1965

ANNUAL REPORT

OF

GLEN E. BREES

DIVISION ENGINEER

IRRIGATION DIVISION NO. 3

Alamosa, Colorado November 29, 1965

Mr. A. Ralph Owens, Acting State Engineer Room 232 State Services Building Denver, Colorado

Dear Mr. Owens:

Herewith is submitted my annual report covering activities in Irrigation Division No. 3 for the irrigation season of 1965.

This report includes the tabulated and summarized records of ditches, canals, reservoirs, and trans-mountain diversions.

An early season snow report of January 1, 1965 indicated as much as 150% of normal snow pack due to early winter snow-fall. Snow continued to fall often and in great amounts during the early months of this year assuring the San Luis Valley the best surface water supply since 1957. Soil moisture conditions in the high elevations of the Rio Grande Drainage was better than normal. Soil moisture in the irrigated area was fair. Carry-over storage in reservoirs was low or only about 40% of normal.

This was a much different picture facing the water users than the picture for the last several years. Plans were made

accordingly in anticipation of an increased water supply for the year.

Cool temperatures retarded the snow melt to the extent that there was no high water from the melting snow. Heavy demands by senior direct flow users made it necessary to stop storage in the reservoirs from time to time during the spring run-off. Most of the small reservoirs were able to fill to capacity, but the only major reservoirs filling to capacity were the Rio Grande Reservoir in District No. 20 and the Terrace Reservoir in District No. 21. It was again possible to permit storage during the fall months.

Above normal precipitation for the Upper Rio Grande River Basin was the pattern for the summer months and continued on through September. Water for irrigation was generally adequate as a result of the heavy snow pack combined with the above normal precipitation during the summer months holding up the stream flow.

The streamflow forecasts for the Rio Grande River Station Near Del Norte ranged from about 650,000 Acre Feet to as high as 720,000 Acre Feet for the period May 1 to September 30; these figures ranging from 147 to 161% of normal. The forecast for the Conejos River Station Near Mogote ranged from about 220,000 Acre Feet to 240,000 Acre Feet for the same period; these figures ranging from 126 to 136% of normal.

Below is the monthly discharge of these two streams for the period.

MONTH	RIO GRANDE NR. DEL NORTE	CONEJOS NR. MOGOTE
May June July August September	197,600 A.F. 268,600 A.F. 180,300 A.F. 76,120 A.F. 47,020 A.F.	65,190 A.F. 97,780 A.F. 68,760 A.F. 16,850 A.F. 13,360 A.F.
Total	769,640 A.F.	261,940 A.F.

The total discharge at the Del Norte Station for this period was almost 50,000 Acre Feet above the highest forecast. The total discharge at the Mogote Station for this period was almost 22,000 Acre Feet above the highest forecast. It will be noted that both streams exceeded the highest forecasts for the period by 7% and 9%.

Table No. 5 in the summary shows that the 1965 discharge of the Rio Grande River Near Del Norte for the water year was about 237% of the 1964 discharge and about 154% of the past ten year average.

Table No. 7 in the summary shows that the 1965 discharge of the Conejos River Near Mogote was about 197% of the 1964 discharge and about 142% of the past ten year average.

Out of a total reservoir capacity of 366,481 Acre Feet, the 1965 maximum storage amounted to 193,133 Acre Feet. This figure is a little over 50% of the total capacity. There was 63,831 Acre Feet of reservoir water delivered to ditches in 1965.

The trans-mountain records show that there was a total of 5,611 Acre Feet imported from other divisions and 3,813

Acre Feet delivered to ditches and reservoirs in Division No. 3.

There was 1,633,230 Acre Feet diverted to ditches in this division during 1965 compared to 795,363 Acre Feet in 1964. This 1965 figure is 205% of the 1964 figure and 149% of the past ten year average. There were 568,433 acres irrigated in 1965 compared to 460,639 acres irrigated in 1964. This 1965 figure is 123% of the 1964 figure and 112% of the past ten year average. The number of acre feet used per acre in 1965 was about 164% of the acre feet used per acre in 1964 and 132% of the past ten year average.

There was a total of 919 ditches reported in 1965 and all but a few of them diverted water. Water was used for 365 days from November 1, 1964 to October 31, 1965.

A killing frost late in June combined with below average temperatures prior to this slowed up the early growth of crops. Due to the rainy season during August it was feared that we might have an early frost which would certainly reduce the yield of the potatoes which had not matured. However, frost held off longer than usual until about the middle of September allowing about a normal length of growing season for the valley.

There was more than the usual amount of damage from hail in the valley this year. On July 8, a section near the center of the heavy productive area north of the Rio Grande River suffered extensive damage from a heavy rain and hail storm which was accompanied by strong winds.

Other frequent storms of less intensity struck the farming

area south of the Rio Grande River during the latter part of July, on into August and early September. During the late summer months, hail struck several small areas along the eastern side of the valley with variable intensity which caused heavy damage to the hay, grain, and vegetable crops.

The native hay crop was especially good this year. Fields that had been out of production for the last several years due to water shortage again produced many tons. Rains during the harvest in August and September made it especially difficult to get the crop bailed and in the stack. Only a small percent of the crop was put in the stack without it getting wet at least once after it was cut.

The same was true with the harvest of the grain. Frequent rains caused no end of concern to the farmers in getting the grain in the windrow and combined.

Exceptionally good weather in October permitted the completion of harvesting the potatoes and beets without any difficulty. The acreage of potatoes was increased this year due to a good price for the 1964 crop and the prospect for an adequate water supply. The yield was good and at the present time the price is fair. If it holds up many of the valley farmers will make a come-back to some extent financially.

Regarding Rio Grande Compact Data, preliminary computations indicate that Colorado will again incur heavy indebtedness this year of something over 150,000 Acre Feet which will bring the total to nearly 1,000,000 Acre Feet. According to my computations, the debit as of November 1 was about 151,000

Acre Feet. This figure will no doubt increase for the last two months of 1965 since the Conejos Index Supply is in a bracket where about 92% of the inflow is supposed to be delivered to the State Line. The Rio Grande Index Supply is in the 90% bracket at the present time. Anticipating this increased debit, on May 4 water officials met with directors and superintendents of several of the larger ditches and canals on the Rio Grande River in an attempt to work out a voluntary cut in diversions to increase delivery at the State Line. No agreement could be reached; however, they agreed to take the proposal under advisement. On May 19 another meeting was held with the directors of the Rio Grande Water Users Association in attendance. Again discussed was a voluntary cut in diversions. Most of those present felt that the ditch companies they represented would go along with a plan; however, one of the larger ditches did not feel that they could voluntarily cut their diversions so the whole plan fell through.

During the run-off, 36,600 Acre Feet of water was stored in Platoro Reservoir bringing the total amount to 39,300 Acre Feet in storage. All of this is subject to the Rio Grande Compact. Under the terms of the Compact, during the month of January of any year the Commissioners for the lower basin states may demand the release of compact water. Due to the difficulty experienced in 1957 to deliver compact water from Platoro Reservoir in January, since that time the compact water has been released early in November. Prior to October 1

of this year, the New Mexico Commissioner informed the Colorado Commissioner that they were not in agreement to release in 1965 water held in storage. Following correspondence and telephone conversations between the Commissioners, agreement was finally reached on November 3, 1965 to permit the release of the water from Platoro Reservoir. The release was begun at 6:00 P.M. November 6 and has continued since that time at an average rate of about 1,000 Acre Feet per day. At the time of this writing there has been about 22,000 Acre Feet released from the reservoir.

Early computations indicate that we are delivering about 75% of the releases to the Conejos River at the Mouth, but it is hoped that final figures will show a better delivery. The Water Commissioner and his Deputy in District No. 22 and myself have spent a considerable amount of time during the release to get through as much of the water as possible.

Water Commissioners in this division are continuing to push for the installation of diversion works, headgates, and measuring flumes. With the help of the Soil Conservation Service and the Farm Home Administration, the most progress has been made in District No. 24. During the past year in Division No. 3, seven new complete diversion structures, 19 new headgates, three wastegates, and 25 measuring flumes were installed. Repairs were made to many other existing structures.

As usually happens in any high water year, several reports

reached this office regarding the safety of reservoirs in this division. Examination failed to show any serious trouble existing.

During the month of October the water in storage in Mountain Home Reservoir in District No. 35 was released and stored in Smith Reservoir to permit work on the outlet gates. At the time of this writing the work is almost completed and storage in Mountain Home Reservoir will soon begin.

Work has been discontinued on Big Meadow Reservoir in District No. 20. This reservoir is being built by the Fish, Game, and Parks Commission. The outlet tube is mostly in place and the gate has been installed. Due to a problem of springs within the location of the dam, difficulty occurred between the commission and the contractor and the contract has been cancelled. They anticipate that a new contract will be let next year and construction resumed.

Again this past season, I spent quite a lot of time in District No. 24 continuing with the program started last year attempting to work out the problem of inflow from springs below the water surface in the Sanchez Reservoir. Since a good water year was experienced in the district this year, the problem was not as serious as in low water years.

Complying with your letter of July 28, 1965, this division commenced computations of reservoir losses due to evaporation. In a few cases we were able to charge the evaporation losses against the reservoirs on live streams by measuring the inflow and passing through the outlet gates an equivalent amount.

For the balance of the reservoirs a method similar to the one devised by Mr. Hinderlider several years ago was used. There are still several problems to be ironed out, but since we were experiencing a good water year very few objections were raised by the owners of the reservoirs to the method used.

The change of the method of payment for all Per Diem Water Commissioners and Deputies to the monthly basis created a few problems in this division. In a few cases the monthly rate is less than they received under the old system of per diem pay. As a whole, however, the change received the approval of the men since it will not be necessary for them to perform regular duties on Saturdays, Sundays, and Holidays during some months of the year when their work does not require that they be on duty.

Administrative problems were not as great or as many this season as in poor water years. In most cases complaints were from ditches on the lower end of the streams which had more water than the channels would carry and were asking ditches upstream to increase their diversions.

The Water Commissioners and Deputies in this division did a very fine job and I wish to extend to them my thanks.

Also I wish to express my thanks to Hydrographer, Tom Kelly, and the personnel in the Denver Office.

Respectfully submitted,

Illen E. Brees

Glen E. Brees Division Engineer

Irrigation Division No. 3

Table No. 1

RESERVOIR STORAGE IN ACRE FEET

Date	Rio Grande	Santa Maria	Continental	Beaver Park	Terrace
Dec. 1, 1964 Jan. 1, 1965 Feb. 1, 1965 Mar. 1, 1965 Apr. 1, 1965 June 1, 1965 July 1, 1965 Aug. 1, 1965 Sept. 1, 1965 Oct. 1, 1965 Nov. 1, 1965	900 3,200 4,590 5,780 6,980 15,193 27,626 51,113 38,399 29,148 28,983 28,983	1,760 2,210 2,570 2,840 3,190 4,575 9,989 19,690 19,717 17,494 16,790 17,410	300 700 1,200 1,600 2,100 3,180 5,985 10,852 10,010 3,927 4,248 5,768	380 1,020 1,610 1,970 2,220 2,596 3,240 4,434 4,401 4,401 4,401 4,401 3,400	1,592 2,080 2,550 2,970 3,352 7,033 10,160 17,172 13,114 10,292 10,767 10,653

Dat e	Platoro	Cove Lake	Sanchez	Mountain Home	Smith
Dec. 1, 1964 Jan. 1, 1965 Feb. 1, 1965 Mar. 1, 1965 Apr. 1, 1965 June 1, 1965 July 1, 1965 Aug. 1, 1965 Sept.1, 1965 Oct. 1, 1965 Nov. 1, 1965	2,700 2,700 2,700 2,700 2,700 5,100 10,500 39,300 39,300 39,300 39,300 39,300	400 300 220 190 55 3,610 6,380 5,750 3,939 2,528 1,635 1,123	3,110 3,716 4,378 4,658 5,280 7,027 8,264 13,366 12,829 12,091 13,406 14,217	1,318 1,449 1,888 2,167 2,450 2,838 3,389 4,327 3,786 1,987 1,834	104 104 104 165 1;352 1;843 1;447 1;542 1,352 1,352 1,848 3,027

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Table No. 2

RESERVOIRS

Name	Capacity in A.F.	Quantity of Water 1965 Max. in A.F.	Quantity of Water Nov. 1 in A.F.	Quantity of Water Delivered to Ditches in A.F.
Alberta Park	598	- 598	· 5 98	0
Beaver Park	4 , 758	4,434	3,400	Ō
Big Ruby	94	90	24	57
Bristol Head No. 1	121	0	0	Ö
Bristol Head No. 2	804	, Ó	, O	, O
Continental	22 , 679	12,718	5 , 768	8;208
Cove Lake	6,380	6,380	1,123	12,386
Downing	30	. 0	0	0
Eastdale No. 1	3;468	1,734	558	890
Eastdale No. 2	3,041	Q	0	0
Fuchs	238	238	187	Ο
Goose Lake	232	232	133	පි3
Hermit No. 1	385	297	233	. O
Hermit No. 2	407	380	369	Ο
Hermit No. 3	192	192	192	0
Humphreys Hunters Lake	842	842	818	0
Jumper Creek	19 · 38	19 · 38	19	0
La Jara	14,052	7 , 220	38	0
Loch Laven	24	7,220	4 , 938 0	0
Lost Lake (Lower)	966	966	717	0 180
Lost Lake (Upper)	68	68 68	71 7 68	100
Meadow Lake (McCrone)	174	174	Ö	125
Meadow Lake (Wright)	īij	115	90	0
Metroz (Lower Basin)	396	306	268	Ö
Metroz (Upper Basin)	84	84	84	Ö
Mill Creek	· 43	. 34	34	, 0
Mountain Home	19,150	4,419	0	3,400
Platoro	60 , 000	39,300	39,300	0
Poage	370	264	260	0
Regan's Lake	· 823	484	· 477	· O
Rio Grande	51 , 113	51 , 113	28 , 983	19,813
Rito Hondo	561	561	561	0
Road Canyon No. 1	1,587	1,587	942	0
Road Canyon No. 2	84	84	84	0
Salazar No. 1	234	No repo		
Salazar No. 2 Sanchez	· 35	35	35	, 0
Santa Maria	103;155	14,966	14,217	4;234
Shaw Lake	43 , 565 681	21,018 681	17,410	3,392
S. Lazy U Dude Ranch	106	106	212	406
S. Lazy U No. 2	. 42		99	0
Smith	5,000	, 42 1 871	36	, 0
Sowards No. 1-A	8	1,871 8	3 , 027 8	1,907
Sowards No. 2	35	35		0
))))	35	0

RESERVOIRS CONTINUED

Name	Capacity in A.F.	Quantity of Water 1965 Max. in A.F.	Quantity of Water Nov. 1 in A.F.	Quantity of Water Delivered to Ditches in A.F.
Sowards No. 3 Sowards No. 4 Spring Creek Spruce Lake No. 1 Spruce Lake No. 2 Squaw Lake Streams Lake Terrace Trout Lake Troutvale No. 1 Troutvale No. 2 Trujillo Meadows Wee Ruby	19 45 165 98 105 162 41 17,172 320 201 257 913 186	19 45 165 98 105 0 41 17,172 198 201 257 913 186	19 45 144 96 103 0 41 10,653 196 201 257 913 0	0 0 0 0 0 0 0 8,595 0 0 0 0
Totals	366,481	193,133	138,013	63,831

Table No. 3
TRANS-MOUNTAIN DIVERSIONS

Name of Diversion	Acre Feet Imported	Delivered to	Acre Feet Delivered to Reservoirs	Acre Feet Delivered to Senior Decrees for Reservoir Evaporation	Reservoir	Total Acre Feet Del.
Fuchs Ditch @ Weminuche Pass	576	459	· 0	0	0	459
Piedra Pass Ditch (Eas	st) 0	0	0	0	0	0
Piedra Pass Ditch (Wes	st) 0	0	0	0	0	0
Raber-Lohr Ditch @ Weminuche Pass	3,227	2,490	42	0	200	2,732
Squaw Pass Ditch @ Squaw Pass	75	65	0.	0	0	65
Tabor Ditch @ Spring Creek Pass	1,141	0	0	91	154	245
Tarbell Ditch Near Cochetopa Pass	0	0	0	O);	0	0
Treasure Pass Ditch @ Wolf Creek Pass	592	75	41	0	196	312
Total	5 , 611	3 , 089	83	91	550	3,813

Table No. 4

DIVERSIONS TO CANALS AND DITCHES DISTRICT NO. 20

Diverted From	Direct A.F.	Trans-Mt. Diversions A.F.	Reservoi A.F.		Acres Irrigated	A.F. Per Acre
Rio Grande	806,528	2,799	32,359	841,686	316,390	2.66
Pinos, Frisco, & Schrader	24,833	Ο	0	24,833	5,931	4.19
Rock and Spring	18,102	0	0	18,102	6,708	2.70
Other Streams	18,876	290	60	19,226	4,156	4.63
Total	868,339	3,089	32,419	903,847	333,185	2.71

Table No. 5

COMPARISON OF RIVER DISCHARGE, DITCH DIVERSIONS,

AND ACRES IRRIGATED IN DISTRICT NO. 20

Year	Total Acre Feet Discharge of Rio Grande River Near Del Norte Yr. Ending Sept. 30	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre
1956 1957 1958 1959 1960 1961 1962 1963 1964 1965	340,700 801,200 750,700 347,500 624,200 478,200 771,600 341,400 372,200 880,300	361,716 866,049 632,543 387,147 637,986 558,410 761,901 364,825 425,723 903,847	256,483 314,430 324,248 278,485 326,884 318,591 341,205 281,629 293,293 333,185	1.41 2.75 1.95 1.39 1.95 1.75 2.23 1.30 1.45 2.71
Total	5,708,000	5,900,147	3,068,433	
Mean	570,800	590,015	306,843	1.92

Table No. 6

COMPARISON OF DITCH DIVERSIONS
AND ACRES IRRIGATED IN DISTRICT NO. 21

Year	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre
1956 1957 1958 1959 1960 1961 1962 1963 1964	67,781 145,032 81,710 47,595 86,736 72,908 116,178 39,486 56,390 136,454	40,465 49,782 46,001 30,426 45,248 45,417 47,109 24,587 35,755 51,806	1.68 2.91 1.78 1.56 1.92 1.61 2.47 1.61 1.58 2.63
TOTAL	850,270	416,596 41,660	
MEAN	85,027	41,660	2.04

Table No. 7

COMPARISON OF RIVER DISCHARGE, DITCH DIVERSIONS
AND ACRES IRRIGATED IN DISTRICT NO. 22

Year	Total Acre Feet Discharge of Conejos River Near Mogote Yr. Ending Sept. 30	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre
1956 1957 1958 1959 1960 1961 1962 1963 1964 1965	168,400 325,600 251,100 150,600 208,300 201,600 255,300 132,600 155,500 305,800	223;468 339;634 231;797 170;793 222;302 248;348 271;729 135;835 181;686 308,980	95,498 100,976 98,342 85,306 89,094 94,781 93,823 76,228 86,966 100,412	2.34 3.36 2.36 2.00 2.50 2.62 2.90 1.78 2.09 3.08
TOTAL	2,154,800	2,334,572	921,426	
MEAN	215,480	233,457	92,143	2.53

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<u>Table No. 8</u>

<u>COMPARISON OF DITCH DIVERSIONS</u>
AND ACRES IRRIGATED IN DISTRICT NO. 24

 Year	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre	
1956 1957 1958 1959 1960 1961 1962 1963 1964	36,616 34,986 61,528 57,959 57,993 58,882 54,973 31,426 39,226 66,173	14,664 24,867 23,376 20,074 22,720 22,205 21,654 16,885 16,735 19,562	2.50 1.41 2.63 2.89 2.55 2.55 2.54 1.86 2.34 3.38	
TOTAL	499,762	202,742		***************************************
MEAN	49,976	20,274	2.47	

Table No. 9

COMPARISON OF DITCH DIVERSIONS
AND ACRES TRRIGATED IN DISTRICT NO. 25

Year	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre	
1956 1957 1958 1959 1960 1961 1962 1963 1964	17,232 46,600 42,543 27,395 44,530 43,633 38,655 11,795 33,961 73,552	5,571 18,835 17,910 11,366 12,467 12,755 10,102 2,099 8,021 16,299	3.09 2.47 2.38 2.41 3.57 3.42 3.83 5.62 4.23 4.51	
TOTAL	379 , 896	115,425		
MEAN	37 , 990	11,542	3.29	

Table No. 10

COMPARISON OF DITCH DIVERSIONS
AND ACRES IRRIGATED IN DISTRICT NO. 26

Year	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre	
1956 1957 1958 1959 1960 1961 1962 1963 1964	15;247 95;060 62;505 25;295 40;036 24;624 45;624 12;718 30;063 78,474	6,370 31,638 33,420 10,076 15,535 10,034 17,490 5,513 9,189 26,939	2.39 3.00 1.87 2.51 2.58 2.45 2.61 2.31 3.27 2.91	
TOTAL	429,646 42,965	166,204 16,620		
MEAN	42,965	16,620	2.59	

Table No. 11

COMPARISON OF DITCH DIVERSIONS
AND ACRES IRRIGATED IN DISTRICT NO. 27

Year	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre	
1956 1957 1958 1959 1960 1961 1962 1963 1964	2,780 17,575 11,085 7,368 7,341 7,047 6,785 2,710 7,509 13,139	830 6;862 6;692 3;057 4;420 2;555 3,088 785 1;100 1,885	3.35 2.56 1.66 2.41 1.66 2.76 2.20 3.45 6.83 6.97	
TOTAL	83,339	31,274		
MEAN	8,334	3,127	2.67	

Table No. 12

COMPARISON OF DITCH DIVERSIONS
AND ACRES TRRIGATED IN DISTRICT NO. 35

Year	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre	
1956 1957 1958 1959 1960 1961 1962 1963 1964	27,698 110,469 57,644 35,694 56,324 47,511 56,882 21,069 20,805 52,611	14,565 23,406 22,190 15,654 18,227 17,225 18,215 11,912 9,580 18,345	1.90 4.72 2.60 2.28 3.09 2.76 3.12 1.77 2.17	
TOTAL	486,707	169,319		
MEAN	48,671	16,932	2.87	

Table No. 13

COMPARISON OF DITCH DIVERSIONS
AND ACRES IRRIGATED IN DIVISION NO. 3

Year	Total Acre Feet Diverted From All Streams	Total No. of Acres Irrigated	Acre Feet Per Acre	
1956 1957 1958 1959 1960 1961 1962 1963 1964	752,538 1,655,405 1,181,355 759,246 1,153,248 1,061,317 1,352,711 619,864 795,363 1,633,230	434,446 570,796 572,179 454,444 534,595 523,553 553,111 419,638 460,639 568,433	1.73 2.90 2.06 1.67 2.16 2.03 2.45 1.48 1.73 2.87	
TOTAL	10,964,277 1,096,428	5,091,834		
MEAN	1,096,428	509,183	2.15	

Table No. 14
PERCENTAGE COMPARISONS

District	Ditch Diversions in 1965 Compared to 1964	Ditch Diversions in 1965 Compared to Past 10 Years	Acres Irrigated in 1965 Compared to 1964	Acres Irrigated in 1965 Compared to Past 10 Years	No. of A.F. Used Per Acre in 1965 Compared to 1964	No. of A.F. Used Per Acre in 1965 Compared to Past 10 Years
20	212%	153%	114%	109%	187%	141%
21	242%	160%	145%	124%	166%	129%
22	170%	132%	115%	109%	147%	122%
24	169%	132%	117%	96%	143%	136%
25	217%	194%	203%	141%	107%	137%
26	261%	183%	293%	162%	89%	112%
27	175%	158%	171%	60%	102%	261%
35	253%	108%	191%	108%	132%	100%
DIVISION NO. 3	205%	149%	123%	112%	164%	132%

Table No. 15

WATER COMMISSIONER'S DITCH REPORTS
IRRIGATION DIVISION NO. 3

Water District	Number of Ditches Reporting	Water Was	Last Day Water Was Used	No. of Days Water W as Carried	No. of Acre Feet Used	No. of Acres Irrigated
20 21 22 24 25 26 27 35	232 81 131 61 139 156 43 76		Oct. 31, 1965 Oct. 31, 1965	365 227 313 365 365 235 244 214	903,847 136,454 308,980 66,173 73,552 78,474 13,139 52,611	333,185 51,806 100,412 19,562 16,299 26,939 1,885 18,345
DIVISION NO. 3	919	Nov. 1, 1964	Oct. 31, 1965	365	1,633,230	568,433