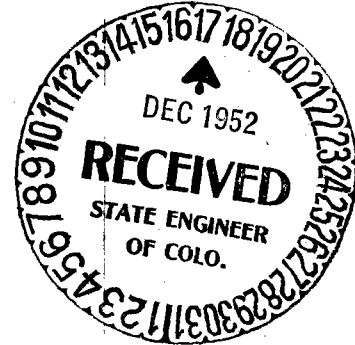


STATE OF COLORADO  
Department of Water Resources

OFFICE OF  
Special Deputy State Engineer  
147 WASHINGTON  
MONTE VISTA, COLO.  
December 15, 1952



Mr. M. C. Hinderlider,  
State Engineer,  
Denver, Colorado.

Dear Mr. Hinderlider: -

*Irrigation*

Here is my annual report for ~~Water~~ Division No. 3, District No. 20 for the season of 1952, supplementing my oral report to you on November 24th.

Water Supply Prospects.

The prospects for an abundant water supply perhaps were never better, as so indicated by the snow pack in the surrounding mountains; April 1st Snow Survey report showing over 200 percent of normal.

*Attached here to*  
~~Herewith~~ are two sheets taken from reports furnished by the Federal-State Cooperative Snow Survey Service. One showing the snow pack and water content ~~at~~ the various snow courses on the Upper Rio Grande water shed as of April 1st, 1952, and the other a graph by Mr. Stockwell showing probable discharge of the Rio Grande river at the Del Norte station for the period April-September forecasting 1,050,000 acre feet.

Actual discharge of the river at the Del Norte station for the April-September period was 751,300 acre feet; thus it is quite obvious something happened to throw these forecasts so much out of balance.

It seems now, quite apparent that the various forecasters did not allow sufficient weight for the extremely dry conditions of the mountains.

Another feature which no doubt diminished the total runoff was the fact that we did not have the usual extreme high temperature period in June. This, naturally, was a condition much to be desired for it not only prevented damaging floods but contributed to a more uniform and extended river supply.

### Ground Water Conditions:

Two years of short water supply accompanied with excessive pumping both of those years from our underground reservoir, with practically no replenishment, pulled the water table down to near an all time low.

A record of four wells over an extended area show the distance from the ground surface to the ground water level, October 1st readings.

| Well  | 1951    | 1952   |
|-------|---------|--------|
| No. 1 | 11' 10" | 3' 10" |
| No. 2 | 15' 6"  | 4' 7"  |
| No. 3 | 18' 6"  | 10' 2" |
| No. 4 | 21' 9"  | 6' 1"  |

### Diversion ~~to~~ Canals and Ditches:

With deficient top moisture and extremely low water table accompanied with a rather backward spring the early river flow was far below the demand.

When the water supply in the river became adequate, it was found that many of the larger canals, for many reasons, were not able to meet the unusual demands, ~~thus~~ the water users in many instances were nervous and often unreasonable.

Following is the amount of water used in acre feet from the river and it's tributaries in Water District 20 - 1952.

|                      |         |           |
|----------------------|---------|-----------|
| Rio Grande River     | 809,138 | Acre feet |
| Misc. small streams  | 9,340   | "         |
| Pinos & Frisco Creek | 18,076  | "         |
| Rock Creek           | 24,230  | "         |
| Total                | 860,784 | "         |

Included in the total above is 70,716 acre feet of Reservoir water and 2,108 acre feet from Trans Mountain diversions.

### Reservoirs:

Total reservoir storage the past season in District 20 was considerably under that anticipated April 1st.

The direct diversion demand was so heavy and the actual flood stage period of the river so short, that the only one of the larger reservoirs filled, was the Rio Grande on the main river.

In all reservoirs, total storage was about 98,000 acre feet with a total storage capacity of approximately 130,000 acre feet, or about 75 percent of capacity.

There <sup>was</sup> ~~is~~ a carry-over storage in all reservoirs of near 26,000 acre feet.

Little repairs have been made on the dams and related structures except on the Beaver Park dam, ~~The~~ work being done there you are quite familiar with. Inspecting ~~ing~~ the work at Beaver dam on December 8th in company with Mr. Bethune, Mr. Davis, two of the owners and contractor Scheels ~~it appears~~ <sup>indicated</sup> that work might be completed this year.

#### Trans-mountain Diversions:

~~Use of the Trans-mountain diversions was about normal,~~ <sup>and amounted to</sup> ~~with a total diversion~~ of 2912 acre feet.

A distressing accident occurred this past summer near the Fuchs diversion on Weminuche Pass, when one of the Fuchs Brothers was thrown or fell from his horse and sustained a broken neck; he lived but a few days after the accident.

#### Pumping:

Pumping for irrigation was not extensive but considerable use was made of the irrigation wells in the spring to furnish sufficient moisture in soil preparation for seeding and later to supplement the river supply for heavy flooding operations.

#### Hail Damage:

It may be said that damage in the district due to hail was below average, ~~yet~~ <sup>Some</sup> very destructive storms occurred, widely distributed, but in each instance rather small areas were effected.

#### Crop Production:

Production of crops was well above normal, <sup>and</sup> may actually prove to be an all time high in District 20, with better <sup>than</sup> average dollar values.

Estimates of the yield of potatoes in the valley are from 14,000 to 15,000 car loads and the major portion of this production was in District 20.

#### Repairs and Improvements:

The unusual <sup>ly</sup> heavy demand on ~~the~~ canals and ditches the past season has definitely indicated the need ~~for~~ repairs and renewal of structures as well as extensive cleaning of the ditches.

<sup>is</sup> Much cleaning ~~has been~~ <sup>was</sup> done ~~this~~ <sup>past</sup> late summer and fall ~~with~~ <sup>but</sup> much more necessary and anticipated.

The Rio Grande Canal Company is now <sup>constructing</sup> ~~at work~~ at their <sup>diversion</sup> ~~head-works~~ ~~on the construction of~~ a concrete slab to support the lower end of a steel grill in front of the present new structure, and <sup>are</sup> extending the trash racks by adding five more twelve foot openings.

~~Also,~~ <sup>The Company</sup> ~~the Rio Grande Canal~~ <sup>also</sup> is replacing an old wooden division structure with reinforced concrete to be equipped with four, ~~five~~ by twelve foot steel radial gates, at a cost of about \$12,000.00. The concrete OG section diversion dam 180 feet long was completed ~~this~~ last spring (1952) at a cost of \$42,430.00.

Modern improvements of the permanent type on the Rio Grande Canal the past three years ~~have~~ cost the company more than \$130,000.00 which has been paid by assessments, without bond issues or loans.

New measuring structures have been placed in the Midland and Chicago <sup>which are</sup> ditches, equipped with new Stevens recorders; also new steel gates and measuring wier with a new Stevens ~~clock~~ <sup>recorder</sup> are to be installed ~~this~~ next spring in the Westside ditch.

Some of the smaller ditches, at this time, are installing steel gates at their river headings.

The water users generally seem to recognize more and more, the real value of water, realizing that only by keeping the irrigation systems in good repair may they expect equitable administration and deliveries <sup>of water.</sup>

#### Problems of Administration:

Canal superintendents and ditch-riders, at least for the first half of the season, experienced rather difficult administration and distribution of water. <sup>↑ problems of</sup>

Water users had just past through two very dry years, resulting in low financial returns. Ground-water was very low and top moisture extremely deficient. For an extended time the water supply was not sufficient to meet the farmers demands. ~~Thus,~~ <sup>↑</sup> with this combination of circumstances, the water-users were very anxious and the pressure was extreme on those whose duty it was to deliver the water to the users.

<sup>during</sup> No serious or extraordinary problems of administration <sup>arose</sup> ~~have come~~ ~~up the~~ past season, ~~in my work,~~ All in all, it has been a good year.

#### Out-look for 1953:

With the mountains well <sup>saturated</sup> ~~filled with~~ water, a fair snow supply indicated, about 25,000 acre feet of carry-over in the reservoirs, the ground water, high and top moisture very good, prospects for next season are quite <sup>plans</sup> satisfactory. <sup>favorable.</sup>

Respectfully submitted,

*D. M. Mathias*

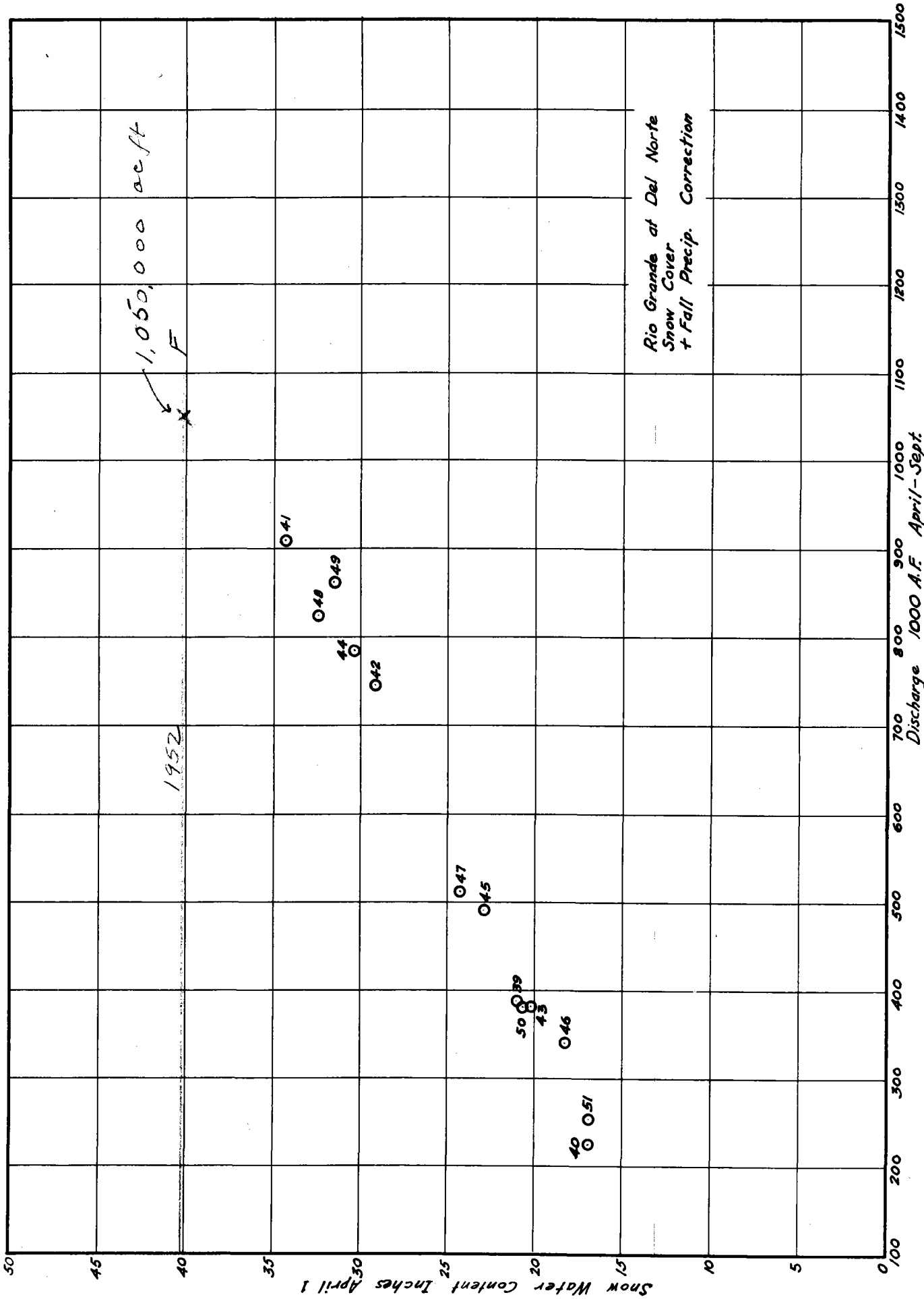
Special Deputy State Engineer.

RIO GRANDE DRAINAGE SNOW SURVEYS  
April 1, 1952

| Drainage Basin and Snow Course | No. and State | Location |                      |        | Snow Cover Measurements |                |                     |                        | Past Record |      |              |                            |
|--------------------------------|---------------|----------|----------------------|--------|-------------------------|----------------|---------------------|------------------------|-------------|------|--------------|----------------------------|
|                                |               | Sec.     | Twp.                 | Range  | Elev.                   | Date of Survey | Snow Depth (Inches) | Water Content (Inches) |             | 1950 | Yrs. of Rec. | Av. Water Content (Inches) |
| <b>RIO GRANDE IN COLORADO</b>  |               |          |                      |        |                         |                |                     |                        |             |      |              |                            |
| Wolf Creek Pass                | 26 Colo.      | 4        | 37N                  | 2E     | 10000                   | 3/31           | 131.3               | 55.3                   | 20.3        | 31.2 | 16           | 30.0                       |
| Upper Rio Grande               | 27 "          | 13       | 40N                  | 4W     | 9350                    | 3/31           | 48.5                | 14.7                   | 2.8         | 6.2  | 16           | 7.4                        |
| Silver Lakes                   | 47 "          | 15       | 36N                  | 5E     | 9600                    | 3/31           | 42.5                | 14.5                   | 3.4         | 2.2  | 15           | 5.8                        |
| River Springs                  | 49 "          | 25       | 33W                  | 6E     | 9300                    | 3/31           | 53.8                | 19.8                   | 4.0         | 7.0  | 15           | 7.2                        |
| LaVeta Pass #2                 | 74 "          | 22       | 28S                  | 70W    | 9300                    | 3/31           | 45.9                | 17.6                   | 5.5         | 4.2  | 16           | 7.9                        |
| Summitville                    | 76 "          | 30       | 37N                  | 4E     | 11500                   | 3/31           | 102.7               | 38.9                   | 13.7        | 20.8 | 12           | 20.3                       |
| Santa Maria                    | 80 "          | 8        | 41N                  | 2W     | 9700                    | 3/31           | 35.0                | 10.0                   | 6.1         | 6.3  | 12           | 4.3                        |
| Culebra                        | 82 "          |          | 37.2N                | 105.2W | 10000                   | 3/31           | 58.6                | 24.1                   | 6.1         | 6.3  | 12           | 10.3                       |
| Ft. Garland                    | 84 "          | 13       | 29N                  | 72W    | 8200                    | 3/30           | 14.1                | 3.5                    | 0.4         | 0.0  | 12           | 2.6                        |
| Platoro                        | 108 "         | 22       | 36N                  | 4W     | 9950                    | 4/4            | 80.7                | 38.3                   | 12.9        | 18.4 | 3            | 19.9                       |
| West Conejos                   | 109 "         | 25       | 35N                  | 4E     | 9450                    | 4/3            | 55.3                | 21.7                   | 5.7         | 3.0  | 3            | 8.1                        |
| La Manga                       | 110 "         | 24       | 32N                  | 5E     | 10100                   | 4/2            | 111.2               | 48.3                   | 15.7        | 21.1 | 3            | 21.4                       |
| Pyramid                        | 122 "         | 26       | 41N                  | 5W     | 10300                   | 3/28           | 56.8                | 18.4                   | 6.4         | 7.6  | 3            | 10.4                       |
| Spr. Creek Pass                | 123 "         | 2        | 42N                  | 3W     | 10900                   | 3/29           | 50.3                | 16.2                   | 7.0         | 8.2  | 3            | 11.4                       |
| Pool Table Mt.                 | 124 "         | 19       | 41N                  | 2E     | 10000                   | 3/30           | 35.7                | 10.4                   | 3.0         | 3.0  | 3            | 6.1                        |
| Lake Humphreys                 | 125 "         | 32       | 40N                  | 1E     | 9300                    | 3/30           | 39.2                | 12.1                   | 3.3         | 2.9  | 3            | 6.9                        |
| Cochetopa Pass                 | 126 "         | 12       | 45N                  | 3E     | 10000                   | 3/31           | 34.2                | 6.1                    | 4.7         | 3.0  | 3            | 5.3                        |
| Howardville                    | 151 "         | 15       | 41N                  | 7E     | 9800                    | 4/1            | 66.2                | 20.3                   | 9.6         | --   | 1            | --                         |
| Red Mt. Pass                   | 153 "         | 13       | 42N                  | 8E     | 11000                   | 4/1            | 110.2               | 44.0                   | 29.1        | --   | 1            | --                         |
| Porcupine                      | 154 "         | 2        | 41N                  | 3W     | 10400                   | 2/29           | 58.8                | 19.8                   | 6.9         | --   | 1            | --                         |
| Wolf Creek Summit              | 155 "         | 6        | 37N                  | 2E     | 11000                   | 3/31           | 130.7               | 52.1                   | 19.0        | --   | 1            | --                         |
|                                |               |          | Average for drainage |        |                         |                | 59.2                | 22.0                   | 6.9         | 9.4  |              | 10.6                       |
| <b>UPPER RIO GRANDE</b>        |               |          |                      |        |                         |                |                     |                        |             |      |              |                            |
| Wolf Creek Pass                | 26 Colo.      | 4        | 37N                  | 2E     | 10000                   | 3/31           | 131.3               | 55.3                   | 20.3        | 31.2 | 16           | 30.0                       |
| Upper Rio Grande               | 27 "          | 13       | 40N                  | 4W     | 9350                    | 3/31           | 48.5                | 14.7                   | 2.8         | 6.2  | 16           | 7.4                        |
| Santa Maria                    | 80 "          | 8        | 41N                  | 2W     | 9700                    | 3/31           | 35.0                | 10.0                   | 6.1         | 6.3  | 13           | 4.3                        |
|                                |               |          | Average for drainage |        |                         |                | 71.6                | 26.7                   | 8.2         | 13.5 |              | 13.9                       |

8.  
148.2  
136  
12.2

34050  
13.5



Alamosa, Colorado,

December 15, 1952

1952

Mr. M. C. Hinderlider,  
State Engineer,  
State Capitol Building,  
Denver, Colorado

Herewith is submitted my annual report as Irrigation Division Engineer for Division No. 3 for the year 1952. This report includes tabulated summarized statements of the reports of the water commissioners of the various water districts of the amounts of water diverted from the streams, of reservoir reports and the number of acres irrigated.

On the whole the 1952 season in Water Division No. 3, which comprises the San Luis Valley, was very good. The winter's snow pack and the water content in the mountains on the west side of the Valley was the highest of record. The snow report of April 1, 1952 showed some 200 per cent of normal. A run off of flood proportions was forecast, particularly, in District No. 20. However, the run off did not develop into flood proportions due to a number of reasons, the principal ones being, perhaps, the very dry condition in the mountains and the absence of very warm weather during the periods of usual peak flow.

In District No. 21 the run off did reach flood proportions and some flood damage was done by the flooding of the Alamosa River. In District No. 22, the run off on the San Antonio River did reach flood proportions and, except for the operation of the Platora

Reservoir, the Conejos River would have reached flood proportions. This reservoir was completed in the fall of 1951, and was operated during the 1952 season for flood control only. At various times there was considerable water in storage, which was released so as to maintain a more or less steady flow in the river.

The total diversions from the streams to the ditches was approximately 124 % of the past 10 year average and was only about 9500 acre feet less than the amount diverted in 1941. This percentage for the various Water Districts varied from approximately 165 % in District # 21 to 88 % in District # 25 and 87% in District No. 26. Due to favorable weather conditions the run off period lasted longer than usual and rains in the mountains during the latter part of the season helped materially in holding up the stream flow.

All the reservoirs were able to store some water. The Rio Grande and Terrace Reservoirs filled to capacity. The amount of water diverted from Reservoirs in this Division during the 1952 season was  $41\frac{1}{2}$  % of total reservoir capacity. The amount of water in storage on November 1, 1952 was approximately 14% of total capacity.

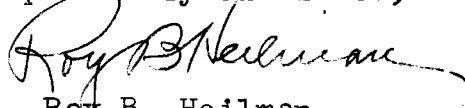
The crops throughout the Division were good. The season was good and the yield was very good. The mountain ranges were good, due to the general snow cover and the rains.

Pump wells were again used to supply supplemental water where reservoir water was not available. The number of pump wells and artesian wells continues to increase year by year. There have been a number of large artesian wells dug which flow from 2 to 6 cubic feet per second, depending upon the size, the depth, and the location of the well.



There were few administrative problems, as is usual  
in years of good water supply.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Roy B. Heilman".

Roy B. Heilman,

Irrigation Division Engineer

Division No. 3.

SUMMARY

WATER COMMISSIONERS' DITCH REPORTS

1952

DIVISION NO. 3

| No. of Water District | Number of Ditches Reporting | First Day Water was carried | Last Day Water was carried | No. Days Water carried | No. of Acre Feet carried by all |
|-----------------------|-----------------------------|-----------------------------|----------------------------|------------------------|---------------------------------|
| 20                    | 188                         | 3-29                        | 11-18                      | 234                    | 860784                          |
| 21                    | 73                          | 3-30                        | 10-31                      | 215                    | 153870                          |
| 22                    | 101                         | 4-1                         | 10-31                      | 214                    | 382680                          |
| 24                    | 57                          | 4-2                         | 10-31                      | 213                    | 63416                           |
| 25                    | 56                          | 3-21                        | 10-31                      | 225                    | 45674                           |
| 26                    | 59                          | 4-1                         | 10-31                      | 214                    | 44180                           |
| 27                    | 34                          | 4-1                         | 10-31                      | 214                    | 15662                           |
| 35                    | 76                          | 4-1                         | 10-31                      | 214                    | 60094                           |
| Totals for Division   | 644                         |                             |                            |                        | 1626360                         |

| No. of Water District | Total Number of Acres that can be Irrigated | Total Acres Irrigated |
|-----------------------|---|-----------------------|
| 20                    | 449754                                      | 358527                |
| 21                    | 57125                                       | 52078                 |
| 22                    | 115418                                      | 109979                |
| 24                    | 46841                                       | 28749                 |
| 25                    | 35494                                       | 17460                 |
| 26                    | 42882                                       | 17379                 |
| 27                    | 10540                                       | 5330                  |
| 35                    | 40581                                       | 25836                 |
| Total for Division    | 798635                                      | 615338                |

These figures include Reservoir Water and Trans-Mountain Diversions.

SUMMARY

WATER COMMISSIONERS' RESERVOIR REPORTS

1952

| Name of Reservoir         | Water District No. | Capacity in Acre Feet | Acre Feet in Storage  |        | Total Acre Feet Delivered. |
|---------------------------|--------------------|-----------------------|-----------------------|--------|----------------------------|
|                           |                    |                       | May 1                 | Nov. 1 |                            |
| Rio Grande                | 20                 | 51113                 | 2227                  | 10916  | 40268                      |
| Santa Maria               | 20                 | 43565                 | 2822                  | 8951   | 21456                      |
| Continental               | 20                 | 26716                 | 6934                  | 2918   | 5482                       |
| San Luis<br>(Beaver Park) | 20                 | 3283                  | ----                  | 898    | 1350                       |
| Metroz                    | 20                 | 395                   | 246                   | 116    | 88                         |
| Little Ruby               | 20                 | 225                   | 225                   | 155    | 40                         |
| Sowards No. 1             | 20                 | 121                   | 121                   | 121    | Not used                   |
| Sowards No. 2             | 20                 | 22                    | 22                    | 22     | " "                        |
| Sowards No. 3             | 20                 | 18                    | 18                    | 18     | " "                        |
| Meadow Lake               | 20                 | 199                   | 122                   | 0      | 82                         |
| Lach Laven                | 20                 | 24                    | 24                    | 24     | Not used                   |
| Streams                   | 20                 | 40                    | 40                    | 40     | " "                        |
| Goose Lake                | 20                 | 232                   | ---                   | ---    | " "                        |
| Hunters Lake              | 20                 | 48                    | 48                    | 48     | " "                        |
| Humphreys                 | 20                 | 842                   | 842                   | 842    | " "                        |
| Jumper Lake               | 20                 | 38                    | 38                    | 38     | " "                        |
| Bristol No. 1             | 20                 | 151                   | 0                     | 0      | " "                        |
| " No. 2                   | 20                 | 804                   | 0                     | 0      | " "                        |
| Archuletta                | 20                 | ---                   | Breach in dam in 1943 |        |                            |
| Spruce No. 1.             | 20                 | 111 )                 | 111                   | 75     | 126                        |
| " No. 2.                  | 20                 | 105 )                 |                       |        |                            |
| Shaw                      | 20                 | 491                   | 450                   | 298    | 138                        |
| Fuchs                     | 20                 | 237                   | 237                   | 19     | 192                        |
| Road Ganon                | 20                 | 1480                  | 1555                  | 276    | 638                        |
| Regan                     | 20                 | 667                   | 519                   | 379    | Not used                   |
| Lost Lakes - Lower        | 20                 | 966                   | 966                   | 679    | 336                        |
| " " - Upper               | 20                 | 100                   | 100                   | 100    | Not used                   |
| Spring Creek (Wright)     | 20                 | 145                   | 100                   | 0      | 92                         |
| Meadow Lake               | 20                 | ---                   | ---                   | ---    | Not used                   |
| Trout Lake                | 20                 | 320                   | 320                   | ---    | 237                        |
| S.V. Dude                 | 20                 | 120                   | 120                   | 120    | Not used                   |
| Poage                     | 20                 | 208                   | 208                   | 145    | 86                         |
| Squaw                     | 20                 | 140                   | 140                   | 0      | 115                        |
| Terrace                   | 21                 | 17700                 | 3414                  | 4425   | 12396                      |
| La Jara                   | 21                 | 14052                 | ?                     | 4298   | 889                        |
| Cove Lake                 | 22                 | 9710                  | 7130                  | 2090   | 5850                       |
| Sanchez                   | 24                 | 103155                | 7874                  | 3286   | 24973                      |
| East Dale No. 1.          | 24                 | 3468                  | ----                  | ----   | 1179                       |
| " " " 2.                  | 24                 | 3047                  | No water stored.      |        |                            |
| Salazar No. 1.            | 24                 | 234                   | 160                   | 20     | 1468                       |
| " No. 2.                  | 24                 | 35                    | No water stored.      |        |                            |
| Mountain Home             | 35                 | 20147                 | 1898                  | 1294   | 5504                       |
| Smith                     | 35                 | 5336                  | 3210                  | 1091   | 6506                       |
| Totals for Division -     |                    | 309810                | 42241                 | 43702  | 129491                     |

1952 RESERVOIR STORAGE REPORT - DIVISION NO. 3.

AMOUNTS IN STORAGE IN ACRE FEET.

|          | Rio Grande<br>✓ | Santa Maria<br>✓ | Continental<br>✓ | Sanchez | Terrace<br>✓ |
|----------|-----------------|------------------|------------------|---------|--------------|
| 12-1-51  | 1386            | 432              | 1781             | 1880    | 1741         |
| * 1-1-52 | 3350            | 1393             | 2081             | 2777    | 1808         |
| 2-1-52   | 5300            | 1900             | 2500             | 3085    | 1970         |
| 3-1-52   | 5482            | 2584             |                  | 3597    |              |
| 4-1-52   | 6825            | 2753             | 5006             | 5400    | 2320         |
| 5-1-52   | 2671            | 2822             | 6934             | 7874    | 3414         |
| 6-1-52   | 16354           | 20064            | 3172             | 14709   | 11974        |
| 7-1-52   | 45728           | 29068            | 11365            | 17196   | 16138        |
| 8-1-52   | 23173           | 14408            | 9455             | 8925    | 8367         |
| 9-1-52   | 10123           | 9122             | 3309             | 2838    | 5668         |
| 10-1-52  | 10916           | 9122             | 2829             | 2163    | 5628         |
| 11-1-52  | 10916           | 8291             | 2918             | 3236    | 4425         |

|          | Mt. Home<br>✓ | Smith | Cove Lake | La Jara         | San Luis<br>Beaver<br>Park |
|----------|---------------|-------|-----------|-----------------|----------------------------|
| 12-1-51  | 514           | 604   | 0         | 0               | 0                          |
| * 1-1-52 | 653           | 691   | 0         | 0               | 0                          |
| 2-1-52   | 953           | 1051  | 0         | 0               | 0                          |
| 3-1-52   | 1161          | 1288  | 0         | 0               | 0                          |
| 4-1-52   | 1421          | 1631  | ?         | 0               | 0                          |
| 5-1-52   | 1898          | 3210  | 7130      | ?               | 0                          |
| 6-1-52   | 5431          | 5336  | 7390      | 6666            | ?                          |
| 7-1-52   | 7408          | 3514  | 7390      | 6629            | 2180                       |
| 8-1-52   | 2806          | 2400  | 5160      | 5433            | 2180                       |
| 9-1-52   | 1898          | 1515  | 4335      | <del>4335</del> | 1751                       |
| 10-1-52  | 1556          | 1231  | 3020      | 4316            | 1750                       |
| 11-1-52  | 1294          | 1091  | 2090      | 4298            | 1751                       |

VEGETABLE SHIPMENTS

1952 Season to Dec. 16, 1952.

|                           |      |     |       |
|---------------------------|------|-----|-------|
| Lettuce                   | 436  | Car | Loads |
| Mixed Vegetables          | 214  | "   | "     |
| Garden Peas               | 190  | "   | "     |
| Cabbage                   | 163  | "   | "     |
| Carrots                   | 41   | "   | "     |
| Cauliflower               | 385  | "   | "     |
| Potatoes                  | 4798 | "   | "     |
| Total Car Loads - - - - - | 6227 |     |       |

These figures do not include truck shipments, which are estimated to be about one-third of the car load shipments.

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SUMMARY

1952 TRANS-MOUNTAIN DIVERSIONS

INTO DIVISION NO. 3.

|                        | Acre Feet     |
|------------------------|---------------|
| Weninuche              | 2180          |
| Squaw Pass             | 240.6         |
| Spring Creek Pass      | 294.1         |
| Treasure Pass          | 197.5         |
| Piedra Pass            | 0             |
| Lake Fork of Cochetopa | Not computed. |

COMPARISON FOR PAST 10 YEAR PERIOD

|      | No. of Acres<br>Irrigated | Acre Feet of Water<br>Delivered to<br>Ditches |
|------|---------------------------|---|
| 1943 | 769680                    | 1123219                                       |
| 1944 | 749625                    | 1557569                                       |
| 1945 | 746751                    | 1318180                                       |
| 1946 | 698431                    | 912394  |
| 1947 | 742289                    | 1351229                                       |
| 1948 | 757041                    | 1320484                                       |
| 1949 | 789722                    | 1444440                                       |
| 1950 | 570392                    | 964516  |
| 1951 | 359228                    | 631136  |
| 1952 | 615338                    | 1626360                                       |