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RIO GRANDE COMPACT COMMISSION

COLORADO

NEW MEXICO

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March 23, 1995

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The Honorable Roy Romer Governor of the State of Colorado Denver, Colorado

The Honorable Gary Johnson Governor of the State of New Mexico Santa Fe. New Mexico

The Honorable George Bush, Jr. Governor of the State of Texas Austin, Texas

Honorable Governors:

The 56th Annual Meeting of the Rio Grande Compact Commission was held in Alamosa, Colorado, on

The Commission reviewed its prior reports and the current reports of the Secretary relative to streamflow at Compact gaging stations and storage in reservoirs in 1994. The Commission found that:

- (a) Deliveries of water at the Colorado New Mexico state line by Colorado amounted to 286,600 acrefeet in 1994 and the scheduled delivery for the year was 277,600 acre-feet. The accrued credit of Colorado was 44,200 acre-feet on January 1, 1995. The decrease in storage in 1994 in reservoirs in Colorado constructed after 1937 aggregated 1,200 acre-feet.
- (b) Deliveries of water into Elephant Butte Reservoir by New Mexico, as measured by the Elephant Butte Effective Supply, amounted to 950,300 acre-feet in 1994 and the scheduled delivery for the year was 834,600 acre-feet. The accrued credit of New Mexico was 106,900 acre-feet on January 1, 1995. The decrease in storage in 1994 in reservoirs in New Mexico above San Marcial constructed after 1929
- (c) Releases of usable water in 1994 from Project Storage amounted to 884,100 acre-feet. The accrued departure from normal release on January 1, 1995, was zero. Actual spill of credit water from Project

The Commission reviewed the cost of operation and found that the expenses of the administration of the Rio Grande Compact were \$126,727 in the fiscal year ending June 30, 1994. The United States bore \$39,086 of this total; the balance of \$87,641 was borne equally by the three States party to the Compact.

Respectfully.

Harold D. Simpson, Commissioner for Colorado

Donald T. Lopez, Acting Commissioner for New Mexico

Jack Hammond, Commissioner for Texas

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RIO GRANDE COMPACT COMMISSION REPORT

RIO GRANDE COMPACT

The State of Colorado, the State of New Mexico, and the State of Texas, desiring to remove all causes of present and future controversy among these States and between citizens of one of these States and citizens of another State with respect to the use of the waters of the Rio Grande above Fort Quitman, Texas, and being moved by considerations of interstate comity, and for the purpose of effecting an equitable apportionment of such waters, have resolved to conclude a Compact for the attainment of these purposes, and to that end, through their respective Governors, have named as their respective Commissioners:

> For the State of Colorado For the State of New Mexico For the State of Texas

M. C. Hinderlider Thomas M. McClure Frank B. Clayton

who, after negotiations participated in by S. O. Harper, appointed by the President as the representative of the United States of America, have agreed upon the following articles, towit:

ARTICLE I

(a) The State of Colorado, the State of New Mexico, the State of Texas, and the United States of America, are hereinafter designated "Colorado," "New Mexico," "Texas," and the "United States," respectively.

(b) "The Commission" means the agency created by this Compact for the administration thereof.

(c) The term "Rio Grande Basin" means all of the territory drained by the Rio Grande and its tributaries in Colorado, in New Mexico, and in Texas above Fort Quitman, including the Closed Basin in Colorado.

(d) The "Closed Basin" means that part of the Rio Grande Basin in Colorado where the streams drain into the San Luis Lakes and adjacent territory, and do not normally contribute to the flow of the Rio Grande.

(e) The term "tributary" means any stream which naturally contributes to the flow of the Rio Grande.

(f) "Transmountain Diversion" is water imported into the drainage basin of the Rio Grande from any stream system outside of the Rio Grande Basin, exclusive of the Closed Basin.

(g) "Annual Debits" are the amounts by which actual deliveries in any calendar year fall below scheduled deliveries.

(h) "Annual Credits" are the amounts by which actual deliveries in any calendar year exceed scheduled deliveries.

(i) "Accrued Debits" are the amounts by which the sum of all annual debits exceeds the sum of all annual credits over any common period of time.

(j) "Accrued Credits" are the amounts by which the sum of all annual credits exceeds the sum of all annual debits over any common period of time.

(k) "Project Storage" is the combined capacity of Elephant Butte Reservoir and all other reservoirs actually available for the storage of usable water below Elephant Butte and above the first diversion to lands of the Rio Grande Project, but not more than a total of 2,638,860 acre feet.

RIO GRANDE COMPACT

(I) "Usable Water" is all water, exclusive of credit water, which is in project storage and which is available for release in accordance with irrigation demands, including deliveries

(m) "Credit Water" is that amount of water in project storage which is equal to the accrued credit of Colorado, or New Mexico, or both.

(n) "Unfilled Capacity" is the difference between the total physical capacity of project storage and the amount of usable water then in storage.

(o) "Actual Release" is the amount of usable water released in any calendar year from the lowest reservoir comprising project storage.

(p) "Actual Spill" is all water which is actually spilled from Elephant Butte Reservoir, or is released therefrom for flood control, in excess of the current demand on project storage and which does not become usable water by storage in another reservoir; provided, that actual spill of usable water cannot occur until all credit water shall have been spilled.

(q)"Hypothetical Spill" is the time in any year at which usable water would have spilled from project storage if 790,000 acre feet had been released therefrom at rates proportional to the actual release in every year from the starting date to the end of the year in which hypothetical spill occurs; in computing hypothetical spill the initial condition shall be the amount of usable water in project storage at the beginning of the calendar year following the effective date of this Compact, and thereafter the initial condition shall be the amount of usable water in project storage at the beginning of the calendar year following each actual

ARTICLE II

The Commission shall cause to be maintained and operated a stream gaging station equipped with an automatic water stage recorder at each of the following points, to-wit:

(a) On the Rio Grande near Del Norte above the principal points of diversion to the San Luis Valley:

(b) On the Conejos River near Mogote;

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(c) On the Los Pinos River near Ortiz;

(d) On the San Antonio River at Ortiz;

(e) On the Conejos River at its mouths near Los Sauces;

(f) On the Rio Grande near Lobatos;

(g) On the Rio Chama below El Vado Reservoir,

(h) On the Rio Grande at Otowi Bridge near San Ildefonso;

(i) On the Rio Grande near San Acacia;

(j) On the Rio Grande at San Marcial;

(k) On the Rio Grande below Elephant Butte Reservoir;

(I) On the Rio Grande below Caballo Reservoir.

Similar gaging stations shall be maintained and operated below any other reservoir constructed after 1929, and at such other points as may be necessary for the securing of records required for the carrying out of the Compact; and automatic water stage recorders shall be maintained and operated on each of the reservoirs mentioned, and on all others

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RIO GRANDE COMPACT COMMISSION REPORT

Such gaging stations shall be equipped, maintained and operated by the Commission directly or in cooperation with an appropriate Federal or State agency, and the equipment, method and frequency of measurement at such stations shall be such as to produce reliable records at all times. (Note: See Resolution of Commission printed elsewhere in this report.)

ARTICLE III

The obligation of Colorado to deliver water in the Rio Grande at the Colorado-New Mexico State Line, measured at or near Lobatos, in each calendar year, shall be ten thousand acre feet less than the sum of those quantities set forth in the two following tabulations of relationship, which correspond to the quantities at the upper index stations:

DISCHARGE OF CONEJOS RIVER

Quantities in thousands of acre feet

Conejos Index Supply (1)	Conejos River at Mouths (2)
100	0
150	20
200	45
250	75
300	109
350	147
400	188
450	232
500	278
500	326
600	376
650	426
700	476

Intermediate quantities shall be computed by proportional parts.

(1) Conejos Index Supply is the natural flow of Conejos River at the U.S.G.S. gaging station near Mogote during the calendar year, plus the natural flow of Los Pinos River at the U.S.G.S. gaging station near Ortiz and the natural flow of San Antonio River at the U.S.G.S. gaging station at Ortiz, both during the months of April to October, inclusive.

(2) Conejos River at Mouths is the combined discharge of branches of this river at the U.S.G.S. gaging stations near Los Sauces during the calendar year.

DISCHARGE OF RIO GRANDE EXCLUSIVE OF CONEJOS RIVER Quantities in thousands of acre feet

Grande at Del Norte (3)	Rio Grande at Lobatos less Conejos at Mouths (4)
200	60
250	65
300	75
350	86
400	98
450	112
500	127
550	144
600	162

RIO GRANDE COMPACT

DISCHARGE OF RIO GRANDE EXCLUSIVE OF CONEJOS RIVER--Con. Quantities in thousands of acre feet

Rio Grande at Del Norte (3)	Rio Grande at Lobatos less Coneios at Mouths (4)
650	,
700	182
750	204
800	229
850	257
900	292
950	335
1 000	380
1 100	430
1,100	540
1,200	640
1,300	740
1,400	840

Intermediate quantities shall be computed by proportional parts.

(3) Rio Grande at Del Norte is the recorded flow of the Rio Grande at the U.S.G.S. gaging station near Del Norte during the calendar year (measured above all principal points of diversion to San Luis Valley) corrected for the operation of reservoirs constructed after 1937.

(4) Rio Grande at Lobatos less Conejos at Mouths is the total flow of the Rio Grande at the U.S.G.S. gaging station near Lobatos, less the discharge of Conejos River at its Mouths, during the calendar year.

The application of these schedules shall be subject to the provisions hereinafter set forth and appropriate adjustments shall be made for (a) any change in location of gaging stations; (b) any new or increased depletion of the runoff above inflow index gaging stations; and (c) any transmountain diversions into the drainage basin of the Rio Grande above Lobatos.

In event any works are constructed after 1937 for the purpose of delivering water into the Rio Grande from the Closed Basin, Colorado shall not be credited with the amount of such water delivered, unless the proportion of sodium ions shall be less than forty-five percent of the total positive ions in that water when the total dissolved solids in such water exceeds three hundred fifty parts per million.

ARTICLE IV

The obligation of New Mexico to deliver water in the Rio Grande at San Marcial, during each calendar year, exclusive of the months of July, August, and September, shall be that quantity set forth in the following tabulation of relationship, which corresponds to the quantity at the upper index station:

RIO GRANDE COMPACT COMMISSION REPORT

DISCHARGE OF RIO GRANDE AT OTOWI BRIDGE AND AT SAN MARCIAL EXCLUSIVE OF JULY, AUGUST AND SEPTEMBER Quantities in thousands of acre feet

Otowi Index Supply (5)	San Marcial Index Supply (6)
100	0
200	65
300	141
400	219
500	300
600	383
700	469
800	557
900	648
1,000	742
1,100	839
1,200	939
1,300	1,042
1,400	1,148
1,500	1,257
1,600	1,370
1,700	1,489
1,800	1,608
1,900	1,730
2,000	1,856
2,100	1,985
2,200	2,117
2,300	2,253

Intermediate quantities shall be computed by proportional parts.

(5) The Otowi Index Supply is the recorded flow of the Rio Grande at the U.S.G.S. gaging station at Otowi Bridge near San Ildefonso (formerly station near Buckman) during the calendar year, exclusive of the flow during the months of July, August and September, corrected for the operation of reservoirs constructed after 1929 in the drainage basin of the Rio Grande between Lobatos and Otowi Bridge.

(6) San Marcial Index Supply is the recorded flow of the Rio Grande at the gaging station at San Marcial during the calendar year exclusive of the flow during the months of July, August and September.

The application of this schedule shall be subject to the provisions hereinafter set forth and appropriate adjustments shall be made for (a) any change in location of gaging stations; (b) depletion after 1929 in New Mexico at any time of the year of the natural runoff at Otowi Bridge; (c) depletion of the runoff during July, August and September of tributaries between Otowi Bridge and San Marcial, by works constructed after 1937; and (d) any transmountain diversions into the Rio Grande between Lobatos and San Marcial.

Concurrent records shall be kept of the flow of the Rio Grande at San Marcial, near San Acacia, and of the release from Elephant Butte Reservoir to the end that the records at these three stations may be correlated. (Note: See Resolution of Commission printed elsewhere in this report.)

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RIO GRANDE COMPACT

ARTICLE V

If at any time it should be the unanimous finding and determination of the Commission that because of changed physical conditions, or for any other reason, reliable records are not obtainable, or cannot be obtained, at any of the stream gaging stations herein referred to, such stations may, with the unanimous approval of the Commission, be abandoned, and with such approval another station, or other stations, shall be established and new measurements shall be substituted which, in the unanimous opinion of the Commission, will result in substantially the same results so far as the rights and obligations to deliver water are concerned, as would have existed if such substitution of stations and measurements had not been so made. (Note: See Resolution of Commission printed elsewhere in

ARTICLE VI

Commencing with the year following the effective date of this Compact, all credits and debits of Colorado and New Mexico shall be computed for each calendar year; provided, that in a year of actual spill no annual credits nor annual debits shall be computed for

In the case of Colorado, no annual debit nor accrued debit shall exceed 100,000 acre feet, except as either or both may be caused by holdover storage of water in reservoirs constructed after 1937 in the drainage basin of the Rio Grande above Lobatos. Within the physical limitations of storage capacity in such reservoirs, Colorado shall retain water in storage at all times to the extent of its accrued debit.

In the case of New Mexico, the accrued debit shall not exceed 200,000 acre feet at any time, except as such debit may be caused by holdover storage of water in reservoirs constructed after 1929 in the drainage basin of the Rio Grande between Lobatos and San Marcial. Within the physical limitations of storage capacity in such reservoirs, New Mexico shall retain water in storage at all times to the extent of its accrued debit. In computing the magnitude of accrued credits or debits, New Mexico shall not be charged with any greater debit in any one year than the sum of 150,000 acre-feet and all gains in the quantity of water in storage in such year.

The Commission by unanimous action may authorize the release from storage of any amount of water which is then being held in storage by reason of accrued debits of Colorado or New Mexico; provided, that such water shall be replaced at the first opportunity

In computing the amount of accrued credits and accrued debits of Colorado or New Mexico, any annual credits in excess of 150,000 acre feet shall be taken as equal to

In any year in which actual spill occurs, the accrued credits of Colorado, or New Mexico, or both, at the beginning of the year shall be reduced in proportion to their respective credits by the amount of such actual spill; provided that the amount of actual spill shall be deemed to be increased by the aggregate gain in the amount of water in storage, prior to the time of spill, in reservoirs above San Marcial constructed after 1929; provided, further, that if the Commissioners for the States having accrued credits authorize the release of part, or all, of such credits in advance of spill, the amount so released shall be deemed to consti-

In any year in which there is actual spill of usable water, or at the time of hypothetical spill thereof, all accrued debits of Colorado, or New Mexico, or both, at the beginning of the year shall be cancelled.

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RIO GRANDE COMPACT COMMISSION REPORT

In any year in which the aggregate of accrued debits of Colorado and New Mexico exceeds the minimum unfilled capacity of project storage, such debits shall be reduced proportionally to an aggregate amount equal to such minimum unfilled capacity.

To the extent that accrued credits are impounded in reservoirs between San Marcial and Courchesne, and to the extent that accrued debits are impounded in reservoirs above San Marcial, such credits and debits shall be reduced annually to compensate for evaporation losses in the proportion that such credits or debits bore to the total amount of water in such reservoirs during the year.

ARTICLE VII

Neither Colorado nor New Mexico shall increase the amount of water in storage in reservoirs constructed after 1929 whenever there is less than 400,000 acre feet of usable water in project storage; provided, that if the actual releases of usable water from the beginning of the calendar year following the effective date of this Compact, or from the beginning of the calendar year following actual spill, have aggregated more than an average of 790,000 acre feet per annum, the time at which such minimum stage is reached shall be adjusted to compensate for the difference between the total actual release and releases at such average rate; provided, further, that Colorado, or New Mexico, or both, may relinquish accrued credits at any time, and Texas may accept such relinquished water, and in such event the state, or states, so relinquishing shall be entitled to store water in the amount of the water so relinquished.

ARTICLE VIII

During the month of January of any year the Commissioner for Texas may demand of Colorado and New Mexico, and the Commissioner for New Mexico may demand of Colorado, the release of water from storage reservoirs constructed after 1929 to the amount of the accrued debits of Colorado and New Mexico, respectively, and such releases shall be made by each at the greatest rate practicable under the conditions then prevailing, and in proportion to the total debit of each, and in amounts, limited by their accrued debits, sufficient to bring the quantity of usable water in project storage to 600,000 acre feet by March first and to maintain this quantity in storage until April thirtieth, to the end that a normal release of 790,000 acre feet may be made from project storage in that year.

ARTICLE IX

Colorado agrees with New Mexico that in event the United States or the State of New Mexico decides to construct the necessary works for diverting the waters of the San Juan River, or any of its tributaries, into the Rio Grande, Colorado hereby consents to the construction of said works and the diversion of waters from the San Juan River, or the tributaries thereof, into the Rio Grande in New Mexico, provided the present and prospective uses of water in Colorado by other diversions from the San Juan River, or its tributaries, are protected.

ARTICLE X

In the event water from another drainage basin shall be imported into the Rio Grande Basin by the United States or Colorado or New Mexico, or any of them jointly, the State having the right to the use of such water shall be given proper credit therefor in the application of the schedules.

ARTICLE XI

New Mexico and Texas agree that upon the effective date of this Compact all controversies between said States relative to the quantity or quality of the water of the Rio Grande are composed and settled; however, nothing herein shall be interpreted to prevent

RIO GRANDE COMPACT

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The character or quality of the water, at the point of delivery, be changed hereafter by one signatory state to the injury of another. Nothing herein shall be construed as an admission by any signatory state that the use of water for irrigation causes increase of salinity for which the user is responsible in law.

ARTICLE XII

To administer the provisions of this Compact there shall be constituted a Commission composed of one representative from each state, to be known as the Rio Grande Compact Commission. The State Engineer of Colorado shall be ex-officio the Rio Grande Compact Commissioner for Colorado. The State Engineer of New Mexico shall be ex-officio the Rio Grande Compact Commissioner for New Mexico. The Rio Grande Compact Commissioner for Texas shall be appointed by the Governor of Texas. The President of the United States shall be requested to designate a representative of the United States to sit with such Commission, and such representative of the United States, if so designated by the President, shall act as Chairman of the Commission without vote.

The salaries and personal expenses of the Rio Grande Compact Commissioners for the three States shall be paid by their respective States, and all other expenses incident to the administration of this Compact, not borne by the United States, shall be borne equally by the three States.

In addition to the powers and duties hereinbefore specifically conferred upon such Commission, and the members thereof, the jurisdiction of such Commission shall extend only to the collection, correlation and presentation of factual data and the maintenance of records having a bearing upon the administration of this Compact, and, by unanimous action, to the making of recommendations to the respective States upon matters connected with the administration of this Compact. In connection therewith, the Commission may employ such engineering and clerical aid as may be reasonably necessary within the limit of funds provided for that purpose by the respective States. Annual reports compiled for each natory States on or before March first following the year covered by the report. The Commission may, by unanimous action, adopt rules and regulations consistent with the provisions of this Compact to govern their proceedings.

The findings of the Commission shall not be conclusive in any court or tribunal which may be called upon to interpret or enforce this Compact.

ARTICLE XIII

At the expiration of every five-year period after the effective date of this Compact, the Commission may, by unanimous consent, review any provisions hereof which are not substantive in character and which do not affect the basic principles upon which the Compact is founded, and shall meet for the consideration of such questions on the request of any member of the Commission; provided, however, that the provisions hereof shall remain in full force and effect until changed and amended within the intent of the Compact by unanimous action of the Commissioners, and until any changes in this Compact are ratified by the legislatures of the respective states and consented to by the Congress, in the same manner as this Compact is required to be ratified to become effective.

ARTICLE XIV

The schedules herein contained and the quantities of water herein allocated shall never be increased nor diminished by reason of any increase or diminution in the delivery or loss of water to Mexico.

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RIO GRANDE COMPACT COMMISSION REPORT

ARTICLE XV

The physical and other conditions characteristic of the Rio Grande and peculiar to the territory drained and served thereby, and to the development thereof, have actuated this Compact and none of the signatory states admits that any provisions herein contained establishes any general principle or precedent applicable to other interstate streams.

ARTICLE XVI

Nothing in this Compact shall be construed as affecting the obligations of the United States of America to Mexico under existing treaties, or to the Indian Tribes, or as impairing the rights of the Indian Tribes.

ARTICLE XVII

This Compact shall become effective when ratified by the legislatures of each of the signatory states and consented to by the Congress of the United States. Notice of ratification shall be given by the Governor of each state to the Governors of the other states and to the President of the United States, and the President of the United States is requested to give notice to the Governors of each of the signatory states of the consent of the Congress of the United States.

IN WITNESS WHEREOF, the Commissioners have signed this Compact in quadruplicate original, one of which shall be deposited in the archives of the Department of State of the United States of America and shall be deemed the authoritative original, and of which a duly certified copy shall be forwarded to the Governor of each of the signatory States.

Done at the City of Santa Fe, in the State of New Mexico, on the 18th day of March, in the year of our Lord, One Thousand Nine Hundred and Thirty-eight.

(Sgd.) M. C. HINDERLIDER (Sgd.) THOMAS M. McCLURE (Sgd.) FRANK B. CLAYTON

APPROVED:

(Sgd.) S. O. HARPER

RATIFIED BY:

Colorado, February 21, 1939 New Mexico, March 1, 1939 Texas, March 1, 1939

Passed Congress as Public Act No. 96, 76th Congress,

Approved by the President May 31, 1939

RESOLUTION ADOPTED BY RIO GRANDE COMPACT COMMISSION AT THE ANNUAL MEETING HELD AT EL PASO, TEXAS, FEBRUARY 22-24, 1948, CHANGING GAGING STATIONS AND MEASUREMENTS OF DELIVERIES BY NEW MEXICO

RESOLUTION

Whereas, at the Annual Meeting of the Rio Grande Compact Commission in the year 1945, the question was raised as to whether or not a schedule for delivery of water by New Mexico during the entire year could be worked out, and

Whereas, at said meeting the question was referred to the Engineering Advisers for their study, recommendations and report, and

Whereas, said Engineering Advisers have met, studied the problems and under date of February 24, 1947, did submit their Report, which said Report contains the findings of said Engineering Advisers and their recommendations, and

Whereas, the Compact Commission has examined said Report and finds that the matters and things therein found and recommended are proper and within the terms of the

Whereas, the Commission has considered said Engineering Advisers' Report and all available evidence, information and material and is fully advised:

Now, Therefore, Be it Resolved:

The Commission finds as follows:

- (a) That because of change of physical conditions, reliable records of the amount of water passing San Marcial are no longer obtainable at the stream gaging station at San Marcial and that the same should be abandoned for Compact
- (b) That the need for concurrent records at San Marcial and San Acacia no longer exists and that the gaging station at San Acacia should be abandoned for
- (c) That it is desirable and necessary that the obligations of New Mexico under the Compact to deliver water in the months of July, August, September, should be
- (d) That the change in gaging stations and substitution of the new measurements as hereinafter set forth will result in substantially the same results so far as the rights and obligations to deliver water are concerned, and would have existed if such substitution of stations and measurements had not been so made.

Be it Further Resolved:

That the following measurements and schedule thereof shall be substituted for the measurements and schedule thereof as now set forth in Article IV of the

"The obligation of New Mexico to deliver water in the Rio Grande into Elephant Butte Reservoir during each calendar year shall be measured by that quantity set forth in the following tabulation of relationship which corresponds to the quantity at the upper index station:

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RIO GRANDE COMPACT COMMISSION REPORT

DISCHARGE OF RIO GRANDE AT OTOWI BRIDGE AND ELEPHANT BUTTE EFFECTIVE SUPPLY

Quantities in thousands of acre-feet

Otowi Index Supply (5)	Elephant Butte Effective Index Supply (6)
100	57
200	114
300	171
400	228
500	286
600	345
700	406
800	471
900	542
1,000	621
1,100	707
1,200	800
1,300	897
1,400	996
1,500	1,095
1,600	1,195
1,700	1,295
1,800	1,395
1,900	1,495
2,000	1,595
2,100	1,695
2,200	1,795
2,300	1,895
2,400	1,995
2,500	2,095
2,600	2,195
2,700	2,295
2,800	2,395
2,900	2,495
3.000	2,595

Intermediate quantities shall be computed by proportional parts.

- (5) The Otowi Index Supply is the recorded flow of the Rio Grande at the U.S.G.S. gaging station at Otowi Bridge near San ildefonso (formerly station near Buckman) during the calendar year, corrected for the operation of reservoirs constructed after 1929 in the drainage basin of the Rio Grande between Lobatos and Otowi Bridge.
- (6) Elephant Butte Effective Index Supply is the recorded flow of the Rio Grande at the gaging station below Elephant Butte Dam during the calendar year plus the net gain in storage in Elephant Butte Reservoir during the same year or minus the net loss in storage in said reservoir, as the case may be.

The application of this schedule shall be subject to the provisions hereinafter set forth and appropriate adjustments shall be made for (a) any change in location of gaging stations; (b) depletion after 1929 in New Mexico of the natural runoff at Otowi Bridge; and (c) any transmountain diversions into the Rio

RESOLUTION OF COMMISSION

Grande between Lobatos and Elephant Butte Reservoir."

Be it Further Resolved:

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That the gaging stations at San Acacia and San Marcial be, and the same are hereby abandoned for Compact purposes.

Be it Further Resolved:

That this Resolution has been passed unanimously and shall be effective January 1, 1949, if within 120 days from this date the Commissioner for each State shall have received from the Attorney General of the State represented by him, an opinion approving this Resolution, and shall have so advised the Chairman of the Commission, otherwise, to be of no force and effect.

(Note: The following paragraph appears in the Minutes of the Annual Meeting of the Commission held at Denver, Colorado, February 14-16, 1949.

"The Chairman announced that he had received, pursuant to the Resolution adopted by the Commission at the Ninth Annual Meeting on February 24, 1948, opinions from the Attorneys General of Colorado, New Mexico and Texas that the substitution of stations and measurements of deliveries by New Mexico set forth in said resolution was within the powers of the Commission").

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RIO GRANDE COMPACT COMMISSION REPORT RULES AND REGULATIONS FOR ADMINISTRATION OF

THE RIO GRANDE COMPACT

A Compact, known as the Rio Grande Compact, between the States of Colorado, New Mexico and Texas, having become effective on May 31, 1939 by consent of the Congress of the United States, which equitably apportions the waters of the Rio Grande above Fort Quitman and permits each State to develop its water resources at will, subject only to its obligations to deliver water in accordance with the schedules set forth in the Compact, the following Rules and Regulations have been adopted for its administration by the Rio Grande Compact Commission; to be and remain in force and effect only so long as the same may be satisfactory to each and all members of the Commission, and provided always that on the objection of any member of the Commission, in writing, to the remaining two members of the Commission after a period of sixty days from the date of such objection, the sentence, paragraph or any portion or all of these rules to which any such objection shall be made, shall stand abrogated and shall thereafter have no further force and effect; it being the intent and purpose of the Commission to permit these rules to obtain and be effective only so long as the same may be satisfactory to each and all of the Commissioners.

GAGING STATIONS /1

Responsibility for the equipping, maintenance and operation of the stream gaging stations and reservoir gaging stations required by the provisions of Article II of the Compact shall be divided among the signatory States as follows:

(a) Gaging stations on streams and reservoirs in the Rio Grande Basin above the Colorado-New Mexico boundary shall be equipped, maintained, and operated by Colorado in cooperation with the U.S. Geological Survey.

(b) Gaging stations on streams and reservoirs in the Rio Grande Basin below Lobatos and above Caballo Reservoir shall be equipped, maintained and operated by New Mexico in cooperation with the U.S. Geological Survey to the extent that such stations are not maintained and operated by some other Federal agency.

(c) Gaging stations on Elephant Butte Reservoir and on Caballo Reservoir, and the stream gaging stations on the Rio Grande below those reservoirs shall be equipped, maintained and operated by or on behalf of Texas through the agency of the U.S. Bureau of Reclamation.

The equipment, method and frequency of measurements at each gaging station shall be sufficient to obtain records at least equal in accuracy to those classified as "good" by the U.S. Geological Survey. Water-stage recorders on the reservoirs specifically named in Article II of the Compact shall have sufficient range below maximum reservoir level to record major fluctuations in storage. Staff gages may be used to determine fluctuations below the range of the water-stage recorders on these and other large reservoirs, and staff gages may be used upon approval of the Commission in lieu of water-stage recorders on small reservoirs, provided that the frequency of observation is sufficient in each case to establish any material changes in water levels in such reservoirs.

1 Amended at Eleventh Annual Meeting, February 23, 1950.

RULES AND REGULATIONS

RESERVOIR CAPACITIES /1

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Colorado shall file with the Commission a table of areas and capacities for each reservoir in the Rio Grande Basin above Lobatos constructed after 1937; New Mexico shall file with the Commission a table of areas and capacities for each reservoir in the Rio Grande Basin between Lobatos and San Marcial constructed after 1929; and Texas shall file with the Commission tables of areas and capacities for Elephant Butte Reservoir and for all other reservoirs actually available for the storage of water between Elephant Butte and the first diversion to lands under the Rio Grande Project.

Whenever it shall appear that any table of areas and capacities is in error by more than five per cent, the Commission shall use its best efforts to have a re-survey made and a corrected table of areas and capacities to be substituted as soon as practicable. To the end that the Elephant Butte effective supply may be computed accurately, the Commission shall use its best efforts to have the rate of accumulation and the place of deposition of silt in Elephant Butte Reservoir checked at least every three years.

ACTUAL SPILL /2

(a) Water released from Elephant Butte in excess of Project requirements, which is currently passed through Caballo Reservoir, prior to the time of spill, shall be deemed to have been Usable Water released in anticipation of spill, or Credit Water if such release shall have been authorized.

(b) Excess releases from Elephant Butte Reservoir, as defined in (a) above, shall be added to the quantity of water actually in storage in that reservoir, and Actual Spill shall be deemed to have commenced when this sum equals the total physical capacity of that reservoir, to the level of the uncontrolled spillway, i.e. -2,219,000 acre-ft in 1942.

(c) All water actually spilled at Elephant Butte Reservoir, or released therefrom, in excess of Project requirements, which is currently passed through Caballo Reservoir, after the time of spill, shall be considered as Actual Spill, provided that the total quantity of water then in storage in Elephant Butte Reservoir exceeds the physical capacity of that reservoir at the level of the sill of the spillway gates, i.e. -1,830,000 acre-ft in 1942.

(d) Water released from Caballo Reservoir in excess of Project requirements and in excess of water currently released from Elephant Butte Reservoir, shall be deemed Usable Water released, excepting only flood water entering Caballo Reservoir from tributaries below Elephant Butte Reservoir.

DEPARTURES FROM NORMAL RELEASES /3

For the purpose of computing the time of Hypothetical Spill required by Article VI and for the purpose of the adjustment set forth in Article VII, no allowance shall be made for the difference between Actual and Hypothetical Evaporation, and any under-release of usable water from Project Storage in excess of 150,000 acre-ft in any year shall be taken as

1 Amended at Eleventh Annual Meeting, February 23, 1950.

2 Adopted at Fourth Annual Meeting, February 24, 1943.

3 Adopted June 2, 1959; made effective January 1, 1952.

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RIO GRANDE COMPACT COMMISSION REPORT

EVAPORATION LOSSES 14, 15, 16

The Commission shall encourage the equipping, maintenance and operation, in cooperation with the U.S. Weather Bureau or other appropriate agency, of evaporation stations at Elephant Butte Reservoir and at or near each major reservoir in the Rio Grande Basin within Colorado constructed after 1937 and in New Mexico constructed after 1929. The net loss by evaporation from a reservoir surface shall be taken as the difference between the actual evaporation loss and the evapo-transpiration losses which would have occurred naturally, prior to the construction of such reservoir. Changes in evapo-transpiration losses along stream channels below reservoirs may be disregarded.

Net losses by evaporation, as defined above, shall be used in correcting Index Supplies for the operation of reservoirs upstream from Index Gaging Stations as required by the provisions of Article III and Article IV of the Compact.

In the application of the provisions of the last unnumbered paragraph of Article VI of the Compact:

(a) Evaporation losses for which accrued credits shall be reduced shall be taken as the difference between the gross evaporation from the water surface of Elephant Butte Reservoir and rainfall on the same surface.

(b) Evaporation losses for which accrued debits shall be reduced shall be taken as the net loss by evaporation as defined in the first paragraph.

ADJUSTMENT OF RECORDS

The Commission shall keep a record of the location, and description of each gaging station and evaporation station, and, in the event of change in location of any stream gaging station for any reason, it shall ascertain the increment in flow or decrease in flow between such locations for all stages. Wherever practicable, concurrent records shall be obtained for one year before abandonment of the previous station.

NEW OR INCREASED DEPLETIONS

In the event any works are constructed which alter or may be expected to alter the flow at any of the Index Gaging Stations mentioned in the Compact, or which may otherwise necessitate adjustments in the application of the schedules set forth in the Compact, it shall be the duty of the Commissioner specifically concerned to file with the Commission all available information pertaining thereto, and appropriate adjustments shall be made in accordance with the terms of the Compact; provided, however, that any such adjustments shall in no way increase the burden imposed upon Colorado or New Mexico under the schedules of deliveries established by the Compact.

TRANSMOUNTAIN DIVERSIONS

In the event any works are constructed for the delivery of waters into the drainage basin of the Rio Grande from any stream system outside of the Rio Grande Basin, such waters shall be measured at the point of delivery into the Rio Grande Basin and proper allowances shall be made for losses in transit from such points to the Index Gaging Station on the stream with which the imported waters are comingled.

/4 Amended at Tenth Annual Meeting, February 15, 1949.

15 Amended at Twelfth Annual Meeting, February 24, 1951.

/6 Amended June 2, 1959.

RULES AND REGULATIONS

COUALITY OF WATER

In the event that delivery of water is made from the Closed Basin into the Rio Grande, sufficient samples of such water shall be analyzed to ascertain whether the quality thereof is within the limits established by the Compact.

SECRETARY /

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The Commission, subject to the approval of the Director, U.S. Geological Survey, to a cooperative agreement for such purposes, shall employ the U.S. Geological Survey on a yearly basis, to render such engineering and clerical aid as may reasonably be necessary for administration of the Compact. Said agreement shall provide that the Geological Survey

(1) Collect and correlate all factual data and other records having a material bearing on the administration of the Compact and keep each Commissioner adviser thereof.

Inspect all gaging stations required for administration of the Compact and (2) make recommendations to the Commission as to any changes or improvements in methods of measurement or facilities for measurement which may be needed to insure that reliable

(3) Report to each Commissioner by letter on or before the fifteenth day of each month, except January, a summary of all hydrographic data then available for the current year - on forms prescribed by the Commission - pertaining to:

(a) Deliveries by Colorado

- (b) Deliveries by New Mexico
- (c) Operation of Project Storage

(4) Make such investigations as may be requested by the Commission in aid of its administration of the Compact.

(5) Act as Secretary to the Commission and submit to the Commission at its regular meeting in February a report on its activities and a summary of all data needed for determination of debits and credits and other matters pertaining to administration of the Compact.

COSTS /1

In February of each year, the Commission shall adopt a budget for the ensuing fiscal year beginning July first.

Such budget shall set forth the total cost of maintenance and operating of gaging stations, of evaporation stations, the cost of engineering and clerical aid, and all other necessary expenses excepting the salaries and personal expenses of the Rio Grande Compact

Contributions made directly by the United States and the cost of services rendered by the United States without cost shall be deducted from the total budget amount; the remainder shall then be allocated equally to Colorado, New Mexico and Texas.

/ The substitution of this section for the section titled "Reports to Commissioners" was adopted at Ninth Annual Meeting, February 22, 1948.

1 Amended at Eleventh Annual Meeting, February 23, 1950.

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RIO GRANDE COMPACT COMMISSION REPORT

Expenditures made directly by any State for purposes set forth in the budget shall be credited to that State; contributions in cash or in services by any State under a cooperative agreement with any federal agency shall be credited to such State, but the amount of the federal contribution shall not so be credited; in event any State, through contractual relationships, causes work to be done in the interest of the Commission, such State shall be credited with the cost thereof, unless such cost is borne by the United States.

Costs incurred by the Commission under any cooperative agreement between the Commission and any U.S. Government Agency, not borne by the United States, shall be apportioned equally to each State, and each Commissioner shall arrange for the prompt payment of one-third thereof by his State.

The Commissioner of each State shall report at the annual meeting each year the amount of money expended during the year by the State which he represents, as well as the portion thereof contributed by all cooperating federal agencies, and the Commission shall arrange for such proper reimbursement in cash or credits between States as may be necessary to equalize the contributions made by each State in the equipment, maintenance and operation of all gaging stations authorized by the Commission and established under the terms of the Compact.

It shall be the duty of each Commissioner to endeavor to secure from the Legislature of his State an appropriation of sufficient funds with which to meet the obligations of his State, as provided by the Compact.

MEETING OF COMMISSION /1, /8

The Commission shall meet in Santa Fe, New Mexico, on the third Thursday of February of each year for the consideration and adoption of the annual report for the calendar year preceding, and for the transaction of any other business consistent with its authority; provided that the Commission may agree to meet elsewhere. Other meetings as may be deemed necessary shall be held at any time and place set by mutual agreement, for the consideration of data collected and for the transaction of any business consistent with its authority.

No action of the Commission shall be effective until approved by the Commissioner from each of the three signatory States.

> (Signed) M. C. HINDERLIDER M. C. Hinderlider Commissioner for Colorado (Signed) THOMAS M. McCLURE Thomas M. McClure Commissioner for New Mexico JULIAN P. HARRISON (Signed) Julian P. Harrison **Commissioner for Texas**

Adopted December 19, 1939.

/1 Amended at Eleventh Annual Meeting, February 23, 1950.

<u>/8</u> Amended at Thirteenth Annual Meeting, February 25, 1952.

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RIO GRANDE COMPACT COMMISSION REPORT RECORDS OF DELIVERIES AND RELEASES

At the annual meeting of the Compact Commission on March 23, 1995, the records of deliveries and releases and computations of debits and credits for calendar year 1994 were reported. The records and computations as approved by the Commission are reproduced on the next three pages.

The delivery of water in the Rio Grande at the Colorado-New Mexico State line was obtained from the record of streamflow near Lobatos, Colorado; the scheduled delivery was computed as prescribed in Article III.

The delivery of water by New Mexico to Elephant Butte was computed from the record of streamflow below Elephant Butte Dam and the record of operation of Elephant Butte Reservoir; the scheduled delivery was computed as prescribed in the Resolution of the Commission adopted at the Ninth Annual Meeting held February 22-24, 1948, and published in this report. Actual spill of credit water from project storage began on June 26, 1994, and 10,000 acre-feet of credit water subsequently spilled.

The actual release from Project Storage during the year was measured at gaging stations below Caballo Dam. During 1994 the actual release of usable water exceeded the normal release of 790,000 acre-feet. The actual release of usable water for 1994 totalled 884,100 acre-feet. The accrued departure from normal release on January 1, 1995, was zero.

RIO GRANDE COMPACT. DELIVERIES BY COLORADO AT STATE LINE YEAR 1994

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COST OF OPERATION FOR FISCAL YEAR ENDING JUNE 30, 1994

Item		Borne by		Borne by	
GAGING STATIONS	Total Cost	United States	Colorado	New Mexico	Техая
				<u> </u>	
in Colorado	\$42,714	\$4,116	\$38.598		
In New Mexico, above Caballo Reservior	\$49,170	\$27,970	,	\$21,200	
In New Mexico, Caballo Reservior and below	\$13,640	\$2,120		\$1,520	\$10.000
Subtotal	\$105,524	\$34,206	\$38,598	\$22 720	
ADMINISTRATION				\$22,720	\$10,000
U.S.G.S. Contract	\$19,520	\$4,880	\$4,880	\$4,880	\$4.000
Scher expense	\$1,683		\$561	\$561	\$561
Subtotal	\$21,203	\$4,880	\$5,441	\$5,441	\$5.441
QUAL SHARES	\$126,727	\$39,086	\$44,039	\$28,161	\$15,441
			\$29,214	\$29,214	\$29,214

BUDGET FOR FISICAL YEAR ENDING JUNE 30, 1996

Item		Borne by		Borne by	
GACING CTANTONS	Total Cost	United States	Colorado	New Mexico	Texas
In Colorado			† == <u>=</u> = =	 	
In New Mexico, above cability	\$47,613	\$5,303	\$42,310		
Reservior	\$53,300	\$29,850		\$23,450	
In New Mexico, Caballo Reservior and below	\$40,860	\$25,139		\$1,700	\$14,021
Subtotal	\$141,773	\$60,292	\$42 310		<u> </u>
ADMINISTRATION				\$25,150	\$14,021
U.S.G.S. Contract Other expense	\$21,320 \$2,025	\$4,880	\$5,480	\$5,480	\$5,480
Subtotal	\$23,345	\$4.990	\$675	\$675	\$675
GRAND TOTAL	\$165,118	\$4,880	\$6,155	\$6,155	\$6,155
EQUAL SHARES		\$65,172	\$48,465	\$31,305	\$20,176
	l		\$33,315	\$33,315	\$33,315

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This report was prepared by the U.S. Geological Survey, secretary to the Rio Grande Compact Commission. The water-supply data contained in this report have been provided by various Federal and State agencies.

The office of the State Engineer of Colorado provided records of discharge for the following:

Rio Grande near Del Norte, Colo. Conejos River below Platoro Reservoir, Colo. Conejos River near Mogote, Colo. San Antonio River at Ortiz, Colo. Los Pinos River near Ortiz, Colo. Conejos River near Lasauses, Colo. Rio Grande near Lobatos, Colo.

Records of six transmountain diversions and of storage in Squaw and Shaw Lakes, Rito Hondo, Hermit Lakes Reservoir No. 3, Troutvale No. 2, Jumper Creek, Alberta Park, Big Meadows, Mill Creek, Fuchs, and Trujillo Meadows Reservoirs were also provided by the office of the State Engineer of Colorado.

The U.S. Bureau of Reclamation, Albuquerque, N. Mex., provided the following records:

Storage in Platoro Reservoir at Platoro, Colo.

Azotea tunnel at outlet, near Chama, N. Mex.

Willow Creek above Heron Res., near Los Ojos, N. Mex.

Horse Lake Creek above Heron Res., near Los Ojos, N. Mex.

Storage in Heron Reservoir near Los Ojos, N. Mex.

Willow Creek below Heron Dam, N. Mex.

Storage in El Vado Reservoir near Tierra Amarilla, N. Mex.

Storage in Nambe Falls Reservoir near Nambe, N. Mex.

Rio Nambe below Nambe Falls Dam, near Nambe, N. Mex.

The U.S. Geological Survey supplied the record for Rio Grande below Elephant Butte Dam, and in cooperation

with the New Mexico Interstate Stream Commission, also provided the following:

Rio Chama below El Vado Dam, N. Mex. Rio Grande at Otowi Bridge, near San Ildefonso, N. Mex. Storage in McClure Reservoir near Santa Fe, N. Mex. Santa Fe River near Santa Fe, N. Mex. Storage in Nichols Reservoir near Santa Fe, N. Mex.

The U.S. Geological Survey, in cooperation with the Corps of Engineers, Albuquerque, N. Mex., also provided

the following records:

Rio Chama below Abiquiu Dam, N. Mex. Rio Grande below Cochiti Dam, N. Mex. Galisteo Creek below Galisteo Dam, N. Mex.

Jemez River below Jemez Canyon Dam, N. Mex.

The Corps of Engineers, Albuquerque, N. Mex., provided the records of storage in Abiquiu, Galisteo, and Jemez Canyon Reservoirs and in Cochiti Lake.

The Southern Pueblos Agency, Bureau of Indian Affairs, Albuquerque, N. Mex., supplied the records of storage

in Acomita Reservoir. The Laguna Agency, Bureau of Indian Affairs, Laguna, N. Mex., supplied the records of storage in Seama

Reservoir.

The U.S. Bureau of Reclamation, El Paso, Texas, provided the following records:

Storage in Elephant Butte Reservoir at Elephant Butte, N. Mex.

Storage in Caballo Reservoir near Arrey, N. Mex.

Rio Grande below Caballo Dam, N. Mex.

Bonito ditch below Caballo Dam, N. Mex.

The Rio Grande Compact Commission gratefully acknowledges the cooperation received from these

agencies.

RIO GRANDE COMPACT COMMISSION REPORT ACCURACY OF RECORDS

The Rules and Regulations of the Commission state that the equipment, method, and frequency of measurement at each gaging station shall be sufficient to obtain records at least equal in accuracy to those classified as "good" by the U.S. Geological Survey. Within the physical limitations of stream gaging, the agencies obtaining the records at Compact gaging stations have complied with these regulations.

The accuracy of streamflow records depends primarily on (I) the stability of the stagedischarge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description states the degree of accuracy attributed to the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair" within 15 percent. Records that do not meet the criteria mentioned are probable error in a monthly or annual mean discharge depends more on the distribution of the daily errors between the limits than it does on the limits themselves. For this reason, monthly and annual records are more accurate than most daily records.

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STREAMFLOW

Rio Grande near Del Norte, Colo.

Location.-Water-stage recorder, lat 37°41′22", long 106°27′38", in NW1 /4 sec. 29, T. 40 N., R. 5 E., on right bank, 20 ft downstream from county highway bridge, 6 miles west of Del Norte, and 18 miles upstream from Pinos Creek. Datum of gage is 7,980.25 ft above mean sea level, datum of 1929. Prior to May 16, 1908, staff gage at site 4 miles downstream. Records are equivalent.

Drainage area.-1,320 sq mi, approximately.

Extremes.-1889-1994: Maximum discharge, 18,000 ft³/s Oct. 5, 1911 (gage height, 6.80 ft), from rating curve extended above 12,900 ft³/s; minimum daily, 69 ft³/s Aug. 21, 1902.

Remarks.-Records good except those for winter months, which are fair. Flow regulated by four reservoirs, total capacity 126,100 acreft, and by several smaller ones. Six transmountain diversions import water into basin above station.

Month	Monthly and yearly discharge, in cubic feet per second				
Second-	Maximum	Minimum daily	Mean		

Bunoff in

Manuth	Second-	Maximum daily	daily	Mean	acre-feet
Month	1001-04495				
	4 750	200	120	153	9,420
anuary	4 430	210	120	158	8,790
rebruary	7 794	365	200	251	15,460
March	17 708	1.560	227	577	34,310
April	78 414	4.240	613	2,529	155,500
мау	800	4 220	1,790	2,760	164,200
june	24 021	2 030	260	775	47,670
July	24,031	407	189	278	17,100
August	12.009	718	223	433	25,780
September	12,990	718	416	494	30,380
October	13,310	A01	180	283	16,850
November	8,470 7,000	300	190	236	14,540
December Calendar vear 1994	7,330 272,279	4,240	120	746	540,100

Conejos River below Platoro Reservoir, Colo.

Location .-- Water-stage recorder and concrete control, lat 37°21'18", long 106°32'37", in NW1/4NW1/4 sec. 22, T. 36 N., R. 4 E., on left bank 1,100 ft downstream from valve house for Platoro Reservoir, and 0.7 mile northwest of Platoro. Datum of gage is 9,866.60 ft above mean sea level (levels by Bureau of Reclamation).

Drainage area -40 sq mi, approximately.

Average discharge .- 42 years (1890-1994), 92.9 ft³/s (67,310 acre-ft per year).

Extremes.-1952-94: Maximum discharge, 1,160 ft³/s Nov. 1, 1957; maximum gage height, 4.29 ft June 15, 1958; no flow Oct. 16-20, 1955. Remarks.-Records good except those for winter months, which are fair. No diversions above station. Flow completely regulated by Platoro Reservoir (capacity, 59,570 acre-ft).

Monthly and yearly discharge,	in cubic f	feet per	second
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Month	Second-	Maximum daily	Minimum daily	Mean	Runoff in acre-feet
WORT	loor aujo				
	263.3	9.5	7.3	8.49	522
anuary	200.0	7.8	7.4	7.62	423
ebruary	213.4	87	7.8	8.01	493
larch	240.4	150	6.8	34.7	2,060
April	1,040.9	137	80	275	16,930
fay	8,534.0	742	01	445	26,460
ine	13,342	/43	176	202	12,410
ıly	6,257	324	120	95.4	5,870
ugust	2,957	174	01	54.5	3 240
eptember	1,635	96	24	34.3	2,500
,)ctober	1,260.3	62	7.1	40.7	422
lovember	213.0	7.1	7.1	7.10	4/2
locember	220.1	7.1	7.1	7.10	437
'alendar vear 1994	36,184.4	743	6.8	99.1	/1,//0

RIO GRANDE COMPACT COMMISSION REPORT

Conejos River near Mogote, Colo.

Location.-Water-stage recorder, lat 37°03'14", long 106°11'13", in SE1/4SE1/4 sec. 34, T. 33 N., R. 7 E., on right bank 25 ft upstream from bridge on State Highway 174, 0.4 mile downstream from Fox Creek, and 5.3 miles west of Mogote. Datum of gage is 8,271.54 ft above Drainage area -- 282 sq mi. Average discharge.--84 years (1904, 1912-94), 330 ft³/s (239,100 acre-ft per year).

Extremes.-1903-05, 1911-94: Maximum discharge, 9,000 ft³/s Oct. 5, 1911 (gage height, 8.50 ft), from rating curve extended above Remarks.-Records good except those for winter months, which are fair. Diversions above station for irrigation of about 500 acres.

Month	Second- foot-days	Maximum daily	Minimum		 Pu()
January February March April May June July August September October November December Calendar year 1994	1,359 1,321 3,123 7,716 35,833 41,977 10,496 6,079 4,630 4,196 2,518 1,878 121,126	58 64 150 694 1,640 2,150 460 302 288 211 111 76 2,150	daily 35 34 56 92 225 484 241 124 91 90 50 48 34	Mean 43.8 47.2 101 257 1,156 1,399 339 196 154 135 83.9 60.6 332	2,700 2,620 6,190 15,300 71,070 83,260 20,820 12,060 9,180 8,320 4,990 3,730

Monthly and yearly discharge, in cubic feet per second

San Antonio River at Ortiz, Colo.

Location .-- Water-stage recorder, lat 36°59'35", long 106°02'17", in New Mexico in NE1/4SE1/4, sec. 24, T. 32 N., R. 8 E., on left bank 800 ft south of New Mexico-Colorado State line, 0.4 mile southeast of Ortiz, and 0.4 mile upstream from Los Pinos River. Altitude Drainage area.—110 sq mi.

Average discharge. -54 years (1941-94), 26.1 ft³/s (18,910 acre-ft per year).

Extremes.-1920, 1925-94: Maximum discharge, 1,750 ft³/s Apr. 15, 1937 (gage height, 5,38 ft), from rating curve extended above Remarks.-Records good except those for winter months, which are fair. A few small diversions above station for irrigation.

Monthly and yearly discharge, in cubic feet per second

Month	Second- foot-days	Maximum daily	Minimum		Rupoff in
January February March April May June July August September October November December Calendar year 1994	64.8 78.3 1,421 3,647 6,752 407.1 4.05 70.26 69.99 133.7 177.9 95.9 12,922.00	2.8 5.0 200 419 449 47 1.7 12 8.4 7.6 12 4.4 449	1.6 1.6 5.0 20 52 .70 .00 .05 .77 1.8 1.8 1.8 2.0 .00	Mean 2.09 2.80 45.8 122 218 13.6 .13 2.27 2.33 4.31 5.93 3.09 35.4	acre-feet 129 155 2,820 7,230 13,390 807 8.0 139 139 265 353 190 20 (co)

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STREAMFLOW

Los Pinos River near Ortiz, Colo.

Location .- Water-stage recorder, lat 36°58'56", long 106°04'23", in New Mexico on line between secs. 26 and 27, T. 32 N., R. 8 E., on left bank 0.9 mile south of New Mexico-Colorado State line, 2.1 miles southwest of Ortiz, and 2.9 miles upstream from mouth. Altitude

of gage is 8,040 ft. Drainage area.-167 sq mi.

And the second second

<u>Average discharge</u> -- 76 years (1915-20, 1925-94), 121 ft³/s (87,660 acre-ft per year).

Extremes.-1915-20, 1925-94: Maximum discharge, 3,160 ft³/s May 12, 1941 (gage height, 5.77 ft, site and datum then in use), from rating curve extended above 1,600 ft³/s; minimum observed, 4.0 ft³/s Dec. 17, 1945.

Remarks -- Records good except those for winter months, which are fair. Diversions above station for irrigation.

Monthly and year	ly discharge, ir	n cubic feet	per se	econd
*				

Month	Second- foot-days	Maximum daily	Minimum daily	Mean	Runoff in acre-feet
January February March April May June July August September October November December	475 410 1,190 6,439 24,605 9,829 1,135 1,022 813 788 768 768 724 48 202	19 20 61 720 1,260 751 58 86 53 61 39 33 1 260	11 11 20 46 214 63 19 22 18 17 14 17 14 17	15.3 14.6 38.4 215 794 328 36.6 33.0 27.1 25.4 25.6 23.5 132	942 813 2,360 12,770 48,800 19,500 2,250 2,030 1,610 1,560 1,520 1,450 95,610

Conejos River near Lasauses, Colo.

Location .-- Water-stage recorders, lat 37°18'01", long 105°44'47", in secs. 2 and 11 (two channels), T. 35 N., R. 11 E., on left bank of main channel 125 feet downstream from bridge on State Highway 158 and on left bank of secondary channel 230 ft upstream from bridge, 1.0 mile upstream from mouth, and 2.1 miles north of Lasauses. Datum of gage on main channel is 7,495.02 ft and on secondary (south) channel is 7,496.89 ft above mean sea level (levels by Bureau of Reclamation).

Drainage area.-887 sq mi.

Average discharge.-73 years (1922-94), 185 ft³/s (134,000 acre-ft per year).

Extremes.-1921-94: Maximum discharge, 3,890 ft³/s May 15, 1941; no flow at times in some years.

Remarks.-Records good except those for winter months, which are fair. Diversions for irrigation of about 75,000 acres above station.

Monthly and yearly discharge, in cubic feet per second

	Second-	Maximum daily	Minimum daily	Mean	Runoff in acre-feet
January February	1,987 2,263	71 113	58 61	64.1 80.8	3,940 4,490
March April	5,737 9,985 23,692	326 957 1,370	115 170 126	185 333 764	19,810 46,990
June July	18,684 148.37	1,540 68 4.8	99 .10 .00	623 4.79 1.77	37,060 294 109
August September October	357.0 418.0	68 25	1.2 1.3	11.9 13.5 44.2	708 829 2.630
November December Calendar vear 1994	1,327 2,121 66,774.13	66 83 1,540	24 45 .00	68.4 183	4,210 132,400

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RIO GRANDE COMPACT COMMISSION REPORT

Location.-Water-stage recorder, lat 37°04'42", long 105°45'22", in sec. 22, T. 33 N., R. II E., on right bank at highway bridge, 6 miles north of Colorado-New Mexico State line, 10 miles east of Lobatos, and 14 miles east of Antonito. Datum of gage is 7,427,63 ft above Drainage area. -7,700 sq mi, approximately (includes 2,940 sq mi in closed basin in San Luis Valley). Average discharge. -31 years (1900-30), 846 ft³/s (612,900 acre-ft per year); 64 years (1931-94) 447 ft³/s (323,900 acre-ft per year).

Extremes, -1899-1994: Maximum discharge observed, 13,200 ft³/s June 8, 1905 (gage height, 9.1 ft), from rating curve extended above Remarks. - Records good except those for winter months, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

Monthly and yearly discharge, in cubic feet per second

Month	Second- foot-days	Maximum	Minimum		
January February March April May June June Juty August September Detober November November alendar year 1994	9,360 9,830 15,176 14,543 36,244 31,898 3,070 1,157 1,747 2,962 6,087 12,419 144,493	350 440 661 1,200 1,970 2,220 294 58 131 144 400 522 2,220	daily 270 310 291 286 325 325 325 41 24 32 31 109 358	Mean 302 351 490 485 1,169 1,063 99.0 37.3 58.2 95.5 203 401	Runoff in acre-feet 18,570 19,500 30,100 28,850 71,890 63,270 6,090 2,290 3,470 5,880 12,070
Cation Man	Willow Cree	k above Heron B	24	396	24,630 286,600

Location.-Water-stage recorder, lat 36°44'33", long 106°37'34", in Tierra Amarilla Grant, on right bank 200 ft downstream from bridge, 0.2 mile downstream from Iron Spring Creek, 3.3 miles west of Los Ojos, and at mile 9.7. Datum of gage is 7,196.29 ft above mean Drainage area .-- 112 sq mi. Average discharge. -7 years (1963-69), 11.5 ft³/s (8,330 acre-ft per year) prior to completion of Azotea tunnel; 25 years (1970-94), 138 ft³/s

Extremes.--1962-94: Maximum discharge, 1,610 ft³/s Mar. 12, 1985 (gage height, 6.65 ft); no flow at times prior to 1971. Remarks – Records good except those for winter months, which are fair. Subsequent to Nov. 16, 1970, flow affected by transmountain

	of the charge, in cubic feet per second					
Month	Second- foot-days	Maximum dailu	Minimum			
January February March April May June July August September October November December Calendar year 1994	7.94 14.00 4,930.50 12,128 23,025 6,004.0 421.02 30.43 20.00 21.51 71.86 49.93 46,724.19	0.50 .50 559 933 1,020 881 53 3.2 2.5 2.2 22 20 1,020	daily 0.00 .50 .50 58 194 6.0 .38 .18 .15 .14 .15 .14 .18 .13 .00	Mean 0.26 .50 159 404 743 200 13.6 .98 .67 .69 2.40 1.61 128	Runoff in acre-feet 16 28 9,780 24,060 45,670 11,910 835 60 40 43 143 99 92 680	

Monthly and yearly discharge, in .1 . . . Erster & Brits the track the second for the second

STREAMFLOW

Horse Lake Creek above Heron Reservoir, near Los Ojos, N. Mex.

Location.-Water-stage recorder, lat 36°42'24", long 106°44'42", in Tierra Amarilla Grant, on right bank 3.7 miles northwest of Heron Dam, 7.8 miles downstream from Horse Lake, and 9.9 miles west of Los Ojos. Datum of gage is 7,188.85 ft above mean sea level.

Prior to July 1, 1971, at site 1,100 ft upstream.

Drainage area.-45 sq mi, approximately.

Average discharge.-12 years (1963-73, 86), 1.17 ft³/s (848 acre-ft per year).

Extremes,-1963-94: Maximum discharge, 3,960 ft³/s July 30, 1968 (gage height, 4.9 ft); no flow most of time.

Remarks.--Records good. Diversions above station for irrigation of meadows and for off-channel stock tanks.

Monthly and yearly discharge, in cubic feet per second

	Second-	Maximum daily	Minimum daily	Mean	Runoff in acre-feet
Month	1001-days				
					-
January		-		_	-
February		-		_	_
March				10.9	648
Anril	326.7	24	0.9	107	241
Mar	121.6	11	1.8	000	2
Ivia y	.09	0.05	.00	.005	
June	45	.02	.00	.015	.9
July	.45	02	.00	.001	.04
August	.02	.~~	.00	.000	.00
September	.00	.00		<u> </u>	 ,
October		-		_	-
November		-		_	
December		-			-
Calendar year 1994		-		-	

Willow Creek below Heron Dam, N. Mex.

Location .-- Totalizing flowmeters, lat 36°39'56", long 106°42'12", in Tierra Amarilla Grant, in outlet conduits at Heron Dam, 0.2 mile upstream from Rio Chama, 5.1 miles northeast of El Vado Dam, and 8.7 miles southwest of Los Ojos.

Drainage area.--193 sq mi.

Average discharge.-24 years (1971-94) 116 ft³/s (84,040 acre-ft per year).

Extremes.-1971-94: Maximum daily discharge, 2,780 ft³/s Dec. 18, 19, 1982; no flow at times each year.

Remarks.-Records excellent. Flow completely regulated by Heron Dam.

Monthly and yearly discharge, in cubic feet per second

Month	Second-	Maximum daily	Minimum daily	Mean	Runoff in acre-feet
January February March April May June July August September October November December	3,796 6,599 13,997 19,526 0.00 1,955 .00 106 440 139 .00 1,687 48,245	238 237 904 1,340 .00 285 .00 42 144 69 .00 107 1,340	.00 235 235 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	122 236 452 651 .000 65.2 .000 3.42 14.7 4.48 .000 54.4 132	7,530 13,090 27,760 38,730 .00 3,880 .00 210 873 276 .00 3,350 95,690

RIO GRANDE COMPACT COMMISSION REPORT

Rio Chama below El Vado Dam, N. Mex.

Location.-Water-stage recorder, lat 36°34'48", long 106°43'24", in Tierra Amarilla Grant, on left bank 1.5 miles downstream from El Vado D'am, 2.8 miles upstream from Rio Nutrias, and 13 miles southwest of Tierra Amarilla. Datum of gage is 6,696.12 ft above mean sea level, datum of 1929. Prior to October 1935, at site 1.5 miles upstream and October 1935 to September 1938, at site 1.1 miles upstream Drainage area.-877 sq mi of which about 100 sq mi is probably noncontributing.

Average discharge -- 4 years (1914, 1921-23), 444 ft³/s (321,700 acre-ft per year) prior to completion of El Vado Dam; 35 years (1936-70), 372 ft³/s (269,500 acre-ft per year), prior to release of transmountain water; 24 years (1971-94) 484 ft³/s (350,700 acre-ft per year). Extremes.-1914-16, 1920-24, 1936-94: Maximum discharge observed, 9,000 ft³/s May 22, 1920 (gage height, 12 ft); no flow Mar. 25, 26, 31,

Remarks.-Records good. Diversions above station for irrigation of about 10,600 acres. Since 1935 flow regulated by El Vado Reservoir and since October 1970 flow partly regulated by Heron Reservoir. Subsequent to May 1971 flow affected by releases of

Monthly and yearly discharge in cubic (
	second

Month	Second- foot-days	Maximum daily	Minimum			
January February March April May June July August September October November December Calendar year 1994	6,172 5,559 9,794 44,295 70,261 12,327 21,374 19,024 8,970 6,540 5,720 5,844 200,880	207 203 914 2,060 4,350 1,000 1,260 989 471 229 254 196 4,350	daily 193 185 191 598 461 216 211 445 207 183 183 183 183 183	Mean 199 316 1,476 2,266 578 689 614 299 211 191 189 605	12,240 11,030 19,430 87,860 139,400 34,370 42,400 37,730 17,790 12,970 11,350 11,590 438,100	_
	D				100,100	

Rio Chama below Abiquiu Dam, N. Mex.

Location.-Water-stage recorder, lat 36°14'12", long 106°24'59", in SE1/4SE1/4 sec. 8, T. 23 N., R. 5 E., on right bank 0.8 mile downstream from Abiquiu Dam and 5.9 miles northwest of Abiquiu. Altitude of gage is 6,040 ft (from river-profile map and topographic map). Drainage area. -2,147 sq mi of which about 100 sq mi is probably noncontributing. Average discharge --9 years (1962-70), 376 ft³/s (272,400 acre-feet per year), prior to release of transmountain water, 24 years (1971-94),

Extremes.-1961-94: Maximum discharge, 2,990 ft³/s July I, 1965 (gage height, 6.69 ft); minimum, about 0.5 ft³/s Mar. 17, 1966, Jan. 28, Remarks.-Records good. Flow regulated by Heron, El Vado, and Abiquíu Reservoirs. Diversions above station for irrigation of about

17,600 acres. Subsequent to May 1971 flow affected by the release of transmountain water from Heron Reservoir.

Monthly and yearly discharge, in cubic feet per second

Month	Second- foot-days	Maximum Minimum				_
January February March April May June July August September October November December Calendar year 1994	5,136 3,938 13,697 48,610 52,950 54,030 23,754 20,659 12,993 12,032 4,823 4,797 257,419	179 182 897 1,790 1,820 1,850 1,200 897 681 788 443 270 1,850	daily 152 89 95 1,240 1,360 1,410 430 196 241 124 98 83 83	Mean 166 141 442 1,620 1,708 1,801 766 666 433 388 161 155 705	10,190 7,810 27,170 96,420 105,000 107,200 47,120 40,980 25,770 23,870 9,570 9,510	-

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STREAMFLOW

Rio Nambe below Nambe Falls Dam, near Nambe, N. Mex.

Location .- Totalizing flowmeters, lat 35°50'46", long 105°54'17", in NE1/45W1/4 sec. 29, T.19 N., R.10 E., in Nambe Indian Reservation, in outlet conduits at Nambe Falls Dam, 300 feet upstream from Nambe Falls, 2.6 miles upstream from confluence of Rio Nambe and

Rio En Medio, 4.4 miles southeast of Nambe Pueblo, and 5.4 miles southeast of Nambe.

Drainage area.--34.1 sq mi.

32

Average discharge.-16 years (1979-94), 16.3 ft³/s (11,810 acre-feet per year).

Linger + tray bear. and

Extremes.-1979-94: Maximum discharge, 312 ft³/s June 9, 1979 (gage height, 1.96 feet), at site 1,100 feet downstream; no flow

December 31, 1994. Remarks.-Records good. Flow completely regulated by Nambe Falls Reservoir.

Monthly and yearly discharge, in cubic feet per second

	Second-	Maximum daily	Minimum daily	Mean	Runoff in acre-feet
Month January February March April May June July August September October November	foot-days 44 14 267.4 526 1,681 2,075 795 230.5 44 237 120.07	daily 3.5 0.50 16 30 89 109 37 20 5.0 10 5.0 10 5.60	0.50 .50 .50 12 30 45 18 .50 .50 4.00 .53 40	1.42 .45 8.63 16.97 54.23 66.94 25.65 7.44 1.42 7.65 3.87 0.53	87 28 530 1,040 3,330 4,120 1,580 457 87 470 238 33
December Calendar year 1994	6,050.46	109	.40	16.60	12,000

Rio Grande at Otowi Bridge, near San Ildefonso, N. Mex.

Location.-Water-stage recorder, lat 35°52'29", long 106°08'30", in San Ildefonso Pueblo Grant, 400 ft downstream from bridge on State Highway 4, 1.8 miles southwest of San Ildefonso Pueblo, 2.5 miles downstream from Pojoaque River, and 6.8 miles west of Pojoaque. Datum of gage is 5,488.48 ft above mean sea level, datum of 1929. Prior to May 19, 1904, and July 25 to Oct. 1, 1904, staff gage at site

180 ft upstream at datum 2.02 ft lower.

Drainage area.-14,300 sq mi, approximately (includes 2,940 sq mi in closed basin in San Luis Valley, Colo.).

Average discharge .- 95 years (1896-1905, 1910-94), 1,540 ft³/s (1,116,000 acre-ft per year).

Extremes.-1895-1905, 1910-94: Maximum discharge, 24,400 ft³/s May 23, 1920 (gage height, 14.1 ft); minimum daily, 60 ft³/s July 4, 5,

Remarks.-Records good. Flow partly regulated by Heron, El Vado, and Abiquiu Reservoirs. Diversions above station for irrigation of about 620,000 acres in Colorado and 75,000 acres in New Mexico. Subsequent to May 1971 flow affected by releases of transmountain water from Heron Reservoir.

Monthly and yearly discharge,	in cu	bic	feet	per	second
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) (- m) h	Second- foot-days	Maximum daily	Minimum daily	Mean	Runoff in acre-feet
Month	27,232	928	826	878	54,010
January	24,337	1,090	773	869	48,270
February	49,700	1,950	1,060	1,603	98,580
March	104,290	5,160	2,150	3,476	206,900
April	182,320	8,560	3,410	5,881	361,600
May	120,790	6,410	2,480	4,026	239,600
June	32,159	1,570	655	1,037	63,790
July	25,360	1,510	263	818	50,300
August	25,985	1,460	740	866	51,540
September	26,447	1,170	583	853	52,460
October	22,121	1,220	505	737	43,880
November	29,289	1,160	760	945	58,090
December	670,030	8,560	263	1,836	1,329,000

RIO GRANDE COMPACT COMMISSION REPORT

Santa Fe River near Santa Fe, N. Mex.

Location -- Water-stage recorder and concrete control, lat 35°41'12", long 105°50'35", in NE1/4SE1/4 sec. 23, T. 17 N., R. 10 E., 0.4 mile downstream from McClure Dam, and 5.3 miles east of Santa Fe. Altitude of gage is 7,718 ft. Prior to Nov. 4, 1930, at site 1.5 miles downstream, and Apr. 11, 1931 to Sept. 30, 1947, at site 0.3 mile upstream, each at different datum. Drainage area.--18.2 sq mi. Average discharge. - 82 years (1913-94), 8.23 ft³/s (5,960 acre-ft per year).

Con-

Extremes.-1913-94: Maximum discharge, 1,500 ft³/s Aug. 14, 1921; minimum, 0.05 ft³/s Apr. 7, 8, 1981. Remarks. -Records good. Flow regulated by McClure Reservoir, completed in 1926, raised in 1935 and again in 1947.

Monthly and yearly discharge, in cubic feet per second

Month	foot-days	Maximum daily	Minimum		Runoff in
January February March April May June July August September October November December Calendar year 1994	58,4 56.0 66.7 276.2 1,294.0 764 466 226.4 341 163,83 36.33 33.53 3,782.39	2.1 2.0 2.3 10 77 60 20 18 12 11 3.0 1.2 77	1.7 2.0 2.0 5.0 9.4 10 10 4.0 11 .82 .91 .99 .82	Mean 1.88 2.00 2.15 9.21 41.7 25.5 15.0 7.30 11.4 5.28 1.21 1.08 10.4	acre-feet 116 111 132 548 2,570 1,520 924 449 676 325 72 67 7500

Rio Grande below Cochiti Dam, N. Mex.

Location.-Water-stage recorder, lat 35°37'05", long 106°19'24", in SW1/4NE1/4 sec. 17, T. 16 N., R. 6 E., in Pueblo de Cochiti Grant, 320 feet upstream from bridge on State Highway 22, 700 feet downstream from Cochiti Dam, and I.4 miles northeast of Cochiti Pueblo. Datum of gage is 5,226.08 ft above mean sea level, datum of 1929. Prior to Nov. 14, 1973, at site 2.4 mi downstream at altitude 5,210 Drainage area. --14,900 sq mi, approximately (includes 2,940 sq mi in closed basin in San Luis Valley, Colo.). Average discharge .- 24 years (1971-94) 1,431 ft³/s (1,037,000 acre-ft per year).

Extremes.-1971-94: Maximum discharge, 10,300 ft³/s July 26, 1971, at site 2.4 miles downstream prior to closure of Cochiti Dam; Remarks.-Records good. Since Nov. 12, 1973, flow completely regulated by Cochiti Dam. Cochiti eastside main canal on left bank and

Monthly and yearly discharge, in cubic feet per second

Month	Second- foot-days	Maximum daily	Minimum		Runoffin
January February March April May June July August September Dotober November December Secember Salendar year 1994	25,729 23,111 44,347 100,490 148,940 151,010 29,212 24,152 19,596 20,244 23,793 27,575 638,199	922 1,010 1,810 5,320 6,230 5,850 1,540 1,420 1,140 900 1,260 1,080 6,230	733 621 881 1,770 3,120 2,490 707 357 583 477 506 709 357	Mean 830 825 1,431 3,350 4,805 5,034 942 779 653 653 653 793 890 1748	acre-feet 51,030 45,840 87,960 199,300 295,400 299,500 57,940 47,910 38,870 40,150 47,190 54,700

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STREAMFLOW

Galisteo Creek below Galisteo Dam, N. Mex.

Location.-Water-stage recorder, lat 35°27'56", long 106°12'57", in SE1/4SE1/4 sec. 5, T. 14 N., R. 7 E., 0.6 mile downstream from Galisteo Dam, and 5.5 miles northwest of Cerrillos. Altitude of gage is 5,450 ft.

Drainage area.-597 sq mi.

Average discharge -24 years (1971-94), 6.18 ft³/s (4,480 acre-ft per year).

Extremes.-1970-94: Maximum discharge, 2,000 ft³/s July 27, 1971 (gage height, 7.00 ft); maximum gage height, 7.33 ft July 20, 1971; no flow many days each year.

<u>Remarks</u>.--Records poor. Flow partly regulated by uncontrolled outlet in Galisteo Dam. Capacity of outlet, 5,000 ft³/s when reservoir is full. Diversions for irrigation of about 50 acres above reservoir.

Monthly an	i veari	y discharge,	in cub	ic feet	per second
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	Second-	Maximum	Minimum	Moon	Runoff in
Month	foot-days	dany	uany	1#16411	
lanuary	47.7	2.2	1.0	1.54	95
February	43.5	2.3	1.0	1.55	86
March	76.5	4.0	1.3	2.47	152
April	51.53	4.2	.96	1.72	102
May	531.84	162	.00	17.2	1,050
lune	22.10	7.8	.00	.74	44
Inly	620	305	.00	20.0	1,230
August	607.20	228	.00	19.6	1,200
Sentember	399.50	149	.00	13.3	792
October	3.88	1.6	.00	.13	7.7
November	230.90	60	.00	7.70	458
December	56.4	3.0	1.1	1.82	112
Calendar year 1994	2,691.05	305	.00	7.37	5,340

Jemez River below Jemez Canyon Dam, N. Mex.

Location.-Water-stage recorder, lat 35°23'24", long 106°32'03", in NE1/4 sec. 5, T. 13 N., R. 4 E., 0.8 mile downstream from Jemez Canyon Dam, 2.0 miles upstream from mouth, and 6 miles north of Bernalillo. Datum of gage is 5,095.60 ft above mean sea level, datum of 1929. Prior to April 24, 1951, at site three-quarters of a mile upstream at datum 24.51 ft higher. April 24, 1951 to June 25, 1958, at site 37 ft upstream at datum 4.40 ft higher.

Drainage area.-1,038 sq mi.

Average discharge .- 52 years (1937, 1944-94), 63.6 ft³/s (46,080 acre-ft per year).

Extremes.-1937, 1944-94: Maximum discharge, 16,300 ft³/s Aug. 29, 1943 (gage height, 5.62 ft); no flow at times.

<u>Remarks</u>.-Records good. Flow regulated by Jemez Canyon Dam since October 1953. Diversions for irrigation of about 3,000 acres above station.

Monthly and yearly discharge, in cubic fe

	Second-	Maximum	Minimum		Runoff in
Month	foot-days	daily	daily	Mean	acre-feet
lanuary	108.52	33	0.76	3.50	215
February	22.75	.90	.76	.81	45
March	3.035.00	438	.90	97.9	6,020
Anril	1.517.5	135	1.6	50.6	3,010
Max	6.208.3	1,310	4.9	200	12,310
lune	1,180	83	11	39.3	2,340
luiv	376.25	84	.00	12.1	746
August	3,406.1	753	4.6	110	6,760
September	701.16	213	.01	23.4	1,390
October	6.22	.24	.14	.20	12
November	3,775.11	467	.00	126	7,490
December	1.204.0	111	1.3	38.8	2,390
Calendar year 1994	21,540.91	1,310	.00	59.0	42,730

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RIO GRANDE COMPACT COMMISSION REPORT

Rio Grande below Elephant Butte Dam, N. Mex.

Location -- Water-stage recorder, lat 33°08'54", long 107°12'22", in SW1/4 sec. 25, T. 13 S., R. 4 W., (projected) in Pedro Armendariz Grant, 1.0 mile downstream from dam and 1.5 miles upstream from Cuchillo Negro River. Datum of gage is 4,242.09 ft above mean Drainage area. – 29,450 sq mi, approximately (includes 2,940 sq mi in closed basin in San Luis Valley, Colo.). Average discharge - 80 years (1915-94, 1,001 ft³/s (725,200 acre-ft per year).

Extremes.-1915-94: Maximum daily discharge, 8,220 ft³/s May 22, 1942; no flow at times prior to 1929 and March 2-4, 1979.

Remarks.-Records good. Flow regulated by Elephant Butte Reservoir. Diversions for irrigation of about 800,000 acres above station.

Monthly and yearly discharge, in cubic feet per second

			I - Decenia				
Month	Second- foot-days	Maximum daily	Minimum		Runoffin		
January February March April May June July August	589.9 1,813 25,861 50,315 133,390 106,690 21,902 10,700	daily 49 84 1,520 3,290 5,270 4,550 3,540	daily 1.2 50 88 785 3,280 2,950 114	Mean 19.0 64.7 834 1,677 4,303 3,556	Runoff in acre-feet 1,170 3,600 51,300 99,800 264,600 211,600		
September October November December Calendar year 1994	6,709 12,117 2,134 19,447 391,676.9	362 361 862 90 1,420 5,270	324 85 78 30 80 1.2	707 345 224 391 71.1 627 1,073	43,440 21,240 13,310 24,030 4,230 38,570 776 900		

Rio Grande below Caballo Dam, N. Mex.

Location.-Water-stage recorder, lat 32°53′05″, long 107°17′31″, in NE1/4SW1/4 sec. 30, T. 16 S., R. 4 W., 2,000 ft upstream from Interstate Highway 25, 4,200 ft downstream from Caballo Dam, L3 miles upstream from Percha diversion dam, and 3 miles northeast of Arrey. Datum of gage is 4,140.90 ft above mean sea level, datum of 1929. October 13, 1938 to December 31, 1945, at datum 5.0 ft higher. Drainage area. - 30,700 sq mi, approximately (includes 2,940 sq mi in closed basin in San Luis Valley, Colo.). Average discharge -57 years (1938-94) 917 ft³/s (664,400 acre-ft per year). Extremes.-1938-94: Maximum daily discharge, 7,650 ft³/s May 20, 1942; minimum daily, 0.1 ft³/s Oct. 31 to Nov. 14, 1954, Nov. 7 to

Remarks.-Records good. Flow regulated by Elephant Butte and Caballo Reservoirs. Diversions for irrigation of about 800,000 acres

Monthly and yearly discharge, in cubic feet per second

Month	Second- foot-days	Maximum daily	Minimum		
January February March April May June July August September October November December Calendar Year 1994	3089.0 17,113 58,335 42,224 42,000 91,918 73,324 62,369 36,408 23,318.0 178.0 139.0 450,414.0	146 960 2,470 1,650 1,800 3,570 2,730 2,360 1,880 1,200 8.0 5.0 3,570	daily 8.0 305 1,060 1,130 778 2,080 1,910 1,680 606 6.0 3.0 4.0 3.0	Mean 99.6 611 1,882 1,407 1,355 3,064 2,365 2,012 1,214 752 5.93 4.48 1,234	6,130 33,940 115,700 83,750 83,310 182,300 145,400 123,700 72,220 46,250 353 276

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STREAMFLOW

Bonito ditch below Caballo Dam, N. Mex.

Records available.--January 1938 to December 1994. Published as supplementary data with Rio Grande below Caballo Dam in U.S.G.S. Water-Supply Papers and Water-Data Reports beginning with October 1947.

<u>Remarks</u> – Ditch diverts directly from Caballo Reservoir for irrigation of lands on right bank of river. The total release from Project Storage, as used in computations of Compact Commission, is the combined flow of this ditch and Rio Grande below Caballo Dam.

Diversion, in acre-feet

t	0
January	0
February	90.68
Marca	73.69
Mav	66.14
hine	145.16
July	100.10
August	127.44
September	18.85
October	46.70
November	0
December	U
Calendar year 1994	668.76



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RIO GRANDE COMPACT COMMISSION REPORT

Reservoirs in Rio Grande Basin in Colorado (Constructed or enlarged since 1937)

Squaw Lake -- Staff gage in sec. 12, T. 39 N., R. 4 W., on tributary to Squaw Creek. Completed in 1938; capacity, 162 acre-ft by 1953 survey. Water is used for irrigation below gaging station on Rio Grande near Del Norte.

Month-end gage height, in feet, and contents, in acre-feet

Month	Jan.	Feb.	Mar.	Apr	Max									
Gage height	9.1	9.1	9.1	01		June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cai.yr.	
Contents Change	162 0	162 0	162 0	162 0	9.1 162 0	9.1 162 0	7.4 130	5.7 98	3.9 66	2.0 34	3.2 54	4.4		
Rito Hand. D					-	v	-32	-32	-32	-32	±20	75	-	

Hondo Reservoir.-Staff gage in sec. 22, T. 42 N., R. 3 W., on Rito Hondo (Deep Creek) tributary to Clear Creek. Completed in 1957; capacity, 561 acre-ft. Originally filled during May and June 1958 with transmountain water; storage is not in debit status. Water

Month-end gage height, in feet, and contents, in acre-feet

MOINT	Jan.	Feb.	Mar.	4 mm						_				
Gage height	30.0	30.0	30.0		Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Calvr	
Contents Change	561 0	561 0	561 0	30.0 561 0	30.0 561 0	30.0 561	30.0 561	30.0 561	30.0 561	30.0 561	30.0 561	30.0	-	
Hermit Lako	Part					v	U	0	0	0	0	0	-	

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Reservoir No. 3.-In sec. 25, T. 41 N., R. 4 W., on South Clear Creek. Completed prior to 1960; capacity, 192 acre-ft. Capacity table based on elevation above bottom of outlet. Water is used for fish culture. Includes 169 acre-ft of transmountain water

Month-end gage height, in feet, and contents, in acre-feet

Month	Jan.	Feb.	Man					_						
Gage height	8.0	80		Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec	<u> </u>	
Contents Change	192 0	192 0	8.0 192 0	8.0 192 0	8.0 192 0	8.0 192 0	8.0 192	8.0 192	8.0 192	8.0 192	8.0 192	8.0	-	
Troutvale Ne	1 D					5	U	0	0	0	0	0	-	

No. 2 Reservoir.-Staff gage in E1/2 sec. 10, T. 41 N., R. 3 W., on South Clear Creek. Completed in 1940; capacity, 435 acre-ft. Condition of spillway limited storage to 168 acre-ft after May 1942. Repairs to spillway in 1947 increased capacity to 257 acre-ft. Water is used for fish culture with only occasional sale for irrigation. Storage omitted from accounting by action of Commission on

Month-end gage height, in feet, and contents, in acre-feet

Month	Jan.	Feb.	Mar.	Apr.	Maw									
Gage height	7.6	7.6	7.6	7.6	76	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.	
Change	257 0	257 . 0	257 0	257 0	257 0	7.6 257 0	7.6 257 0	7.6 257 0	7.6 257 0	7.6 257	7.6 257	7.6 257	-	
								-	v	0	0	0	~	

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STORAGE IN RESERVOIRS

Reservoirs in Rio Grande Basin in Colorado (Constructed or enlarged since 1937)

Iumper Creek Reservoir.—In sec. 5, T. 39 N., R. 2 W., on Jumper Creek, tributary to Trout Creek. Completed in 1951; capacity, 38 acreft. Capacity table based on elevation above bottom of outlet. Storage omitted from accounting by action of Commission on Feb. 15, 1962.

Month-end gage height, in feet, and contents, in acre-feet

		Eab	Mar	Apr	May	lune	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.	
Gage height	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	-	
Contents	38	38	38	38	38	38	38	38	38	38	38	38	-	
Change	0	0	0	0	0	0	0	0	0	0	0	0	0	

Big Meadows Reservoir.—In NW1/4 sec. 17, T. 38 N., R. 2 E., on South Fork about 0.9 mile upstream from Hope Creek. Completed in 1967; capacity, 2,437 acre-ft. Capacity table based on elevation above outlet. Water is used for fish culture. Includes 140 acre-ft of transmountain water, by exchange, in 1967; 838 acre-ft, by exchange, in 1968; and 347 acre-ft, by exchange, in 1969, and 1,112 acre-ft, by exchange, in 1983, for a total of 2,437 acre-ft.

Month-end gage height, in feet, and contents, in acre-feet

Month	Ian.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.
Gage height	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-
Contents	2,437	2,437	2,437	2,437	2,437	2,437	2,437	2,437	2,437	2,437	2,437	2,437	-
Change	0	0	0	0	0	0	0	0	0	0	0	0	0

<u>Alberta Park Reservoir</u>.--In sec. 34, T. 38 N., R. 2 E., on Pass Creek. Completed in 1953; capacity, 598 acre-ft. Capacity table based on elevation above bottom of outlet. Storage prior to June 30, 1983 included 244 acre-ft of transmountain water imported in 1963. By a 1983 resolution of the Rio Grande Compact Commission, the reservoir was drained for repairs in July 1983; recovery was completed in 1984. The reservoir also contains 100 acre-ft of transmountain water stored by exchange in 1983 and 254 acre-ft of transmountain water stored in 1984.

Month-end gage height, in feet, and contents, in acre-feet

Month	lan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.
Gage height Contents Change	27.0 598 0	0 0 -598	0 0 0	0 0 0	0 0	- - -598							

Shaw Lake Enlargement.-In sec. 5, T. 38 N., R. 2 E., on tributary to Lake Creek. Capacity, 638 acre-ft by 1916 decree; enlarged in 1955 to 681 acre-ft. Only the storage in excess of 638 acre-ft is subject to terms of Rio Grande Compact. Includes 42 acre-ft of transmountain water imported in 1965.

Month-end gage height, in feet, and contents, in acre-feet

Month	lan.	Feb.	Mar.	Арг.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.	
Gage height	-	-	-	-	-	-	-	-	-		-	-	-	
Contents	0	0	0	0	0	0	0	0	0	0	0	0	-	
Change	0	0	0	0	0	0	0	0	0	0	0	0	0	

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RIO GRANDE COMPACT COMMISSION

Reservoirs in Rio Grande Basin in Colorado (Constructed or enlarged since 1937)

Mill Creek Reservoir.-In sec. 16, T. 39 N., R. 3 E., on Mill Creek. Completed in 1953; capacity, 43 acre-ft. Capacity based on elevation above bottom of outlet. Includes 43 acre-ft of transmountain water, by exchange, in 1976.

Month-end gage height, in feet, and contents, in acre-feet

Month	Jan.	Feb.	Mar.	Apr.	Maw	luna	T. 1		•					
Gage height	15.0	15.0				june	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.	
Contents	43	43	15.0 43	15.0 43	15.0 43	15.0 4 3	15.0 43	15.0 43	15.0 43	15.0	15.0	15.0	-	
Change	0	0	0	0	0	0	0	õ	0	43 0	43 0	43 0	- 0	

Fuchs Reservoir.-Staff gage in sec. 2, T. 37 N., R. 4 E., on East Pinos Creek. Completed in 1939; capacity, 237 acre-ft with 2 feet of flash boards in spillway. Pinos Creek enters Rio Grande below station near Del Norte.

Month-end gage height, in feet, and contents, in acre-feet

Month	Jan.	Feb.	Mar.	Apr.	Max	Juno				— <u>—</u> —				
Gage height	10.0	11.0			indy	Julie	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.	
Contents Change	109 +32	13.0 147 +38	15.1 191 +44	17.2 238 +47	17.2 238 0	17.2 238 0	9.6 103 -135	0.0 0 -103	0.0 0 0	0.0 0 0	6.5 45 +45	10.5 102 +57		

Platoro Reservoir.--Water-stage recorder in NW1/4 sec. 22, T. 36 N., R. 4 E., on Conejos River. Completed in 1951; capacity, 59,570 acre-

ft at crest of spillway. Reservoir is used for irrigation and flood control. Storage affects Conejos Index Supply. Contents include 3,000 acre-ft of transmountain water stored by exchange in April 1985 on behalf of the Colorado Division of Wildlife. Month-end elevation, in feet, and contents, in acre-feet

rujillo Meadows Reservoir.—In sec. 5, T. 32 N., R. 5 E., on Los Pinos River. Completed in 1957; capacity, 913 acre-ft. Water is used for fish culture. Storage is transmountain water, by exchange, in 1959.

Month-end gage height, in feet, and	contents, in acre-feet
-------------------------------------	------------------------

onth	Jan.	Feb.	Mar.	Anr		1.								
ige height	21.0			<u></u>	May	june	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.	
ntents	913	31.0 913	31.0 913	31.0 913	31.0	31.0	26.0	26.0	26.0	26.0	28.0	31.0		
ange	0	0	0	0	0	, 9 <u>3</u> 0	588 -325	588 0	588 0	588 0	713 +125	913 +200	-	



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STORAGE IN RESERVOIRS

Reservoirs in Rio Grande Basin in New Mexico (Constructed or enlarged since 1929)

Heron Reservoir.-Water-stage recorder, lat 36°39'56", long 106°42'13", on Willow Creek. Storage began in October 1970. Capacity, 401,300 acre-ft at elevation 7,186.1 ft (low point on crest of spillway); dead storage, 1,340 acre-ft at elevation 7,003.0 ft. Used for storage of transmountain water.

Month-end elevation, in feet, and contents, in acre-feet

Date	Elevation	Contents	Change in Contents
December 21 1993	7 183 79	387.820	_
January 31 1994	7 182.49	380.340	-7,480
Fobmiary 28	7.180.54	369,260	-11,080
March 3	7.178.07	355,510	-13,750
April 30	7.176.04	344,430	-11,080
May 31	7,184.70	393,110	+48,680
lune 30	7,185.80	399,560	+6,450
July 31	7,185.54	398,030	-1,530
August 31	7,185.28	396,510	-1,520
September 30	7,184.90	394,280	-2,230
October 31	7,184.62	392,650	-1,630
November 30	7,184.60	392,530	-120
December 31	7,184.09	389,560	-2,970
Calendar year 1994	-	-	+1,740

El Vado Reservoir.—Water-stage recorder and surface follower, lat 36°35'39", long 106°44'00", on Rio Chama. Storage began in January 1935. Capacity, 186,250 acre-ft at gage height 6,902.0 feet (crest of spillway); dead storage, 480 acre-ft, below gage height 6,775.0 ft (invert of outlet works), as determined by survey in 1984. Datum of gage is 8.21 feet above mean sea level, datum of 1929. Storage includes both Rio Grande and transmountain water.

Month-end gage height, in feet, and contents, in acre-feet

Date	Gage height	Contents	Change in contents	TM Water
December 31, 1993	6.871.57	103,390	-	65,600
January 31, 1994	6,870.87	101,880	-1,510	64,130
February 28	6.873.08	106,700	+4,820	68,820
March 31	6.884.12	133,560	+26,860	79,830
April 30	6.885.98	138,510	+4,950	112,190
May 31	6.896.67	169,450	+30,940	111,910
lune 30	6.900.34	180.930	+11,480	111,240
July 31	6.887.24	141,930	-39,000	104,110
Anoust 31	6.873.48	107.600	-34,330	96,070
Sentember 30	6.867.34	94.520	-13,080	92, 74 0
October 31	6.863.34	86.680	-7,840	84,200
November 30	6 861.20	82.680	-4,000	79,920
December 31	6 859 40	79.430	-3,250	76,380
Calendar year 1994	-	-	-23,960	•

STORAGE IN RESERVOIRS

Reservoirs in Rio Grande Basin in New Mexico (Constructed or enlarged since 1929)

Abiquiu Reservoir.-Water-stage recorder, lat 36°14'24", long 106°25'44", on Rio Chama. Completed in February 1963; capacity, 1,201,200 acre-ft at elevation 6,350 feet (crest of spillway) by 1984 survey. Reservoir is operated by Corps of Engineers for flood control and sediment storage. A resolution granting permission to store transmountain waters was approved by Rio Grande Compact Commission on May 3, 1974. Storage includes both Rio Grande and transmountain water.

Month-end	elevation, in feet, and contents, in acre	-feet

Date	Elevation				
		Contents	Change in contents	TM wrater	
December 31, 1993 January 31, 1994 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31 Calendar year 1994	6,216.27 6,217.92 6,217.58 6,220.35 6,231.47 6,217.34 6,215.68 6,215.38 6,213.28 6,210.07 6,210.85 6,211.84	174,300 175,880 180,860 179,500 190,750 238,900 178,540 171,980 170,800 162,700 150,590 153,490 157,220	+1,580 +4,980 -1,360 +11,250 +48,150 -60,360 -6,560 -1,180 -8,100 -12,110 -+2,900 +3,730 -17,080	170,010 171,690 175,700 173,770 174,200 173,310 170,360 163,590 162,170 154,070 141,970 144,880 148,710	

Nambe Falls Reservoir,--Water-stage recorder in NE1/4SW1/4 sec. 29, T. 19 N., R. 10 E., in Nambe Indian Reservation, on Rio Nambe. Completed in 1976; capacity 2,023 acre-ft at elevation 6,826.6 feet (crest of spillway), dead storage 121 acre-ft at elevation 6,760.9 feet. Storage is transmountain water by exchange (see resolution adopted March 27, 1975).

Month-end elevation, in feet,	, and contents, in acre-feet
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+140 +160 -170 +10 +200 -10 -770 -110 +330 -120 +230 +180

RIO GRANDE COMPACT COMMISSION REPORT

Reservoirs in Rio Grande Basin in New Mexico (Constructed or enlarged since 1929)

<u>McCiure (Granite Point) Reservoir</u>.--Water-stage recorder in NE1/4SW1/4 sec. 24, T. 17 N., R. 10 E., on Santa Fe River. Original reservoir completed in 1926, capacity, 561 acre-ft; in 1935, permanent flash boards were installed in spillway increasing capacity to 650 acre-ft; in 1947 both dam and spillway were reconstructed increasing capacity to 2,615 acre-ft (gage height, 96.6 ft, crest of spillway). In 1953 spillway was equipped with radial gates that opened automatically, increasing capacity to over 3,000 acre-ft. In 1972, radial gates were removed decreasing capacity to 2,615 acre-ft. In 1989, modifications to the dam and spillway increased capacity to 2,813 acre-ft. No dead storage. Altitude of gage is 7,790 ft. Water is for municipal use in Santa Fe. Storage includes both Rio Grande water and transmountain water by exchange. Only the storage of Rio Grande water in excess of 561 acre-feet is subject to terms of Rio Grande Compact.

Month-end gage height, in feet, and contents, in acre-feet

			Change	Pre-compact	·
Date	Gage height	Contents	in contents	water	TM water
December 31, 1993	84.69	1,840	-	450	1,390
January 31, 1994	84.18	1,810	-30	420	1,390
February 28	83.94	1,790	-20	400	1,390
March 31	89.57	2,130	+340	561	1,390
April 30	96.91	2,640	+510	561	1,390
May 31	99.92	2,860	+220	561	1,390
June 30	99.19	2,810	-50	558	1,390
July 31	88.54	2,070	-740	0	1,390
August 31	83.20	1,750	-320	0	1,390
September 30	72.79	1,190	-560	0	1,190
October 31	71.50	1,130	-60	193	937
November 30	82.71	1,720	+590	561	937
December 31	85.49	1,800	+80	561	937
Calendar year 1994	-	-	-40	-	-

Nichols Reservoir.--Water-stage recorder in SE1/4NE1/4 sec. 21, T. 17 N., R. 10 E., on Santa Fe River. Completed in 1942; capacity, 685 acre-ft at gage height 167.0 feet (crest of spillway), dead storage, 14 acre-ft at gage height 121.1 feet. Datum of gage is 7,313.2 feet above mean sea level, datum of 1929. Water is for municipal use in Santa Fe. Storage includes both Rio Grande water and transmountain water by exchange.

Month-end gage height, in feet, and contents, in acre-feet

Date	Gage height	Contents	Change in contents	TM water	
December 31, 1993	163.15	575	-	192	
January 31, 1994	144.16	537	-38	192	
February 28	162.05	546	+9	192	
March 31	158.44	455	-91	192	
April 30	153.87	353	-102	192	
May 3i	167.33	695	+342	192	
June 30	164.13	602	-93	192	
July 31	164.77	619	+17	192	
August 31	153.47	346	-273	192	
September 30	158.83	464	+118	196	
October 31	162.19	550	+86	300	
November 30	163.67	589	+39	300	
December 31	164.07	600	+11	300	
Calendar year 1994	-	-	+25		

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STORAGE IN RESERVOIRS

Reservoirs in Rio Grande Basin in New Mexico (Constructed or enlarged since 1929)

Cochiti Lake.-Water-stage recorder and manometer in NW1/4SW1/4 sec. 16, T. 16 N., R. 6 E., in Pueblo de Cochiti Grant, on Rio Grande. Completed in 1975; capacity 502,300 acre-ft at elevation 5,450.0 ft (crest of service spillway); dead storage 560 acre-ft at elevation 5,255.0 ft, from 1986 survey. A 50,000 acre-foot permanent pool was authorized by Public Law 88-293, 88th Congress, March 26, 1964. Reservoir is operated by Corps of Engineers for flood control, sediment storage, and recreation. Storage began Nov. 12, 1973.

Month-end elevation, in feet, and contents, in acre-feet

Date	Elevation	Contents	Change in contents	TD (
December 31, 1993 January 31, 1994 February 29 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31 Calendar year 1994	5,336.79 5,337.55 5,338.81 5,338.30 5,338.20 5,367.91 5,337.92 5,338.25 .5,338.39 5,337.75 5,338.48 5,338.47 5,338.47 5,338.81	51,920 52,910 54,620 53,920 53,790 111,180 53,410 53,410 53,850 54,040 53,180 54,170 54,150 54,620	-++990 +1,710 -700 -130 +57,390 -57,770 +440 +190 -860 +990 -20 +470 +2700	48,440 49,430 50,380 50,510 50,090 49,770 48,910 49,430 48,430 48,940 48,450 49,350 49,710 49,690	

<u>Galisteo Reservoir</u>.--Water-stage recorder and manometer in NW1/4 sec. 9, T. 14 N., R. 7 E., on Galisteo Creek. Storage records begin in October 1970. Capacity 88,990 acre-ft at elevation 5,608.0 ft (crest of spillway). No dead storage. Reservoir is operated by Corps of Engineers for flood control and sediment storage.

Month-end contents,	in	acre	feet
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Manah		_				_								
Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept,	Oct.	Nov.	Dec.	Cal.vr.	
Contents Change	0 0	0	0	0 [°] 0	0 0	0	0							

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STORAGE IN RESERVOIRS

Reservoirs in Rio Grande Basin in New Mexico (Constructed or enlarged since 1929)

<u>Jemez Canyon Reservoir</u>.--Water-stage recorder in SW1/4SW1/4 sec. 32, T. 14 N., R. 4 E., on Jemez River. Completed in 1953; capacity, 172,800 acre-ft at elevation 5,252.3 ft. Maximum controlled capacity at elevation 5,232.0 ft (floor of spiilway) is 102,700 acre-ft by 1983 survey. Reservoir is operated by Corps of Engineers for flood control and sediment storage. A sediment pool of about 2,000 acre-ft of transmountain water has been maintained since August 1979.

Month-end elevation, in feet, and contents, in acre-feet

Date	Elevation	Contents	Change in contents	TM Water	
December 31, 1993	5,192.19	21,520	-	20,140	
January 31, 1994	5,193.02	22,560	+1,040	21,250	
February 29	5,194.05	23,880	+1,320	22,560	
March 31	5,195.22	25,440	+1,560	24,690	
April 30	5,197.81	29,000	+3,560	24,100	
May 31	5,196.66	27,400	-1,600	23,630	
June 30	5,194.15	24,010	-3,390	22,230	
July 31	5,193.53	23,210	-800	21,080	
August 31	5,192.49	21,900	-1,310	20,200	
September 30	5,192.24	21,590	-310	19,480	
October 31	5,193.94	23,740	+2,150	19,120	
November 30	5,191.80	21,040	-2,700	19,070	
December 31	5,192.26	21,610	+570	19,520	
Calendar year 1994	•	-	+90	-	

Acomita Reservoir.—Staff gage in SE1 /4 sec. 29, T. 10 N., R. 7 W., on San Fidel Arroyo; water for reservoir is diverted from Rio San Jose. Completed in 1938; original capacity, 850 acre-ft; present capacity 650 acre-ft on basis of 1956 sediment survey. Water is used for irrigation on Acoma and Laguna Indian Reservations.

Month-end contents, in acre-feet

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.	
Contents	0	0	0	0	0	0	0	0	0	0	0	0	0	
Change	0	0	0.	0	0	0	0	0	0	0	0	0	0	

Seama Reservoir,--In sec. 36, T. 10 N., R. 7 W., off channel from Rio San Jose. Completed in October 1980; capacity approximately 400 acre-ft. Water is used for irrigation on Laguna Indian Reservation.

No storage during 1994.

RIO GRANDE COMPACT COMMISSION REPORT

Reservoirs in Rio Grande Basin in New Mexico (Project storage)

Elephant Butte Reservoir -- Water-stage recorder in NW1 /4 sec. 30, T. 13 S., R. 3 W., on Rio Grande. Storage began Jan. 6, 1915; capacity, 2,065,000 acre-ft at gage height 4,407.0 ft (crest of spiilway), by survey of 1988. Datum of gage is 43.3 ft above mean sea level, datum of 1929. Water is used for power development and irrigation in New Mexico and Texas. Records furnished by Bureau of Reclamation. Delivery of transmountain water for minimum recreation pool was initiated in December 1975. Beginning Jan. 1, 1977 gage readings are midnight readings.

Month-end gage height, in feet, and contents, in acre-feet

Gage height	Contents	Change in contents	TM water	
4,402.58 4,403.93 4,404.94 4,405.29 4,405.29 4,405.75 4,405.75 4,404.81 4,404.78 4,404.82 4,404.82 4,404.49 4,405.76 4,406.28	1,907,530 1,954,680 1,990,500 2,003,020 2,026,790 2,019,200 2,019,560 1,985,860 1,984,790 1,986,220 1,974,480 2,019,930 2,038,750	Change in contents + 47,150 + 35,820 + 12,520 + 23,770 - 7,590 + 360 - 33,700 - 1,070 + 1,430 - 11,740 + 45,450 + 18,820	TM water 42,160 46,170 47,400 42,100 46,660 46,230 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	-	+131,220	-	
	Gage height 4,402.58 4,403.93 4,404.94 4,405.29 4,405.29 4,405.75 4,405.75 4,404.81 4,404.78 4,404.78 4,404.82 4,404.49 4,405.76 4,406.28	Gage heightContents4,402.581,907,5304,403.931,954,6804,404.941,990,5004,405.292,003,0204,405.952,026,7904,405.752,019,2004,405.752,019,5604,404.811,985,8604,404.781,984,7904,404.821,986,2204,405.762,019,9304,406.282,038,750	Gage heightContentsChange in contents4,402.581,907,5304,403.931,954,6804,404.941,990,5004,405.292,003,0204,405.952,026,7904,405.742,019,200-7,5904,404.811,985,860-33,7004,404.821,986,2204,404.821,986,2204,404.821,974,480-11,7404,405.762,019,930+131,220	Gage heightContentsChange in contentsTM water4,402.581,907,53042,1604,403.931,954,680+47,1504,404.941,990,500+35,8204,405.292,003,020+12,5204,405.752,026,790+23,7704,405.742,019,200-7,5904,405.752,019,560+3604,404.811,985,860-33,7004,404.781,986,220+1,4304,404.821,986,220+1,4304,404.821,974,480-11,7404,405.762,019,930+45,4504,406.282,038,750+18,8204,406.282,038,750+131,220

Caballo Reservoir -- Water-stage recorder in SE1/4SW1/4 sec. 19, T. 16 S., R. 4 W., on Rio Grande. Storage began Feb. 8, 1938; capacity, 331,500 acre-ft (by 1981 resurvey), at gage height 4,182.0 ft (above which spillway gates open automatically). Datum of gage is 43.3 ft above mean sea level, datum of 1929. 100,000 acre-ft of storage reserved for flood control. Records furnished by Bureau of Reclamation. Beginning Jan. 1, 1977, gage readings are midnight readings.

Month-end gage height, in feet, and contents, in acre-feet

Date	Gage height	Contents	Change in contents
December 31, 1993	4 1 69 01		
lanuary 31 1004	4,100,91	199,930	-
E-h 00	4,168.34	195,090	-4 R4A
redruary 29	4,164.62	165.190	-70.000
March 3	4,155.55	102 100	-29,900
April 30	4,157.46	114 060	-63,090
May 31	417656	114,000	+11,960
une 30	A 178 54	272,020	+157,960
1110 31	4,176.34	292,900	+20,880
aly 51	4,168.31	194,840	-98.060
rugust 31	4,155.39	101.140	-02 700
eptember 30	4,143.92	46 240	-93,700
Actober 31	4.138.37		-54,900
Vovember 30	A 1 A 2 55	29,360	-16,880
ecember 31	4 153 AF	41,550	+12,190
alendar voar 1004	4,102.45	84,370	+42,820
Anonala year 1794	-	-	-115.560

STORAGE IN RESERVOIRS

Reservoirs in Rio Grande Basin in New Mexico (Project storage)

Project Storage.-The combined usable storage in Elephant Butte and Caballo Reservoirs.

Month-end contents, in acre-feet

Contents	Change in contents		
1.835.100			
1,874,200	+39,100		
1,880,200	+6,000		
1,831,900	-48,300		
1,871,100	+39,200		
2,024,700	+153,600		
2,105,800	+81,100		
1,977,700	-128,100		
1,885,700	-92,000		
1,834,200	-51,500		
1,807,200	-27,000		
1,865,600	+58,400		
1,927,500	+61,900		
· · · ·	+92,400		
	Contents		

NOTE .- Values of combined contents may not agree with sum of individual values because of rounding.

TRANSMOUNTAIN DIVERSIONS

Pine River - Weminuche Pass ditch (Fuchs ditch).-Water-stage recorder and 3-ft Parshall flume in sec. 33, T. 40 N., R. 4 W., at Weminuche Pass in Colorado. Diversion is from North Fork Los Pinos River in San Juan River Basin into Weminuche Creek in Rio Grande Basin. Second enlargement was completed in 1936. Diversion for irrigation is from Rio Grande above the Del Norte gaging Weminuche Pass dit h. (D. L. et al. 1996).

Weminuche Pass ditch (Raber-Lohr ditch).-Water-stage recorder and 4-ft rectangular flume in sec. 33, T. 40 N., R. 4 W., at Weminuche Pass in Colorado. Diversion is from Rincon la Vaca Creek in San Juan River Basin into Weminuche Creek in Rio Grande Basin. Second enlargement was completed in 1936. Diversion for irrigation is from Rio Grande above the Del Norte gaging station.

Tabor ditch. --Water-stage recorder and 3-ft Parshall flume in sec. 35, T. 43 N., R. 3 W., at Spring Creek Pass in Colorado. Diversion is from Cebolla Creek in Gunnison River Basin into tributary of Clear Creek in Rio Grande Basin. Completed in 1910 or 1911. Diversion for irrigation is from Rio Grande below Del Norte gaging station.

Don La Font No. 1 & 2 ditches (Piedra Pass ditch).—Water-stage recorder and 2-ft Parshall flume in sec. 4, T. 38 N., R. 1 W., at Piedra Pass in Colorado. Diversion is from tributaries of Piedra River in San Juan River Basin to South River in Rio Grande Basin. Original ditch completed in 1938, first enlargement completed in 1940. Water is imported by Colorado Game and Fish Department, beginning in 1959, to offset losses from fish culture reservoirs.

Treasure Pass diversion ditch.—Water-stage recorder and 2-ft Parshall flume in sec. 31, T. 38 N., R. 2 E., at Wolf Creek Pass in Colorado. Diversion is from Wolf Creek in San Juan River Basin to a tributary of South Fork Rio Grande. Completed in 1923 or 1924. Water is diverted for irrigation from Rio Grande above the Del Norte gaging station, beginning in 1959. Prior to 1959 it was diverted below gaging station.

Azotea tunnel. – Water-stage recorder and 10-ft Parshall flume, lat 36°51'12", long 106°40'18", at south portal of Azotea tunnel, San Juan-Chama Project. Diversion is from Rio Blanco, Little Navajo River, and Navajo River in Colorado and discharge is into Azotea Creek in New Mexico. Construction completed in 1970.

Pine River-Williams Treasure Weminuche Weminuche Creek-Pass Pass Pass Squaw Pass Tabor Don La Font diversion Month ditch Azotea ditch ditch ditch ditches ditch tunnel anuary February March n April May 21,060 June 48,080 July 12,320 August September October November December Cal. year 82,240

Imported quantities, in acre-feet, 1993

RIO GRANDE COMPACT COMMISSION REPORT

EVAPORATION AND PRECIPITATION

The last paragraph of Article VI of the Compact states, in part, — "such credits and debits shall be reduced annually to compensate for evaporation losses in the proportion that such credits or debits bear to the total amount of water in such reservoirs during the year."

To provide the data needed for the computation of such evaporation losses, the Commission has encouraged the establishment and operation of evaporation stations near each major reservoir in the basin and at other selected locations.

Evaporation and other climatological data collected at the several stations in Colorado and New Mexico are tabulated on the next page. At some of the stations, it was not possible to obtain evaporation records throughout the winter period.

The measurements of evaporation were made in accordance with standard practice for the type of pan in use. Measurements of precipitation were made in standard 8-inch rain gages, which were supplemented at some of the stations by recording rain gages.

Records for the evaporation stations at the State University, Elephant Butte Dam, and El Vado Dam antedated the creation of the Commission; the stations at Abiquiu Dam, Cochiti Dam, and Jemez Canyon Dam were established by the Corps of Engineers. All others were established at the request of the Commission.

The Rio Grande Compact Commission gratefully acknowledges the cooperation of the National Oceanic and Atmospheric Administration, U.S. Army Corps of Engineers, and U.S. Bureau of Reclamation for furnishing the climatological records contained in this report.

- <u>Alamosa Airport</u>.-Lat 37°27', long 105°52', in Alamosa County at airport near Alamosa, Colo. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 7,536 ft.
- <u>Platoro Dam</u>-Lat 37°21', long 106°30', in Conejos County near Platoro, Colo. Standard class A pan, anemometer, maximum and minimum thermometers, fan type psychrometer, standard 8-inch and recording rain gages at elevation 9,826 ft.
- <u>Heron Dam</u>-Lat 36°40', long 106°42', in Rio Arriba County about 4 mi. northeast of Heron Dam near Tierra Amarilla, N. Mex. Standard class A pan, maximum and minimum thermometers, and standard 8-inch rain gage at elevation 7,310 ft.
- El Vado Dam Lat 36°36', long 106°44', in Rio Arriba County at El Vado Dam near Tierra Amarilla, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 6,750 ft.
- <u>Abiquiu Dam</u>--Lat 36°14', long 106°26', in Rio Arriba County at Abiquiu Dam near Abiquiu, N. Mex. Standard class A pan, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 6,380 ft.
- Nambe Falls Dam.-Lat 35°51', long 105°54', in Santa Fe County at Nambe Falls Dam, N. Mex. Standard class A pan, maximum and minimum thermometers, recording thermograph, standard 8-inch and recording rain gages at elevation 6,840 ft.
- Cochiti Dam.-Lat 35°38', long 106°19', in Sandoval County at operations building, at Cochiti Dam, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 5,560 ft.
- Jemez Canyon Dam.-Lat 35°23', long 106°32', in Sandoval County at Jemez Canyon Dam, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 5,388 ft.
- Elephant Butte Dam -- Lat 33°09', long 107°11', in Sierra County at Elephant Butte Dam, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, and standard 8-inch rain gage at elevation 4,576 ft.
- Caballo Dam.--Lat 32°54', long 107°18', in Sierra County at Caballo Dam, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 4,190 ft.
- New Mexico State University.-Lat 32°17', long 106°45', in Doña Ana County at University Park, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 3,881 ft.

Evaporation and precipitation, in inches

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct,	Nov.	Dec.	Annual
Alamosa	Evap.	-	-	-	-	7.91	10.36	8.85	7.25	5.19	-	-	_	_
Airport	Precip.	0.22	0.04	-	-	1.78	0.15	0.02	1.22	1.01	0.88	0.84	0.07	-
Platoro	Evap.	-	-	-	-	-	9 15	10.23	5 5 1	3 51	1 1 2			
Dam	Precip.	-	-	-	-	-	1.78	0.38	4.68	1.91	3.05	-	-	-
Heron	Evap.	-	-	-	3.74	5 52	7 02	976	6.65	4.20	3.71			
Dam	Precip.	0.53	2.60	1.83	2.49	2.74	0.98	1.58	2.17	4.39 2.55	1.42	- 2.90	- 0.55	22.34
Fl Vado	Fuan	_			4.74	(10					• • •		-	
Dam	Precip.	0.50	1.29	113	9.34 7.81	0.10	5.56 0.71	9.24	6.93	5.12	3.08	-	-	-
		0.00			2.01	2.20	0.71	1.15	1.75	2.4.3	1.22	1.75	0.53	17.55
Abiquiu	Evap.	-	-	-	6.55	8.19	12.17	11.92	8,56	6.43	4 89	_	_	_
Dam	Precip.	0.08	0.23	0.62	0.82	2.04	0.50	0.36	2.92	1.07	1.52	0.86	0.12	11.14
Nambe	Evap.	-	-	-	552	7 85	11 17	11.41	850	610	4 50			
Falls Dam	Precip.	0.40	0.28	2.38	2.04	3.43	1.09	0.85	1.26	4.32	4.52	3.68	- 0.40	- 22 12
	_													
Cochiti	Evap.	-	-	-	7.20	8.38	14.42	13.14	10.74	8.43	6.47	-	-	-
Dam	Precip.	0.28	0.32	1.46	0.59	2.32	0.28	1.04	2.49	0.78	2.33	1.92	0.64	14.45
Jemez	Evap.	-	-	-	9.18	10.71	15.93	17.35	15.06	12.46	6.79-	-	-	
Canyon Dam	Precip.	0.11	0.15	1.26	0.53	2.63	0.45	0.93	1.53	1.57	1.92	2.06	0.74	13.88
Elephant	Evap.	3.63	5.14	8.67	12.67	13.62	17.51	1640	15 22	10.48	0.01	6.83	250	171 69
Butte Dam	Precip	0.10	0.00	0.22	0.05	0.81	0.30	0.49	1.50	0.47	1.31	2.03	1.42	8.70
Caballa	E	4.45	4.05	7.40						_				
Dam	Evap. Drogin	4.45	4.95	7.42	11.66	12,77	16.59	14.91	13.66	8.97	7.80	5.81	3.18	112.37
Laill	Fredp.	0.20	0.00	0.13	U.49	0.Z/	0.16	0.52	1.43	1.42	1.17	2.81	2.15	10.81
State	Evap.	-	-	-	9.91	10.64	12.33	13.38	10.65	8.56	6.37	-	-	-
Univer.	Precip.	0.09	0.17	0.13	0.37	0.51	0.11	3.36	0.57	0.80	0.28	0.65	1.11	8.15



