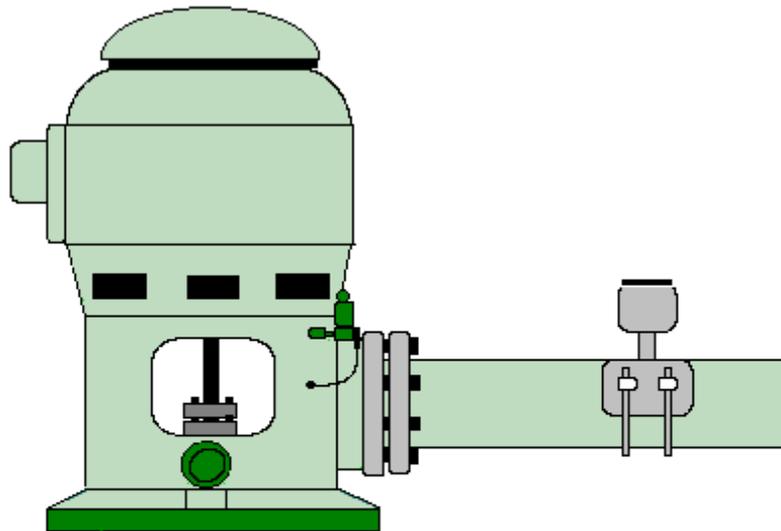


ROSWELL BASIN WATERMASTER

40TH

ANNUAL REPORT

2005



DAVID L. THOMAS, WATERMASTER

1900 WEST SECOND STREET

ROSWELL, NEW MEXICO 88203

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INTRODUCTION

On January 10, 1966 Partial Judgment and Decree was entered under Cause No. 20294 and No. 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:

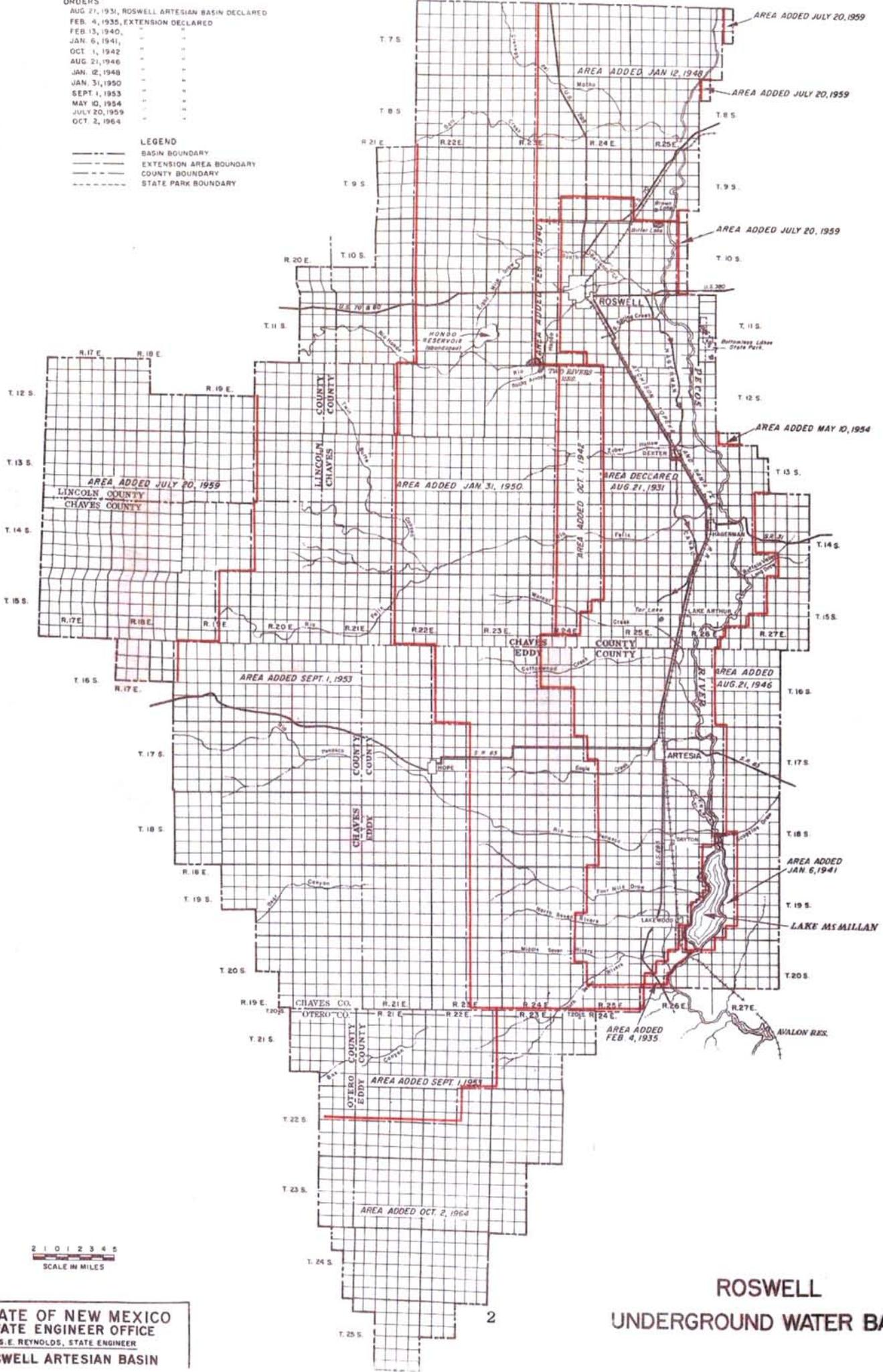
“5. The State Engineer shall appoint and employ a Watermaster and such assistants as are necessary in the administration and enforcement of this Judgment and Decree, provided that the appointment of the Watermaster shall be subject to the approval of the Court. Such Watermaster shall be appointed to 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 David L. Thomas was appointed by the Honorable Harl D. Byrd, District Judge, on July 20, 2001.

This is the 40th Annual Report of the Watermaster’s Office.

- ORDERS**
- AUG 21, 1931, ROSWELL ARTESIAN BASIN DECLARED
 - FEB. 4, 1935, EXTENSION DECLARED
 - FEB 13, 1940, " " " " " "
 - JAN 6, 1941, " " " " " "
 - OCT 1, 1942, " " " " " "
 - AUG 21, 1946, " " " " " "
 - JAN. 2, 1948, " " " " " "
 - JAN 31, 1950, " " " " " "
 - SEPT 1, 1953, " " " " " "
 - MAY 10, 1954, " " " " " "
 - JULY 20, 1959, " " " " " "
 - OCT 2, 1964, " " " " " "

- LEGEND**
- BASIN BOUNDARY
 - - - - - EXTENSION AREA BOUNDARY
 - COUNTY BOUNDARY
 - - - - - STATE PARK BOUNDARY



STATE OF NEW MEXICO
 STATE ENGINEER OFFICE
 S. E. REYNOLDS, STATE ENGINEER
 ROSWELL ARTESIAN BASIN

**ROSWELL
 UNDERGROUND WATER BASIN**

GENERAL

The Roswell Basin Water Master administers the diversion of water under the Adjudication Decree in an area existing, in general, six to eighteen miles west of the Pecos River and twenty miles north of Roswell in Chaves County to twenty miles south of Artesia, in Eddy County a distance of approximately eighty miles. The principal use of water in the area is for agricultural purposes, which accounts for about 91.4% of the total water diverted. Municipal use of water accounts for about 7.1% and about 1.5% 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. 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 this decree. The amount of acreage actually irrigated, however, varies from year to year as some rights have, under permit, been spread over larger acreage. Some rights have been transferred to Municipal and Industrial uses, while the Pecos Valley Artesian Conservancy District (PVACD) has retired some rights and some acreage is fallow.

Procedures for accounting of water diverted under the Hagerman Canal were revised in January 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. 20294 and No. 22600 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 non-supplemented canal right and only the supplemented right shall be accounted unless otherwise indicated by conditions of approval of an individual permit.*

The Honorable Judge David W. Bonem served during the 2005 reporting period.

Personnel of the Watermaster Office at the beginning of the 2005 season consisted of David Thomas, Roswell Basin Water Master, Angela Molinar, Secretary-Clerk, Phillip Fields, Assistant Water Master and John Stewart, Assistant Water Master. On January 1st 2005 Brad Todd transferred to the Water Master's office to assist with meter reading through the end of October 2005. Mr. Todd remained in the Water Masters office to assist with the annual accounting until December 31st 2005.

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

METERING PROGRAM

*Three hundred and ninety meters were found inoperative during the 2005 irrigation season. Based on a total of 1343 (primary)** meters installed on irrigation, feed pen, dairy, and Hagerman Canal Wells, this is 29.3% as compared to 23.4% found inoperative in 2004. Each meter was read an average of 8.0 times, including the beginning and year-end readings. The number of totalizing meters, by brand installed on these wells and the number of each brand found to be inoperative during the 2005 irrigation season, are listed as follows:*

MAKE OF METER	TOTAL OF MAKE	% OF TOTAL	TOTAL IN-OP	% MAKE IN-OP	% OF TOTAL INSTALLED
McCROMETER	1250	93.1	380	30.4	28.3
ROCKWELL/SENSUS	88	6.6	9	10.2	0.6
SPARLING	3	0.2	1	33.3	0.1
MISCELLANEOUS	2	0.1	0	0.0	0.0
TOTALS	1343	100	390		29.0

Adjustments in amount of water diverted through inoperative meters for 2005 totaled 5862.24 acre-feet of which 3865.19 acre-feet was Artesian underground water and 1997.05 acre-feet of which was Shallow underground water diverted for irrigation use.

*** Primary meters are meters the P.V.A.C.D. will repair or replace in the field.*

The problem remains of having a large percentage of the water meters inoperative at the onset of spring pumping.

Primary meters are being maintained, repaired and/or replaced by field personnel of the PVACD.

CHANGES IN THE ADJUDICATION DECREE

There were no changes in the Adjudication Decree during the 2005 water year.

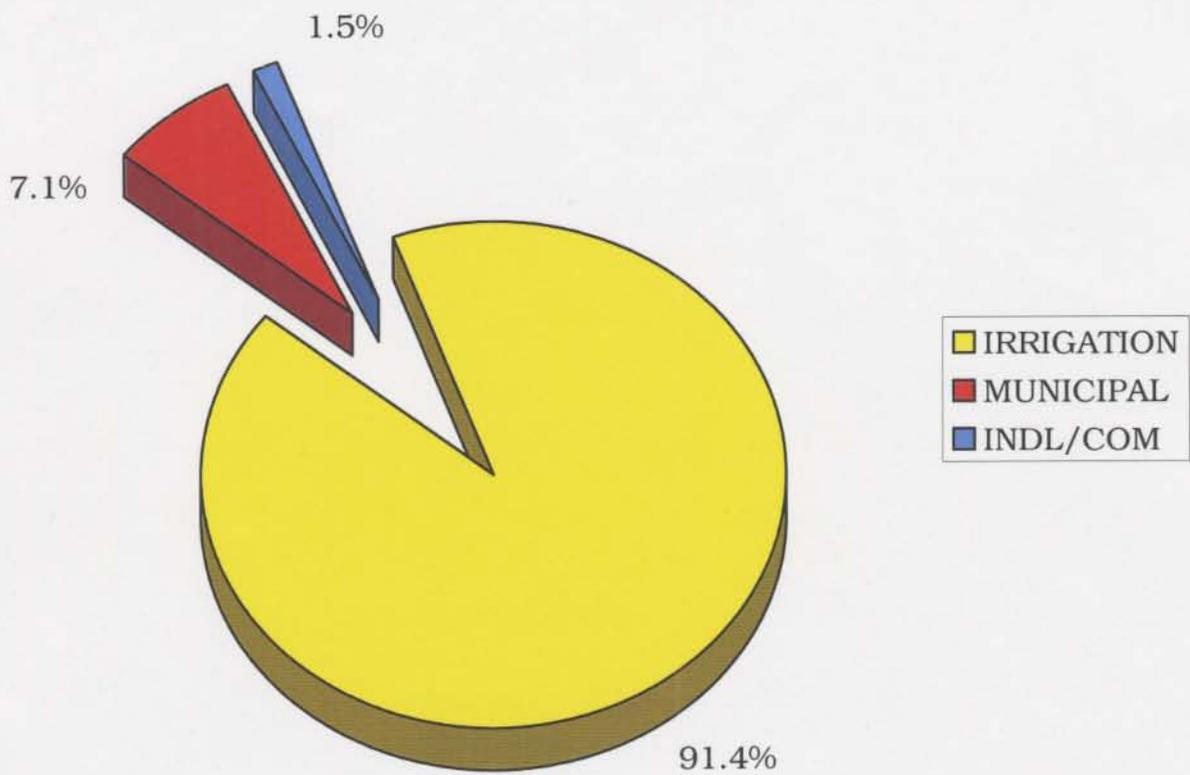
VIOLATIONS ACTIONS

There were two instances of overuse in 2005. Both water right owners entered into consent agreements that include monetary fines as well as double repayment of water.

ACCOUNTING PROCEDURE REVISION

Beginning in 1998 total diversion of water shown for commercial and industrial use and percentages there of, will be based on “actual” diversions. In the past, diversion amounts were multiplied by 1.43 or 1.67 where applicable; to compensate for carriage loss and/or lack of return flow were used. Although this is the amount charged against the water right it is not actual diversion amounts. This pertains to commercial or industrial operations that are farm connected.

PERCENT OF WATER USED IN 2005 FOR
IRRIGATION, MUNICIPAL, INDUSTRIAL & COMMERCIAL



USE OF WATER IN THE ROSWELL BASIN IN 2005

The total water diverted in the Roswell Ground Water Basin for the water year 2005 (November 1, 2004 – October 31, 2005) under the administrative jurisdiction of the Roswell Basin Water Master, was 309,914.76 acre-feet. Under the decree adjudicating water rights in the basin, discrete five-year periods were set-up for accounting of the metered water. The fourth year of the eighth five-year period was 2005.

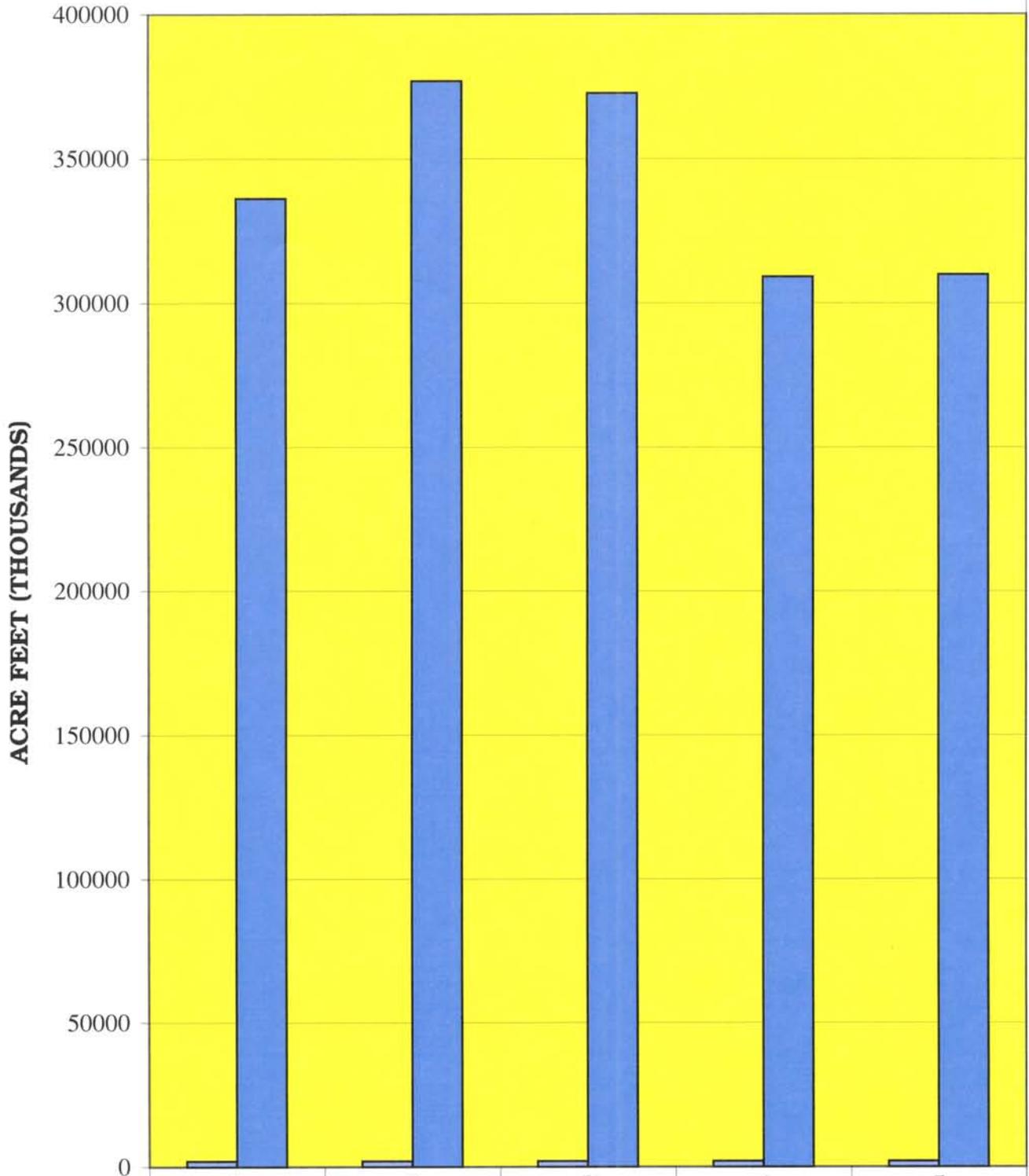
Of the total diversion, 218,452.29 acre-feet (70.5%) was from the Artesian source, 83,671.07 acre-feet (27.0%) was from the Shallow source and 7791.40 acre-feet (2.5%) was diverted from combined underground and surface sources primarily under the Hagerman Canal and the Rio Hondo.

Irrigation use accounted for 91.4% of the total diverted, Municipal type use accounted for 7.1% and Miscellaneous, Industrial and Commercial uses accounted for the remaining 1.5%.

The irrigation use on 114,209.79 equivalent water right acres (acres as originally adjudicated) permitted, an average diversion of 2.48 acre-feet per acre for the basin as a whole varying from a high of 2.66 acre-feet per acre in the Dexter - Hagerman area to a low of 0.94 acre-feet per acre in the Upper Rio Felix.

The equivalent acreage figures and diversion figures do not include un-metered stock and domestic uses or water right acreage retired from irrigation under the program of the PVACD. There are eight hundred and ninety three farming units.

FIVE YEAR COMPARISON OF TOTAL DIVERSION



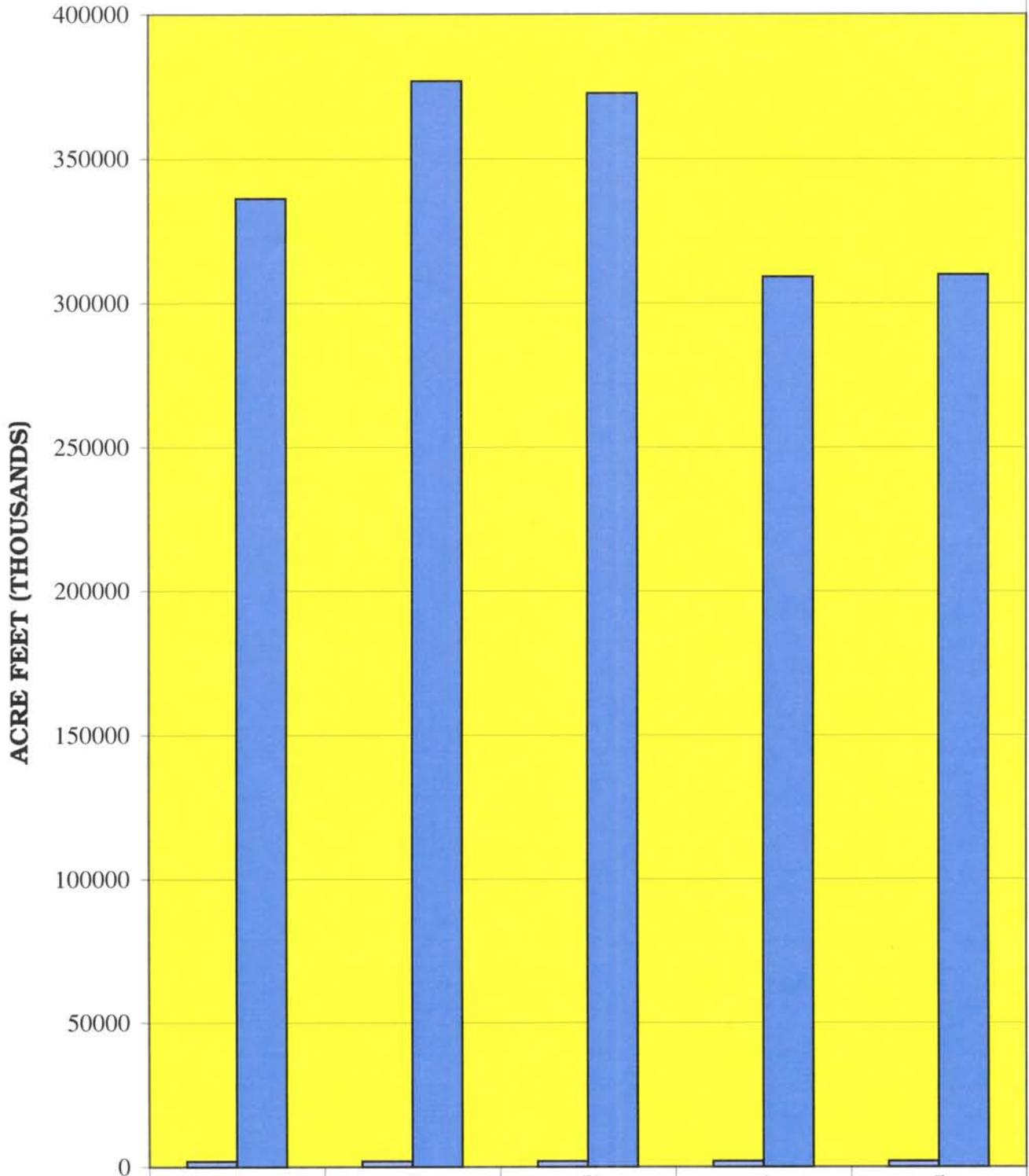
	1	2	3	4	5
Year	2001	2002	2003	2004	2005
Acre-Feet	336,239.89	376,885.82	372,686.76	309,082.01	309,914.76

TABULATION OF ANNUAL WATER DIVERSION

1967 TO PRESENT

YEAR	IRRIGATION	IRRIGATION	ACRE FEET	MUNICIPAL	INDL./COML.	TOTAL
	ACRE FEET	EQ. AC.	PER ACRE	ACRE FEET	ACRE-FEET	ACRE-FEET
1967	371,250.60	130,132.70	2.85	14,528.30	1,582.60	387,361.50
1968	323,917.10	128,245.00	2.53	13,596.30	1,611.10	339,124.50
1969	345,087.10	128,330.60	2.69	15,586.90	899.10	361,573.10
1970	358,686.80	126,002.40	2.85	15,888.50	916.30	375,491.60
1971	384,228.10	126,121.00	3.05	16,439.60	3,082.00	403,749.70
5-YEAR AVG.	356,633.94	127,766.34	2.79	15,207.92	1,618.22	373,460.08
1972	367,363.60	125,233.80	2.93	14,821.20	2,398.90	384,583.70
1973	386,288.80	125,293.00	3.08	15,335.00	2,983.00	404,606.80
1974	392,413.30	124,240.10	3.16	18,318.50	3,646.30	414,378.10
1975	368,512.60	123,740.70	2.98	16,145.90	3,083.90	387,742.40
1976	419,491.90	123,170.10	3.41	18,182.20	3,271.90	440,946.00
5-YEAR AVG.	386,814.04	124,335.54	3.11	16,560.56	3,076.80	406,451.40
1977	387,858.00	122,703.70	3.16	18,422.70	3,071.40	409,352.10
1978	359,011.00	122,233.70	2.94	15,569.70	3,270.70	377,851.40
1979	355,163.80	122,002.40	2.91	16,181.90	2,853.00	374,198.70
1980	360,484.40	121,763.30	2.96	17,804.30	2,388.60	380,677.30
1981	317,225.20	121,530.00	2.61	14,558.10	2,340.80	334,124.10
5-YEAR AVG.	355,948.48	122,046.62	2.92	16,507.34	2,784.90	375,240.72
1982	377,179.40	120,932.00	3.12	18,292.10	2,747.20	398,218.70
1983	356,836.00	120,277.70	2.97	19,312.30	2,818.30	378,966.60
1984	304,691.90	119,415.20	2.55	19,246.40	2,424.10	326,362.40
1985	293,465.10	119,333.30	2.46	17,494.40	2,863.70	313,823.20
1986	259,739.90	118,634.10	2.19	17,800.60	2,673.00	280,213.50
5-YEAR AVG.	318,382.46	119,718.46	2.66	18,429.16	2,705.26	339,516.88

FIVE YEAR COMPARISON OF TOTAL DIVERSION



	1	2	3	4	5
Year	2001	2002	2003	2004	2005
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1979	355,163.80	122,002.40	2.91	16,181.90	2,853.00	374,198.70
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1981	317,225.20	121,530.00	2.61	14,558.10	2,340.80	334,124.10
5-YEAR AVG.	355,948.48	122,046.62	2.92	16,507.34	2,784.90	375,240.72
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1983	356,836.00	120,277.70	2.97	19,312.30	2,818.30	378,966.60
1984	304,691.90	119,415.20	2.55	19,246.40	2,424.10	326,362.40
1985	293,465.10	119,333.30	2.46	17,494.40	2,863.70	313,823.20
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5-YEAR AVG.	318,382.46	119,718.46	2.66	18,429.16	2,705.26	339,516.88

TABULATION OF ANNUAL WATER DIVERSION (CONT.)

1967 TO PRESENT

YEAR	IRRIGATION ACRE FEET	IRRIGATION EQ. AC.	ACRE FEET PER ACRE	MUNICIPAL ACRE FEET	INDL./COML. ACRE-FEET	TOTAL ACRE-FEET
1987	285,389.60	118,324.90	2.41	15,775.50	2,892.50	304,057.60
1988	306,838.70	115,696.10	2.65	16,734.60	4,887.40	328,460.70
1989	364,436.70	115,088.00	3.17	17,771.40	4,566.50	386,774.60
1990	356,612.10	115,433.00	3.09	20,569.60	4,733.20	381,914.90
1991	314,893.30	115,378.30	2.73	18,887.10	9,768.90	343,549.30
5-YEAR AVG.	325,634.08	115,984.06	2.81	17,947.64	5,369.70	348,951.42
1992	305,168.40	115,510.40	2.64	17,765.70	4,389.80	327,323.90
1993	356,286.10	115,456.10	3.09	23,841.70	6,215.90	386,343.70
1994	352,106.70	114,402.90	3.08	21,024.60	7,060.00	380,191.30
1995	356,806.30	114,507.90	3.12	24,009.90	5,827.80	386,644.00
1996	345,278.53	113,481.60	3.04	22,245.70	5,781.10	373,305.33
5-YEAR AVG.	343,129.21	114,671.78	2.99	21,777.52	5,854.92	370,761.65
1997	346,681.00	113,568.02	3.05	21,076.10	5,316.80	373,073.90
1998	368,057.77	113,691.05	3.24	22,308.50	5,995.40	396,361.67
1999	317,652.73	113,686.18	2.79	20,275.90	5,765.18	343,693.81
2000	374,090.19	116,364.42	3.21	23,887.60	3,665.50	401,643.29
2001	310,134.69	113,497.67	2.73	22,315.80	3,789.40	336,239.89
5-YEAR AVG.	343,323.28	114,161.47	3.01	21,972.78	4,906.46	370,202.51
2002	348,596.69	113,325.27	3.08	22,815.18	5,473.95	376,885.82
2003	344,034.63	113,537.16	3.03	24,161.26	4,490.87	372,686.76
2004	282,067.23	114,493.28	2.46	21,631.54	5,383.24	309,082.01
2005	283,360.59	114,209.79	2.48	21,864.83	4,689.34	309,914.76
2006						
5-YEAR AVG.						

MUNICIPAL USE

FOR 2005

PUMPAGE IN ACRE-FEET				
MUNICIPAL & MUNICIPAL TYPE USE	SHALLOW	ARTESIAN	TOTAL	REMARKS
ROSWELL	0.00	13,075.81	13,075.81	
DEXTER	648.62	492.91	1,141.53	
HAGERMAN	0.00	664.73	664.73	
LAKE ARTHUR	7.70	105.80	113.50	
ARTESIA	0.00	4,036.18	4,036.18	
HOPE	0.00	45.91	45.91	
CO OPS	0.00	2,375.20	2,375.20	
DOMESTIC UTILITIES	74.30	253.01	327.31	
SCHOOL SYSTEMS	13.20	71.46	84.66	DEXTER & ROSWELL
TOTAL MUNICIPAL USE	743.82	21,121.01	21,864.83	

COMMERCIAL AND INDUSTRIAL USE

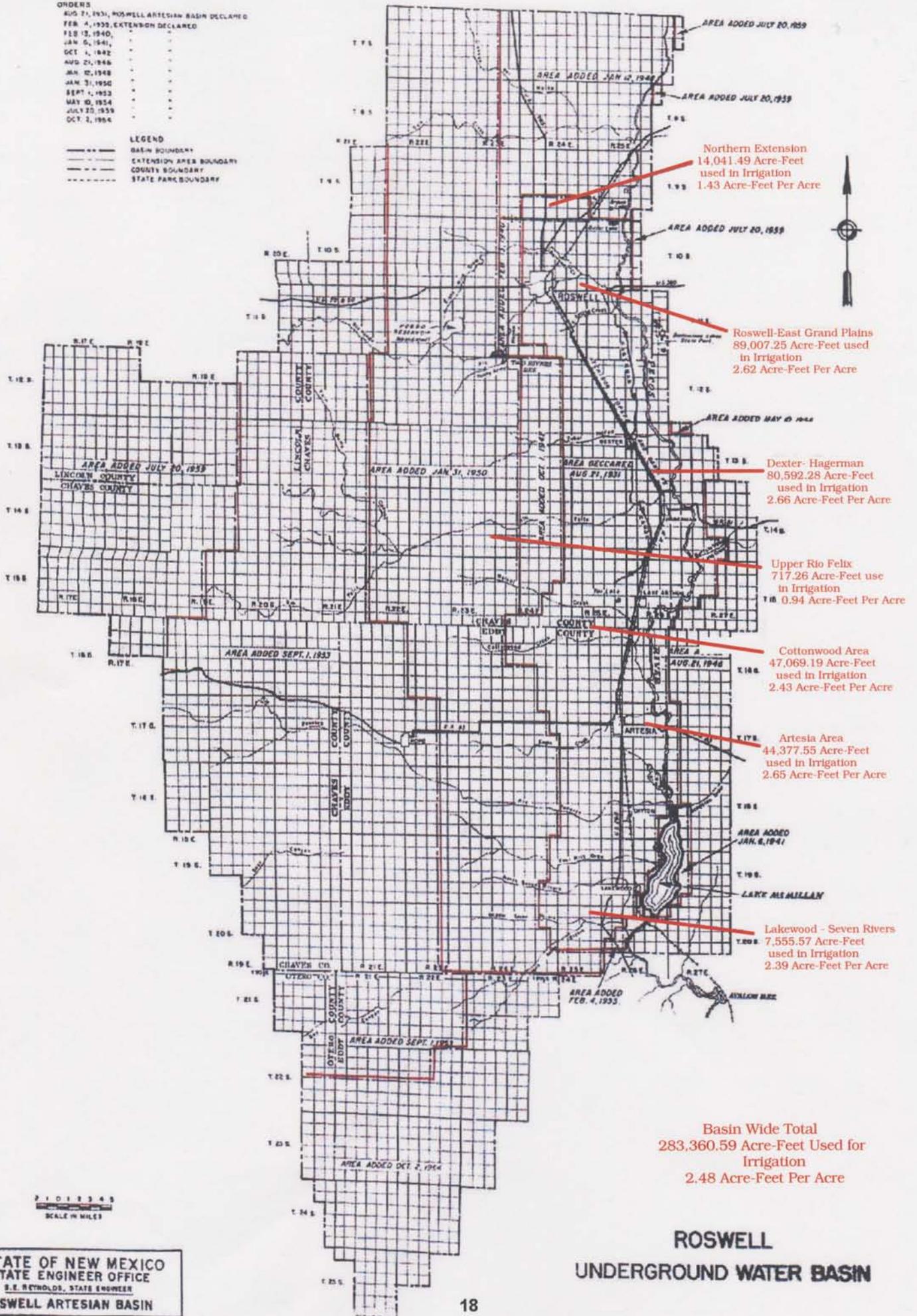
FOR 2005

COMMERCIAL DAIRY & FEED PEN USE	PUMPAGE IN ACRE FEET			REMARKS
	SHALLOW	ARTESIAN	TOTAL	
FEED PEN OPERATIONS (N. F. C.)	0.00	0.00	0.00	Not Farm Connected
FEED PEN OPERATIONS (F. C.)	1.05	0.00	1.05	Farm Connected
DAIRIES (F. C.) **	10,008.57	24,495.48	34,504.05	**Included in IRR. Total
DAIRIES (N. F. C.)	131.13	1,816.48	1,947.61	Not Included in IRR. Total
TOTALS	132.18	1,816.48	1,948.66	
MISC. INDUSTRIAL & COMMERCIAL	SHALLOW	ARTESIAN	TOTAL	
CHAVES COUNTY	1,733.98	184.70	1,918.68	
EDDY COUNTY	112.09	709.91	822.00	
TOTALS	1,846.07	894.61	2,740.68	
TOTAL ALL COML. & INDUST.	1,978.25	2,711.09	4,689.34	
TOTAL ALL MUNICIPAL (pg.16). COMMERCIAL AND INDUSTRIAL USE	2,722.07	23,832.10	26,554.17	** EXCLUDES FARM CONNECTED DAIRIES

ORDERS

- AUG 21, 1931, ROSWELL ARTESIAN BASIN DECLARED
- FEB 4, 1933, EXTENSION DECLARED
- FEB 12, 1940, " " " "
- JAN 5, 1941, " " " "
- OCT 1, 1942, " " " "
- APR 21, 1946, " " " "
- JAN 10, 1948, " " " "
- JAN 31, 1950, " " " "
- SEPT 1, 1953, " " " "
- MAY 10, 1954, " " " "
- JULY 20, 1959, " " " "
- OCT 2, 1964, " " " "

- LEGEND**
- BASIN BOUNDARY
 - EXTENSION AREA BOUNDARY
 - COUNTY BOUNDARY
 - STATE PARK BOUNDARY



1 2 3 4 5
SCALE IN MILES

STATE OF NEW MEXICO
STATE ENGINEER OFFICE
S.E. REYNOLDS, STATE ENGINEER
ROSWELL ARTESIAN BASIN

**ROSWELL
UNDERGROUND WATER BASIN**

2005

AREA BREAKDOWN

DESCRIPTION	ACRE-FEET	PUMPAGE IN ACRE-FEET				APP. RATE
		SURF	SHALLOW	ARTESIAN	TOTAL	
NORTHERN EXTENSION	29,471.17		0.00	14,041.49	14,041.49	1.43
ROSWELL - EAST GRAND PLAINS	102,001.10		22,494.63	66,512.62	89,007.25	2.62
DEXTER - HAGERMAN	91,025.35	7,791.40	27,114.55	45,686.33	80,592.28	2.66
HAGERMAN IRR. COMPANY	24,996.21		2,661.00	7,580.96	10,241.96	1.23
NON SUPPLEMENTAL CANAL USE		6,962.53			6,962.53	
COTTONWOOD AREA	58,210.01	0.00	13,626.04	33,443.15	47,069.19	2.43
UPPER RIO FELIX	2,280.39	0.00	0.00	717.26	717.26	0.94
ARTESIA AREA	50,172.34		15,107.03	29,270.52	44,377.55	2.65
LAKEWOOD - SEVEN RIVERS	9,469.00		2,606.75	4,948.82	7,555.57	2.39
TOTAL ALL AREAS (DOES NOT INCLUDE H.I.C.)	342,629.36	14,753.93	80,949.00	194,620.19	283,360.59	2.48

FY 2006 Roswell Water Master Operating Budget

Employees:

ANGELA MOLINAR
 DAVID THOMAS
 PHILLIP FIELDS
 ROBERT B. TODD
 JOHN L. STEWART

Object Code	Object Item	Amount
2031	Permanent Postion F/T	188,700.00
2111	Group Insurance	23,700.00
2121	Retirement	31,300.00
2131	FICA	14,400.00
2141	Workers Compensation	0.00
2171	Retiree Health Care Act	2,400.00
2191	Other Employee Benefits	100.00
	Salaries and Benefits:	260,600.00
3562	Reportable IT Services	1,300.00
	Contractual Services	1,300.00
4221	In-State Travel	200.00
4251	Gas & Oil	9,000.00
4281	State Transportation Pool	16,500.00
	In-State Travel	25,700.00
4321	Furniture Fixtures & Equipm	1,300.00
4382	IT Maintenance Rept	600.00
	Maintenance & Repair	1,900.00
4411	Office Supplies	700.00
4441	Field Supplies	1,300.00
4491	Inventory Exempt	700.00
	Supplies	2,700.00
4571	ISD Services	0.00
4592	Printing & Photographic (RP	100.00
4612	Postage & Mail Service	400.00
4642	Rent/Land & Buildings	17,900.00
4662	Telecommunications	2,000.00
4681	Employee Train & Education	100.00
		20,500.00
4831	Data Processing	4,200.00
		4,200.00
	Grand Total:	316,900.00

It is anticipated that the object code amounts may vary, but the total will not exceed the total amount for the fiscal year.

Dinah Sanchez
 Dinah Sanchez, Financial Manager
 Program Support

5/20/05

Date

ROSWELL BASIN WATERMASTER
EXPENDITURES FOR CALENDAR YEAR 2005
JANUARY - DECEMBER 2005

	JAN-JUNE 2005	JULY-DEC 2005	TOTAL
SALARIES	99,433.47	89,484.72	188,918.19
BENEFITS	36,781.86	35,451.29	72,233.15
TRAVEL	0.00	14.00	14.00
VEHICLE LEASES/GASOLINE	14,576.01	10,138.83	24,714.84
SUPPLIES OFFICE/FIELD/INVENTORY EXPEMPT	2,364.52	1,041.81	3,406.33
POSTAGE & MAIL/PRINTING	0.00	0.00	0.00
RENT - BLDGS.	7,512.14	10,441.69	17,953.83
TELECOMMUNICATIONS/MISC. (RPT)	1,228.17	929.65	2,157.82
DATA PROCESSING EQUIPMENT	2,232.00	0.00	2,232.00
TRAINING	0.00	0.00	0.00
TOTAL EXPENDITURES	<u>164,128.17</u>	<u>147,501.99</u>	<u>311,630.16</u>

SUMMARY

Metered use of water during 2005 resulted in an average use, for irrigation purposes, of 2.48 acre-feet per water right acre. The total quantity diverted for all uses was the thirty- sixth highest since metering began in 1967.

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