submitted,

E. S. COUNSELOR,
Irrigation Division Engineer,
Division No. 3.

IRRIGATION DIVISION NO 3

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

District Number	Number of Priorities Reported	Amount of Appropriations in Sec. Feet	Length of Main Ditches in Miles	Length of Laterals in Miles
20	386	6,012.64	581	1,097
21	82	2,047.75	284.75	.....
22	188	4,970.66	228.30	.....
24	68	551.81	48	14.2
25	129	509.91	.....	.....
26	189	285.91	.....	.....
27	32	95.92	33.25	.....
35	48	500.13	142.25	92.85
Totals	1,112	14,974.64	1,317.55	1,204.05

IRRIGATION DIVISION No. 3—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

District Number	First Day Water Diverted	Last Day Water Diverted	Max. No. Days Water Diverted	Max. No. Days Water Carried from Reservoirs
20	April 1	Nov. 1	183	97
21	April 9	Sept. 1	88	63
22	April 10	Oct. 1	143	...
24	Mar. 15	Oct. 31	227	214
25	April 1	Aug. 1	120	...
26	Mar. 25	Nov. 12	281	...
27	April 1	Nov. 1	210	...
35	May 15	Nov. 15	204	172

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

District Number	Amount of Water Carried From Reservoirs (Acre-Feet)	Average Daily Amount of Water Diverted by Ditches During Season From Nat. Streams for Irrigation Sec. Feet)	No. of Acre-Feet Diverted by Ditches During Season From Natural Streams for Irrigation	Total No. Acres That Can Be Irrigated
20	74.056	2,036.30	555,637	337,767.5
21	13,951	571.85	.....	65,145
22	.....	591 50	146,720	136,840
24	.....	127.93	40,123	57,125
25	.....	291	52,160	65.800
26	.....	278.80	46,808	22,271
27		No report	No report	8,239
35	8,202.4	208.49	42,941.9	61,815
Totals	96,209.4	4.035 87	884,389.9	755,002.5

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

District Number	Alfalfa	Natural Grasses	Cereals	Orchards	Market Gardens	Potatoes	Peas
20	46,022	150,246	42,562	..	404.5	22,913	52,652
21	7,302	18,998	6,473	..	....	974.75	5,667
22	14,610	54,850	25,710	..	....	2,571	11,825
24	5,860	2,900	8,240	55	290	75	11,600
25	1,815	18,250	1,810	2	....	121	220
26	1,835	15,900	298	..	....	3	24
27	756	6,164	60	..	1	251	815
35	3,033	8,560	2,230	2	59	55	3,255
Total	81,233	275,868	87.391	59	754.5	26,963.75	86,058

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

District Number	Beans	Sugar Beets	Sweet Clover	Lettuce	Other Crops
20	256	20	3,134	833	18,725
21	259	2	....	...	1,130
22	535	31	....	27	26,681
24	800	62	....	...	2,105
25	....	...	....	...	60
26	....	...	....	...	1,706
27	3	...	....	...	145
35	145	8	....	...	240
Totals	1,998	123	3,134	860	50,792

IRRIGATION DIVISION No. 3—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR THE IRRIGATION SEASON OF 1924

District Number	Total Acres Irrigated	Cost of Superintendence	Repairs	Improvments
20	337,767.50	$ 3,102.73	$64,985.83	$6,441.13
21	40,805.75	.....	.....	.....
22	136,840	.....	.....	.....
24	31,987	1,627.60	570.00	679.00
25	22,278	.....	.....	.....
26	19,766	330.00	.....	.....
27	8,195	.....	.....	.....
35	17,539	.....	.....	.....
Totals	615,178.25	$88,301.33	$69,715.40	$7,120.13

ANNUAL REPORT OF IRRIGATION DIVISION ENGINEER DIVISION No. 4 FOR THE YEAR 1923

Montrose, Colorado, Nov. 30, 1923.

State Engineer,
Denver, Colorado.

Dear Sir: Herewith I am submitting my annual report for Irrigation Division No. 4 for the fiscal year ending November 30, 1923.

The snowfall during the winter of 1922-23 was below normal and the customary heavy spring flow of the streams did not materialize. As a matter of fact, there was, comparatively speaking, no high water. It seemed for a time that the reservoirs on the Grand Mesa watershed would not be filled and every indication pointed to a shortage of irrigation water. However, owing to the excessive rainfall, there was no shortage of water, but on the contrary an increase supply. Crops were generally good so far as yield and quality were concerned and prices better than those prevailing in 1922, except the price of fruit which was rather discouraging. Transportation facilities were much better than they had been in the last two years but excessive freight rates are most disheartening.

With our rich productive soil, abundance of water and a climate unsurpassed, if we had a market at our door, this would be one of the most prosperous sections of the country. We need a revival of mining to create a market or a readjustment of freight rates, otherwise there will be no permanent growth.

This season we traveled about 7,000 miles by auto and rode about 200 miles on horseback. There is much ditch rating to be done in Districts 33, 34, 40, 41 and some rating to be done in 28, 30 and 59. There are also many reservoir flumes to be rated. During the season we examined the following reservoirs:

Bauer Lakes, Summit, Narraguinnep, in District 34; Fruitland, Fruitgrowers, Oasis, Matt Arch, Island, Bull and Ratekin, Rim Rock, January, Deep Slough, Sheep Slough, Finney, Womack Nos 1-2, Kiser Slough, Reed, Big Doctor, Little Doctor, Granby

Nos. 1-12, Battlement Nos. 1-2, Beaver Lake, Forest, Twin, Alexander, Ward, Pedro, Harris, Prebble, Young's Creek Nos. 1-2-3, McCoon & Blanchard, Big Eggleston and Little Eggleston, Trickle Park, Military Park, Deserted Park, Vela, Cedar Mesa, Bonita and Blanche in District No. 40; Carcass Flat, Kannah Creek Nos. 1-8-9, Crane Lake, Sheep Creek, Mesa Lakes Nos. 1-2, Water Dog, Jumbo, Coon Creek Nos. 1-2-3 and Bull Creek Nos. 1-2-3 in District No. 42; Gurley and Cone in District No. 60; total 77 reservoirs.

Many of these were repaired after notice from us to do so was served on the owner. The Narraguinnep in District No. 34 needs attention. The dams of the Big Eggleston in District No. 40 and of the Summit Reservoir in District No. 34 were repaired so as to increase, to a considerable extent, the capacities of these two reservoirs.

RECOMMENDATIONS

In our report of 1915 we said:

> "What an improvement there would be in the water service of the State if the Division Engineers had in their several divisions a certain number of assignable, experienced water commissioners who could be kept constantly on duty during the irrigation season, and who, when their services were not required in one district, could be sent to another adjoining district where their services were in demand."

Also our report of 1916 contained the following:

> "That if Water Commissioners cannot be paid by the State, then they be paid by the county in which the work is performed; and all vouchers for paying Water Commissioners should first be certified by the Division Engineer. That all Water Commissioners shall be assigned to their work by the Division Engineer, and may be sent into any water district in the division."

We still think Water Commissioners should be assignable by the Division Engineers. That portion relating to certification of vouchers by the Division Engineers has since been enacted into law.

There is much friction and often serious trouble among stockholders in the same ditch, resulting in expensive litigations and loss of crops. A law should be enacted whereby the Division Engineer could designate a deputy water commissioner or ditch walker for ditches that were unable to distribute, equitably, the water among their stockholders and the ditch owners compelled to pay the cost of service so rendered to the one making the distribution.

If this office were permitted to employ a stenographer from March 1 to December 1, to look after the daily office work, the

Division Engineer would be able to do twice the amount of field work and thus make a considerable saving to the state. The three important results obtained would be service, economy and efficiency.

Attached hereto are tabulated statements of the Water Commissioners' Annual Ditch and Reservoir Reports.

Respectfully submitted,

H. C. GETTY,
Irrigation Division Engineer,
Division No. 4.

IRRIGATION DIVISION No. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1923

District Number	Ditches Reported	No. of Priorities	Amount of Appro. Cu. Ft. Per Sec.	Capacity of Canals and Ditches Cu. Ft. Per Sec.	Length of Canals or Ditches in Miles
28	265	...	560	2,000	....
29	165	...	530	1,500	....
30	166	123	449	671	240
33	37	37	655	393	100
34	50	54	1,468	1,847	121
40	323	306	2,092	3,151	903
41	50	47	2,300	3,350	398
42	296	264	4,410	4,982	582
59	176	...	800	3,700	....
60	120	...	360	650	....
61	18	16	10	77	31
62	100	...	400	.....	....
68	108	87	445	732	231
Total	1,874	934	14,479	23,053	2,606

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1923

District Number	First Day Water Was Used	Last Day Water Was Used	Average No. Days Water Was Used	Average Daily Amt. in Sec. Ft.	No. Acre Feet Used
28	.....	.....	...	500	.....
29	.....	.....	...	300	.....
30	April 10	Oct. 31	100	398	79,600
33	May 1	Oct. 2	76	170	25,840
34	June 1	Oct. 30	116	1,313	152,308
40	April 1	Nov. 30	134	1,616	460,175
41	April 1	Nov. 15	168	1,240	416,640
42	Mar. 24	Nov. 1	102	1,928	393,312
59	.....	.....	...	....	.....
60	.....	.....	...	....	.....
61	Mar. 1	Nov. 15	158	19.8	6,256
62	.....	.....	...	....	.....
68	April 1	Nov. 1	120	479	229,920
Total	Mar. 1	Nov. 30	122	7,964	1,764,051

IRRIGATION DIVISION No. 4—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1923

District Number	Number Acres Can be Irrigated	Alfalfa	Natural Grasses	Orchard	Market Gard-ending	Potatoes
28	50,000	.....	.....	.....	....	.....
29	45,000	.....	.....	.....	....	.....
30	55,690	11,879	5,783	547	80	461
33	46,194	9,955	.....	130	5	282
34	94,075	7,181	1,880	5,199	16	456
40	246,354	69,463	28,277	16,517	1,055	6,524
41	275,685	27,908	4,505	7,088	4,961	19,945
42	199,432	50,789	30,202	11,813	276	1,607
59	30,700	.....	.....	.....	....	.....
60	38,000	.....	.....	.....	....	.....
61	34,000	1,883	194	32	19	5
62	35,000	.....	.....	.....	....	.....
68	30,920	38,565	4,152	72	60	411
Totals	1,161,050	217,723	74,993	41,398	6,472	29,691

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1923

District Number	Cereals	Sugar Beets	Other Crops	Total Acres Irrigated	Superin-tendence	Repairs	Improve-ments
28	.....	.....	.....	34,000	$.....	$.....	$.....
29	.....	.....	.....	29,500	.....	.....	.....
30	7,481	11	51	26,293	3,895	11,947	4,110
33	6,860	60	520	17,672	900	.....	250
34	35,402	4	11,032	61,170	605	358	311
40	28,808	4,729	8,678	164,053	8,300	28,405	1,685
41	27,728	8,095	11,395	110,615	26,885	11,800	8,050
42	13,054	.....	15,274	101,737	26,775	16,520	6,070
59	.....	.....	.....	24,600	.....	.....	.....
60	.....	.....	.....	24,570	.....	.....	.....
61	717	.....	40	2,890	825	1,200	525
62	.....	.....	.....	15,000	.....	.....	.....
68	2,424	10	7,193	18,157	83	6,744	766
Totals	122,474	12,909	54,183	630,357	$68,268	$76,974	$21,767

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT FOR 1923

District Number	No. in District	Area of High Water Line, Acres	Capacity in Cubic Feet	Quantity of Water in Reservoir May 1
30	2	60	62,319,975	25,000,000
34	7	735	1,891,584	1,882,630
40	104	3,149	1,576,126,928	15,881,361
42	55	2,081	1,315,205,919	266,668,771
61	1	....	.....	.....
	169			

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT FOR 1923

District Number	Quantity of Water in Reservoir Nov. 1. Cu. Ft.	First Day Water Was Used	Last Day Water Was Used	Avge. No. Days Water Was Used
30	35,000,000	May 20	Oct. 20	150
34	871,850	Apr. 1	Oct. 30	145
40	15,384,154	June 18	Oct. 2	32
42	14,069,280	June 10	Oct. 20	57
61	.....	Apr. 12	Oct. 15	70

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT FOR 1923

District Number	Average Daily Amt. in Sec.-ft.	No. Acre-ft. Carried	Super-intendence	Repairs	Improve-ments
30	15	4,500	$ 650	$1,000	$ 500
34	87	25,850	1,160	520	330
40	570	36,433	5,925	800	1,350
42	72	8,200	....	....	....
61	30	4,200	815	1,185	500

The crop acreage is given under the Ditch Report.

ANNUAL REPORT OF IRRIGATION DIVISION ENGINEER, DIVISION No. 4, FOR THE YEAR 1924

Montrose, Colorado, November 22, 1924.

State Engineer,
Denver, Colo.

Dear Sir: I am herewith handing you my annual report as Irrigation Division Engineer of Division No. 4, for the fiscal year ending November 30, 1924.

Heretofore this division has been furnished a hydrographer, who kept up the river stations and assisted the Division Engineer in the work of rating ditches and canals. In the beginning of the season, at our suggestion, the hydrographer was dispensed with and the work of stream gaging, canal and ditch rating was done entirely by the Irrigation Division Engineer.

For a period of five and a half months, during the busy season, a stenographer was employed to look after the office work. This arrangement made it possible for the Division Engineer to do more field work. The State also furnished the Division Engineer with a car. In the discharge of our duties we traveled 9,000 miles by auto, made forty-eight stream gagings, keeping up throughout the season eight river stations and during the driest part of the season two extra river stations, making a total of ten river stations. We also rated about seventy-five canals and ditches and several reservoir flumes.

The snowfall in the mountains was very light during the fall and winter of 1923, and consequently there was no high water in the spring of 1924. The season was the driest that we have known for many years. The total precipitation for the year, beginning November 1, 1923, and ending November 1, 1924, was 9.35 inches. The lowest precipitation was during the month of June and the amount was .04 inches.

In the earlier part of the season a request came from your office to go to Durango and straighten out some trouble among the water users of Cherry Creek. Assisted by the hydrographer, Mr. Ingham, we held a meeting in Hesperus, of some twenty-five or thirty water users, at which meeting the difficulty was satisfactorily settled and the water users were served with notices to install adequate headgates and measuring devices. These notices were generally complied with.

For some years there has been trouble between the Mesa Creek Ditch and Reservoir Company and the Coon Creek Ditch and Reservoir Company in District No. 42. Decree had recently been issued in the District Court of Mesa County relative to this dispute. The Coon Creek Ditch and Reservoir Company appealed from the decision of the Division Engineer, but this appeal, after an investigation of your office, was dismissed. Later in the season your office sent the Chief Hydrographer, Mr. J. H. Baily, to investigate the matter and to visit the disputed territory. His visit

resulted in sustaining this office in the distribution of water as made by us. The only other controversy of any importance was caused by the scarcity of water in the Gunnison River below the mouth of the Gunnison Tunnel. This controversy arose over the fact that when water was turned from the Gunnison Tunnel to supply the earlier priorities in Delta County the water users in Delta County were unable to divert the water from the Gunnison River, owing to the fact that their dams were in bad condition, and much of the water went through the dams, causing a considerable waste of water. After a visit by the State Engineer and two conferences with the water users at Delta, one meeting before an inspection of the ditches was made and the other meeting immediately following the inspection, the matter was finally satisfactorily settled to all concerned. During the driest part of the season the Gunnison Tunnel was receiving but 400 sec. ft. of water, it being necessary to turn several hundred feet by the tunnel gate in order to supply the earlier priorities in Delta County. The State Engineer also visited the Overland Reservoir at this time, and as a result of his visit the reservoir company expended about $2,200.00 in repairs on the dam of their reservoir. This will greatly add to the safety of the reservoir and was very much needed.

The expense of distributing water in Districts 40 and 42 is very great on Delta and Mesa Counties. This expense is caused by the necessity of hiring from ten to fourteen deputies in each county to distribute the water from the numerous streams and reservoirs in these two districts. We hope that some arrangement can be made for next season to lessen this expense in some way, as it has become an excessive burden.

There are two important U. S. reclamation projects in this division, one being known as the Uncompahgre project at Montrose and the other the Grand Valley project at Grand Junction.

Mr. J. H. Baily, the Chief Hydrographer, made several visits to this division during the summer in interest of the hydrographic work.

Districts 28, 59 and 62 do not require the continuous services of a water commissioner during the season, but there are times when a water commissioner is very badly needed in each of these districts. If the law could be so changed that one water commissioner could be assigned to take care of these three districts it would result in a better distribution of the water, a less expense on the counties and we would be able to get accurate reports on acreage, crops, duty of water, etc. If District 68 were abolished and the territory added to District No. 41 it would result in a more economic distribution of the water at a considerable less expense.

During the season a number of new headgates and measuring devices were installed in various portions of the division. We have been, however, unable to get the water commissioners to get their report into this office by November 15th, and as we are finishing

up this report we are still waiting for the reservoir report from District 40, and we only received the report from No. 68 on November 19th. During the season we sent in reports on a number of reservoirs, but the number of reservoirs inspected by us is not so great as that of previous years, owing to the added amount of work we were required to do.

For several days during this week we were compelled to attend court in Delta County as witness against a water user who persisted in stealing water and otherwise tampering with his headgate during the summer. The water commissioner of District 40 had the water user arrested and the trial in the County Court of Delta resulted in conviction.

In closing this report we desire to thank the State Engineer and the office force, especially Mr. Baily, for their hearty co-operation and support. Attached hereto are the tabulated ditch and reservoir reports.

Very respectfully,

H. C. GETTY,
Irrigation Division Engineer,
Division No. 4.

IRRIGATION DIVISION No. 4

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1924

District Number	Ditches Reported	No. of Priorities	Amount of Appro. Cu. Ft. Per Sec.	Capacity of Canals and Ditches Cu. Ft. Per Sec.
28	265	264	560	3,000
29	165	220	530	1,500
30	169	203	257	707
33	37	37	654	390
34	65	48	1,444	836
40	336	289	529	2,967
41	52	51	973	3,394
42	271	255	4,410	5,176
59	177	226	800	3,700
60	120	120	400	700
61	27	14	1,147	90
62	70	75	400	600
68	105	99	428	823
Totals	1,859	2,101	12,532	23,883

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1924

District Number	Length of Canals or Ditches in Miles	First Day Water Was Used	Last Day Water Was Used	Ave. No. Days Water Was Used
28	261	Apr. 15	Sept. 1	100
29	300	May 1	Oct. 31	100
30	237	Apr. 15	Dec. 31	129
33	98	Apr. 22	Aug. 20	57
34	122	May 1	Sept. 10	113
40	796	Mar. 20	Oct. 11	120
41	417	Apr. 4	Nov. 15	190
42	569	Apr. 21	Dec. 31	184
59	220	Apr. 25	Oct. 31	100
60	300	Apr. 1	Nov. 15	100
61	29	Apr. 1	Dec. 15	143
62	250	Mar. 1	Nov. 1	110
68	180	Apr. 10	Oct. 15	67
Totals	3,779	Mar. 1	Dec. 15	116

IRRIGATION DIVISION No. 4—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1924

District Number	Average Daily Amt. in Sec. Ft.	No. Acre Feet Used	Number Acres Can be Irrigated	Alfalfa
28	575	115,000	50,000	300
29	300	60,000	45,000	5,700
30	376	97,508	53,396	4,533
33	169	18,823	9,600	10,120
34	416	94,270	90,065	19,480
40	1,640	392,478	239,900	58,575
41	1,604	613,098	303,308	45,075
42	1,411	519,030	201,376	51,506
59	3,000	60,000	30,700	1,500
60	350	70,000	100,000	12,000
61	17	4,784	11,478	2,117
62	325	71,500	35,000	100
68	500	66,862	31,048	4,806
Totals	10,688	2,183,353	1,471,771	215,812

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1924

District Number	Natural Grasses	Orchard	Market Garden-ing	Potatoes
28	33,500	.....	100	100
29	5,600	700	200	15
30	8,459	461	169	334
33	.....	144	23	281
34	1,317	5,193	....	3,434
40	26,810	9,484	1,015	4,513
41	2,530	7,410	2,500	12,870
42	10,215	11,878	247	1,781
59	23,000	....	25	75
60	2,100	480	250	300
61	146	38	31	5
62	10,000	.....	25	60
68	4,388	43	48	372
Totals	128,065	27,831	4,633	24,140

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1924

District Number	Cereals	Sugar Beets	Other Crops	Total Acres Irrigated
28	250	.....	.....	34,250
29	2,500	.....	15,000	29,715
30	3,294	.....	.....	30,782
33	5,945	.....	325	16,848
34	34,627	.....	792	79,833
40	27,047	5,514	7,210	157,644
41	28,330	6,950	16,525	158,775
42	9,752	2,558	15,907	103,913
59	200	.....	60,000	84,800
60	7,800	.....	2,500	24,430
61	618	.....	247	3,202
62	700	.....	.....	20,136
68	2,526	75	6,318	18,464
Totals	123,589	15,097	124,824	762,792

IRRIGATION DIVISION No. 4—Continued

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL DITCH REPORTS FOR 1924

District Number	Superintendence	Repairs	Improvements
30	$ 5,100	$ 10,460	$ 3,290
33	925	150	150
34	1,705	1,067	20
40	13,040	70,342	730
41	34,675	32,940	18,400
42	27,750	59,086	14,889
61	820	790	4,192
68	172	8,557	1,387
Totals	$84,187	$183,392	$43,058

In this tabulated report, the reports given for Districts 28, 29, 59, 60 and 62 were compiled by the Division Engineer from his observation and knowledge of the various Districts, acquired by personal visits and, also, from previous reports of former Water Commissioners in these Districts.

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT FOR 1924

District Number	No. in District	Area of High water Line, Acres	Capacity in Cubic Feet
30	3	874	972,723,975
34	6	938	43,303,334
40	95	4,436	1,711,063,650
42	32	1,937	825,072,113
61	1	400	127,680,000
Totals	137	8,585	4,679,763,072

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT FOR 1924

District Number	Quantity of Water in Reservoir May 1	Quantity of Water in Reservoir Nov. 1, Cu. Ft.	First Day Water Was Used
30	600,000,000	600,500,000	May 20
34	33,330,630	13,000	May 1
40	1,437,183,560	.....	June 13
42	84,705,891	.....	April 5
61	.....	.....	April 28
Totals	2,155,220,082	600,513,000	April 5

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT FOR 1924

District Number	Last Day Water Was Used	Ave. No. Days Water Was Used	Average Daily Amt. in Sec. Ft.	Number Acre-Feet Carried
30	Dec. 30	245	95	46,520
34	Sept. 1	108	74	15,920
40	Sept. 27	65	264	34,507
42	Sept. 30	50	109	9,770
61	Oct. 15	167	13	4,192
Totals	Dec. 30	127	555	111,909

TABULATED STATEMENT OF WATER COMMISSIONERS' ANNUAL RESERVOIR REPORT FOR 1924

District Number	Superintendence	Repairs	Improvements
34	$ 1,505	$ 685	$.....
40	46,837	7,500	5,500
61	820	790	320
Totals	$49,162	$8,975	$5,820

The crop acreage is given under the Ditch Report.

ANNUAL REPORT OF THE IRRIGATION DIVISION ENGINEER FOR IRRIGATION DIVISION No. 5 FOR THE YEAR 1923

Glenwood Springs, Colorado, November 24, 1923.

Hon. Addison J. McCune,
State Engineer,
Denver, Colorado.

Dear Sir: I have the honor to submit a report of my work as Division Engineer for Irrigation Division No. 5, for the year 1923.

The water supply this season has been good, the natural precipitation in many sections of the division being unusually heavy, but this was not altogether an unmixed blessing, because the showers, and in some places hail, interfered very seriously with crops and the harvesting of same, being especially disastrous to hay, grain and also to head lettuce over much of the territory where that crop was grown. However, these extraordinary conditions did not prevail over the entire division, and in the major portions of same the crops were very good, both as to quantity and quality of product.

There is considerable unrest among the farmers and considerable complaint as to slow markets and the general financial depression, but notwithstanding this common discontent I believe the trouble is partially psychological and not justified by the actual facts. The fact is that farmers who were not heavily in debt when the slump came, and therefore burdened with heavy interest obligations, find market prices fairly satisfactory, and are therefore not complaining a great deal.

The farmers of Garfield County still continue to grow a large acreage of potatoes, and the yield and quality this year were fairly satisfactory, and the price much better than last year.

Head lettuce was grown in some portions of the division to a greater extent than ever before, Eagle County being the heaviest producer with 459 acres. It proved a very profitable crop for some, while other growers found it a losing experiment.

Sugar beets are growing in favor with the farmers of the DeBeque, Rifle, Silt and New Castle sections, and very satisfactory yields are reported.

Alfalfa is easily the largest and most dependable crop, and it has fully justified the confidence the farmers have placed in it.

The dairy industry has grown rapidly the past year, and has proved so successful that there is now a decidedly increased demand for good dairy cows over any previous experience, and farmers who a few years ago depended entirely on range cattle, alfalfa, grain and potatoes have increased the diversity by adding hogs and dairy cows, and the experiment has proved a very profitable one.

I have done more field work this year than ever before in one season, having, I believe, gone into every district in the division save two, 36 and 51.

Because of the financial stringency and the rather slow outlook, coupled with what appeared to me to be a rather pessimistic state of mind on the part of the farmers, it was very difficult, in fact almost impossible, to insist upon and secure anything like a full compliance with the law in regard to headgates and measuring devices, and I have felt justified in tolerating some very shabby construction along lines where ordinarily I would have insisted on better conditions.

The reservoirs in this division are few and small in size, the majority being of earth construction. I have examined a number of them this season, and usually have found the conditions very good. I know of none that are used as the exclusive source of irrigation supply, all being used to strengthen and compensate the stream flow and as additional rights to direct irrigation.

No serious difficulties over water have occurred, and not much litigation over water has been had, although I recall two cases that have been appealed to the Supreme Court. One of these is from District No. 45, and is so complicated that I cannot outline here the points at issue, and the other, from District No. 38, involves an order for a change in point of diversion and also covers the question of made or developed water.

Several matters have been presented to me this year that involved very close legal points, but none of my decisions have thus far been challenged by the lawyers or parties interested to the extent of bringing court proceedings.

In this connection I very much wish that we might have a new compilation of irrigation laws and decisions. This would certainly prove of very great help to all irrigation officials, for under the present conditions a person is almost obliged to be a lawyer before he is qualified to be a water commissioner, and I do not wonder that some have given up the job because of the intricate questions they were obliged to face and the fear that they might do the wrong thing.

I have had considerable trouble in securing from some of the district clerks certified copies of the court decrees, as provided in Sec. 1761, Compiled Laws of Colorado. Other clerks are very prompt with these copies, making them at the same time they prepare the certificates for the petitioners. I wish the law, amended a few years ago requiring these certificates to be furnished the State Engineer and the Division Engineer, and holding the decrees inoperative until this was done, had also been made to include the water commissioner. It is often very essential that a water commissioner be furnished a copy of a decree, because of special provisions contained therein.

Notwithstanding several letters and many urgent personal requests to the water commissioners to file their field books and

reports on time, only one of them did so, and his report is so defective that I will be obliged to correct it as to almost every item. Others filed their reports as late as November 22, and I have not yet had time to check them up, and in other instances reports have not yet been filed, although promised in the near future. Of such as I have been able to secure, I hand you herewith. I hope to file the others in your office, with a tabulated compilation of all districts, by December 15. Apparently there are some districts from which I will not be able to secure any reports whatever.

Respectfully submitted,

A. J. DICKSON,
Irrigation Division Engineer,
Division No. 5.

ANNUAL REPORT OF THE IRRIGATION DIVISION ENGINEER FOR IRRIGATION DIVISION No. 5 FOR THE YEAR 1924

Glenwood Springs, Colorado, November 20, 1924.

Mr. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir: In conformity with the provisions of the law on the subject, I present herewith my annual report as Irrigation Division Engineer for Irrigation Division No. 5, for the fiscal year ending November 30, 1924.

From the standpoint of precipitation, the past year has been most unfavorable, and I am sure that in all my official experience I have never known a year of such intense shortage of moisture or one that presented so many intricate problems or called for more careful and diplomatic conduct in the matter of water distribution, and in spite of all we could do by way of vigilance and economical distribution the crop yields in some sections were very materially decreased, as compared with the ordinary production, while in rather rare instances they were almost a total failure. This condition naturally militates in a serious way against the prosperity of a community and intensifies the altogether too prevalent feeling of unrest and disappointment.

Because of the above mentioned conditions, I estimate the yield of alfalfa hay at from 60% to 75% of normal, with a like decrease in cereal production, while the potato yield, taking the division over, was but little better than 50% of normal. Head lettuce, a new and to a large extent an experimental crop, proved very successful this year in a very small area of the division, thriving at high altitudes where the quaking aspen soil retains moisture well or where a reasonable amount of cold water was available for surface irrigation. Growers of this new crop of growing

popularity claim to be very well satisfied with their profits this year, partially because by experience they are becoming more efficient in producing an increased yield at a decrease in cost of production, but also because the market price of this commodity was much better this year than heretofore, and the marketing conditions were much less hazardous. The chief territory from which head lettuce culture was reported to me was in Districts 37 and 52, but I am informed that the acreage is heavier in Districts 50 and 51, in which districts no water commissioners have been appointed and from which districts I have received no written reports.

Considerable acreage was planted to sugar beets in Districts 39, 45 and 70, but, due to the shortage of water at just the time the crop was most in need of it, the yield was far from satisfactory.

In the Silt-Antlers country, where a considerable area of excellent mesa soil is watered from the Antlers or Harvey Gap Reservoir, which is fed from Rifle Creek, the situation became so intense that the people were in serious straits to find water to meet their necessities for domestic use, their storage supply having been exhausted, and some of them being obliged to drive their stock to the river several miles away, and also to haul water from the same source for household purposes. In their extremity the settlers appealed to me for such relief as I might be able to render, but just as matters were getting desperate a most opportune storm arose near the head of Rifle Creek, quite materially increasing the flow for a short time, and although the Rifle Creek users needed all available water, they consented to have the commissioner turn a reasonable amount across to their Antlers neighbors, upon the voluntary promise of the latter that they would use the loaned amount only for domestic storage. As soon as their cisterns were filled the commissioner was notified and the water was turned back into Rifle Creek for users in accordance with their priorities—and thus was averted what for a time threatened to become a real calamity.

However, this year's shortage may prove a blessing in disguise, for the need for greater storage capacity, which has been felt for years, has become so acute that the company is now considering former plans for raising their reservoir dam five feet, or else supplementing their supply by the construction of a new reservoir.

I believe we did remarkably well in the way of distribution in this division this year, considering all the barriers with which we had to cope. But in giving good service it was necessary to employ extra men, and of course this involved additional cost, which increased cost in ordinary seasons would have been frowned upon by county commissioners, to whom bills are finally presented for payment. In order to "break the news gently," I appeared personally before the boards in some counties early in the season and explained the situation as I saw it coming, and asked that they co-operate with me in my plan to give the people service, and

thus assure the best crops possible under the adverse conditions which I considered, unless the later season should bring abundant rainfall. The suggestion was taken kindly, and I was asked to provide such help as I considered necessary, and was assured that the bills would be paid.

However, the great trouble in securing the necessary assistance came from the inadequacy of compensation for commissioners and deputies under our present statutes. Almost every man who is capable of serving as water commissioner or deputy owns a car, and is therefore able to travel farther and do more work in a day than was possible under the old regime, and few can be found who are eager to furnish a car and the necessary upkeep on same and throw in their own time on a job that is anything but a friend-making pastime at the present low rate of compensation.

And right here and now I renew my oft-repeated suggestions that, inasmuch as water commissioners are appointed by the State authorities, they should be paid from State funds, and their deputies, who should be appointed by the commissioners or by the division engineer, should also be paid from State funds. The present law says that water commissioners shall be appointed by the Governor, upon recommendation or endorsement of the county commissioners of one or more counties in the district, but in practice it is not done that way. Oftentimes the first intimation which comes to the county commissioners or anyone else in interest is contained in an obscure item in a Denver newspaper to the effect that a certain man has been appointed water commissioner for a certain district. This information is not conveyed to the Division Engineer, who, if he should fail to see the aforesaid item, is obliged to wonder a few weeks longer as to who is to be the water commissioner of that district. After waiting a week or two longer and hearing nothing further the engineer musters up courage to write the alleged appointee or make him a personal visit to inquire if the rumor is true. Answered in the affirmative, he urges the man to execute his bond so that his commission may issue and he may be put to work. Three or four weeks later the engineer may learn that the new appointee is "all ready to go." Four or five weeks later the county commissioners may learn of the fellow's appointment through the receipt of a bill for services, their attorney informing them that the only right they have in the matter is the right to pay the bill.

This is not a far-fetched or overdrawn story but a true-to-life and common occurrence, and I maintain that if the county commissioners and the interested taxpayers of the county are to have no part in the selection of their water commissioners they should not be required to pay them, and especially is it unfair to the water commissioners and deputies that oftimes they must haggle and finally invoke the aid of the courts in the collection of their salaries, concerning which there should be no question, after service is rendered and their claims have been properly approved.

Is the irrigation service of less consequence to the State than the fish and game service? Then why the present unwieldy machinery concerning the appointment and compensation of water commissioners when game wardens and deputies are paid from the State funds? It is easy enough to say that the law is that way, but I think it is time to inquire as to why the law should be thus.

The problem of securing and keeping records of adjudications is not an easy one to handle. I believe that the official record should be approved and issued by the State Engineer and that there should be a uniformity in these records in all the divisions. I have not been furnished with such a record, and I have not been able to satisfy myself fully as to the best form to meet the needs of the office. I believe a loose-leaf system would give the best satisfaction, but a ring binder should not be used. A post or clamp binder might be practical, and it should not be too large and unwieldy.

I favor an annual or semi-annual meeting of all the commissioners and deputies with the division engineers, and feel sure that the expense will be more than justified. I held one such meeting with my commissioners, but owing to the long distance to some of them and the poor postal facilities, the distant ones did not receive the notice in time, and therefore the attendance was not complete, but those present considered the meeting a success, and they have asked for another.

I have this season visited every water district in the division, some of them several times, some of these visits being to sections I had never visited before, and in one district—the Blue River, Dillon-Breckenridge section—I was informed that I was the first and only water official who had ever made an official visit to that district. Whether that be true or not, I do not know, but I was certainly well received at Breckenridge by the county commissioners and other county officials and thanked for my visit and the conference with the board and also for some work I did by way of ditch adjustments which they said would probably be the means of preventing serious trouble, but when I took my leave they turned down my suggestion that they recommend some one for appointment as water commissioner, and would not agree to pay a commissioner if I secured his appointment, so after feeling flattered by numerous compliments I came away convinced that I did not amount to much after all. If these people do not need and do not desire the services of a water commissioner in such a year as this I cannot imagine what would be necessary to bring about such a desire. When I left them I requested that they take the matter up direct with the State Engineer, but I do not know whether they have done so or not.

The conditions are much the same in Districts 50 and 51 and in other sections where water is abundant and where there has not been a water commissioner for several years, if at all. We are

confronted in some of these sections with antagonism to our system, and their indifference or opposition to the appointment of a water commissioner appears to be based on a desire to economize, while in other communities this opposition comes from the old settlers and leaders on the streams, who apparently are actuated by a fear that if the water were distributed in accordance with the law and the decrees they, the owners of senior rights, would receive less water than at present under the haphazard community customs, with the result that the men with the early water rights manage in some way to receive and use more water than their decrees call for, to the consequent loss and detriment of junior appropriators. With such conditions and such sentiments prevailing, how are we to secure statistical information which is called for under the law?

I am thankful for a splendid spirit of loyalty and co-operation on the part of water commissioners and deputies with whom it has been my privilege to labor during the past year. These men have rendered a good service and have been obedient to every suggestion of mine—save one, that of the prompt and careful compilation of their annual reports, and although I made greater efforts than ever before to secure prompt reports, urging the men to keep their records in such condition as the work progressed so that they might prepare their reports at the close of the season with a minimum of effort and delay, I met with indifferent success. I must say I am as yet unable to suggest a remedy for this condition. They make good promises and they mean all right, but the average commissioner dreads this part of his work more than any other, with the result that it requires special effort to secure these reports at anything near the proper time.

I am also very appreciative of the very courteous and helpful treatment at the hands of the State Engineer and his deputies. I have profited by the assistance given me from your office and have enjoyed the co-operative spirit which has existed between the two offices, and I am sure the service has been improved by reason of this harmonious relation.

Respectfully submitted,

A. J. DICKSON,
Irrigation Division Engineer,
Division No. 5.

IRRIGATION DIVISION No. 5

SUMMARY OF WATER COMMISSIONERS' REPORTS FOR THE IRRIGATION SEASON OF 1924

WATER DISTRICT NO. 37

CROP REPORT

Alfalfa	9,337 acres
Natural Grasses	255 acres
Cereals	2,817 acres
Market Gardens	2 acres
Potatoes	1,856 acres
Sugar Beets	88 acres
Head Lettuce	1,093 acres
Other Crops	345 acres
Total irrigated acreage	15,793 acres
Total Number of acres that can be irrigated	19,527
Average daily flow during season, second-feet	349
Acre-feet used from natural stream	65,171

SUMMARY OF WATER COMMISSIONERS' REPORTS FOR THE IRRIGATION SEASON OF 1924

WATER DISTRICT NO. 38

Alfalfa	12,218 acres
Natural Grasses	6,744 acres
Cereals	4,855 acres
Orchards	14 acres
Market Gardens	12 acres
Potatoes	2,468 acres
Sugar Beets	2 acres
Other Crops	796 acres
Total irrigated acreage	27,109 acres
Total number of acres that can be irrigated	33,755
Average daily flow during season, second-feet	75[illegible]
Acre-feet used from natural streams	145,701

SUMMARY OF WATER COMMISSIONERS' REPORTS FOR THE IRRIGATION SEASON OF 1924

WATER DISTRICT NO. 39

Alfalfa	9,531 acres
Natural Grasses	413 acres
Cereals	2,460 acres
Orchards	691 acres
Market Gardens	70 acres
Potatoes	1,644 acres
Sugar Beets	1,734 acres
Other Crops	298 acres
Total irrigated acreage	16,437 acres
Total number of acres that can be irrigated	18,522
Average daily flow during season, second-feet	240
Acre-feet used from natural streams	71,509

SUMMARY OF WATER COMMISSIONERS' REPORTS FOR THE IRRIGATION SEASON OF 1924

WATER DISTRICT NO. 45

Alfalfa	15,516 acres
Natural Grasses	2,719 acres
Cereals	3,850 acres
Orchards	776 acres
Market Gardens	95 acres
Potatoes	654 acres
Sugar Beets	175 acres
Other Crops	919 acres
Total irrigated acreage	24,704 acres
Total number of acres that can be irrigated	30,279
Average daily flow during season, second-feet	268
Acre-feet used from natural streams	39,511

IRRIGATION DIVISION No. 5—Continued

SUMMARY OF WATER COMMISSIONERS' REPORTS FOR THE IRRIGATION SEASON OF 1924
WATER DISTRICT NO. 52

Alfalfa	1,688 acres
Natural Grasses	2,237 acres
Cereals	258 acres
Market Gardens	13 acres
Potatoes	43 acres
Head Lettuce	89 acres
Total irrigated acreage	4,328 acres
Total number acres that can be irrigated	9,086
Average flow during season, second-feet	152
Acre-feet used from natural streams	19,211

SUMMARY OF WATER COMMISSIONERS' REPORTS FOR THE IRRIGATION SEASON OF 1924
WATER DISTRICT NO. 53

Alfalfa	6,154 acres
Natural Grasses	2,631 acres
Cereals	320 acres
Orchards	5 acres
Potatoes	325 acres
Other Crops	10 acres
Total irrigated acreage	9,466 acres
Total number of acres that can be irrigated	16,118
Average daily flow during season, second-feet	216
Acre-feet used from natural streams	47,360

SUMMARY OF WATER COMMISSIONERS' REPORTS FOR THE IRRIGATION SEASON OF 1924
WATER DISTRICT NO. 70

Alfalfa	5,367 acres
Natural Grasses	182 acres
Cereals	960 acres
Orchards	46 acres
Market Gardens	55 acres
Potatoes	146 acres
Sugar Beets	91 acres
Other Crops	281 acres
Total irrigated acreage	7,141 acres
Total number acres that can be irrigated	13,559
Average daily flow during season, second-feet	137
Acre-feet used from natural stream	43,277

ANNUAL REPORT IRRIGATION DIVISION ENGINEER, DIVISION No. 6

Steamboat Springs, Colo., November 30, 1923.

Division No. 6.

Hon. A. J. McCune,
State Engineer,
Denver, Colo.

Dear Sir: In compliance with the statutes I herewith submit my annual report for Irrigation Division No. 6, for the fiscal year ending November 30, 1923.

The first demand for water for irrigation was reported on April 26th in District No. 43.

Reports from the water commissioners showed all reservoirs filled to their capacities on June 1st.

This has been an exceptionally good year for the irrigators, all principal streams holding up well during the irrigation periods, with the result that there was very little dissatisfaction among the water users in regard to the distribution of the water.

Reports from the water commissioners in July and August showed that all demands for water for direct irrigation were being supplied, with but few exceptions. Certain small reservoirs were given permission to store water, after they had become empty, during the direct irrigation season, where such storage would not in any way interfere with the direct irrigation rights.

Three complaints were entered at this office against the action taken by the water commissioner, each complaint occurring in different districts. After careful investigation of each of these complaints, the action taken by the water commissioners was upheld by the Division Engineer in each case as follows:

On July 26th several water users on Good Spring Creek, a tributary to Milk Creek in District No. 44, were dissatisfied with the action of the water commissioner in making division of water and ordering headgates and measuring devices placed upon certain ditches. In this case there was not enough water in the creek to supply all decreed rights and no headgates or measuring devices in some of the ditches. Some of the parties complaining owned decreed rights in the creek but were irrigating from several small laterals taking water direct from the creek. The water commissioner had regulated the headgates of the decreed ditches in their order of priority and the only ditches shut entirely out were those that had no right whatever.

On July 27th and August 10th complaint was received from a water user on Flag Creek in District No. 43, charging the water commissioner with unfair distribution of the water of the mentioned creek, and of showing partiality to certain users along the creek. Investigation showed that this was more of a personal grievance against the water commissioner and also ignorance of the law on the part of the party complaining. While he has a decreed right out of the creek, he would not comply with the order of the water commissioner to construct headgate and measuring device for this ditch, and the ditch where his principal trouble was centered has no water right. Am attaching hereto a copy of a letter received from the water commissioner, which will explain the situation more fully. * * * *

August 15th a complaint was received from a water user near Yampa in District No. 58, that the water commissioner was allowing a ditch (the Burnt Mesa ditch) to divert an excess of water and waste the same over his meadows and land, thereby causing considerable damage, and charging that the water commissioner refused to take any action after he was notified. An investigation disclosed these facts: That, first, this demand was made upon the

water commissioner during heavy rains when it was impossible to determine the source of the water. The ditch in question is about nine miles long and has an adjudication of 3.66 cfs. Second: On August 13th, the first day that complaint was made, the water commissioner went to the head of this ditch and there was .50 cfs entering the headgate. This was shut out, and on August 20th there was no water at the headgate, but considerable water had accumulated in the ditch from other sources, and the same was still running over the complainant's land, being wasted from or running across fields above. August 30th no water at headgate and ditch dry full length. The water commissioner was exonerated in this case so far as investigation from this office revealed.

Extra effort was exerted the past season of encouraging rather than demanding the construction of headgates and measuring devices, and very good results were accomplished throughout the division by such effort. Will state in this connection that I made up a miniature headgate, weir, division box, rating flume and waste gate and prepared tables for the same, giving dimensions and sizes for different capacities. These I have in the office for inspection and examination for anyone who may be interested.

Some discretion must be used in the enforcement of the laws along the lines contained in the foregoing paragraph, as 90% of the water users at the present time are so situated, due to other difficulties, that enforcement of the law would only add additional burdens. Therefore, enforcement of the law in regard to the construction or repairing of headgates, etc., has been resorted to only when the same was necessary.

Ten small reservoirs were examined during the season. These were all found to be in fair shape, with the exception of gage rods and measuring devices.

A number of minor controversies were referred to this office for adjustment, a list and record of the same being made and are kept on file for future reference.

There was a very small amount of new irrigation work carried on during the year. A concrete diversion dam and headgates were constructed on Williams River in District No. 44 at the head of the old Wise ditch. This is an elaborate structure and represents quite an expenditure.

Work has been carried on this fall and fair progress has been made with the reconstruction in the Maybell irrigation district.

Rating stations were maintained on the Yampa River at Maybell and Steamboat Springs; Elk River at Trull and Glen Eden; Little Snake River at Lily Park and Dixon, Wyo.; South Fork Little Snake River at Flemmings; Four Mile and Willow Creeks; Williams River at Hamilton, and White River at Meeker.

Forty current meter ratings were made at these stations during the year by the Division Engineer.

The water commissioner of District No. 58 reported on twenty-nine ditches in his annual report received at this office November 20th.

The commissioner of District No. 44 reported on fourteen ditches in his annual report received at this office November 16th.

The water commissioner of District No. 43 turned in a complete annual report for his district.

No reports received from Districts Nos. 54, 55, 56, 57.

In conclusion will state: That during the year I have instituted a card system of indexing and keeping a record of all ditches and reservoirs in the division, the cards containing all information embodied in the decrees, with additional data covering each enlargement, extension or change, ratings and inspection of structures and the actual condition of each ditch or reservoir.

This system is not completed as yet and will possibly take the rest of the winter or longer to complete the same. The water commissioners will be supplied with a smaller card file for his district. On each card will be given the name of each ditch or reservoir, date, priority number, location of headgate, amount decreed and such other information as will enable him to intelligently administer the water in his district. After this system is completed, each decree received at the office will be entered upon the Division Engineer's record and a card filled out and forwarded to the proper water commissioner. This system is made possible by the support given from your office, and for which I wish to express by appreciation, for this and many other acts of courtesy and assistance given by your office.

Yours very respectfully,

B. T. CHASE,
Irrigation Division Engineer,
Division No. 6.

ANNUAL REPORT IRRIGATION DIVISION ENGINEER, DIVISION No. 6

Steamboat Springs, Colo., November 30, 1924.

Hon. M. C. Hinderlider,
State Engineer,
Denver, Colorado.

Dear Sir: I have the pleasure of presenting herewith my annual report for Irrigation Division No. 6 for the year ending November 30th, 1924. At the opening of the irrigation season indications pointed toward it being very dry; there was a marked shortage of snowfall during the fall and winter months, and it is the early snow in the watersheds that insure water for irrigation. There was a heavy late snowfall, which made the outlook more promising in respect to the water supply, but with almost a total lack of rainfall during the growing season, with unusually hot and windy weather, created an early and continual demand for water. The hay crop yield was below the average in tons per acre, but this was offset somewhat by the better quality of hay produced.

While there is no complete reports from the water commissioners on the acreage of head lettuce planted, there was, however, in the neighborhood of 1,000 acres of this, practically all in District No. 58. This crop was distributed among a number of water users, the greatest acreage being in the vicinity of Yampa, Colorado. The head lettuce, as well as being a profitable crop, has had another advantage in bringing the water user to the realization of the advantage of a good water right and that proper irrigation is an important item for the successful growing of the same, and in this connection will state that there was very small loss to this crop as a whole due to the lack of water. Our irrigation conditions are slowly but surely improving, as noted by the more interest that is taken by those owning water rights. This is evident in one respect by the number of canals and ditch companies that have installed measuring devices and division boxes for the individual measurement of water to the different users or share holders of the same ditch; also the increased number of inquiries received at this office concerning measurements of water, their water rights, etc. Fair progress has been made on the number of measuring devices placed at the head of the ditches and canals throughout the division. There are no figures available as to the number of such devices installed or the number of ditches yet remaining without such measuring devices, due to failure of the water commissioner to report on the same.

Neglect of constructed projects is evident throughout the division, and is a great factor in reducing the progress on the administrative duties of this office. This is not meant as a whole, but at least with 75% of the ditches and canals. To keep down expense of construction of ditches as well as the structures in connection with the same, it has been the tendency to skimp wherever possible. By this I mean that the water was put onto the land with the least possible expenditure, due, of course, primarily to the low valuation of the crops irrigated, which would not warrant any expensive outlay in irrigation systems. However, in construction there was very little thought given to future operation costs.

First: With all but a very few of the ditches taking water from the larger streams the headgates are located so that it is impossible to divert low water from the stream. A very few instances where waste gates have been provided to protect ditches from excess water entering the headgates or at other points along the ditch. Scarcity of drains and flumes in the most necessary places. Lastly, the poorly constructed, flimsy and crude headgates. Since construction a lot of these ditches have filled in. Brush and willows have been allowed to grow along the banks and in the ditch. This, of course, means the ditches are reduced sometimes as low as 25% of their original capacities. Shortage of water for the crops is due more to the above conditions than to the lack of water in the streams to supply the same. I am mentioning this primarily because there were complaints received at this office at

different times where the water commissioner was blamed for not allowing enough water to enter the headgate, and upon investigation and measurements I would find that the ditch would carry only a small portion of the total decreed to it.

This, I believe, could be overcome to a certain extent by a publicity campaign along that line.

Following is a list of the ditches rated with the current meter and the number of measurements made thereon. Total of 37 ditch measurements.

District No. 58

Name of Ditch—	No. of Measurements
Mandall	4
Buckingham-Mandall	5
Stillwater	3
Bird	2
Nickell	2
Pennsylvania	1
Lindsey	1
Chas. and Arthur Leighton	1
Hutchinson	1
Lancaster	1
Big Mesa	1
Van Camp	1
Hernage and Kolbe	1
Acton	1
Leighton	1
Fix	1
Soda Creek Ditch	3
Woodchuck	3
Total	33

Weirs were ordered installed and were put in on all but the first three, which have rating flumes.

District No. 56

Name of Ditch—	No. of Measurements
Main Pablo Springs	1
West Pablo Springs	1
Bassett Reservoir Outlet	1
Slough into Vermillion Creek	1
Total	4

Reservoirs

Detached from this report are complete reports on the conditions of twenty reservoirs. This comprises the principal, but only about one-third in number of the reservoirs in this division. Will

mention here two outstanding weak factors noted in the construction of these reservoir outlet works. In some cases the valve is located at the lower end of the outlet pipe near the lower toe of the dam. The upper end or intake end of the outlet in the majority of these mentioned cases is laid on or below the bottom of the reservoir with no means provided to care for the silt. This, of course, causes the outlet pipe to become clogged and rendering the same useless. In other cases a number of the reservoirs, the valve or gate is located at the upper or intake end of the outlet in the reservoir with the gate on the level or below the bottom of the reservoir. This allows mud and sediment to collect against the gate, locking the same, and there are cases brought to my attention where explosives have been inserted from the outlet and the gate blown out. Another disadvantage to this method of operation is the trestle required and built out from the crest of the dam, usually light poles and frame work, and with all the reservoirs examined with this means of gate operation it was found that the trestle or tower in either use, if in place at all, was wrecked and twisted out of shape, caused by ice in the reservoir. The ice in different occasions has lifted the gate, allowing the water to escape before ready for use and without knowledge of the owners, or damage the gate connections to such an extent that they were difficult to operate. Most of the reservoirs have some winter storage, and the only practicable outlet works for reservoirs of this class is for the valve or gate located in the dam of tunnel at the end of dam with silt box provided at the inlet, and that no part of the outlet works may be affected by ice unless built of sufficient strength to withstand the same.

The following is a tabulation of the reservoirs inspected this year.

TABULATION OF RESERVOIRS INSPECTED

Name of Reservoir	Water District	Capacity Acre-ft.	Max. Height of Dam, Ft.	Character of Material of Dam	Condition of Dam	Condition of Spillway	Condition of Outlet Works	Remarks
Gamble & Dunaway	57	86.00	20	Earth, adobe	Good	Good	Good	Operated from trestle.
J. M. Yoast	57	197.00	25	Earth and small rock	Good	Good	Good	Valve lower end of pipe.
Cozzens-Wallrod	57	80.00	25	Earth, adobe	Good	Good	Good	Trestle in poor shape.
Cook and Sellers	57	803.75	40	Earth, sandy loam	Good	Good	Fair	Gate tower affected by ice. Stem disconnected.
J. C. Temple No. 1	57	553.43	30	Earth, adobe	Good	Good	Fair	Stem affected by ice.
J. C. Temple No. 2	57	86.00	25	Earth, adobe	Broke at Spillway	Washed out	Fair	Not in use.
Emrick	57	421.00	30	Earth, adobe	Fair	Good	Poor	Gate operated from trestle. Useless at present time.
Noftsger	57	342.00	25	Earth, mixed shale	Fair	Fair	Fair	Gate operated from trestle. In poor shape.
Dawson No. 2	57	32.10	25	Earth, small stones	Good	Fair	Poor	Gate tower out of place. Outlet works useless.
Trull Creek No. 1	58	145.00	25	Earth, sandy	Fair	Washed into dam	Stopped up	Spillway washed out.
Gardner Park	58	1,155.00	25	Earth, vale, drift	Good	Fair	Poor	Needs complete new installation of outlet works.
J. L. McHatton	43	64.00	23	Earth	Good	None	Fair	Recommend spillway.
Keystone Reservoir No. 5	43	151.30	12	Earth	Good	Poor	Fair	
Keystone	43	About 150.00	15	Earth	Good	Fair	Fair	Not enough freeboard to spillway.
Ben Price	43	206.10	12	Earth	Break in Center of dam	Poor	Fair	Not enough freeboard to spillway.
Middleton	43	42.32	13	Earth	Poor	Poor	Fair	Not enough freeboard to spillway.
H. T. Wilson	43	103.84	27.5	Earth, sandy	Good	Poor	Good	Inadequate spillway.
Lunny	43	87.502	30	Earth, small stones	Good	Good	Poor	Outlet stopped up.
West Miller	43	77.86	20	Earth, small stones	Good	Good	Fair	Working all right.
Big Lick	43	38.87	12	Earth, red sand	Poor	Fair	Poor	Outlet not in working order.

Condition of Dam, Spillway and Outlet Works as follows:
Good—No attention necessary.
Fair—Needing repairs and attention but getting by.
Poor—Useless unless given attention.

REPORT OF MILEAGE AND COST OF TRAVEL BY AUTO FROM OCT. 4, 1923, TO Nov. 15, 1924, FOR "NASH 4" AUTOMOBILE

Mileage traveled		9,400 miles
Running expenses, gas, oil and grease	$226.45	or .02⅖ cent per mile
Repairs to tires, brake lining and spring	16.30	or .00⅛ cent per mile
Storage	58.50	or .00⅝ cent per mile
Equipment, including bumper, motor meter, radiator cover, light bulbs and small accessories	58.60	or .00½ cent per mile
Total expense on car since purchase	$354.85	or .03⅗ cent per mile for 9,400 miles

While the gas, oil and grease bill is not segregated, the average miles on gasoline will run about 19½ and 600 miles to the gallon of oil, oil pan drained at each refilling.

The car is in perfect shape with the exception of tires, and from appearance these tires should give considerable mileage next season.

Hydrography

All streams reached very low stage this season for period during August and first of September, the high stage coming at about the regular time with a slight drop between the latter part of May, commencing to rise again early in June.

Following is a list of River Stations maintained and the number of discharge measurements made thereon:

Station—	Measurements
Yampa River, Steamboat Springs	10
Yampa River, Maybell	10
Elk River, Trull	7
White River, Meeker	8
White River, Watson, Utah	7
Little Snake River, Lily Park	5
Williams River, Hamilton	4
Total	51

No reply received to date from water commissioner concerning the following circular letter, dated October 20th, regards to annual report, with exception commissioner District No. 43.

October 20, 1924.

To Water Commissioners,
Irrigation Division No. 6.

On September 16th the State Engineer's office issued a circular letter to all water commissioners, requesting that they have their reports and that of their deputies prepared for submitting to the Division Engineers before November 1st for the proper examination and correction before the same are filed in the office of the State Engineer.

Some of the water commissioners have been in the habit of sending their reports direct to the State Engineer. The Division

Engineers are responsible for the general accuracy and completeness of their commissioners' reports, and to this end you are instructed to forward your report in duplicate to this office as soon as possible and not later than the 15th of November.

A letter from the State Engineer, dated October 2nd, stated that his office had not received as yet request for supplies from commissioners in the following districts: 44, 54, 57 and 58.

So I presume that the commissioners from the mentioned districts already have the necessary supplies on hand and will have no excuse for failing to submit their reports.

Your attention is again called to a circular letter issued from the State Engineer's office early in the season, regarding the exercise of unusual care in the compilation of all records and see that all reports are complete as possible.

If you are not contemplating and do not submit your annual report as required by the statutes, I would suggest that you send a written statement to me not later than the time required for furnishing such report, stating the reason or reasons of your failure to do so.

Very truly yours,

B. T. CHASE,
Irrig. Div. Engineer, Div. No. 6.

WATER COMMISSIONERS AND DISTRICTS

The greatest disadvantage encountered in the administration of water is to have the office of water commissioner filled by a commissioner unqualified for this office or indifferent to the duties of that office. So far as I can ascertain there is one water commissioner in this division who paid attention to and attempted to carry out the instructions of your office issued during this season.

District No. 43

F. A. Carstens, water commissioner. This district has been handled very satisfactory. He has made progress on the installation of headgates and measuring devices as well as handled his administrative duties in a commendable manner. Attached hereto is a complete ditch and reservoir report for his district.

District No. 44

Mr. Clifford Collom, present water commissioner. The season started with Mr. Arthur Collom as water commissioner and Clifford Collom as deputy. Mr. Collom's death early in the season made a vacancy and Mr. Clifford Collom was appointed to fill this vacancy, his appointment taking effect about July 1st. During the interval that there was no water commissioner for this district the work of the deputy was supervised from this office. Mr. Clifford Collom was not very well acquainted with the work or his district. His

principal activities were along the smaller streams, including Fortification Creek, Milk Creek and tributaries, Wilson Creek and Morapos Creek. He reports only on seventeen ditches in his district. Attached to this report is a list of thirteen ditches that he reports as needing measuring devices. This is a very small percentage of ditches in his district needing such devices.

DISTRICT NO. 43

SUMMARY OF DITCH REPORT

4 Amount of Appropriation Cu. Ft. per Sec.	8 First Day Water Used from Nat. Stream	9 Last Day Water Used	10 Maximum No. of Days Water Carried	11 Average Daily Amount of Water Diverted from Natural Stream
863.39	April 25	Nov. 1	246	601.23

DISTRICT NO. 43—SUMMARY OF DITCH REPORT

12 No. of Acre Feet Used by Canals for Season from Natural Streams	13 Total No. of Acres That Can be Irrigated	14 Alfalfa	15 Natural Grass	16 Cereals
95,398	163,923	17,250	7,930	2,974

DISTRICT NO. 43—SUMMARY OF DITCH REPORT

24 Other Crops	25 Total Irrigated	26 Superint'd'ce	27 Repairs	28 Improvements
87	28,241	$234.00	$8,833.06	$1,387.44

District No. 54

Mr. E. W. Leggett, water commissioner. I believe Mr. Leggett still holds this position officially, but otherwise there is no indication of a water commissioner present. I have never received reports from him nor answer to communications, and so far as I can ascertain he has not performed any duties in connection with that office for the past five or six years. I made personal calls upon this commissioner and requested certain data in hopes that he would take some interest in the work, but was unsuccessful to that end. I consider this district important, as the Snake River supplies ditches both in Wyoming and Colorado.

District No. 55

This district has no water commissioner and there is no need for one. There are only three decreed ditches in this district, all taking water from the Little Snake River. I visited these ditches this season and found all receiving ample water. Later, at this location, the Snake River went completely dry and remained so for about forty-two days, or from August 1st to September 11th. This condition I do not believe has occurred before in a number of years.

District No. 56

No water commissioner for this district. I made three trips to this district this season, due to controversies which arose again regarding the waters of the Mexican Pablo Springs adjacent to

Vermillion Creek. It may become necessary to have a water commissioner appointed for this district to handle this situation to do justice to the parties interested. The commissioner should be on the ground when necessary.

District No. 57

This district has been without an active water commissioner this season. Mr. C. W. Harkness holds this position officially, although he has been out of the district the past two years. Frequent attempts on my part have failed to clear the office so that another commissioner could be appointed. I have correspondence with the Civil Service Commission also with Mr. Harkness, requesting that he send in his resignation, but have received no notice of his having done so to date. I performed the necessary duties of water commissioner in this district this season, principally the regulation of water along Fish Creek, but lack of time would not permit due justice to the work. No reservoir and ditch report for this district.

District No. 58

E. H. Godfrey, water commissioner, is new on the job and has picked up the work fairly well, but he has other matters and interests that take up his time and attention and could not devote the time necessary for this work, which resulted in considerable discontent among the water users of his district. They felt that they were neglected by the water commissioner in the most critical time. His principal activities were on the Roaring Fork of the Yampa River, Hunt Creek, Watson Creek and small tributaries of the Yampa River.

On the Roaring Fork of the Yampa River above Yampa there are twenty-one decreed ditches, calling for 168 cfs. On July 27 and 28 a series of measurements of these ditches showed 68.25 cfs. being diverted, which was the entire flow of the stream. Junior priorities were ordered shut down to supply the senior rights. This section was handled independent of the river below Yampa, as return water and tributaries supplied enough water for all rights along the main stream. The discharge of the Roaring Fork dropped as low as 55 feet, or about one-third of the demand. This was exchanged among the different ditches in order to save the lettuce crop, an agreement reached by all concerned, and it is noted that no other crops suffered materially thereby. No ditch and reservoir reports received from this district.

In connection with this report I am attaching a statement of cost for travel by auto.

In conclusion, will state that the card-filing system for decrees instituted recently has worked out very satisfactory, and this system is now complete with the exception of District No. 43.

Yours very respectfully,

B. T. CHASE,
Irrigation Division Engineer,
Division No. 6.

INDEX

A

B

C

F

G

H

I

K

L

O

P

R

S.

T.

U.

V.

W.