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ILLUSTRATIONS

Мар,	Rio	Grande	B a sin	above	Ft.	Quitman, Tex.	Frontispiece
Мар,	Rio	Grande	Basin	above	Bern	nalillo, N. Mex.	

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RIO GRANDE COMPACT COMMISSION TEXAS

COLORADO

NEW MEXICO

March 27, 1975

The Honorable Jerry Apodaca Governor of the State of New Mexico Santa Fe, New Mexico

The Honorable Dolph Briscoe Governor of the State of Texas Austin, Texas

The Honorable Richard D. Lamm Governor of the State of Colorado Denver, Colorado

Sirs:

The 36th annual meeting of the Rio Grande Compact Commission was held at Las Cruces, New Mexico, on March 27, 1975.

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

- Deliveries of water at the Colorado-New Mexico State line by Colorado (a) amounted to 121,500 acre-feet, which was 6,400 acre-feet in excess of the scheduled delivery in 1974. The accrued debit for Colorado was reduced to 737,600 acre-feet as of December 31, 1974. However, in light of the, as yet unresolved, controversy between the States, Colorado cannot agree with the conclusions as to her indebtedness.
- Deliveries of water into Elephant Butte Reservoir by New Mexico, as (b) measured by the Elephant Butte Effective Supply, amounted to 305,900 acre-feet, which was 48,700 acre-feet in excess of the scheduled delivery in 1974. The accrued credit of New Mexico was 13,000 acre-feet as of December 31, 1974.
- Releases of usable water in 1974 from Project Storage amounted to (c)
- Expenses of administration of the Rio Grande Compact were \$42,516 (d) in the fiscal year ending June 30, 1974. The United States bore \$18,450 of this total; the balance of \$24,066 was borne equally by the three States party to the Compact.

Respectfully,

S. E. Reynolds

ommissioner for New Mexico

Texas

Colorado

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	M. C. Hinderlider
For	the	State	of	New Mexico	Thomas M. McClure
For	the	State	of	Texas	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, to-wit:

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.

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(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

(1) "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 to Mexico.

(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 condition shall be the amount of usable water in project storage at the beginning of the calendar year following the condition shall be the amount of usable water in project effective date of this Compact, and thereafter the initial storage at the beginning of the calendar year following the condition shall be the amount of usable water in project effective date of this Compact, and thereafter the initial storage at the beginning of the calendar year following the condition shall be the amount of usable water in project

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;
- (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 Sauses;
- (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;
- (1) 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 constructed after 1929.

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

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RIO GRANDE COMPACT

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)

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Conejos River at Mouths (2)

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 Sauses during the calendar year.

DISCHARGE OF RIO GRANDE EXCLUSIVE OF CONEJOS RIVER

Rio Grande at Del Norte (3)	Rio Grande at Lobatos less Conejos at Mouths (4)
200 250	60
200	65

Quantities in thousands of acre feet

200	20
250	60
200	65
300	75
350	70
400	86
400	98
450	110
500	
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DISCHARGE OF RIO GRANDE EXCLUSIVE OF CONEJOS RIVER--Con.

Quantities in thousands of acre feet

Rio Grande at Lobatos less Conejos at Mouths (4)

Rio Grande at Del Norte (3)

<u> 5 </u>	144
600	162
650	182
700	204
700	229
800	257
850	292
000	335
900	380
950	430
,000	540
,100	640
,200	740
,300	840
.,400	010

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.

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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

DISCHARGE OF RIO GRANDE AT OTOWI BRIDGE AND AT SAN MARCIAL EXCLUSIVE OF JULY, AUGUST AND SEPTEMBER

Quantities in thousands of acre feet

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Otowi Index Supply (5) San Marcial Index Supply (6)

100 200 300 400 500 600 700 800 900 1,000 1,000 1,200 1,300 1,400 1,500 1,600 1,700 1,800 1,900 2,000 2,100	0 65 141 219 300 383 469 557 648 742 839 939 1,042 1,148 1,257 1,370 1,489 1,608 1,730 1,856
2,100 2,200 2,300	1,856 1,985 2,117 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.)

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 this report.)

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 that year.

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

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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 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

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 thereafter.

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 that amount.

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 authorize the release of part, or all, of such credits in advance of spill, the amount so released shall be deemed to

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.

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 Commisioner 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

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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 recourse by a signatory state to the Supreme Court of the United States for redress should 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 exofficio the Rio Grande Compact Commissioner for New Mexico. 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 representand 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 calendar year shall be made by the Commission and transmitted to the Governors of the signatory 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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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

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.

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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 Rio Grande Compact, and

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 purposes.
- (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 Compact purposes.
- (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 scheduled.

(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 Compact:

"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:

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)

100 200 300 400 500 600 700 800	57 114 171 228 286 345 406 471 542
900	691
1,000	707
1,100	800
1,200	897
1,300	996
1,400	1 AQ5
1,500	1,000
1,600	1 905
1,700	1 205
1,800	1 495
1,900 2,000	1,595
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RESOLUTION OF COMMISSION

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

Quantities in thousands of acre-feet

Otowi Index Supply (5)

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Elephant Butte Effective Index Supply (6)

2,100 2,200 2,300 2,400 2,500 2,600 2,700 2,800 2,900 3,000

1,695 1,795 1,895 2,095 2,195 2,295 2,295 2,395 2,495 2,595

Intermediate quantities shall be computed by propor-

- (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 Grande between Lobatos and Elephant Butte

Be it Further Resolved:

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").

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

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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.

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

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.

RESERVOIR CAPACITIES /1_

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.

71 Amended at Eleventh Annual Meeting, February 23, 1950.
72 Adopted at Fourth Annual Meeting, February 24, 1943.

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RULES AND REGULATIONS

(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 acreft 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

DEPARTURES FROM NORMAL RELEASES /3

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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 equal to that amount.

EVAPORATION LOSSES /4, /5, /6

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 reservoir. Changes in evapo-transpiration losses along stream channels below reservoirs may be disregarded.

Adopted June 2, 1959; made effective January 1, 1952.
 Amended at Tenth Annual Meeting, February 15, 1949.
 Amended at Twelfth Annual Meeting, February 24, 1951.
 Amended June 2, 1959.

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.

0.3816

QUALITY 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 /7

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 shall:

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

(2) Inspect all gaging stations required for administration of the Compact and 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 records be obtained.

(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.

⁷ The substitution of this section for the section titled "Reports to Commissioners" was adopted at Ninth Annual Meeting, February 22, 1948.

COSTS /1

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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 Commissioners.

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.

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.

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

RULES AND REGULATIONS

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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 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

(Signed) JULIAN P. HARRISON

Julian P. Harrison Commissioner for Texas

Adopted December 19, 1939.

/l Amended at Eleventh Annual Meeting, February 23, 1950. /8 Amended at Thirteenth Annual Meeting, February 25, 1952.

RECORDS OF DELIVERIES AND RELEASES

At the annual meeting of the Compact Commission on March 27, 1975, the records of deliveries and releases for calendar year 1974 were examined and the computations of debits and credits based thereon were reviewed. The records and computations as reviewed 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 record of streamflow near Lobatos, Colorado; the obligation of Colorado to deliver water at the State line was computed as prescribed in Article III. Item C5, the Reduction of Debits prescribed in Article VI, was computed in accordance with the Rules and Regulations.

The delivery of water by New Mexico to Project Storage was computed from the actual streamflow record 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 Tenth Annual Meeting, and published in this report. Item NM4, Reduction of Debits by Evaporation, was computed in accordance with the Rules and Regulations.

The actual release from Project Storage during the year was measured at stations below Caballo Dam. The Accrued Departure from Normal Release is an under-release but is omitted in accordance with a decision of the Commission at the meeting on February 15, 1968.

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DELIVERATES DY COLORADO AT STATE LINE

RIO GRANDE COMPACT

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TIME OF HYPOTHETICAL SPILL

	1	Borne by		Borne by	
Item	Total cost	United States	Colorado	New Mexico	Texas
GAGING STATIONS In Colorado In New Mexico, above	11,580	5,790	5,790	5,380	480
Caballo Reservoir In New Mexico, Caballo Reservoir and below	6,130	410	Ì	410	5,310
Subtotal	33,970	16,600	5,790	5,790	5,790
ADMINISTRATION U.S.G.S. Contract	7,400 1,146	1,850	1,850	1,850 382	1,850 382
Subtotal	8,546	1,850	2,232	2,232	2,232
CRAND TOTAL	42,516	18,450	8,022	8,022	8,022
GRAND TOTAL			8,022	8,022	8,022
CASH ADJUSTMENT BETWEEN STATES			0	0	0

COST OF OPERATION, IN DOLLARS, FOR FISCAL YEAR ENDING JUNE 30, 1974 Adopted at the Thirty-sixth Annual Meeting

BUDGET, IN DOLLARS, FOR FISCAL YEAR ENDING JUNE 30, 1976

Adopted at the Thirty-Sixth Annual Meeting

		Borne by		Borne by	
Item	Total cost	United States	Colorado	New Mexico	Texas
GAGING STATIONS In Colorado In New Mexico, above Caballo Reservoir	13,990 19,005	6,995 12,500	6,995	6,505	C 005
In New Mexico, Caballo Reservoir and below	7,975	490	ļ,	490	6,995
Subtotal	40,970	19,985	6,995	6,995	6,995
ADMINISTRATION U.S.G.S. Contract Other expense	9,200 1,800	2,300	2,300	2,300 600	2,300
Subtotal	11,000	2,300	2,900	2,900	2,900
CRAND TOTAL	51,970	22,285	9,895	9,895	9,895
EQUAL SHARES OF STATES			9,895	9,895	9,895
CASH ADJUSTMENT BETWEEN STATES			0	0	0

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ACKNOWLEDGMENTS

The water-supply data contained in this report have been furnished by various Federal and State Agencies.

The office of the State Engineer of Colorado furnished records of discharge on 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 6 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 furnished by the office of the State Engineer of Colorado.

The U.S. Bureau of Reclamation, Amarillo, Texas furnished records for Platoro Reservoir.

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

Azotea tunnel at outlet, near Chama, N. Mex. Willow Creek above Heron Res., near Park View, N. Mex. Horse Lake Creek above Heron Res., near Park View, N. Mex. Storage in Heron Reservoir near Park View, N. Mex. Willow Creek below Heron Dam, N. Mex. Storage in El Vado Reservoir near Tierra Amarilla, 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 furnished 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 Corps of Engineers, Albuquerque, N. Mex. furnished the record of storage in Abiquiu Reservoir, Galisteo Reservoir, Cochiti Lake, and Jemez Canyon Reservoir and, in cooperation with the U.S. Geological Survey, also furnished the record for Rio Chama below Abiquiu Dam, Rio Grande below Cochiti Dam, Galisteo Creek below Galisteo Dam, and Jemez River below Jemez Canyon Dam, N. Mex.

The United Pueblos Agency, Albuquerque, N. Mex. supplied the records of storage in Acomita Reservoir near San Fidel, N. Mex.

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

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

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 station description states the degree of accuracy of the records. "Excellent" indicates that, in general, the error in the daily records is believed to be less than 5 percent; "good" less than 10 percent; "fair" less than 15 percent; and "poor" probably more than 15 percent. The records of monthly runoff are, in general, more accurate than the daily records. These standards of accuracy are the same as those followed by the U.S. Geological Survey.

STREAMFLOW

Location. -- Water-stage recorder, lat. 37°41'22", long 106°27'38", in NW4 sec. 29, T. 40 N., R. 5 E., on right bank, 20 ft downstream from county highway bridge, 5 miles upstream from Pinos Creek, and 6 miles west of Del Norte. 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 down-

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

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Average discharge.--85 years (1890-1974), 901 cfs (652,800 acre-ft per year).

Extremes.--1889-1974: Maximum discharge, 18,000 cfs Oct. 5, 1911 (gage height, 6.80 ft), from rating curve extended above 6,000 cfs; minimum daily, 69 cfs Aug. 21, 1902.

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

Month January February	foot-days	Maximum daily	Minimum daily	Меал	Runoff in
January February	5,320				Acro fort
March April May June July August September October November December	4,875 8,332 10,924 59,044 39,774 11,595 9,792 5,469 6,117 4,895 4,029	205 200 449 822 2,810 2,460 554 500 237 231 212 175	125 140 180 198 762 520 258 189 147 162 100 105	172 174 269 364 1,905 1,326 374 316 182 197 163 130	10,550 9,670 16,530 21,670 117,100 78,890 23,000 19,420 10,850 12,130 9,710
Calendar year 1974	170,166	2,810	100	466	/,990

Monthly and yearly discharge, in cubic feet per second

Conejos River below Platoro Reservoir, Colo.

Location.--Water-stage recorder and concrete control, lat 37°21'18", long 106°32'37", in NW4NW4 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

Drainage area. -- 40 sq mi, approximately.

Average discharge.--22 years (1953-74), 87.3 cfs (63,250 acre-ft per year).

Extremes.--1952-74: Maximum discharge, 1,160 cfs 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 poor. No diversions above station. Flow completely regulated by Platoro Reservoir (capacity, 60,000 acre-ft).

 -1	 Jourty	uischarge,	in	cubic	feet	ner	Cocond	

	Second Live in the			P-4 0000Md		
Month	foot-days	Maximum daily	Minimum daily	Mean	Runoff in	
January February March April May June July August September Dctober November December	450 420 465 1,054 15,258 8,580 2,159 1,502.4 240.9 271.0 300 310	15 15 15 133 830 470 206 194 9.6 9.6 10 10	14 15 15 5 64 167 27 5.1 5.1 5.1 7.8 10	14.5 15.0 15.0 35.1 492 286 69.6 48.5 8.03 8.74 10.0	893 833 922 2,090 30,260 17,020 4,280 2,980 478 538 538 595	
alendar year 1974	31,010.3	830		10.0	615	
		0.50	5.1	85.0	61,510	

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Conejos River near Mogote, Colo.

Location.--Water-stage recorder, lat 37°03'14", long 106°11'13", in SE%SE% 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 mean sea level.

Drainage area.--282 sq mi.

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Average discharge.--64 years (1904, 1912-74), 331 cfs (239,800 acre-ft per year).

Extremes. -- 1903-05, 1911-74: Maximum discharge, 9,000 cfs Oct. 5, 1911 (gage height, 8.50 ft, from rating curve extended above 3,000 cfs; minimum daily determined, 10 cfs July 18, 1904.

Remarks.--Records good except those for winter months, which are fair. Diversions above station for irrigation of about 500 acres. Since 1951 flow partly regulated by Platoro Reservoir.

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Vonth	Second- foot-days	Maximum daily	Minimum daily	Mean	Runoff in Acre-feet
January February March April May June July August September October November December	1,458 1,387 3,149 5,717 33,849 18,281 6,117 5,336 1,402 1,701 1,533 1,243	$57 \\ 58 \\ 204 \\ 468 \\ 1,590 \\ 1,110 \\ 432 \\ 468 \\ 51 \\ 66 \\ 64 \\ 48 \\ 8 \\ 51 \\ 66 \\ 64 \\ 48 \\ 8 \\ 51 \\ 66 \\ 64 \\ 48 \\ 8 \\ 51 \\ 66 \\ 64 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ $	36 40 56 98 306 436 116 53 42 44 31 35	47.0 49.5 102 191 1,092 609 197 172 46.7 54.9 51.1 40.1	2,890 2,750 6,250 11,340 67,140 36,260 12,130 10,580 2,780 3,370 3,040 2,470
Calendar year 1974	81,173	1,590	31	442	101,000

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 NE%SE%, 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 of gage is 7,970 ft.

Drainage area. -- 110 sq mi.

Average discharge.--34 years (1941-74), 24.6 cfs (17,820 acre-ft per year).

Extremes.--1920, 1925-74: Maximum discharge, 1,750 cfs Apr. 15, 1937 (gage height, 5.38 ft), from rating curve extended above 1,000 cfs; no flow at times.

Remarks.--Records good above 10 cfs and fair below. A few small diversions above station for irrigation.

Manthly and yearly discharge, in Q	cubic	reet	рет	second	
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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	$\begin{array}{c} 65.3\\ 60.8\\ 325.3\\ 1,436\\ 1,674.1\\ 94.17\\ 11.48\\ 41.58\\ 0\\ 63.34\\ 105.0\\ 38.60\\ \end{array}$	$\begin{array}{c} 2.6\\ 2.7\\ 32\\ 172\\ 135\\ 12\\ 3.0\\ 8.9\\ 0\\ 4.8\\ 4.5\\ 2.3\end{array}$	$ \begin{array}{c} 1.5\\ 1.6\\ 2.8\\ 13\\ 6.8\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1.4\\ .50\\ \end{array} $	$\begin{array}{c} 2.11\\ 2.17\\ 10.5\\ 47.9\\ 54.0\\ 3.14\\ .37\\ 1.34\\ 0\\ 2.04\\ 3.50\\ 1.25 \end{array}$	130 121 645 2,850 3,320 187 23 82 0 126 208 77
Calendar year 1974	3,915.67	. 172	0	10.7	7,770

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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.

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Average discharge.--56 years (1915-20, 1925-74), 120 cfs (86,940 acre-ft per year).

Extremes.--1915-20, 1925-74: Maximum discharge, 3,160 cfs May 12, 1941 (gage height, 5.77 ft, site and datum then in use), from rating curve extended above 1,600 cfs; minimum observed, 4.0 cfs Dec. 17, 1945.

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

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	$\begin{array}{r} 412\\ 381\\ 790\\ 3,723\\ 12,329\\ 3,215\\ 857\\ 1,065\\ 406\\ 485\\ 448\\ 389\end{array}$	17 16 61 435 644 215 38 75 16 19 18 17	10 11 14 35 238 37 23 16 12 11 11 13 10	13.3 13.6 25.5 124 398 107 28.6 34.4 13.5 15.6 14.9 12.5	817 756 1,570 7,380 24,450 6,380 1,700 2,110 805 962 889 772
Calendar year 1974	24,500	644	10	67.1	48,600

Monthly and yearly discharge, in cubic feet per second

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 dowwnstream 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.--53 years (1922-74), 181 cfs (131,100 acre-ft per year).

Extremes. -- 1921-74: Maximum discharge, 3,890 cfs May 15, 1941; no flow at times in some years.

<u>Remarks</u>.--Records good except those for winter months, which are poor. Diversions for irrigation of about 75,000 acres above station.

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	1,916 2,002 4,667 2,911 2,744.5 301.6 30.87 23.51 5.28 51.43 754.7 1,059	75 81 248 268 300 52 2.4 4.8 1.6 3.5 35 48	33 55 90 14 2.5 2.1 .35 0 0 .11 9.7 30	61.8 71.5 151 97.0 88.5 10.1 1.00 .76 .18 1.66 25.2 34	3,800 3,970 9,260 5,770 5,440 598 61 47 10 102 1,500
Calendar year 1974	16,466.89	300	0	45.1	2,100

Monthly and yearly discharge, in cubic feet per second

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Rio Grande near Lobatos, Colo.

Location.--Water-stage recorder, lat 37°04'42", long 105°45'22", in sec. 22, T. 33 N., R. 11 E., on right bank just downstream from 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 mean sea level, datum of 1929.

Drainage area.--7,700 sq mi, approximately (includes 2,940 sq mi in closed basin in San Luis Valley).

Average discharge. -- 75 years (1900-74), 589 cfs (426,700 acre-ft per year).

Extremes.--1899-1974: Maximum discharge observed, 13,200 cfs June 8, 1905, (gage height, 9.1 ft), from rating curve extended above 8,000 cfs; no flow at times in 1950-51, 1956.

Remarks.--Records good except those for winter months, which are fair. Natural flow of streams affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

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	8,425 7,625 17,398 8,377 5,414 2,511 676 689 486 1,480 3,101 5,080	300 295 736 760 350 170 31 31 21 73 190 210	230 250 300 128 55 25 15 14 12 15 58 140	272 272 561 279 175 83.7 21.8 22.2 16.2 47.7 103 164	$16,710 \\ 15,120 \\ 34,510 \\ 16,620 \\ 10,740 \\ 4,980 \\ 1,340 \\ 1,370 \\ 964 \\ 2,940 \\ 6,150 \\ 10,080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ 1,0080 \\ $
Calendar year 1974	61,262	760	12	168	121,500

Monthly and yearly discharge, in cubic feet per second

Willow Creek above Heron Reservoir, near Park View, N. Mex.

Location.--Water-stage recorder, 1at 36°44'33", 1ong 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 Park View, and at mile 9.7. Datum of gage is 7,196.29 ft above mean sea level. Prior to Apr. 1, 1971 at site 900 ft downstream.

Drainage area. -- 112 sq mi.

Average discharge.--7 years (1963-69) 11.5 cfs (8,330 acre-ft per year) prior to completion of Azotea tunnel.

Extremes.--1962-74: Maximum discharge, 1,600 cfs Aug. 11, 1967 (gage height, 3.88 ft); no flow at times most years.

Remarks.--Records good except those for winter months, which are poor. Subsequent to Nov. 16, 1970, flow affected by transmountain diversions through Azotea tunnel. Flow in Rutheron Drain included prior to Apr. 1, 1971.

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	$\begin{array}{c} 5.58\\ 5.94\\ 2,588.4\\ 4,608\\ 11,128\\ 4,741\\ 975.2\\ 1,308.3\\ 32.43\\ 154.15\\ 202.63\\ 18.07\end{array}$	$\begin{array}{c} 0.18 \\ .23 \\ 245 \\ 382 \\ 496 \\ 304 \\ 130 \\ 234 \\ 3.9 \\ 28 \\ 29 \\ 1.3 \end{array}$	$\begin{array}{c} 0.18 \\ .18 \\ .25 \\ .58 \\ 193 \\ 25 \\ 1.5 \\ 1.3 \\ .26 \\ .27 \\ .32 \\ \end{array}$	$\begin{array}{r} 0.18\\ .21\\ 83.5\\ 154\\ 359\\ 158\\ 31.5\\ 42.2\\ 1.08\\ 4.97\\ 6.75\\ .58\end{array}$	$ \begin{array}{r} 11\\ 12\\ 5,130\\ 9,140\\ 22,070\\ 9,400\\ 1,930\\ 2,600\\ 64\\ 306\\ 402\\ 36\\ \end{array} $
Calendar year 1974	25,767.70	496	.18	70.6	51,110

Monthly and yearly discharge, in cubic feet per second

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1.264

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STREAMFLOW

Horse Lake Creek above Heron Reservoir, near Park View, 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 Park View. 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.--11 years (1963-73) 1.10 cfs (797 acre-ft per year).

Extremes.--1963-74: Maximum discharge, 3,960 cfs 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.

Month	Second- foot-days	Maximum daily	Minimum daily	Mean	Runoff in Acre-feet
January February March April Nay June July August September October November December	a163.76 8.26 0 0 25.97 0 .37	- 29 1.7 0 0 20 0 20 0 .27	- - - 0.02 0 0 0 0 0 0 0 0	0.28 0 0 .84 0 .01	- a325 16 0 0 52 0 -
Calendar year 1974		29	0	-	<u> </u>

Monthly and yearly discharge, in cubic feet per second

a March 13-31

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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 Park View.

Drainage area. -- 193 sq mi.

Extremes.--1971-74: Maximum daily discharge, 2,220 cfs Dec. 12, 1973; no flow at times. Remarks.--Records good. Flow completely regulated by Heron Dam.

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	0 28 2,962 642 99 701.1 215.2 600 82 138 168.2 19,329	0 28 360 129 62 107 48 49 41 65 50 1,140		$\begin{array}{c} 0\\ 1.00\\ 95.5\\ 21.4\\ 3.19\\ 23.4\\ 6.94\\ 19.4\\ 2.73\\ 4.45\\ 5.61\\ 624 \end{array}$	0 56 5,880 1,270 196 1,390 427 1,190 163 274 3340
Calendar year 1974	24,964.5	1,140	0	68.4	49,520

Monthly and yearly discharge, in cubic feet per second

Rio Chama below El Vado Dam, N. Mex.

Location. --Water-stage recorder, lat 36°34'48", long 106°43'24", in Tierra Amarilla Grant, 1.5 miles downstream from El Vado Dam, 2.8 miles upstream from Rio Nutrias, and 13 miles south-west of Tierra Amarilla, Rio Arriba County. 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 at different datum.

<u>Drainage area</u>.--877 sq mi.

Average discharge.--4 years (1914, 1921-23), 444 cfs prior to completion of E1 Vado Bam; 35 years (1936-70), 372 cfs (269,500 acre-ft per year) subsequent to completion of E1 Vado Dam but prior to completion of Heron Dam and Azotea tunnel.

Extremes.--1914-16, 1920-24, 1936-74: Maximum discharge observed, 9,000 cfs May 22, 1920 (gage height, 12 ft); no flow Mar. 25, 26, 31, 1955.

Remarks.--Records good except those for some winter months, which are poor. Diversions above station for irrigation of about 8,000 acres. Since 1935 flow regulated by El Vado Reservoi and since October 1970 flow partly regulated by Heron Reservoir. Subsequent to May 1971 flow affected by releases of San Juan water from Heron Reservoir.

	Second-	Maximum	Minimum	Mean	Runoff in Acre-feet
Month January February March April May June July August September October November December	1,533 1,364 7,322 6,447 16,741 23,080 15,799 17,195 2,761 1,896 1,619 8,550	93 51 670 376 856 920 920 791 121 150 113 1,120	37 48 34 101 306 440 156 116 83 16 37 29	49.5 48.7 236 215 540 769 510 555 92.0 61.2 54.0 276	3,040 2,710 14,520 12,790 33,210 45,780 31,340 34,110 5,480 3,760 3,210 16,960
Calendar year 1974	104,307	1,120	16	200	

Monthly and yearly discharge, in cubic feet per second

Rio Chama below Abiquiu Dam, N. Mex.

Location.--Water-stage recorder, lat 36°14'12", long 106°24'59", in SE%SE% 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 game is 6 040 ft (from river profile for and toporthing) 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.--13 years (1926-74), 366 cfs (265,200 acre-feet per year).

Extremes.--1961-74: Maximum discharge, 2,990 cfs July 1, 1965 (gage height, 6.69 ft); minimum about 0.5 cfs Mar. 17, 1966.

Remarks.--Records good except those for winter months, which are fair. Flow regulated by Heron, El Vado, and Abiquiu Reservoirs. Diversions above station for irrigation of about 17,000 acres. Subsequent to May 1971 flow affected by the release of transmountain water.

Monthly and yearly discharge, in cubic feet per second

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	22,216 3,131 8,554 8,625 17,125 22,317 15,786 18,181 3,132 2,689 2,179 1,360	1,110 709 541 521 832 929 957 878 144 257 160 80	$\begin{array}{r} 560 \\ 47 \\ 92 \\ 94 \\ 345 \\ 436 \\ 155 \\ 162 \\ 87 \\ 17 \\ 41 \\ 27 \end{array}$	717 112 276 288 552 744 509 586 104 86.7 72.6 43.9	44,070 6,210 16,970 17,110 33,970 44,270 31,310 36,060 6,210 5,330 4,320 2,700
Calendar year 1974	125,295	1,110	17	343	248,500

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STREAMFLOW

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

Location.--Water-stage recorder, 1at 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

Average discharge.--75 years (1896-1905, 1910-74) 1,504 cfs (1,090,000 acre-ft per year).

Extremes.--1895-1905, 1910-74: Maximum discharge, 24,400 cfs May 23, 1920 (gage height, 14.1 ft); minimum daily, 60 cfs July 4, 5, 1902.

Remarks.--Records good. Flow partly regulated by Heron, El Vado, and Abiquiu Reservoirs. Diversions above station for irrigation of about 600,000 acres in Colorado and 75,000 acres in New Mexico. Subsequent to May 1971 flow affected by releases of transmountain water

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	41,100 20,063 35,995 28,071 31,987 30,937 20,708 23,837 7,893 11,195 12,860 13,961	1,720 1,320 1,550 1,640 1,580 1,410 1,130 1,100 357 625 498 534	1,170 625 754 564 844 575 310 338 216 250 385 380	1,326 717 1,161 936 1,032 1,031 668 769 263 361 429	81,520 39,790 71,400 55,680 63,450 61,360 41,070 47,280 15,660 22,210 25,510	
Calendar year 1974	278,607	1,640	216	763	47,690	

Monthly and yearly discharge, in cubic feet per second

Santa Fe River near Santa Fe, N. Mex.

Location. -- Water-stage recorder and concrete control, lat 35°41'12", long 105°50'35" NEWSEW Sec. 23, T. 17 N., R. 10 E., 0.4 mile downstream from McClure Dam, and 5.3 miles east of Santa Fe. Datum of gage is 7,718 ft above mean sea level, datum of 1929. Prior to Nov. 4, 1930 at site 1.5 miles downstream, and Apr. 11, 1931 to Sept. 1947 at site 0.3

Drainage area. -- 18.2 sq mi.

Average discharge.--62 years (1913-74), 8.00 cfs (5,800 acre-ft per year).

Extremes. -- 1813-74: Maximum discharge, 1,500 cfs Aug. 14, 1921; minimum daily, 0.1 cfs Feb. 7-10, 20, 21, 1927, Aug. 1-4, 1951.

Remarks. -- Records good. F 1935 and again in 1947. _Flow regulated by McClure Reservoir, completed in 1926, raised in

Month	Second- foot-days	Maximum daily	Minimum daily	Mean	Runoff in	
January February March April May June July August September October Vovember December	38.3 60.6 195.8 85.2 201.1 243.6 194.9 95.0 84.0 75.6 28.88 30.00	$ \begin{array}{c} 1.5\\ 4.1\\ 12\\ 3.0\\ 9.0\\ 8.4\\ 7.3\\ 3.2\\ 2.8\\ 3.2\\ 1.0\\ 1.0\\ 1.0\\ \end{array} $	1.1 1.5 2.8 2.8 3.0 7.3 3.0 2.8 2.8 2.8 1.0 .96	1.24 2.16 6.32 2.84 6.49 8.12 6.29 3.06 2.80 2.44 .96	76 120 388 169 399 483 387 188 167 150 57	
Calendar year 1974	1,332.98	12		.97	60	

Monthly and yearly discharge, in cubic feet per second

Rio Grande below Cochiti Dam, N. Mex.

- Location.--Water-stage recorder, lat 35°37'05", long 106°19'26", in SW\NE\ sec. 17, T. 16 N., R. 6 E., Sandoval County, in Pueblo de Cochiti Grant, on pier near right bank, 1,000 feet downstream from Cochiti Dam, and 1.4 miles northeast of Cochiti Pueblo.
- Drainage area.--14,900 sq mi, approximately (includes 2,940 sq mi in closed basin in San Luis Valley, Colo.).
- Extremes.--1971-74: Maximum discharge, 10,300 cfs July 26, 1971, at site 2.4 miles downstream and prior to closure of Cochiti Dam; minimum discharge, 8.1 cfs Nov. 13, 1973 during closure of dam.
- Remarks.--Records good except those for May, June, and July, which are poor. Includes inflow from Santa Fe River. Flow affected by storage in several reservoirs and by releases of transmountain water. Subsequent to Nov. 11, 1973 flow governed by head on outlet structure in dam.

Month	Second- foot-days	Maximum daily	Minimum daily	Меал	Runoff in Acre-feet
January	40,320	1,690	1,140	1,301	79,970
February	20,253	1,250	571	723	40,170
March	30,467	1,320	650	983	60,430
April	23,430	1,400	461	781	46,470
Mav	25,721	1,130	658	830	51,020
June	23,921	993	434	797	47,450
July	14 464	876	164	467	28,690
Angust	18.042	833	277	582	35,790
Sentember	3,626	288	55	121	7,190
October	6,630	337	96	214	13,150
November	13,187	471	418	440	26,160
December	14,637	531	394	472	29,030
Calendar year 1974	234,698	1,690	55	643	465,500
		1	1	1	

Monthly and yearly discharge, in cubic feet per second

Galisteo Creek below Galisteo Dam, N. Mex.

Location.--Water-stage recorder, lat 35°27'56", long 106°12'57", in SE%SE% sec. 5, T. 14 N., R. 7 E., on right bank, 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.

Extremes.--1970-74: Maximum discharge, 2,000 cfs July 27, 1971 (gage height, 7.00 ft); maximum gage-height, 7.33 ft July 20, 1971; no flow many days.

Remarks.--Records fair. Flow partly regulated by uncontrolled outlet in Galisteo Dam. Capacity of outlet, 5,000 cfs when reservoir is full. Diversions for irrigation of about 50 acres above reservoir.

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	$\begin{array}{r} 49.28\\ 55.68\\ 19.55\\ 5.22\\ 14.52\\ 0\\ 363.25\\ 180.88\\ 212.19\\ 340.51\\ 36.79\\ 13.63\end{array}$	4.0 3.3 5.5 1.6 12 0 66 96 147 84 7.1 .60	0.80 .80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.59 1.99 .63 .17 .47 0 11.7 5.83 7.07 11.0 1.23 .44	98 110 39 10 29 0 721 359 421 675 73 27
Calendar year 1974	1,291.50	147	0	3.54	2,560

Monthly and yearly discharge, in cubic feet per second

0.3634

STREAMFLOW

Jemez River below Jemez Canyon Dam, N. Mex.

Location. --Water-stage recorder, lat 35°23'24", long 106°32'03", in NE% sec. 5, T. 13 N., R. 4 E., on right bank 0.8 mile downstream from Jemez Canyon Dam, I.5 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

Drainage area. -- 1,038 sq mi.

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Average discharge.--32 years (1937, 1944-74), 53.4 cfs (38,690 acre-ft per year).

Extremes. -- 1937, 1944-74: Maximum discharge, 16,300 cfs Aug. 29, 1943 (gage height, 5.62 ft) Remarks.--Records poor. Flow regulated by Jemez Canyon Dam since October 1953. Diversions

	Second-		The second				
MORTH	foot-days	daily	Minimum daily	Mean	Runoff in		
February	941.0	70		Act and	Acre-feet		
March April May June July August September October November December	858.0 2,052 1,611 1,060.60 0 67.7 293.1 15.10 803.81 882 355.2	76 265 113 81 0 32 35 5.1 56 39	7.0 7.5 18 19 0 0 0 0 0 0 0 16	30.4 30.6 66.2 53.7 34.2 0 2.18 9.45 .50 25.9 29.4	$ \begin{array}{r} 1,870\\ 1,700\\ 4,070\\ 3,200\\ 2,100\\ 0\\ 134\\ 581\\ 30\\ 1,590\\ \end{array} $		
Calendar year 1974	8 970 51		6.0	11.5	705		
		265	0	24.5	17,730		

Monthly and yearly discharge, in cubic feet p

Rio Grande below Elephant Butte Dam, N. Mex.

Location. --Water-stage recorder, lat 33°08'54", long 107°12'22", in SW4 sec. 25, T. 13 S., R. 4 W., (projected) in Pedro Armendariz Grant, on left bank 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 sea level, datum of 1929. Prior to April 23, 1942 at several different sites and datums.

Drainage area.--29,450 sq mi, approximately (includes 2,940 sq mi in closed basin in San Luis Valley, Colo.).

Average discharge.--60 years (1915-74), 995 cfs (720,900 acre-ft per year).

Extremes.--1915-74: Maximum daily discharge, 8,200 cfs May 22, 1942; no flow at times prior to

Remarks. -- Records good. Flow regulated by Elephant Butte Reservoir. Diversions for irrigation

Month	Second-	Martin					
Lanuar	foot-days	daily	Minimum daily	Masa	Runoff in		
February February March April May June July August September October November December Calendar year 1974	620.7 16,359 65,000 43,840 52,360 67,150 59,350 25,390 8,084 395.5 253.9 250.5 339,053.6	215 2,180 2,190 1,960 2,290 2,350 2,290 1,420 675 20 11 19	9.3 16 1,670 1,020 1,030 2,110 1,430 673 13 8.1 5.0 4.7	20.0 584 2,097 1,461 1,689 2,238 1,915 819 269 12.8 8.46 8.08	Acre-feet 1,230 32,450 128,900 86,960 103,900 133,200 117,700 50,360 16,030 784 504 497		
	<u> </u>		4.7	929	672,500		

Monthly and yearly discharge, in cubic feet per second

Rio Grande below Caballo Dam, N. Mex.

Location.--Water-stage recorder, lat 32°53'05", long 107°17'31", in NE45W4 sec. 30, T. 16 S., R. 4 W., 2,000 ft upstream from Interstate Highway 25, 4,200 ft downstream from Caballo Dam, 1.3 miles upstream from Percha diversion dam, and 3 miles northeast of Arrey. Datum of gage is 4,140.9 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.).

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Average discharge.--37 years (1938-74) 868 cfs (628,900 acre-ft per year). Extremes.--1938-74: Maximum daily discharge, 7,650 cfs May 20, 1942; minimum daily, 0.1 cfs Oct. 31 to Nov. 14, 1954, Nov. 7 to Dec. 31, 1955.

Remarks.--Records good. Considerable diversion above station for irrigation. Flow regulated by Caballo and Elephant Butte Reservoir.

	MONCHLY wave /				Pupoff in	
	Second- foot-days	Maximum daily	Minimum daily	Mean	Acre-feet	
Month January February March April May June July August September October November	32.0 30.8 61,730.1 37,468 41,693 61,170 46,694 48,971 25,183.3 76.3 47.3 32.4	$ \begin{array}{r} 1.3\\ 1.1\\ 2,680\\ 1,990\\ 1,700\\ 2,540\\ 2,450\\ 2,530\\ 2,110\\ 5.0\\ 2.2\\ 1.4 \end{array} $	$ \begin{array}{c} 1.0\\ 1.1\\ 955\\ 1,290\\ 74\\ 734\\ 2.2\\ 2.2\\ 1.4\\ .9 \end{array} $	$1.03 \\ 1.10 \\ 1.991 \\ 1.249 \\ 1.345 \\ 2.039 \\ 1.506 \\ 1.580 \\ 839 \\ 2.46 \\ 1.58 \\ 1.05 $	63 61 122,400 74,320 82,700 121,300 92,620 97,130 49,950 151 94 64	
December Calendar year 197	4 323,128.2	2,680	. 9	885	640,900	

Monthly and yearly discharge, in cubic feet per second

Bonito ditch below Caballo Dam, N. Mex.

Records available.--January 1938 to December 1974. Published as supplementary data with Rio Grande below Caballo Dam in U.S.G.S. Water-Supply Papers beginning with October 1947.

Remarks.--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.

d yearly discharge, in cubic feet per second

1	Monthly and yea	11) axoono		T	Runoff in
	Second- foot-days	Maximum daily	Minimum daily	Mean	Acre-feet
Month January February March April May June July August September October November	0 0 134.9 79.2 69.9 84.2 57.8 79.6 41.7 0 0	0 0 10 10 10 10 10 10 10 0 0 0 0		0 0 4.35 2.64 2.25 2.72 1.86 2.57 1.39 0 0 0	0 268 157 139 167 158 83 0 0 0
December	547.3	10	0	1.50	1,090

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 heid	h+ e				
I Tam I The Los	Perec lierR	n, in ree	t, and	contents.	in	arre-foot

Month	Jan.	Feb.	Mar.	Apr.	nt, in May	feet,	and c	ontent.	s, in	acre-f	eet		
Gage height	-	-		-		o une	Jury	Aug.	Sept.	Oct.	Nov.	Dec.	Cal. yr
Change	0	0	0	0	0	0	ō	ō	ō	0	-	-	-
				_ <u> </u>	<u> </u>		0	0	0	0	0	ŏ	ō

<u>Rito Hondo Reservoir</u>.--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 is used for fish culture.

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

Month	Jan.	Feb.	Mar.	Apr.	May	Ieet,	and c	ontent	<u>s, in</u>	acre-f	eet		
Gage height	30.0	30.0	30.0	30 0	70.0	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal. yr.
Contents Change	561 0	561 0	561 0	561	561 0	30.0 561	30.0 561	30.0 561	30.0 561	30.0 561	30.0 561	30.0 561	-
			i		Ů,	0	0	0	0	0	0	Õ	ō

Month

Hermit Lakes 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. Storage omitted from accounting by action of Commission on Feb. 15, 1962.

Month-end gage height, in feet, and contents, in acre-feet I.Ian

	Jan.	reb.	Mar.	Apr.	May	June	July	Aug.	Sent	loot			
Gage height Contents	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8 0	8.0	NOV.	Dec.	Cal. yr.
Change	0	0	192	192	192	192 0	192	192	192	192	192	8.0 192	-
							<u> </u>		0	0	0	0	· 0

Troutvale No. 2 Reservoir. -- Staff gage in E½ 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 Feb. 15, 1962.

	Mo	onth-ei	nd gag	e heir	ht. In	feet							
Month	Jan.	Feb.	Man	0.0.00	N	Leet,	and c	ontent	<u>s, in</u> (acre-f	eet		
Come lest to				Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec	Cal
Cage height	7.6	7.6	7.6	7.6	7.6	76	76						Cal. yr.
Contents	257	257	257	257	257	257	257	7.0	7.6	7.6	7.6	7.6	-
	0	0	0	Ó	Ó	0	6 1	221	257	257	257	257	-
									U	0	0	0	0

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

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

Month-and	0 9 0 A	height.	in feet.	and	contents.	in acre-reer
	A A A					the second s

Month	Jan.	Feb.	Mar.	Apr.	Мау	June	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	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	

Big Meadows Reservoir.--In NW4 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. The remainder (1,112 acre-ft) was removed from call status, as debit water, by action of the Commission on March 5, 1970.

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

Date	Gage height	Contents	Change in Contents
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31	$\begin{array}{r} 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\ 45.0\\$	2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437 2,437	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Calendar year 1974	-	-	0

Alberta Park Reservoir.--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. Includes 244 acre-ft transmountain water, imported in 1963. Remainder of storage removed from call status, as debit water, by action of the Commission on March 5, 1970.

		MOILCH	one ge				· · · · · · · · · · · · · · · · · · ·						
Month	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.
Gage height Contents Change	27.0 598 0	27.0 598 0	27.0 598 0	27.0 598 0	27.0 598 0	27.0 598 0	- - 0						

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

Shaw Lake.--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 transmountain water imported in 1965.

Month-end	gage	height.	in	feet.	and	conten	ts,	in	acre-1	teet	
 Honen and			1			1					.

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.
Gage height	16.0	16.4	16.9	17.0	18.5	16.4	14.9	14.9	14.9	14.9	15.7	16.1	+25
Contents	498	518	538	542	608	517	455	455	455	455	486	503	
Change	+20	+20	+20	+4	+66	-91	-62	0	0	0	+31	+17	

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. Storage removed from call status, as debit water, by action of Commission on March 5, 1970.

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

	Month-end gage height, in reet, and contents, in second														
Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.		
Gage height Contents Change	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	15.0 43 0	- - 0		

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

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

									•				
Month	Jan.	Feb.	Mar.	Apr.	May	June	Ju1y	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr
Gage height Contents Change	17.2 238 0	- - - 0											

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

Platoro Reservoir. --Water-stage recorder in NW%SW% sec. 22, T. 36 N., R. 4 E., on Conejos River. Completed in 1951; capacity, 60,000 acre-feet at crest of spillway. Reservoir is used for irrigation and flood control. Storage affects Conejos Index Supply.

Date	Elevation	Contents	Change in Content		
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 50 October 31	- - 10,004.9 9,989.9 9,983.5 9,980.2 9,980.1 9,980.0 9,980.3	a36,900 a36,900 a36,900 a35,000 34,900 24,400 20,500 18,600 18,600 18,500 18,700	$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $		
Calendar year 1974		a18,700 a18,700	0		

a Estimated

0

0

0

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0

Change

<u>Trujillo Meadows Reservoir.</u>--In sec. 5, T. 32 N., R. 5 E., on Los Pinos River. Completed in 1957; capacity, 913 acre-feet. Water is used for fish culture. Storage affects Conejos Index Supply. Storage removed from debit status by exchange of transmountain water. (Se Completed in (See minutes of meeting on Feb. 19, 1960.)

							•						
Month	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr.
Gage height Contents	31.0 913	31.0	31.0	31.0 913	-								

0

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

0

0

0

913

0

913

0

913

0

Heron Reservoir.--Lat 36°39'56", long 106°42'12", at dam on Willow Creek. Storage began in October 1970. Capacity, 401,300 acre-feet at elevation 7,186.1 (low point on crest of spillway); dead storage, 1,340 acre-feet at elevation 7,003.0 ft. Used for storage of transmountain water.

Month-end	elevation,	in	feet,	and	contents.	in	acre-feet
							HOLD IVE

····								
Date	Elevation	Contents	Change in Contents					
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31	7,133.05 7,133.24 7,133.24 7,133.31 7,135.34 7,141.02 7,142.79 7,142.78 7,143.07 7,142.70 7,142.61 7,142.41 7,131.19	156,000 156,600 156,600 163,800 184,200 190,900 190,900 192,000 190,600 190,300 189,500 149,800	$\begin{array}{r} +600 \\ +200 \\ +7,000 \\ +20,400 \\ +6,700 \\ 0 \\ +1,100 \\ -1,400 \\ -300 \\ -800 \\ -30 \\ -300 \\ -9,700 \end{array}$					
Calendar year 1974	-	-	-6,200					

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

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, 196,500 acre-feet at gage height 6,902.0 feet (crest of spillway), as determined by survey in 1966. Datum of gage is 8.21 feet above mean sea level, datum of 1929.

Month-end	gage	height.	in	feet.	and	contents,	in	acre-	feet	2
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Date	Gage height	Contents	Change in Contents
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31	$\begin{array}{c} 6,878.2\\ 6,878.6\\ 6,878.7\\ 6,878.9\\ 6,878.9\\ 6,884.7\\ 6,893.0\\ 6,879.4\\ 6,866.3\\ 6,849.8\\ 6,849.8\\ 6,849.8\\ 6,845.8\\ 6,845.8\\ 6,845.9\\ 6,859.8\\ \end{array}$	$126,300\\127,300\\127,500\\128,000\\143,400\\167,500\\129,300\\99,140\\68,830\\63,830\\62,420\\62,570\\86,400$	$\begin{array}{r} +1,000\\ +200\\ +500\\ +500\\ +15,400\\ +24,100\\ -38,200\\ -50,160\\ -30,310\\ -5,000\\ -1,410\\ +150\\ +23,830\\ \end{array}$
Calendar year 1974	-	-	- 39,900

Abiquiu Reservoir.--Water-stage recorder in SW4 sec. 8, T. 23 N., R. S E., on Rio Chama. Completed in February 1963; capacity, 1,216,000 acre-feet at elevation of 6,350 feet (crest of spillway). Reservoir is operated by Corps of Engineers for flood control and sediment storage. A resolution increasing pool for sediment retention to 4,000 acre-feet was approved by Rio Grande Compact Commission on Dec. 29, 1973.

Date	Elevation	Contents	Change in Contents		
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31	$\begin{array}{c} 6,165.28\\ 6,122.57\\ 6,116.60\\ 6,121.62\\ 6,116.54\\ 6,116.54\\ 6,116.56\\ 6,117.64\\ 6,116.77\\ 6,116.77\\ 6,116.77\\ 6,116.76\\ 6,116.68\\ 6,142.03\\ \end{array}$	$\begin{array}{c} 44,450\\ 6,600\\ 4,030\\ 6,150\\ 4,010\\ 4,080\\ 4,020\\ 4,430\\ 4,100\\ 3,840\\ 4,090\\ 4,050\\ 18,330\end{array}$	$\begin{array}{r} -38,590\\ -2,570\\ +2,120\\ -2,140\\ +70\\ -60\\ +410\\ -330\\ -260\\ +250\\ -40\\ +14,280\end{array}$		
Calendar year 1974	-	-	- 26,120		

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

McClure (Granite Point) Reservoir.--Water-stage recorder in NE&SWA sec. 24, T. 17 N., R. 10 E., on Santa Fe River. Original reservoir, capacity, 561 acre-ft, completed in 1926 and not subject to terms of Rio Grande Compact; in 1935, permanent flash boards were installed in spillway increasing capacity to 650 acre-feet; in 1947 both dam and spillway were raised increasing capacity to 2,615 acre-feet (gage height, 96.6 ft, crest of spillway). From 1953 to 1972 spillway was equipped with radial gates that opened automatically, increasing capacity to over 3,000 acre-feet.

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

Date	Gage height	Contents	Change in Contents
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31	85.2 85.8 85.4 84.1 86.2 88.4 82.0 76.8 79.8 78.6 80.8 83.3 84.1	1,860 1,890 1,870 1,790 2,060 1,670 1,380 1,540 1,470 1,600 1,740 1,790	$\begin{array}{r} +30\\ -20\\ -80\\ +130\\ +140\\ -390\\ -290\\ +160\\ -70\\ +130\\ +140\\ +50\\ \end{array}$
Calendar year 1974	-	-	- 70

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Sec. Sec.

S. S. A. C. Lee

STORAGE IN RESERVOIRS

Reservoirs in Rio Grande Basin in New Mexico

Nichols Reservoir.--Water-stage recorder in E4NE% sec. 21, T. 17 N., R. 10 E., on Santa Fe River. Completed in 1942; capacity, 685 acre-ft. Water is for municipal use in Santa Fe.

									•				
Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Cal.yr,
Gage height Contents Change	152.7 331 -151	147.8 245 -86	155.4 384 +139	151.3 304 -80	151.9 315 +11	150.3 285 -30	155.0 375 +90	149.7 274 -101	148.3 253 -21	152.7 331 +78	151.8 313 -18	151.0 298 -15	-184

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

Cochiti Lake. --Water-stage recorder and manometer in SWASWA sec. 5, T. 16 N., R. 6 E., in Pueblo de Cochiti Grant, on right bank. Cochiti Dam scheduled for completion in 1975; capacity 498,100 acre-ft at elevation 5,450.0 ft (crest of service spillway); dead storage 2,215 acre-ft at elevation 5,255.0 ft. Reservoir is operated by Corps of Engineers for flood control and sediment storage. Storage began Nov. 12, 1973.

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

Date	Elevation	Contents	Change in Contents
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31	5,266.38 5,263.80 5,261.53 5,265.77 5,264.00 5,261.85 5,260.57 5,263.11 5,262.75 5,260.23 5,263.49 5,262.61	5,770 4,820 4,050 5,540 4,150 3,740 4,150 3,740 4,590 4,450 3,630 4,560 4,560 4,710 4,410	-950 -770 +1,490 -650 -740 -410 +850 -140 -820 +930 +150 -300
Calendar year 1974	-	-	-1,360

Galisteo Reservoir. -- Water-stage recorder and manometer in NW% sec. 9, T. 14 N., R. 7 E., at dam on Galisteo Creek. Storage records begin in October 1970. Capacity 89,800 acre-feet at elevation 5,608.0 ft (crest of spillway). Reservoir is operated by Corps of Engineers for flood control and sediment storage. There was no storage at the end of each month

San Gregorio Reservoir. -- Staff gage in SWiNE; sec. 20, T. 21 N., R. 1 E. (projected), on Clear Creek tributary to Rio Las Vacas and Jemez River. Completed in October 1958; capacity, 254 acre-feet at elevation 9,408.0 ft (crest of spillway).

	Month-end contents, in acre-feet												
Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec	Cal yr
Contents Change	160 0	180 +20	200 +20	240 +40	280 +40	140 -140	120 -20	95 -25	75 -20	130 +55	140 +10	160 +20	- 0

Mez Canyon Reservoir. -- Water-stage recorder in SW\sW\s sec. 32, T. 14 N., R. 4 E., on Jemez River 2.3 miles above mouth. Completed in 1953; capacity, 181,800 acre-ft at elevation of 5,252.3 ft. Capacity at elevation 5,232.0 ft (crest of spillway), 112,600 acre-ft by 1969 survey. Reservoir is operated by Corps of Engineers for flood control and sediment storage Jemez

Month-end elevation, in	feet,	and	contents,	in	acre-feet
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Month	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec	Calve
Gage height Contents Change	-	- - -	a49.25 319 +319	a45.88 101 -218	- 0 -101	- 0 0	- 0 0	- 0 0	- 0 0	- 0 0	- 0 0	0	- -

a For elevation add 5,100 ft.

Acomita Reservoir. --Staff gage in SE% 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.

						oon conc	3, LIL	acre-:	teet					
Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov	Bec	Col	
Contents Change	620	618	590	485	330	270	200	•				Det.	Cal.yr.	

Month-end contents, in acres for

Reservoirs in Rio Grande Basin in New Mexico

Elephant Butte Reservoir.--Water-stage recorder in NWW sec. 30, T. 13 S., R. 3 W., at dam on Rio Grande. Storage began Jan. 6, 1915; capacity, 2,109,400 acre-feet at gage height 4,407.0 ft (crest of spillway), by survey of 1974. 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.

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

Date	Gage height	Contents	Change in Contents
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30	$\begin{array}{r} 4,355.52\\ 4,359.48\\ 4,359.89\\ 4,354.71\\ 4,350.53\\ 4,344.38\\ 4,335.35\\ 4,326.95\\ 4,323.00\\ 4,321.74\\ 4,323.99\\ 4,326.53\end{array}$	769,100 839,100 846,600 755,300 687,300 595,000 473,900 375,000 333,500 320,900 343,600 370,500	+70,000 +7,500 -91,300 -68,000 -92,300 -121,100 -98,900 -41,500 -12,600 +22,700 +26,900
December 31	4,329.40	402,500	+32,000
Calendar year 1974	-	-	-366,600

Caballo Reservoir. --Water-stage recorder in SE%SW% sec. 19, T. 16 S., R. 4 W., at dam on Rio Grande. Storage began Feb. 8, 1938; capacity, 344,000 acre-feet (by 1958 survey), 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-feet of storage reserved for flood control. Records furnished by Bureau of Reclamation.

Date	Gage height	Contents	Change in Contents			
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31	$\begin{array}{r} 4,139.89\\ 4,140.54\\ 4,147.50\\ 4,147.40\\ 4,148.84\\ 4,150.98\\ 4,159.89\\ 4,152.74\\ 4,143.28\\ 4,134.11\\ 4,137.60\\ 4,138.66\\ 4,139.61\\ \end{array}$	39,970 42,080 69,050 68,780 75,190 85,690 80,230 95,180 51,700 23,800 33,050 36,160 39,090	+2,110 +26,970 -270 +6,410 +10,500 -5,460 +14,950 -43,480 -27,900 +9,250 +3,110 +2,930			
Calendar year 1974	-	-	- 880			

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

Project Storage.--This is the combined storage in Elephant Butte and Caballo Reservoirs. Total Project Storage capacity is 2,353,400 acre-feet which excludes the 100,000 acrefeet reserved for flood control in Caballo Reservoir.

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

Date	Gage height	Contents	Change in Contents
December 31, 1973 January 31, 1974 February 28 March 31 April 30 May 31 June 30 July 31 August 31 September 30 October 31 November 30 December 31		809,100 881,200 915,600 824,100 762,500 680,700 554,100 470,200 385,200 344,700 376,600 406,700 441,600	+72,100 +34,400 -91,500 -61,600 -81,800 -126,600 -83,900 -85,000 -40,500 +31,900 +30,100 +34,900
Calendar year 1974		-	- 367,500

TRANSMOUNTAIN DIVERSIONS

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ALC: NO.

- 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 station.
- 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.
- <u>Williams Creek Squaw Pass ditch</u>.--Water-stage recorder and 2-ft Parshall flume in sec. 21, T. 39 N., R. 3 W., at Squaw Pass in Colorado. Diversion is from Williams Creek in San Juan River Basin into Squaw Creek in Rio Grande Basin. Constructed in 1938. Diversion for irrigation is from Rio Grande below Del Norte gaging station.
- <u>Tabor ditch.--Water-stage recorder and 3-ft Parshall flume in sec. 35, T. 43 N., R. 3 W., at</u> 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 & No. 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.
- <u>Azotea tunnel.</u>--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- Weminuche Pass ditch	Weminuche Pass ditch	Williams Creek- Squaw Pass ditch	Tabor ditch	Don La Font ditches	Treasure Pass diversion ditch	Azotea tunnel
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	Pine River- Weminuche Pass ditch 0 0 0 0 98 37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pine River- Weminuche Pass Weminuche Pass Pass Pass ditch ditch 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 135 713	Pine River- Weminuche Pass Weminuche Pass Williams Creek- Squaw Pass ditch 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 20 0 0 25 0 0 0 0 0 0 0 0 0 17 0 0 0 0 0 135 713 62	Pine River- Weminuche Pass Weminuche Pass Williams Creek- Squaw Pass Tabor ditch 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 98 513 0 149 37 200 20 59 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<	Pine River- Weminuche Pass ditch Weminuche Pass ditch Williams Creek- Squaw Pass ditch Tabor ditch Don La Font ditches 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 98 513 0 149 42 37 200 20 59 67 0 0 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pine River- Weminuche Pass ditch Weminuche Pass ditch Williams Creek- Squaw Pass ditch Tabor ditch Don La Font ditch Treasure Pass diversion ditch 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 98 513 0 149 42 64 37 200 20 59 67 90 0 0 17 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Imported quantities, in acre-feet, 1974

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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 station at Bosque del Apache was established for the U.S. Fish and Wildlife Service; 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 U.S. Environmental Science Services Administration, U.S. Corps of Engineers, and U.S. Bureau of Reclamation for furnishing the climatological records contained in this report.

- Alamosa Airport.--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.
- Platoro Dam.--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. Records furnished by Bureau of Reclamation.
- 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.
- Abiquiu Dam.--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.
- Santa Fe College.--Lat 35°39', long 105°58', in Santa Fe, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 6,800 ft.
- Cochiti Dam.--Lat 35°38", long 106°19", in Sandoval County at operations building, at Cochiti Damsite, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 5,560 ft.

- Jemez Dam.--Lat 35°23', long 106°32", in Sandoval County at Jemez Dam, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 5,388 ft.
- Bosque del Apache.--Lat 33°46", long 106°54', in Socorro County, 7 miles south of San Antonio, N. Mex. Standard class A pan, anemometer, maximum and minimum thermometers, standard 8-inch and recording rain gages at elevation 4,520 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 mimimum 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 Dona 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.

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EVAPORATION AND PRECIPITATION

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Station		Jan	. Feb.	. Mar	. Apr	May	Tun		Inche	s T			- 	
Alamosa Airport	Evap. Precip.	0.70	0.08	3 0.2	4 0 1	· · · · · · ·	-		y Aug	Sept	. Oct.	Nov.	Dec	Annual
Platoro Dam	Evap. Precip.	-	-	-	-	6.7	5 6.36	$\frac{2}{5}$ 5.23	8 0.7 5 4 8	2 0.62	0.74	0.15	0.7	4 6.76
El Vado Dam	Evap. Precip.	1.53	- 27	1 20	6.01	0 0: 3 9.9:	1 .54 3 9.39	8.68	7.29		2.44	-		<u> </u>
Abiquiu Dam	Evap. Precip			1.20	8.02	T	.77	1.33	2.27	. 58	2.33	.76	.6	9 12.19
Santa Fe	Evap.			1.06	8.24	.01	. 38	1.43	1.41	.55	2.10	2.42	.36	9.06
Cochiti	Evan.	1.56	.92	.50	.28	.35	.04	2.81	7.59	7.51	4.66 3.27	.14	.68	13.72
Dam 	Precip.	1.95	.25	1.18	10.36	13.30	12.95	10.98 1.93	9.88 .91	8.42 1.41	4.53 2.60	2.86	1.47	12 10
Dan	Evap. Precip.	.77	- .28	84	11.93 .03	14.49 .45	16.19	11.88	10.65	9.05	4.83	3.15	-	-
Apache	Evap. Precip.	.08	.00	.00	-	10.84	- 00	1.76			-	- 34	.23	10.10
lephant Butte Dam	Evap. Precip.	3.73	5.07	9.56	12.82	15.82	17.50	12.38	1.38	1.53	3.97	.17	.61	9.74
aballo Dam	Evap.	5.02	- 1	10.02	12.99	.47	.00 16.99	.64	. 35	1.54	2.77	.02	2.46	107.95 6.94
tate	Evap.	3.45	.00	.04	.01	.70	.00	3.86	3.04	8.36 1.71	6.35 3.26	4.11	- . 36	13.24
University	Precip.	.64	Т	. 39	T	.00	14.69	10.45 3.24	9.13 3.39	7.40	5.63	2.89	2.37	90.75



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