

ROSWELL BASIN WATERMASTER

17th

ANNUAL REPORT

1982

Glenn W. Brim, Watermaster

909 East Second Street

Roswell, New Mexico

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Introduction

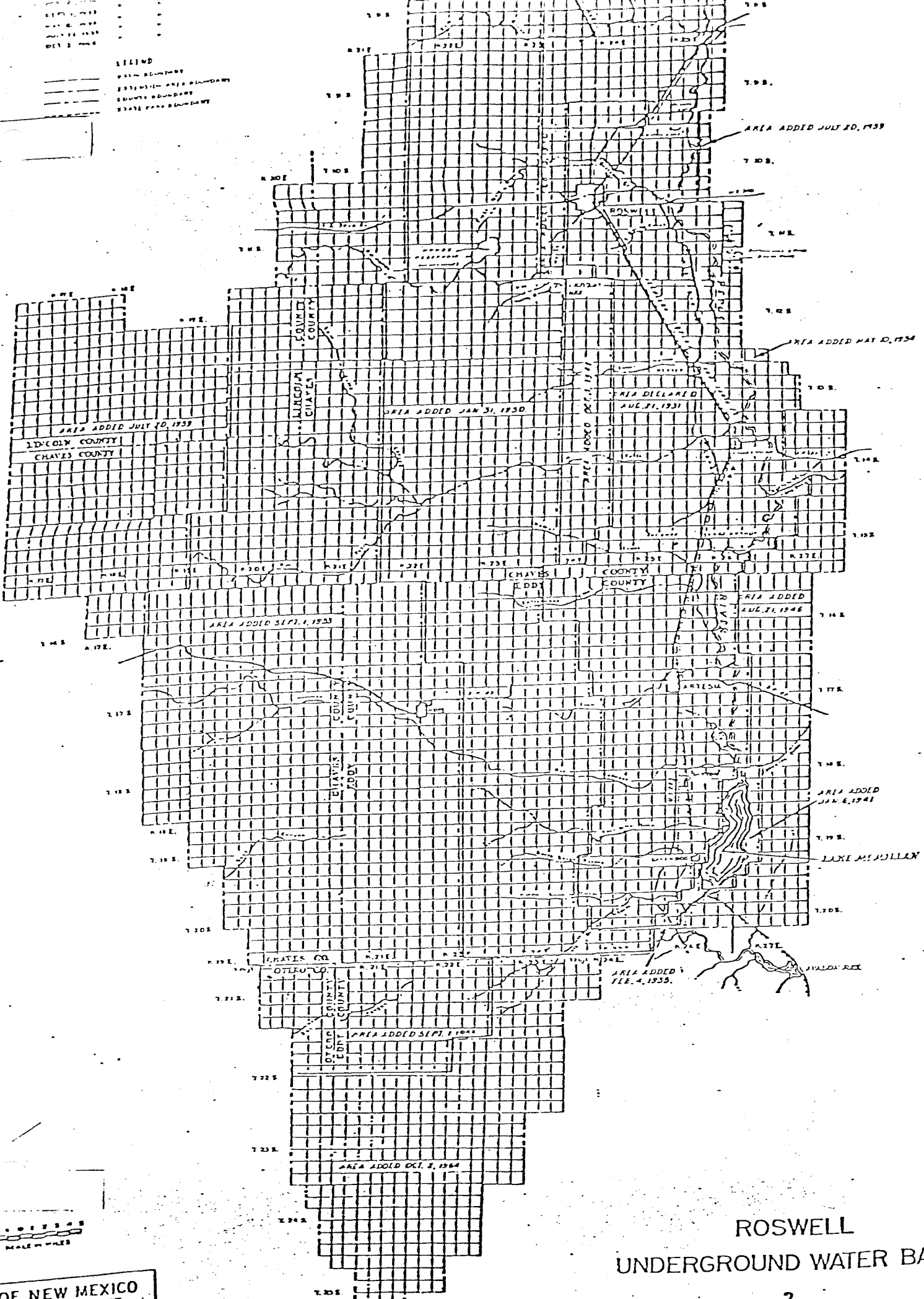
On January 10, 1966, Partial Judgment and Decree was entered under Causes Nos. 20294 and 22600 Consolidated in Chaves County, New Mexico. This Decree, which adjudicated all ground water rights for irrigation, municipal, and industrial purposes in the Roswell Artesian Basin in Chaves and Eddy Counties, further provided for the metering of wells, to commence January 1, 1967, and the establishment of a watermaster as follows:

"5. The state engineer shall appoint and employ a watermaster and such assistants as are necessary in the administration and enforcement of this judgment and decree, provided that the appointment of the watermaster shall be subject to the approval of the Court. Such watermaster shall be appointed to commence work not later than July 1, 1966. The watermaster and any assistants appointed shall serve under the direction of the state engineer and under the general supervision of the Court."

The Office was established with the appointment of a Watermaster on February 2, 1966. The present Watermaster, Glenn W. Brim, was appointed by State Engineer, S.E. Reynolds, on January 31, 1969.

This is the 17th Annual Report of the Watermaster Office.

1111ND
 MAIN BOUNDARY
 EXTENSION AREA BOUNDARY
 COUNTY BOUNDARY
 STATE AREA BOUNDARY



1000000
 1:50,000
 SCALE IN FEET

ENGINEER OFFICE
 STATE OF NEW MEXICO

ROSWELL
 UNDERGROUND WATER BASIN

GENERAL

The Roswell Basin Watermaster administers the diversion of water under the Adjudication Decree in an area extending, in general, six to eighteen miles west of the Pecos River and from twenty miles north of Roswell in Chaves County to twenty miles south of Artesia, in Eddy County, a distance of about eighty miles. The principal use of water in the area is for agricultural purposes which accounts for about 95% of the total diverted. Municipal use accounts for less than 5% and the remainder is used for commercial and industrial purposes.

Ground water is the principal source of water diverted under the Decree and this is further divided into artesian and shallow ground water. Generally, a little less than two-thirds of the water is diverted from the artesian source, about one-third is diverted from the shallow source and a small portion is diverted from a combination of surface and well waters primarily through the Hagerman Canal.

Approximately 130,000 acres of land were adjudicated irrigation rights under the Decree. The amount of acreage actually irrigated, however, varies from year to year as some rights have, under permit, been spread over larger acreages, a few rights have been "stacked" to permit larger diversions on reduced acreages, some rights have been transferred to municipal and industrial uses, some rights have been retired by the Pecos Valley Artesian Conservancy District, and some acreage is fallowed.

Procedures for accounting of water diverted under the Hagerman Canal were revised in January of 1977. Rights under the Hagerman Canal not having a

supplemental source from individually owned shallow or artesian wells are considered by this office to be adjudicated under the Hope Community Ditch Decree and not under Chaves County Cause No. 22600 and 20294 Consolidated. Thereafter, diversion of water for rights under the Hagerman Canal were accounted by the Roswell Basin Watermaster as follows:

- (1) Water diverted to farms having canal rights only will not be accounted.
- (2) Water diverted to farms having an underground right adjudicated or permitted to supplement the entire canal right shall be accounted as other adjudicated ground water rights with appropriate provisions for 5-year accounting, carriage loss and carryover.
- (3) Water diverted to farms having a combined or commingled right (either as decreed or permitted) where part of the canal right is not supplemented by ground water shall be accounted by considering the canal water diverted to be in direct proportion to the ratio of the unsupplemented canal right and only the supplemented right shall be accounted, unless otherwise indicated by conditions of approval of an individual permit.

The Honorable Lafel Oman, retired State Supreme Court Chief Justice, sitting by designation as judge in the adjudication suit, served during the 1982 reporting period.

Personnel of the watermaster office at the beginning of the 1982 season consisted of Glenn W. Brim, watermaster; Rita Valdez, secretary-clerk; and Robert Marr, as an assistant to the watermaster.

On April 5, 1982, Ramon Torres and Gordon Standridge were transferred from the water rights division to the watermaster's office to assist during the irrigation season. Gordon Standridge resigned April 23, 1982. On May 3, Mary Nunez was hired. Ramon Torres and Mary Nunez transferred to the water rights division on October 4, 1982. Ramon Torres returned October 25, through November 5, 1982 to assist in the annual and five year accounting, and Tracy Gallagher, from November 8, through December 2, 1982.

The operations of the watermaster office are financed through the Pecos Valley Artesian Conservancy District. Under the terms of the Adjudication Decree the State Engineer annually submits to the Pecos Valley Artesian Conservancy District a budget for the operations of the watermaster office and the District Board then moves the Court to approve or modify the budget submitted. The District then reimburses the State Engineer for monthly expenses incurred. The funds of the Conservancy District are derived from a levy of lands within the District.

METERING PROGRAM

Five hundred and thirty two meters were found inoperative during the 1982 irrigation season. Based on a total of 1609 meters installed on irrigation, feed pen, dairy, and Hagerman Canal wells, this is 33.06 % as compared to 31.76 % found inoperative in 1981. Each meter was read an average of 9.7 times.

The number of totalizing meters, by brand, installed on these wells and the number of each brand found to be inoperative during the 1982 irrigation season, are listed as follows:

Make of METER	TOTAL	% of TOTAL	TOTAL INOPERATIVE	MAKE % INOPERATIVE	% of TOTAL INSTALLED
Brand A	67	4.16	20	29.85	1.24
Brand B	1014	63.02	300	29.59	18.64
Brand C	397	24.68	166	41.81	10.32
Brand D	97	6.03	31	31.96	1.93
Misc.	34	2.11	15	44.12	0.93
	1609	100.0	532		33.06

Adjustments in amounts of water diverted through inoperative meters for 1982 totaled 8138.6 acre-feet; 4989.0 acre-feet of which was artesian and 3138.6 acre-feet of which was shallow. The total adjustment is 2.16% of the total diverted for irrigation use.

The problem remains of having a large percentage of the water meters

inoperative at the onset of spring pumping. It is still believed that an extensive winter maintenance program would alleviate most of this problem.

Meters are being maintained, repaired and/or replaced by field personnel of the Pecos Valley Artesian Conservancy District, at no cost to the water user.

CHANGES IN THE ADJUDICATION DECREE

There were no changes in the Adjudication Decree during the 1982 water year.

VIOLATION ACTIONS

The case of overuse in litigation at the end of 1981 season is still pending.

The one case referred to the court at the end of 1981, was heard by the Honorable Lafel Omen on June 21, 1982. Defendant was ordered by the court to enter into Consent Agreement, with the watermaster.

USE OF WATER IN THE ROSWELL BASIN IN 1982

The total water diverted in the Roswell Ground Water Basin for the water year 1982 (November 1, 1981 - October 31, 1982) under the administrative jurisdiction of the Roswell Basin Watermaster, was 398,218.7 acre-feet, the fourth highest application rate (acre-feet per acre) since metering began. Under the decree adjudication water rights in the basin, five year periods were set up for accounting of the metered water and the 1982 water year was the first year of the fourth five year period.

Of the total diversion, 254,044.0 acre-feet (63.8%) was from the artesian source, 132,446.1 acre-feet (33.3%) was from the shallow source and 11,728.6 acre-feet (2.9%) was diverted from combined underground and surface sources primarily under the Hagerman Canal and the Rio Hondo.

Irrigation use accounted for 95% of the total diverted, municipal type use accounted for 4% and miscellaneous, industrial and commercial uses accounted for the remaining 1%.

The irrigation use on 120,932.0 equivalent water right acres (acres as originally adjudicated) permitted an average diversion of 3.12 acre-feet per acre for the basin as a whole varying from a high of 4.03 acre-feet per acre in the Lakewood-Seven Rivers area to a low of 1.61 acre-feet per acre in the Upper Felix area. The equivalent acreage figures and pumpage figures do not include unmetered stock and domestic uses, water right acreage retired from

irrigation under the program of the Pecos Valley Artesian Conservancy District. Eight hundred and thirty-three farming units are included. Included in the totals are 8138.6 acre-feet (2.16% of the total irrigation diversion) which was computed for periods when meters were inoperative.

Roswell Basin Watermaster Office
December 1982

ROSWELL BASIN WATERMASTER

Tabulation of Annual Water Diverted

1967-1982

: Year :	Ac. Ft.	: Irrigation : Eq. Ac.	: Ac. Ft./Ac. :	: Municipal : Ac. Ft.	: Ind. & Com.: Ac. Ft.	: TOTAL : Ac. Ft.
:1967 :	371,250.6	: 130,132.7	: 2.85	: 14,528.3	: 1,582.6	:387,361.5 :
:1968 :	323,917.1	: 128,245.0	: 2.53	: 13,596.3	: 1,611.1	:339,124.5 :
:1969 :	345,087.1	: 128,330.6	: 2.69	: 15,586.9	: 899.1	:361,573.1 :
:1970 :	358,686.8	: 126,002.4	: 2.85	: 15,888.5	: 916.3	:375,491.6 :
:1971 :	384,228.1	: 126,121.0	: 3.05	: 16,439.6	: 3,082.0	:403,749.7 :
:5 Yr. :						
:Aver. :	356,633.9	: 127,766.3	: 2.79	: 15,207.9	: 1,618.2	:373,460.0 :
:1972 :	367,363.6	: 125,233.8	: 2.93	: 14,821.2	: 2,398.9	:384,583.7 :
:1973 :	386,288.8	: 125,293.0	: 3.08	: 15,335.0	: 2,983.0	:404,606.8 :
:1974 :	392,413.3	: 124,240.1	: 3.16	: 18,318.5	: 3,646.3	:414,378.1 :
:1975 :	368,512.6	: 123,740.7	: 2.98	: 16,145.9	: 3,083.9	:387,742.4 :
:1976 :	419,491.9	: 123,170.1	: 3.41	: 18,182.2	: 3,271.9	:440,946.0 :
:5 Yr. :						
:Aver. :	386,814.0	: 124,335.5	: 3.11	: 16,560.6	: 3,076.8	:406,451.4 :
:1977 :	387,858.0	: 122,703.7	: 3.16	: 18,422.7	: 3,071.4	:409,352.2 :
:1978 :	359,011.0	: 122,233.7	: 2.94	: 15,569.7	: 3,270.7	:377,851.4 :
:1979 :	355,163.8	: 122,002.4	: 2.91	: 16,181.9	: 2,853.0	:374,198.7 :
:1980 :	360,484.4	: 121,763.3	: 2.96	: 17,804.3	: 2,388.6	:380,677.3 :
:1981 :	317,225.2	: 121,530.0	: 2.61	: 14,558.1	: 2,340.8	:334,124.1 :
:5 Yr. :						
:Aver. :	355,948.5	: 122,046.6	: 2.92	: 16,507.3	: 2,784.9	:375,240.7 :
:1982 :	377,179.4	: 120,932.0	: 3.12	: 18,292.1	: 2,747.2	:398,218.7 :

NEW MEXICO STATE ENGINEER
 METERED PUMPAGE SUMMARY SHEET

1982

TOWNSHIP _____ RANGE _____ SECTIONS _____

Water Right No.	Well No.	Source	Use	Well Location	Right Acre Feet	PUMPAGE - ACRE FEET				Date	Remarks	
						Surface	Shallow	Artesian	Total			
				MUNICIPAL & MUNICIPAL TYPE USE								
				Roswell				11087.9	11087.9			
				Dexter			377.0	285.5	662.5			
				Hagerman				258.8	258.8			
				Lake Arthur				66.0	66.0			
				Artesia				4368.5	4368.5			
				Hope				91.1	91.1			
				Co-ops				1648.9	1648.9			
				Domestic Utilities			28.9	79.5	108.4			
				TOTAL			405.9	17886.2	18292.1			
				FEED PEN OPERATIONS (Not Farm Connected)				254.1		254.1		
				FEED PEN OPERATIONS (FARM CONNECTED)				* 72.4	* 236.1	* 308.5		* Not to be included in TOTAL
				DAIRIES- Farm Connected- Charged To								
				IRRIGATION WATER RIGHTS				* 171.8	* 644.3	* 816.1		* Not to be included in TOTAL
				SCHOOL SYSTEMS: ROSWELL					94.0	94.0		
				MISCELLANEOUS INDUSTRIAL & COMMERCIAL								
				Chaves County			2023.8	132.7	2156.5			
				Eddy County			125.1	117.5	242.6			
				TOTALS			2808.9	18230.4	21039.3			

NEW MEXICO STATE ENGINEER
METERED PUMPAGE SUMMARY SHEET

1982

TOWNSHIP _____ RANGE _____ SECTIONS _____

			Location	Right Acre Feet	PUMPAGE - ACRE FEET				Rate of Application
					Surface	Shallow	Artesian	Total	
T 7,8,9 S; R 23 Thru 26 E			Northern	29510.0		443.4	23065.2	23508.6	2.39
			Extension						
T 10,11,12 S; R 22,23,24 E			Roswell - East	102749.9		28887.7	79964.5	108852.2	3.18
T 10,11,N $\frac{1}{2}$ 12 S; R 25,26 E			Grand Plains						
T 13,14, N $\frac{1}{2}$ 15 S; R 23,24 E			Dexter-Hagerman	104342.7	11728.6	46145.8	49056.2	106930.6	3.07
T S $\frac{1}{2}$ 12,13,14; N $\frac{1}{2}$ 15 S; R 25,26,27 E			Area						
T S $\frac{1}{2}$ 15; N 2/3 16 S; R 23 thru 26 E			Cottonwood	60038.4		24401.3	43963.1	68364.4	3.42
			Area						
T 15 S; R 17, 18 E			Upper Rio	2281.0			1220.7	1220.7	1.61
			Felix						
T S 1/3 16,17,18 S; R 25,26 E			Artesia	52152.5		19482.8	33066.7	52549.5	3.02
			Area						
T 19,20 S; R 25,26 E			Lakewood -	11721.5		10276.2	5477.2	15753.4	4.03
			Seven Rivers						
			Total Irrigation	362796.0	11728.6	129637.2	235813.6	377179.4	3.12

TWP _____ RNG _____

1982 Metered Use (irrigation)

Basin-Wide: 377,179.4 Acre Feet
3.12 Acre Feet Per Acre

Northern Extension

23,508.6 Acre Feet
2.39 Acre Feet Per Acre

Roswell-East Grand Plains

108,852.2 Acre Feet
3.18 Acre Feet Per Acre

Dexter-Hagerman

106,930.6 Acre Feet
3.07 Acre Feet Per Acre

Upper Felix

1,220.7 Acre Feet
1.61 Acre Feet/Acre

Cottonwood

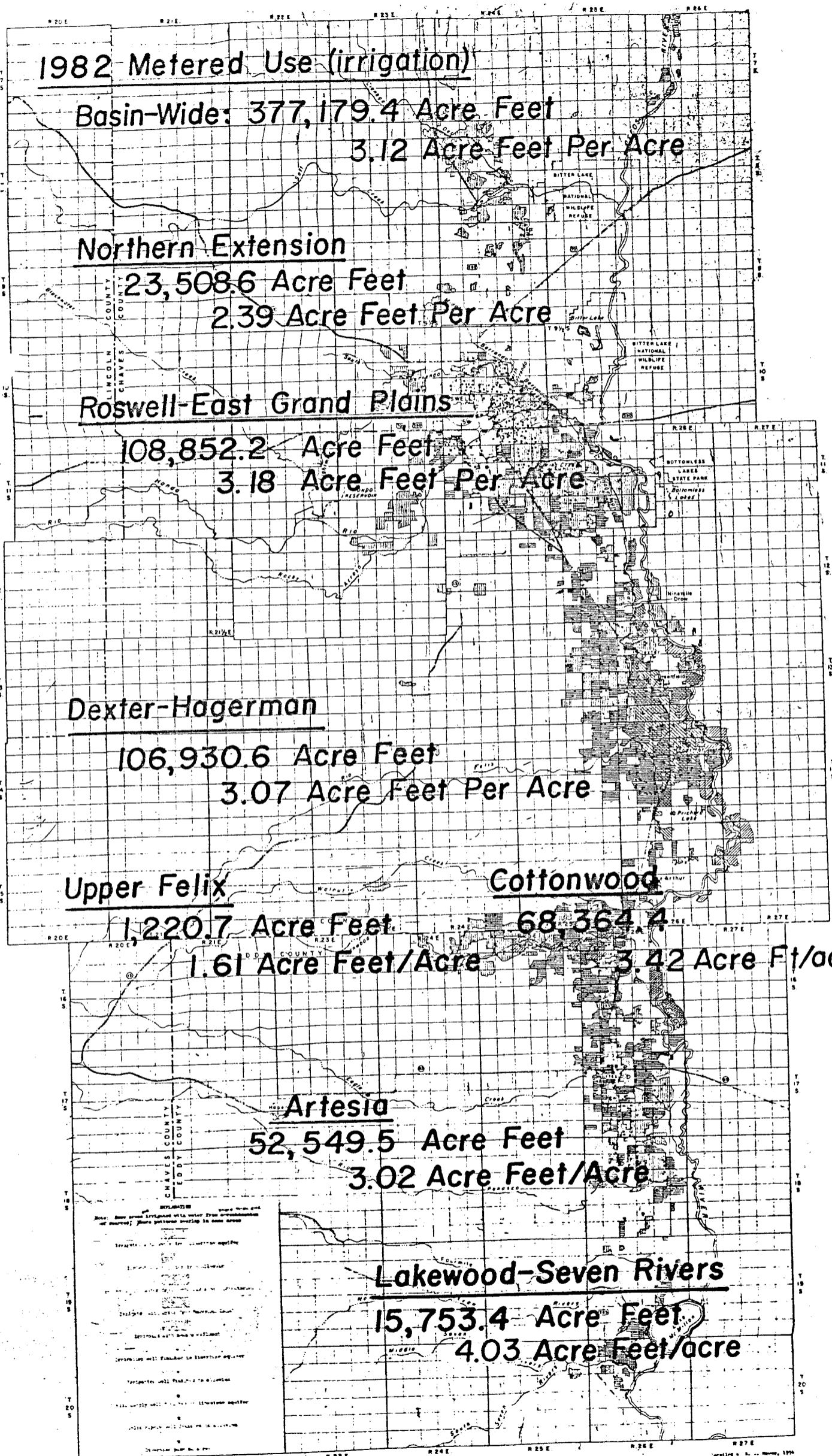
68,364.4
3.42 Acre Ft/acre

Artesia

52,549.5 Acre Feet
3.02 Acre Feet/Acre

Lakewood-Seven Rivers

15,753.4 Acre Feet
4.03 Acre Feet/acre



NOTATIONS
Note: Some areas irrigated with water from combinations of sources; these portions overlap in some areas.

- 1. Irrigation systems for the entire project.
- 2. Irrigation systems for the Colorado River.
- 3. Irrigation systems for the Colorado River and the Colorado River.
- 4. Irrigation systems for the Colorado River and the Colorado River.
- 5. Irrigation systems for the Colorado River and the Colorado River.
- 6. Irrigation systems for the Colorado River and the Colorado River.
- 7. Irrigation systems for the Colorado River and the Colorado River.
- 8. Irrigation systems for the Colorado River and the Colorado River.
- 9. Irrigation systems for the Colorado River and the Colorado River.
- 10. Irrigation systems for the Colorado River and the Colorado River.

Roswell Basin Watermaster Office
Glenn W. Brim, Watermaster

Approved Budget for the
71st Fiscal Year
(1982 - 1983)

Salaries:

Watermaster	\$ 29,229.00
Assistant	14,891.00
Secretary	9,846.00
Aide (6 months)	7,199.00
Aide (6 months)	5,588.00
Total:	<u>\$ 66,753.00</u>

Benefits:

Group Insurance	1,271.00
Retirement @7.85%	5,240.00
FICA @ 6.70%	4,473.00
Workmen's Compensation @ \$1.46/\$100.00	975.00
Liability Insurance @0.39/\$100.00	260.00
Unemployment Compensation @ 2%	<u>1,336.00</u>
Total:	\$ <u>13,555.00</u>

Personnel Assessment \$158.00 per employee x 4 632.00

Travel:

Mileage 83,000 miles @ .22 mi	18,260.00
Meals & Lodging (605 quarter days @ 10.00)	<u>6,050.00</u>
Total:	\$ <u>24,310.00</u>

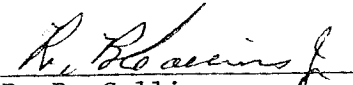
Maintenance Supplies .

Communications	150.00
Rent And Utilities	600.00
Total:	<u>1,800.00</u>
	2,550.00

Grand Total

\$107,800.00

It is anticipated that line items will vary, but that the total will not exceed \$107,800.00 for the 71st fiscal year.


R. B. Collins
District II Supervisor
March 16, 1982

Roswell Basin Watermaster

Itemized Expenditures

1982

	January	February	March	April	May	June	1982 First Half	1981 Last Half
Salaries :								
Watermaster	\$2,062.52	\$2,062.52	\$2,062.52	\$3,093.78	\$2,062.54	\$2,887.58	\$14,231.46	\$12,254.02
Assistant Watermaster	1,040.92	1,040.92	1,040.92	1,561.38	1,040.94	1,457.34	7,182.42	6,331.86
Secretary	671.26	671.26	705.28	1,057.92	705.28	987.39	4,798.39	4,123.28
Other		171.41	171.41	2,960.22	2,240.80	2,625.60	8,169.44	10,312.40
Insurance, State Share	\$ 78.06	\$ 79.31	\$ 79.32	\$ 256.45	\$ 167.49	\$ 220.22	\$ 880.85	\$ 920.76
Social Security	\$ 252.90	\$ 264.38	\$ 266.66	\$ 581.12	\$ 405.32	\$ 533.20	\$ 2,303.58	\$ 2,171.91
Retirement	\$ 232.14	\$ 242.69	\$ 244.78	\$ 533.40	\$ 372.05	\$ 489.42	\$ 2,114.48	\$ 2,030.87
Workman's Compensation	\$ 523.00	\$	\$	\$	\$ 725.53	\$	\$ 1,248.53	\$
Unemployment	\$ 100.00	\$	\$	\$	\$ 102.00	\$	\$ 202.00	\$
Mileage, Gas Maint. & Repairs	\$1,050.06	\$ 934.34	\$1,275.12	\$1,906.30	\$2,013.44	\$2,089.56	\$ 9,268.82	\$ 7,648.08
Per Diem	\$ 27.50	\$ 264.00	\$ 209.00	\$ 297.00	\$ 346.50	\$ 451.00	\$ 1,595.00	\$ 1,462.00
Liability Insurance	\$ 80.00	\$	\$	\$	\$ 161.95	\$	\$ 241.95	\$
Communications	\$ 42.00	\$ 42.00	\$ 42.00	\$ 42.00	\$ 42.00	\$ 42.00	\$ 252.00	\$ 252.00
Rent: Parking Office	\$ 135.00	\$ 135.00	\$ 135.00	\$ 135.00	\$ 135.00	\$ 135.00	\$ 810.00	\$ 810.00
Maint., Fixt., Supplies	\$	\$	\$	\$	\$ 156.71	\$ 20.00	\$ 176.71	\$ 16.58
Service to other agency	\$ 468.00	\$	\$	\$	\$	\$	\$ 468.00	\$
TOTALS	\$6,763.36	\$ 5,907.83	\$ 6,232.01	\$12,424.57	\$10,677.55	\$11,938.31	\$53,943.63	\$48,333.76

	July	August	September	October	November	December	1982 Last Half	1982 YEAR
Salaries :								
Watermaster	\$1,271.54	\$2,130.56	\$2,130.56	\$3,195.84	\$2,237.28	\$2,237.28	\$13,203.06	\$27,434.52
Assistant Watermaster	642.02	1,129.12	1,129.12	1,693.68	1,129.12	1,129.12	6,852.18	14,034.60
Secretary	434.69	765.52	802.72	1,204.08	802.71	802.72	4,812.44	9,610.83
Other	1,190.68	1,941.87	1,907.46	1,541.51	1,504.67	61.99	8,148.18	16,317.62
Insurance, State Share	\$ 114.13	\$ 196.24	\$ 195.91	\$ 219.91	\$ 164.57	\$ 98.03	\$ 988.79	\$ 1,869.64
Social Security	\$ 236.71	\$ 399.79	\$ 399.98	\$ 505.71	\$ 370.46	\$ 279.34	\$ 2,191.99	\$ 4,495.57
Retirement	\$ 268.11	\$ 468.43	\$ 468.65	\$ 599.36	\$ 445.41	\$ 332.14	\$ 2,582.10	\$ 4,696.58
Workman's Compensation								\$ 1,248.53
Unemployment								\$ 202.00
Mileage, Gas Maint. & Repairs	\$ 1,906.08	\$ 2,226.40	\$ 1,885.84	\$1,297.12	\$ 168.08	\$ 173.36	\$ 7,656.88	\$16,925.70
Per Diem	\$ 190.00	\$ 648.00	\$ 648.00	\$ 369.00	\$ 297.00	\$ 108.00	\$ 2,260.00	\$ 3,855.00
Liability Insurance								\$ 241.95
Communications	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00	\$ 300.00	\$ 552.00
Rent: Parking Office	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00	\$ 900.00	\$ 1,710.00
Maint., Fixt., Supplies								\$ 176.71
Service to other agency								\$ 468.00
TOTALS	\$ 6,453.96	\$10,105.93	\$9,768.24	\$10,826.21	\$ 7,319.30	\$5,421.98	\$49,895.62	\$103,839.25

SUMMARY

Metered use of water during 1982 resulted in an average use, for irrigation purposes, of 3.12 acre-feet per water right acre. The total quantity diverted for all uses was the sixth highest during the past fifteen years.

Inoperative meters continued to present some problems, however, under the present system of making adjustments essentially all of the water diverted through imoperative meters is accounted for. The program of checking and rating meters with the present staff seems to be working satisfactory.

1982

Diversion of Ground Water in the Roswell Artesian Basin

Acre Feet Per Acre	Number of Farms	Acreage
0.0 - 0.49	98	4,510.32
.5 - .99	41	2,315.92
1.0 - 1.49	37	3,150.96
1.5 - 1.99	45	5,575.89
2.0 - 2.49	70	9,952.61
2.5 - 2.74	49	6,433.10
2.75 - 2.99	60	12,593.64
3.0 - 3.24	87	15,140.33
3.25 - 3.49	64	11,901.27
3.5 - 3.74	82	17,779.21
3.75 - 3.99	38	6,779.08
4.0 - 4.24	60	10,514.64
4.25 - 4.49	29	4,707.66
4.5 - 4.74	27	4,730.36
4.75 - 4.99	12	2,156.10
5.0 - 5.24	06	459.60
5.25 - 5.49	06	816.80
5.5 - 5.74	09	493.54
5.75 - 5.99	02	554.30
over 6.0	11	366.7
TOTAL	833	120,932.03



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

BATAAN MEMORIAL BUILDING
STATE CAPITOL
SANTA FE, NEW MEXICO 87503

September 28, 1983

Statement To: Pecos Valley Artesian Conservancy District
Roswell Basin Watermaster Expenditures
August 1, 1983 thru August 31, 1983

Payroll Periods: July 30, 1983 to August 12, 1983
August 13, 1983 to August 26, 1983

Salaries:

Watermaster	\$ 1,541.40	
Ass't Watermaster	1,307.52	
Secretary	<u>884.64</u>	\$ 3,733.56

Other:

Nunez, M. F.	\$ 764.16	
Torres, R.	<u>1,186.24</u>	1,950.40
Insurance	\$ <u>252.16</u>	252.16
Retirement	\$ <u>591.38</u>	591.38
Social Security	\$ <u>380.84</u>	380.84
Mileage: 9877 mi. @ .22 per mi.	\$ <u>2,172.94</u>	2,172.94
I/S Meals & Lodg.	\$ <u>558.00</u>	558.00
Communications	\$ <u>50.00</u>	50.00
Rent	\$ <u>150.00</u>	<u>150.00</u>

Total Due \$ 9,839.28

"I certify that the above
bill is correct and just
and that payment therefor
has not been received."

S. E. REYNOLDS, STATE ENGINEER

By

Frank F. Rendon
Administrator