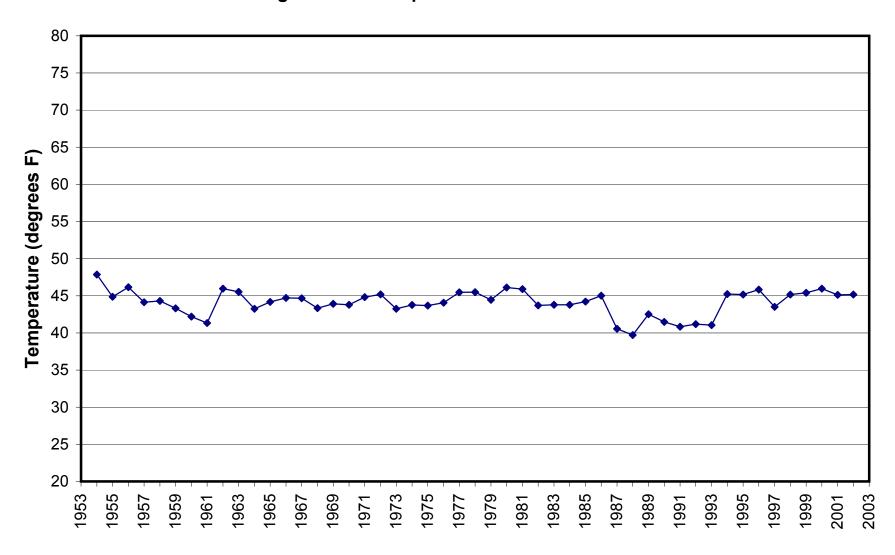
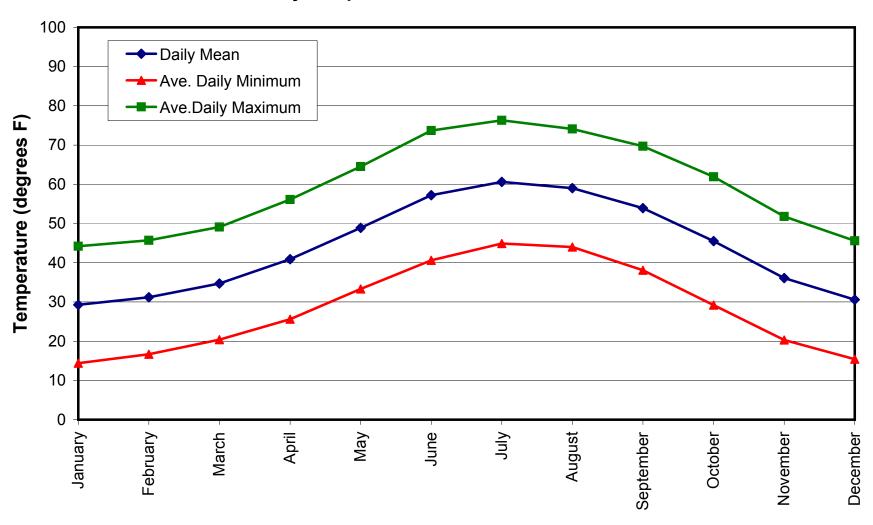
Appendix E Hydrologic Information

Appendix E1
Climate Statistics

GasconAverage Annual Temperatures for Period of Record

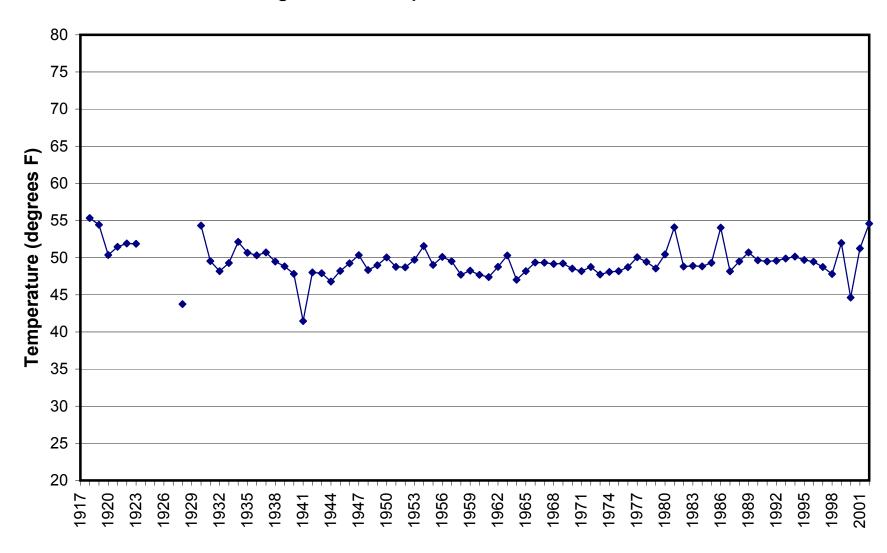


GasconMonthly Temperature Statistics for Period of Record

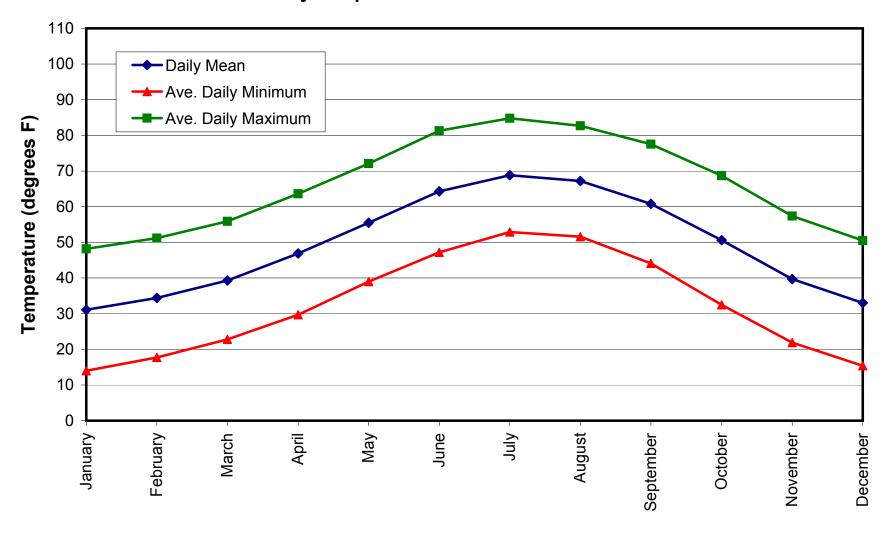


Valmora

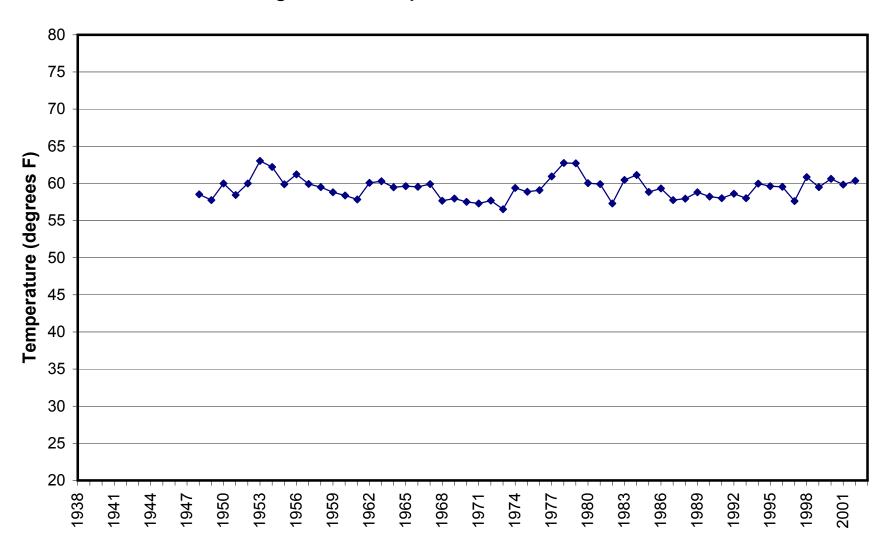
Average Annual Temperatures for Period of Record



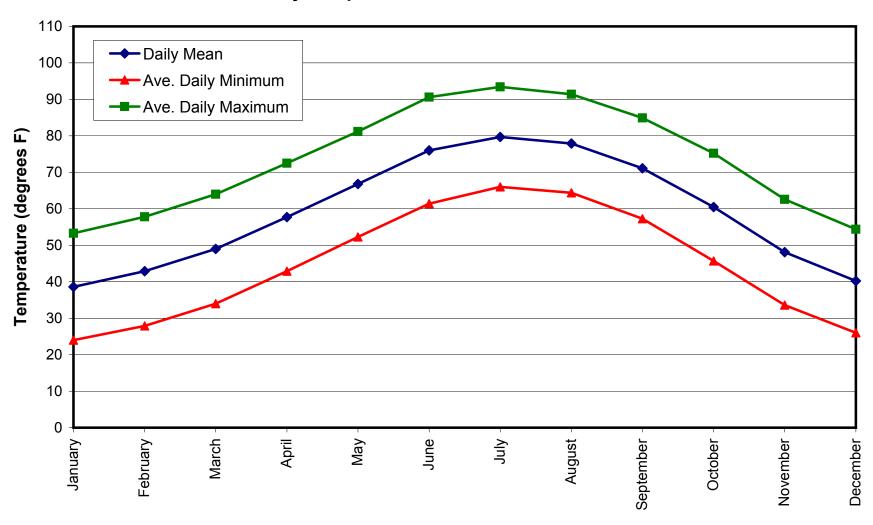
ValmoraMonthly Temperature Statistics for Period of Record



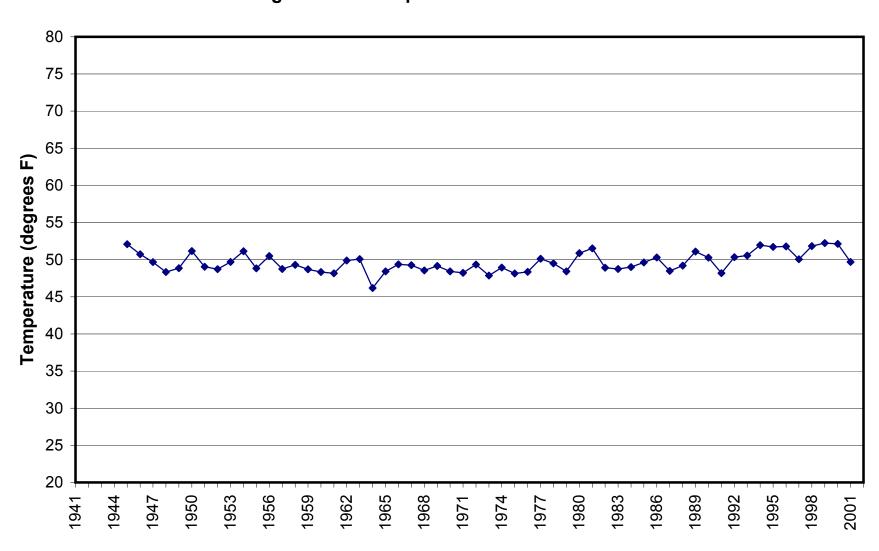
Conchas Dam
Average Annual Temperatures for Period of Record



Conchas DamMonthly Temperature Statistics for Period of Record

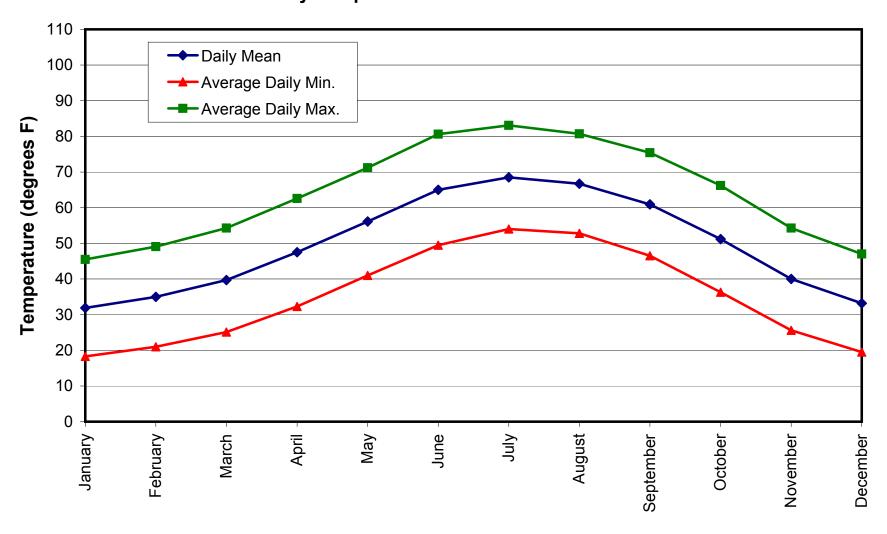


Las Vegas Airport Average Annual Temperatures for Period of Record



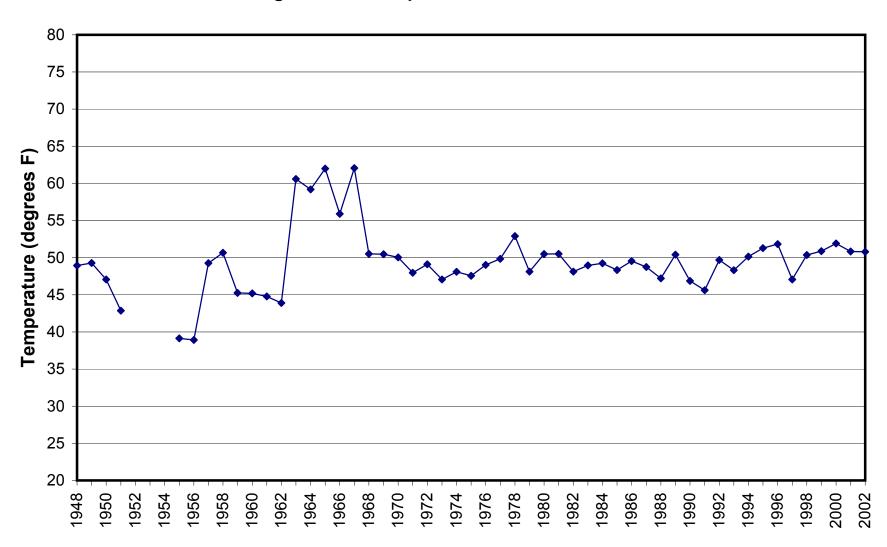
Las Vegas Airport

Monthly Temperature Statistics for Period of Record



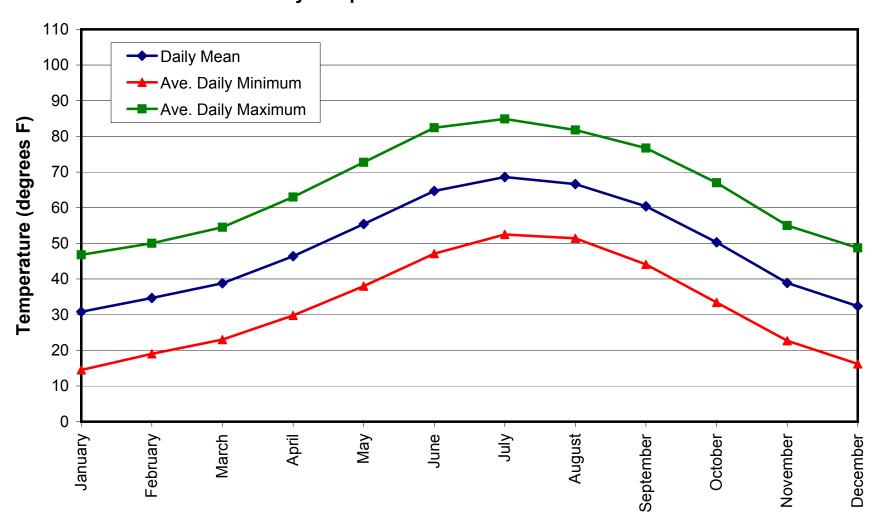
Pecos Ranger Station

Average Annual Temperatures for Period of Record

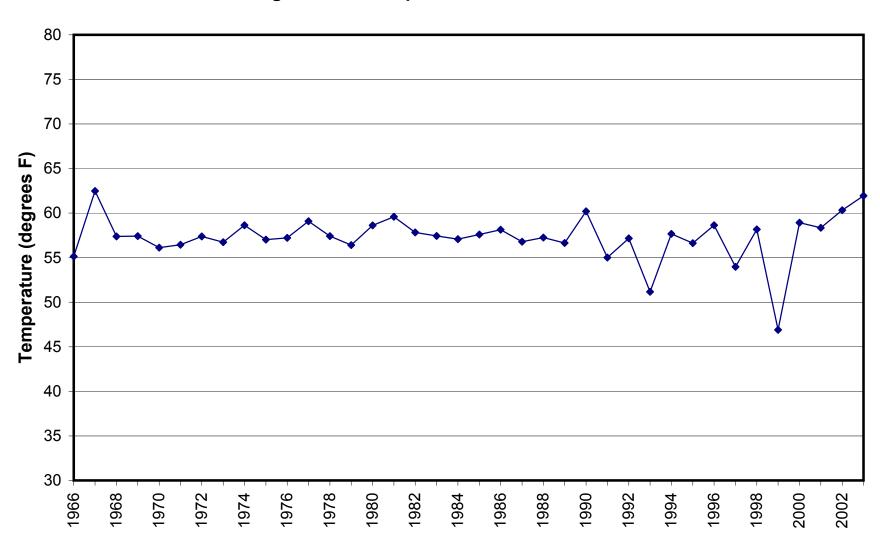


Pecos Ranger Station

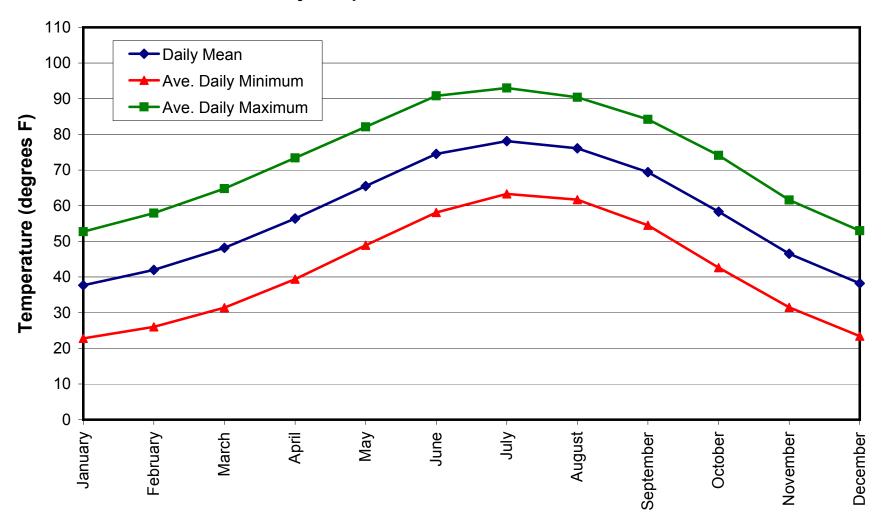
Monthly Temperature Statistics for Period of Record



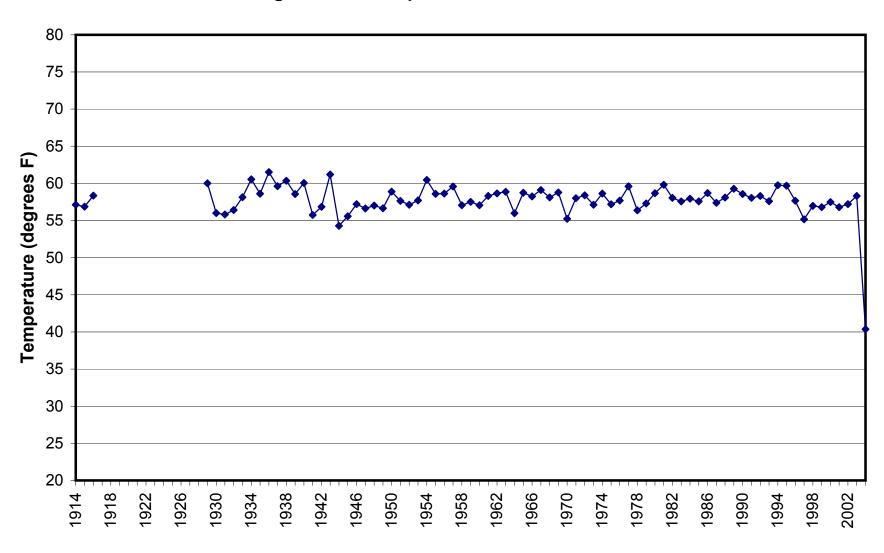
NewkirkAverage Annual Temperatures for Period of Record



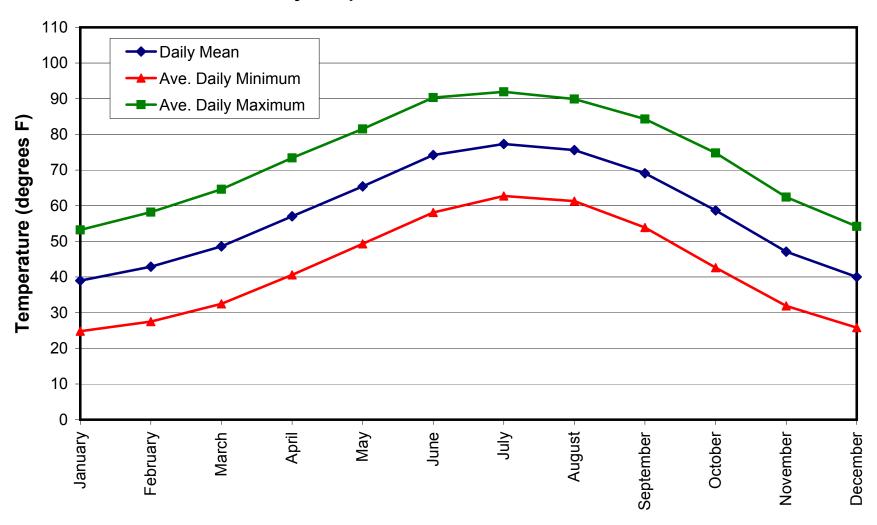
NewkirkMonthly Temperature Statistics for Period of Record



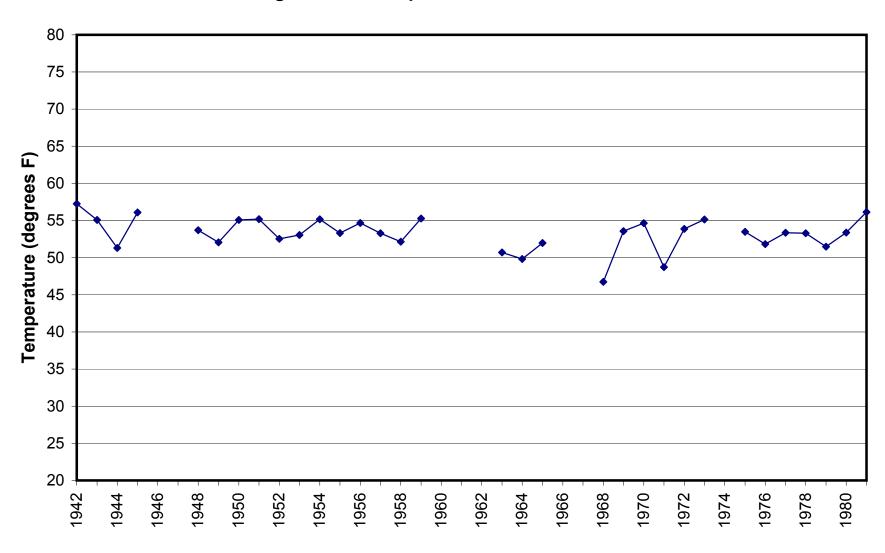
Santa Rosa
Average Annual Temperatures for Period of Record



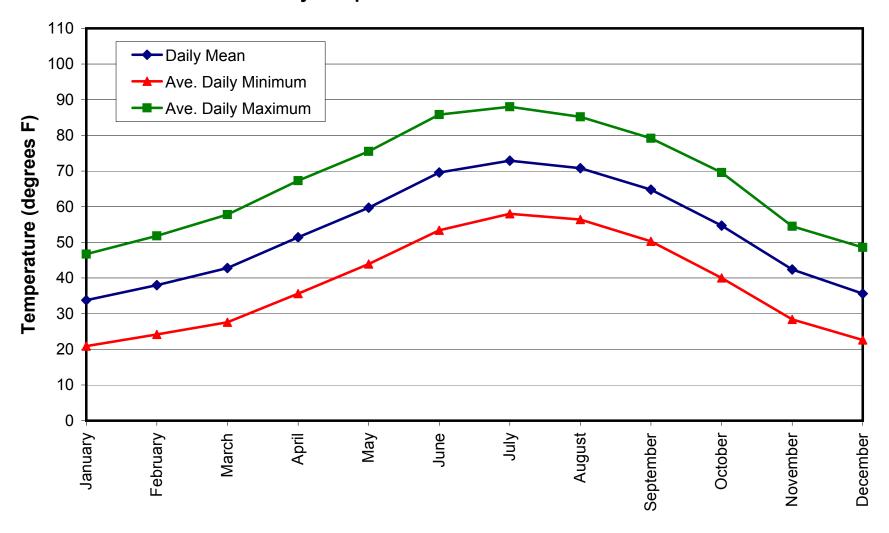
Santa Rosa
Monthly Temperature Statistics for Period of Record



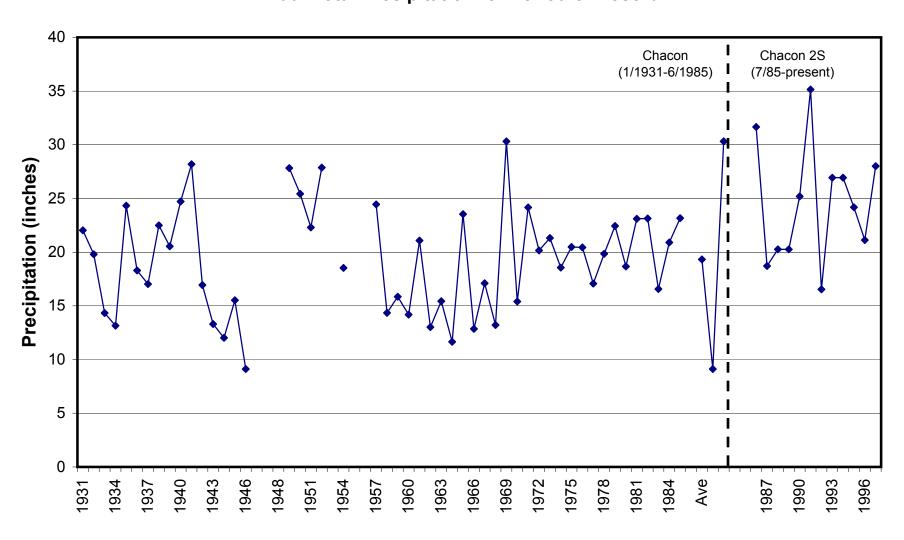
Vaughn
Average Annual Temperatures for Period of Record



VaughnMonthly Temperature Statistics for Period of Record

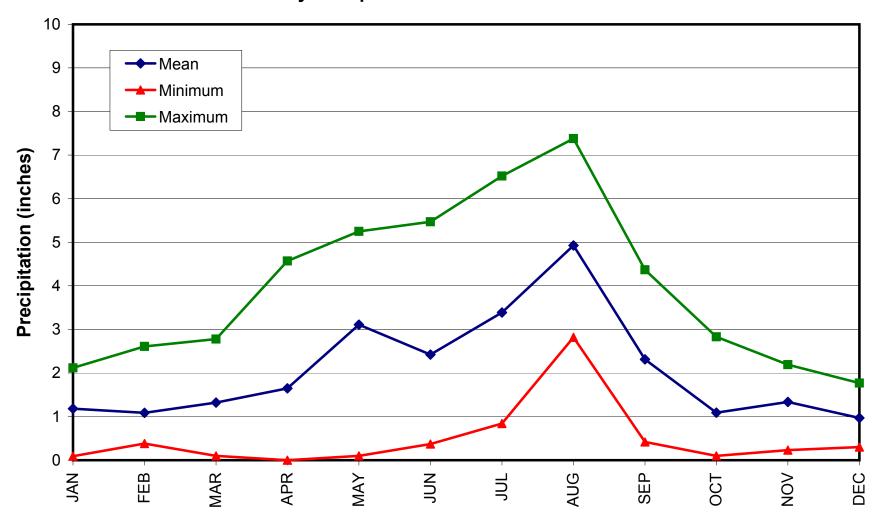


Chacon/Chacon 2S
Annual Total Precipitation for Period of Record

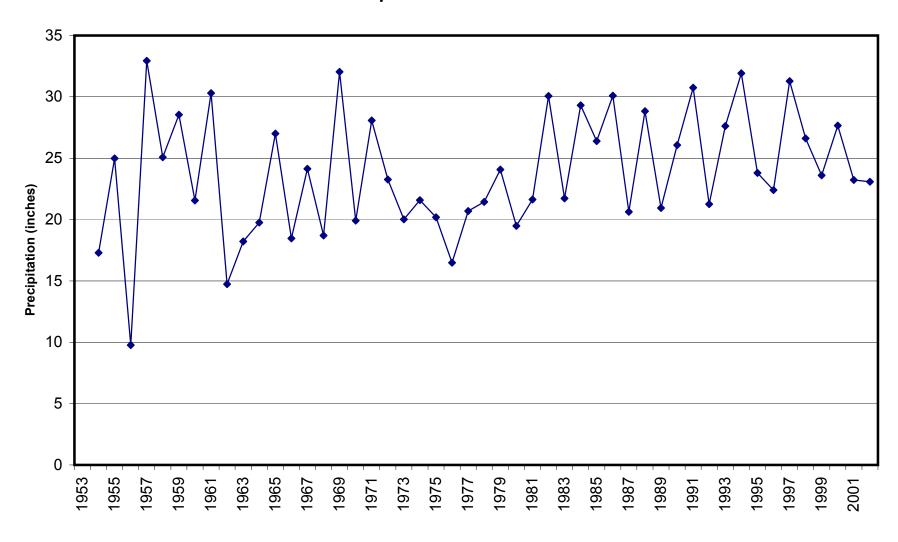


Chacon/Chacon 2S

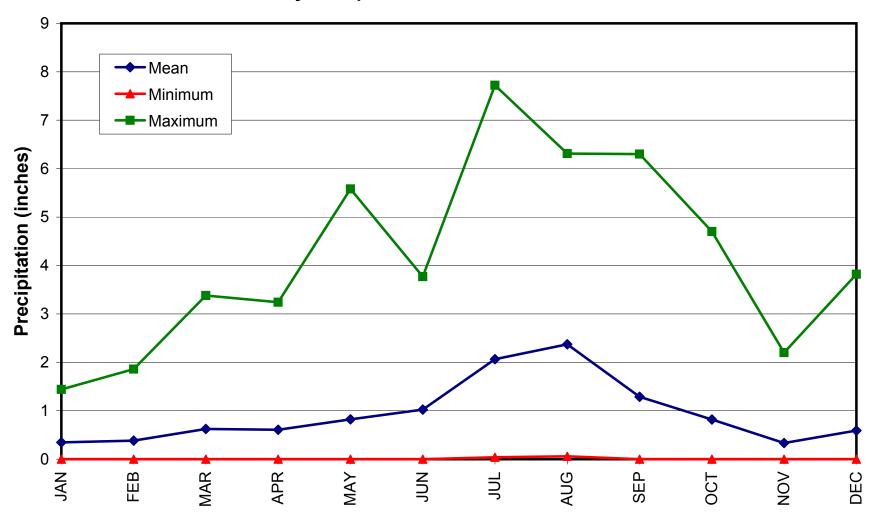
Monthly Precipitation Statistics for Period of Record



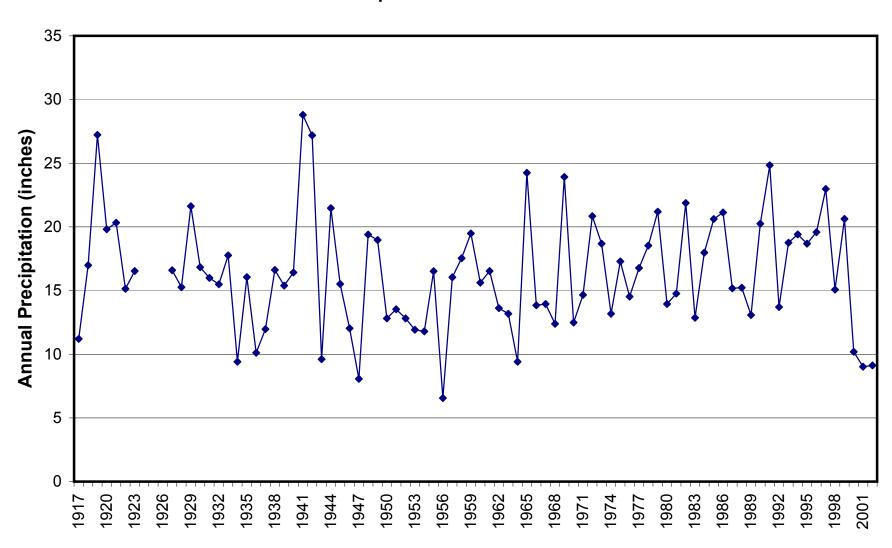
GasconAnnual Precipitation for Period of Record



Gascon Monthly Precipitation Statistics for Period of Record

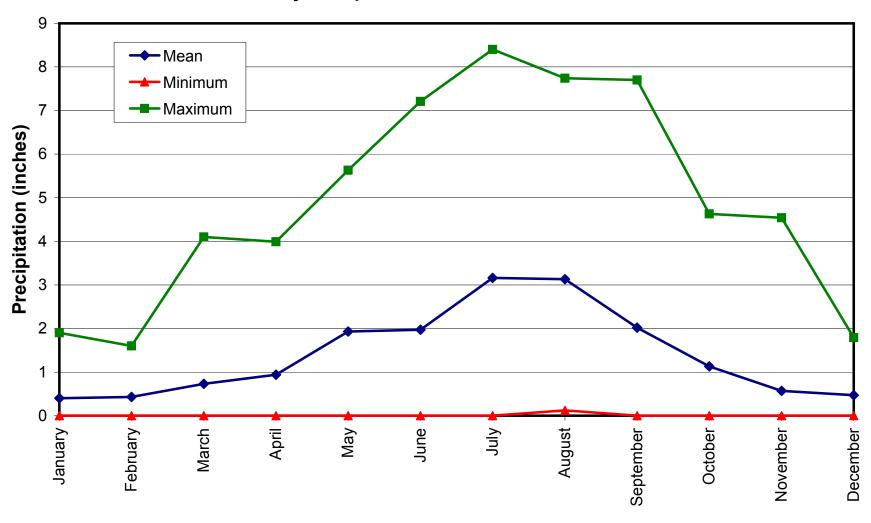


Valmora
Annual Precipitation for Period of Record



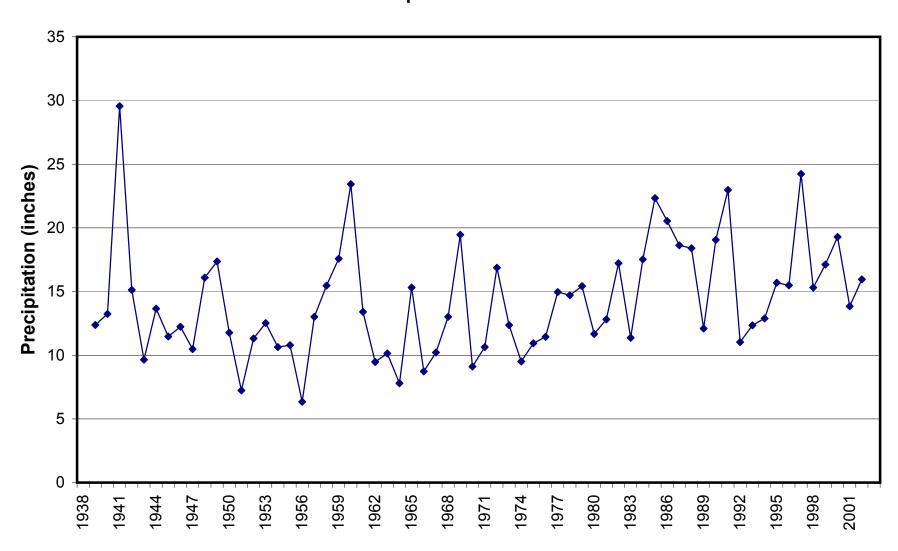
Valmora

Monthly Precipitation Statistics for Period of Record

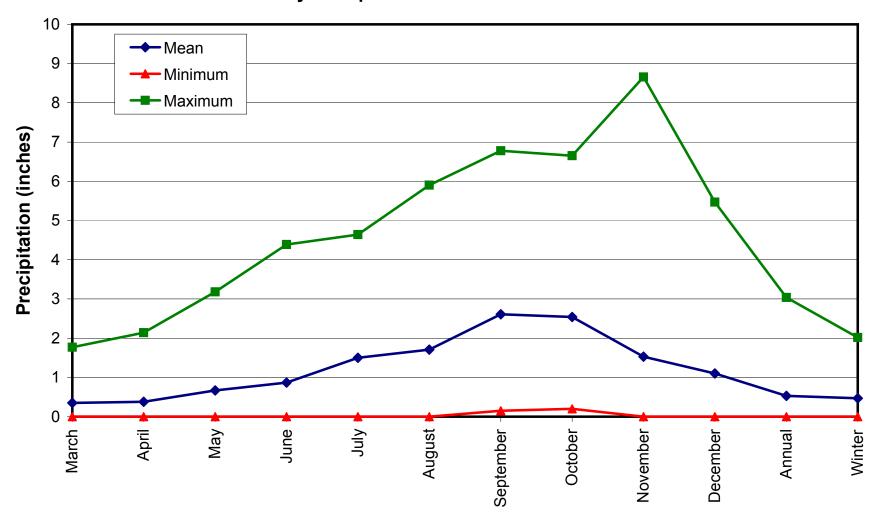


Conchas Dam

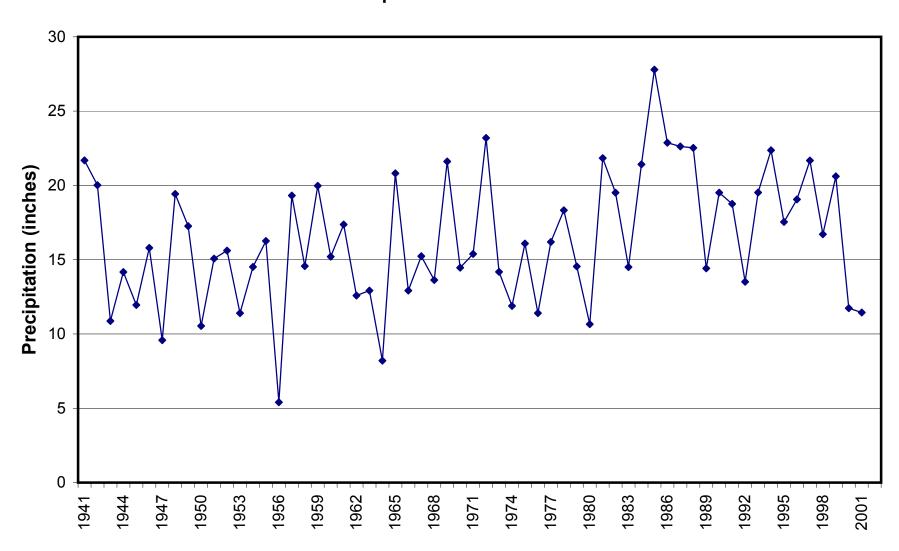
Annual Total Precipitation for Period of Record



Conchas DamMonthly Precipitation Statistics for Period of Record

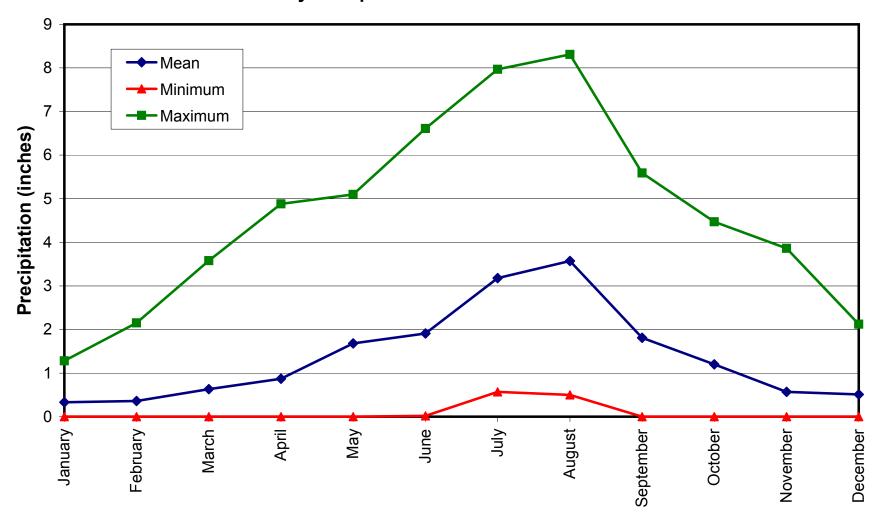


Las Vegas Airport Annual Precipitation for Period of Record

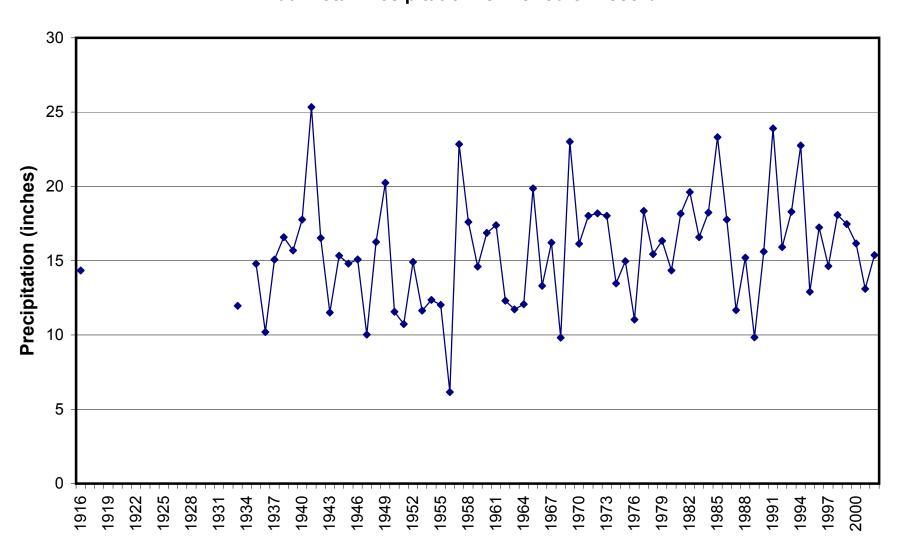


Las Vegas Airport

Monthly Precipitation Statistics for Period of Record

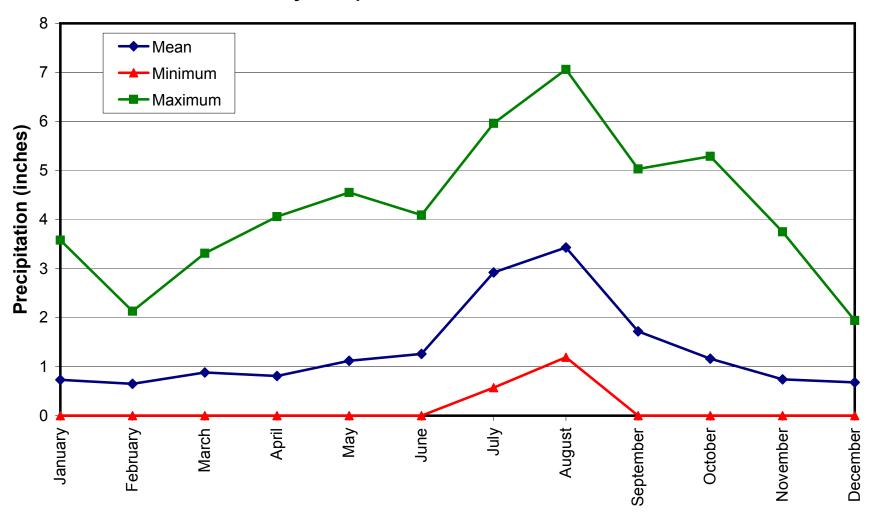


Pecos Ranger Station Annual Total Precipitation for Period of Record

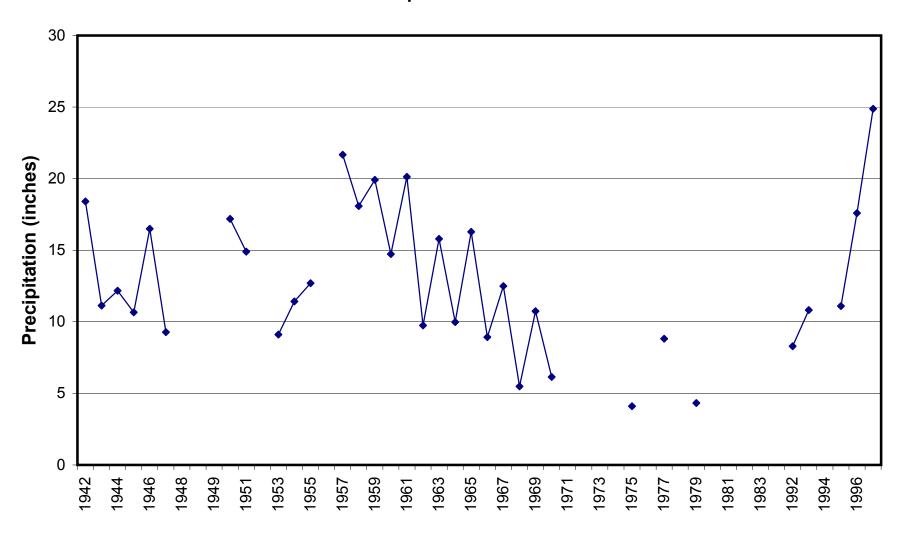


Pecos Ranger Station

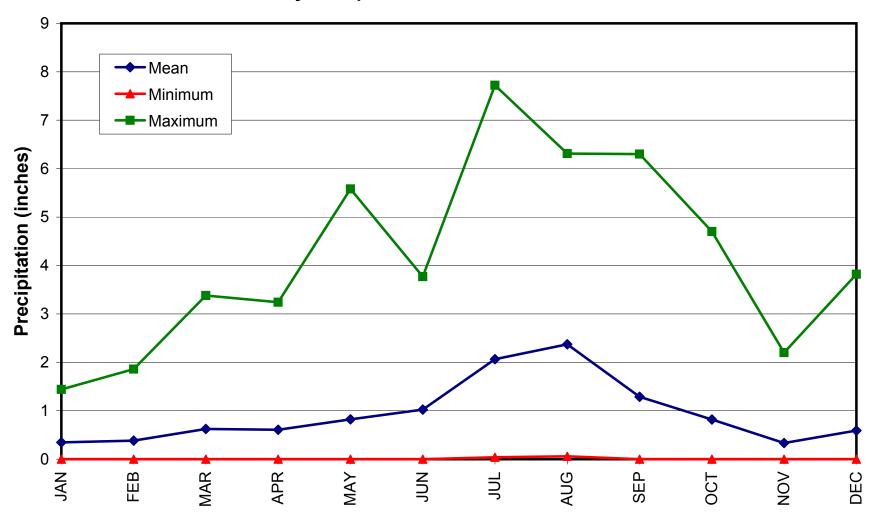
Monthly Precipitation Statistics for Period of Record



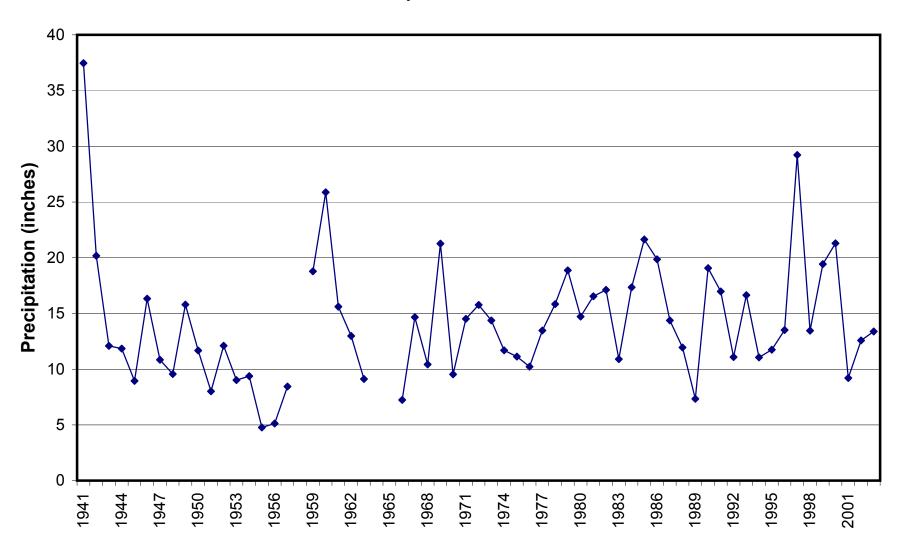
VillanuevaAnnual Total Precipitation for Period of Record



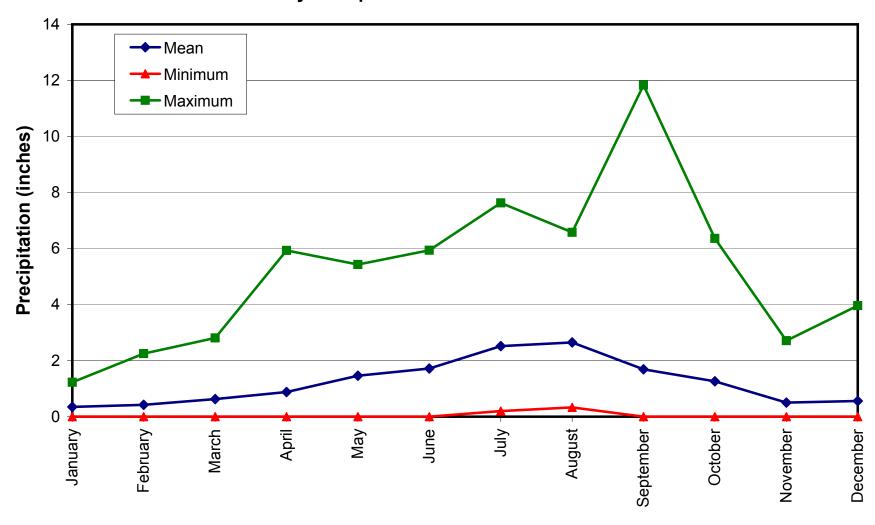
VillanuevaMonthly Precipitation Statistics for Period of Record



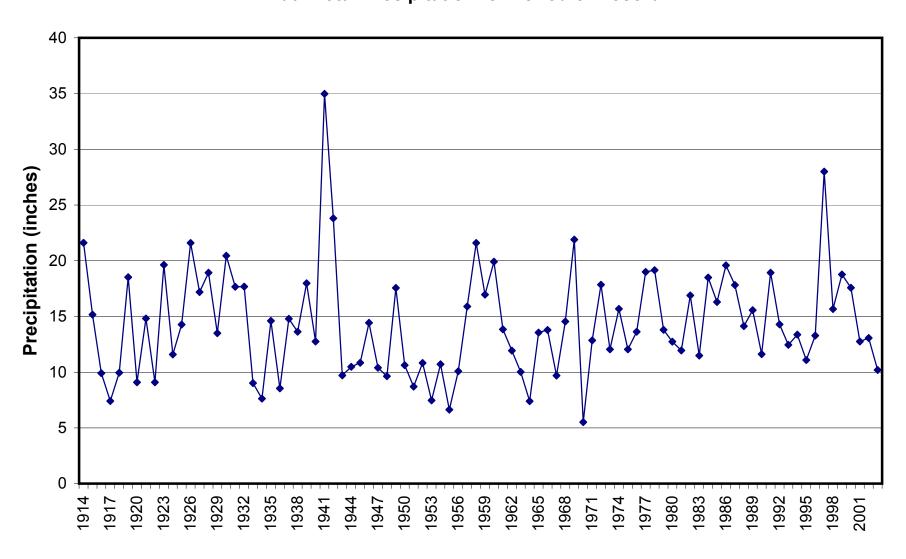
NewkirkAnnual Total Precipitation for Period of Record



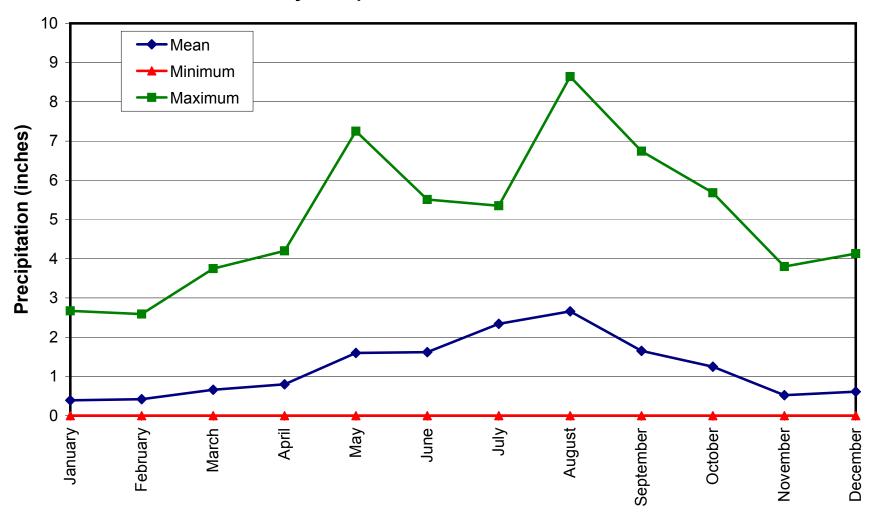
NewkirkMonthly Precipitation Statistics for Period of Record



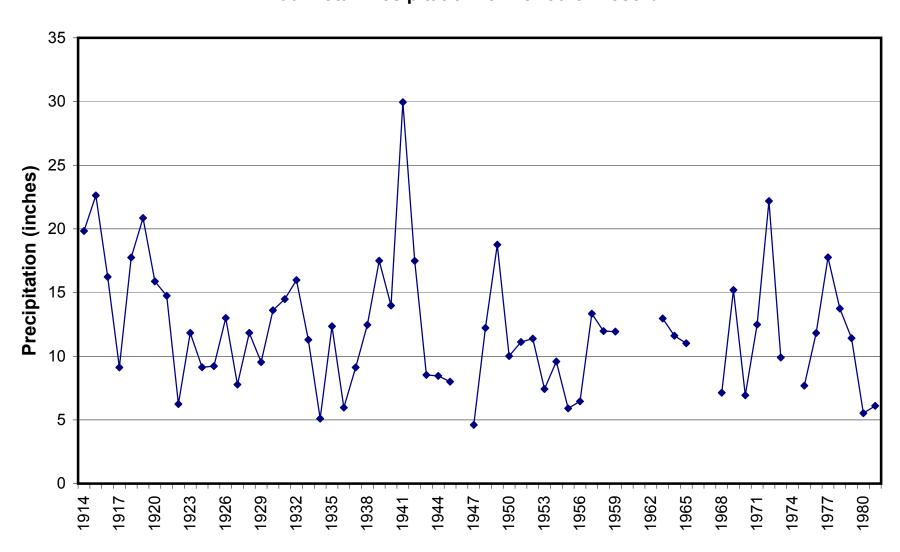
Santa Rosa
Annual Total Precipitation for Period of Record



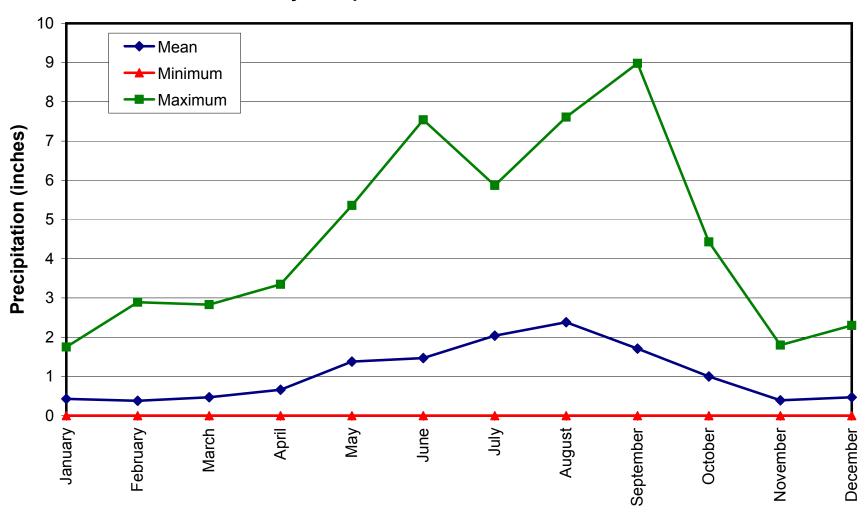
Santa Rosa
Monthly Precipitation Statistics for Period of Record



Vaughn
Annual Total Precipitation for Period of Record

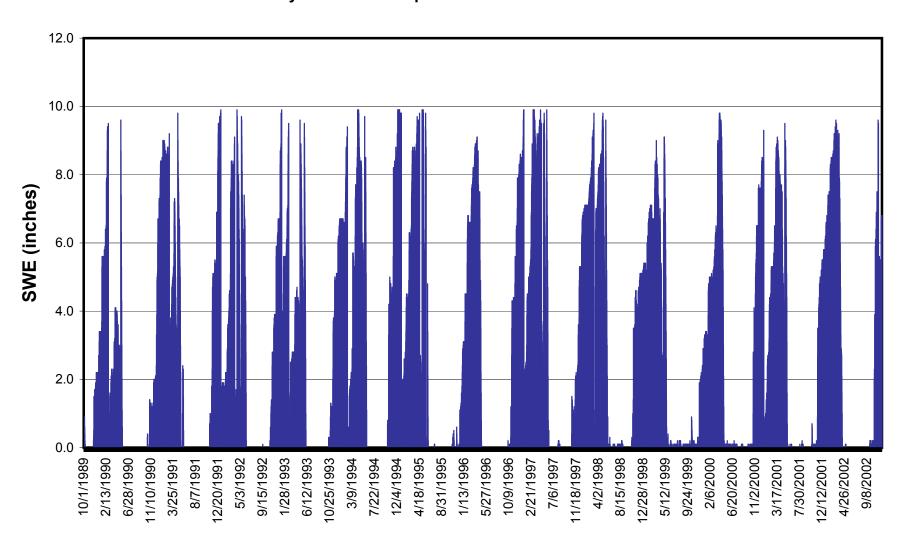


Vaughn
Monthly Precipitation Statistics for Period of Record



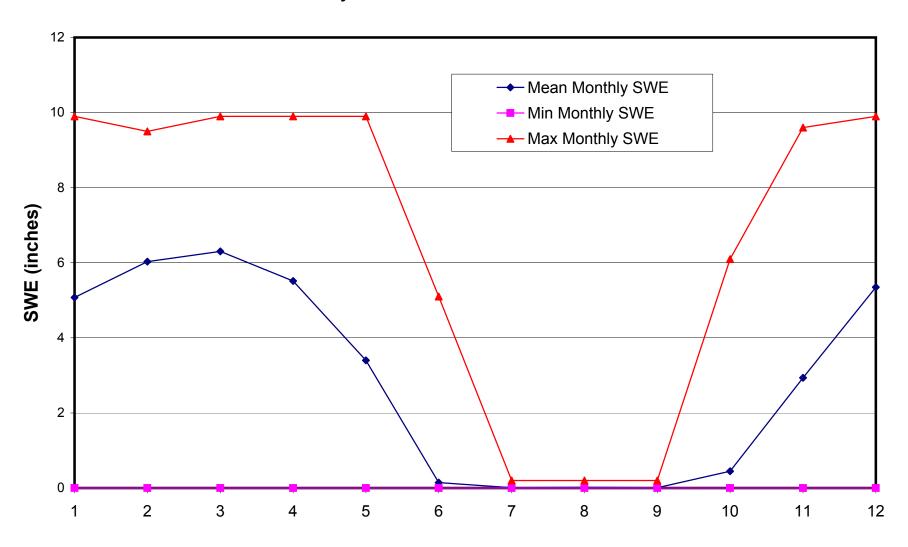
Wesner Springs SNOTEL Station

Daily Snow Water Equivalents for Period of Record



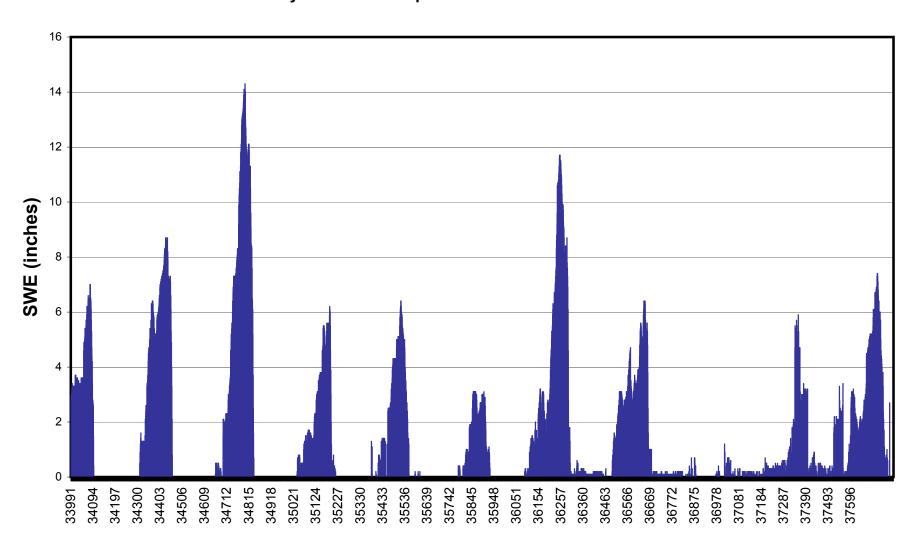
Wesner Springs SNOTEL Station

Monthly SWE Statistics for Period of Record



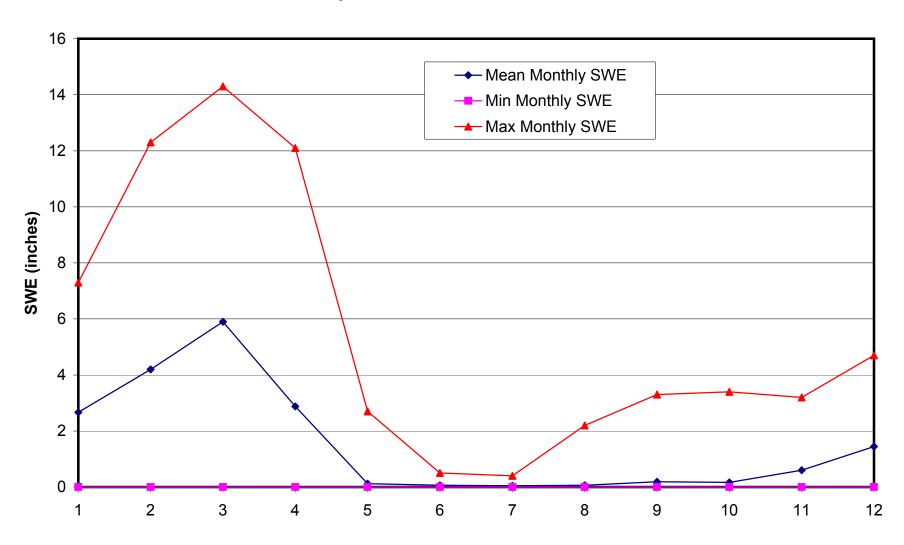
Panchuela SNOTEL Station

Daily Snow Water Equivalents for Period of Record



Panchuela SNOTEL Station

Monthly SWE Statistics for Period of Record



Appendix E2
Streamflow Data

Table E2-1. USGS Streamgage Information for Mora-San Miguel-Guadalupe Water Planning Region

		ition							T		
USGS Site Name	USGS Site	Latitude	Longitude	Elevation	Drainage Area (sq. mi.)	Drainage Area (acres)	Irrigated Land Upstream of Gage (acres)	Type of Record	Start Date	End Date	Number of Missing Days for Daily Streamflow
	Number										
Mora County, New Mexico	,	•	1			•	1		1		
Canadian River near Roy Mora River near Holman Vigil Canyon near Holman	07214000	35 55 10	104 21 10	4,892.55	3,959	2,533,760	NA	peak streamflow	6/12/1936	6/18/1965	
								daily streamflow	4/1/1936	9/30/1965	0
	07214500	36 06 37	105 22 33	7,845	57	36,480	NA	peak streamflow	5/28/1953	8/4/1973	•
	07014600	26.02.50	105 04 10	7,840	2.8	1,792	NA	daily streamflow	1/1/1953 8/5/1957	1/14/1974 5/11/1963	0
	07214600	36 02 50	105 24 10	7,040	2.0	1,792	INA	peak streamflow daily streamflow	10/1/1956	9/30/1963	0
Agua Fria Creek near Holman	07214700	36 01 25	105 24 35	7,850	9.2	5,888	NA	peak streamflow	8/3/1957	8/8/1981	U
	07214700	30 01 23	103 24 33	7,000	9.2	3,000	INA	daily streamflow	10/1/1956	9/30/1963	0
Rio la Casa near Cleveland	07214800	35 58 27	105 23 19	7,635	23	14,720	NA	peak streamflow	8/5/1957	7/22/1970	•
	07214000	00 00 27	103 23 13	7,000	20	14,720	ING	daily streamflow	6/1/1956	9/30/1970	0
La Cueva Canal below La Cueva	07215100	35 56 44	105 15 19	NA	NA	NA	NA	daily streamflow	5/1/1906	12/31/1971	16408
Mora River at La Cueva	07215500	35 56 27	105 14 59	7000	173	110,720	7,000	peak streamflow	5/2/1931	4/30/1999	
						- 7	,	daily streamflow	5/1/1906	9/30/2002	7213
								water quality samples	2/23/1981	8/16/1995	
Rito Cebolla near Golondrinas	07215600	35 53 15	105 13 45	6,890	64	40,960	NA	peak streamflow	8/4/1957	6/15/1965	
								daily streamflow	10/1/1956	9/30/1963	0
Mora River near Golondrinas	07216500	35 53 27	105 09 47	6,750	267	170,880	12,000	peak streamflow	8/1/1916	4/30/1999	
								daily streamflow	4/1/1915	9/30/2002	2532
								water quality samples	11/12/1980	1/30/1981	
Coyote Creek above Guadalupita	07217100	36 09 51	105 13 49	7,605	71	45,440	NA	peak streamflow	5/11/1957	5/14/1973	
								daily streamflow	6/1/1956	1/7/1974	0
Coyote Creek near Golondrinas	07218000	36 09 51	105 13 49	6,785	215	137,600	4,000	peak streamflow	9/22/1929	8/6/1999	
								daily streamflow	10/1/1929	9/30/2002	0
								water quality samples	7/22/1975	7/22/1975	
Mora River near Watrous	07218100	35 50 05	105 02 22	6,480	521	333,440	17,000	peak streamflow	8/4/1957	6/15/1965	
								daily streamflow	10/1/1956	9/30/1963	0
Dog Creek near Shoemaker	07220900	35 49 32	104 53 28	6,300	18.4	11,776	NA	peak streamflow	8/24/1954	6/19/1995	
Mora River near Shoemaker	07221000	35 48 01	104 46 58	6,145	1,033	661,120	26,000	peak streamflow	4/16/1915	7/11/1996	
								daily streamflow	10/1/1919	9/30/1996	973
2 45 12 1 11 11		l						water quality samples	10/27/1966	6/19/1969	
San Miguel County, New Mexico	07040700	05.40.00	405.00.55	7.050	50	22.200	NIA		0/00/4057	0/45/4005	
Manuelitas Creek near Rocianda	07218700	35 49 30	105 23 55	7,350	52	33,280	NA	peak streamflow	8/23/1957	6/15/1965 9/30/1963	0
Sapello River at Sapello	07220000	25 46 11	105 15 05	6,910	132	84,480	NA	daily streamflow peak streamflow	10/1/1956 8/4/1957	4/14/1973	U
	07220000	35 46 11	105 15 05	0,910	132	04,400	INA	daily streamflow	1/1/1917	12/31/1973	13880
	07220100	35 44 42	105 09 25	6,790	NA	NA	NA	daily streamflow	10/1/1964	6/30/1975	53
Lake Isabel Canal near Sapello Sapello River near Watrous Canadian River near Sanchez	07220600	35 46 05	105 09 25	6,500	213	136,320	NA NA	peak streamflow	8/5/1957	6/15/1965	33
	07220000	33 40 03	100 02 20	0,500	210	130,320	INA	daily streamflow	10/1/1956	9/30/1963	0
	07221500	35 39 08	104 22 39	4,495	5,712	3,655,680	56,000	peak streamflow	6/12/1913	5/1/1999	0
	01221000	00 00 00	104 EE 00	1,100	0,1.12	0,000,000	00,000	daily streamflow	10/1/1912	9/30/2002	7853
								water quality samples	9/14/1966	1/23/1997	
Lararita Creek Trib near Sanchez	07221600	35 38 21	104 24 57	4,605	1	640	NA	peak streamflow	5/10/1972	7/25/1996	
Canadian River near Bell Ranch	07222000	35 30 00	104 15 00	4,130	5,900	3,776,000	NA	peak streamflow	8/31/1916	10/9/1938	
								daily streamflow	10/1/1929	6/30/1939	1000
Trementinia Creek at Trementina	07222300	35 28 00	104 25 00	4,580	65	41,600	NA	peak streamflow	8/24/1959	4/30/1999	
Conchas River at Variadero	07222500	35 24 10	104 26 35	4,430	393	251,520	300	peak streamflow	6/3/1937	7/10/1996	
								daily streamflow	10/1/1936	9/30/1996	0
Garita Creek Trib near Variadero	07222800	35 20 10	104 21 50	4,290	12	7,680	NA	peak streamflow	7/27/1971	8/30/1995	
Bell Ranch Canal below Conchas Dam	07223000	35 24 10	104 11 07	4,150	NA	NA	NA	daily streamflow	10/1/1970	10/11/1984	841
								water quality samples	4/15/1963	8/3/1964	
Conchas Canal below Conchas Dam	07223300	35 22 35	104 10 03	4,157	NA	NA	NA	daily streamflow	10/1/1970	9/30/1992	5178
								water quality samples	8/22/1908	6/30/1977	
Canadian River below Conchas Dam	07224500	35 24 32	104 10 10	4,022	6,984	4,469,760	NA	peak streamflow	7/12/1936	8/31/1972	
								daily streamflow	5/1/1936	9/30/1972	1096
								water quality samples	4/15/1963	8/3/1964	

P:_Wr02-036\RegWtrPin.2-05\AppxE\E2:\TE2:1_M-SM gaging stations.xls

Table E2-1. USGS Streamgage Information for Mora-San Miguel-Guadalupe Water Planning Region

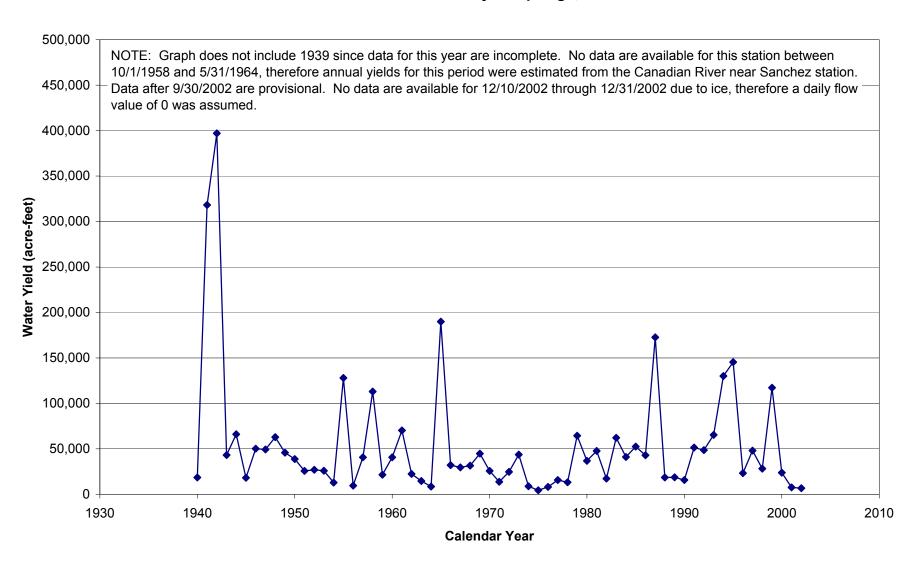
	Location									T	
USGS Site Name	USGS Site Number	Latitude	Longitude	Elevation	Drainage Area (sq. mi.)	Drainage Area (acres)	Irrigated Land Upstream of Gage (acres)	Type of Record	Start Date	End Date	Number of Missing Days for Daily Streamflow
Rio Mora near Terrero	08377900	35 46 38	105 39 27	7,890	53.2	34,048	0	peak streamflow	5/22/1964	5/24/1999	
				,		,		daily streamflow	10/1/1963	9/30/2002	0
								water quality samples	11/6/1962	9/11/2002	
Pecos River near Cowles	08378000	35 45 08	105 40 30	7,720	160	102,400	NA	peak streamflow	7/16/1911	5/23/1919	
Pecos River near Pecos	08378500	35 42 30	105 40 55	7,502	189	120,960	75	peak streamflow	5/24/1920	5/24/1999	
								daily streamflow	10/1/1919	9/30/2002	2707
								water quality samples	5/15/1963	9/9/1973	
Tecolote Creek at Wright Canyon, near El Porvenir	08379178	35 41 20	105 28 49	NA	NA	NA	0	daily streamflow	4/1/1989	9/25/1990	386
								water quality samples	5/1/1980	9/26/1990	
Wright Canyon at Mile 0.55, near El Porvenir	08379185	35 41 44	105 28 45	NA	NA	NA	NA	daily streamflow	6/1/1989	8/31/1990	424
								water quality samples	5/1/1987	7/19/1991	
Tecolote Creek below Wright Canyon, near El Porvenir	08379187	35 40 19	105 27 58	NA	NA	NA	0	daily streamflow	4/27/1989	9/30/1992	496
The state of the s								water quality samples	5/24/1900	10/8/1992	
Tecolote Creek near San Pablo	08379200	35 33 10	105 22 10	6,674	83	53,120	NA	peak streamflow	8/17/1961	7/31/1965	
				- /-				daily streamflow	10/1/1960	9/30/1965	0
Tecolote Creek at Tecolote	08379300	35 27 20	105 16 55	6,240	122	78,080	NA	peak streamflow	6/30/1954	8/2/1999	
Canon Blanco near Leyba	08379550	35 13 14	105 40 12	6,659	11.2	7,168	NA	peak streamflow	7/19/1971	9/9/1983	
Pecos River Tributary near Dilia	08379600	35 12 50	105 04 50	5,430	0.16	102	NA	peak streamflow	8/11/1952	9/7/1982	
Sandoval Canyon at Gallinas	08380300	35 41 19	105 21 17	7,140	7.6	4,864	NA	peak streamflow	8/4/1957	8/2/1999	
Gallinas Creek near Montezuma	08380500	35 39 07	105 19 06	6,875	84	53,760	80	peak streamflow	7/27/1915	10/31/1998	
	0000000	00 00 0.	100 10 00	0,070	0.	00,100		daily streamflow	9/1/1926	9/30/2002	0
								water quality samples	1/11/1964	10/2/1990	<u> </u>
Gallinas Creek at Montezuma	08381000	35 39 15	105 16 30	6,675	87	55.680	NA	peak streamflow	9/30/1904	8/2/1966	
	00001000	33 33 13	103 10 30	0,070	0,	33,000	IVA	daily streamflow	10/23/1904	12/31/1966	625
								water quality samples	9/25/1963	7/27/1964	020
Canon Piedra Lumbre near Las Vegas	08381700	35 34 14	105 17 50	6.714	8.06	5.158	NA	peak streamflow	7/29/1971	7/29/1974	
Gallinas River near Lourdes	08382000	35 28 15	105 17 30	5.928	313	200.320	NA NA	peak streamflow	8/4/1952	8/25/1963	
	00302000	33 20 13	100 00 00	3,320	313	200,320	11/7	daily streamflow	7/1/1951	12/31/1963	0
Guadalupe County, New Mexico		L		l	II.	ĮĮ		daily streamnow	17111331	12/51/1303	
Pecos River near Anton Chico	08379500	35 10 44	105 06 30	5,130	1,050	672,000	4,900	peak streamflow	9/29/1904	8/6/1999	
recos River flear Afficin Chico	00070000	00 10 44	100 00 00	0,100	1,000	072,000	4,000	daily streamflow	10/1/1910	9/30/2002	4658
								water quality samples	8/31/1959	6/20/1977	4030
Gallinas River near Colonias	08382500	35 10 55	104 53 59	4.944	610	390,400	7,000	daily streamflow	1/1/1951	9/30/2002	0
	00302300	33 10 33	104 33 33	4,044	010	330,400	1,000	peak streamflow	6/1/1937	9/16/1999	<u> </u>
								water quality samples	8/31/1959	9/22/1976	
Pecos River above Santa Rosa Lake	08382650	35 03 35	104 45 41	NA	2,340	1,497,600	11,800	daily streamflow	2/28/1976	9/30/2002	0
	00302030	33 03 33	104 40 41	14/5	2,040	1,437,000	11,000	peak streamflow	8/3/1976	9/31/1999	0
								water quality samples	2/27/1976	8/22/2002	
Pecos River below Santa Rosa Dam	08382830	35 01 52	104 41 09	NA	2,430	1,555,200	12,000	daily streamflow	1/17/1980	9/30/2002	0
	00302030	30 01 32	104 41 09	INA	2,430	1,000,200	12,000	peak streamflow	8/10/1981	8/5/1999	U
Pecos River near Puerto de Luna	08383500	34 43 48	104 31 28	4,311	3,970	2,540,800	10,280	daily streamflow	5/1/1938	9/30/2002	0
	00000000	34 43 48	104 31 28	4,311	3,970	2,340,000	10,200	peak streamflow	9/6/1938	4/30/1999	U
Calfay Caynty Nav Mayica								water quality samples	9/16/1959	8/23/2002	
Colfax County, New Mexico	07044500	20 17 10	104 20 22	5.635	2.050	4 004 000	30.000	daily atra amfla	40/4/4020	9/30/2002	2070
Canadian River near Taylor Springs	07211500	36 17 49	104 29 36	5,035	2,850	1,824,000	30,000	daily streamflow	10/1/1939		2070
								peak streamflow	9/29/1904	5/3/1999	
								water quality samples	6/27/1966	6/4/1975	

NA = Not available.

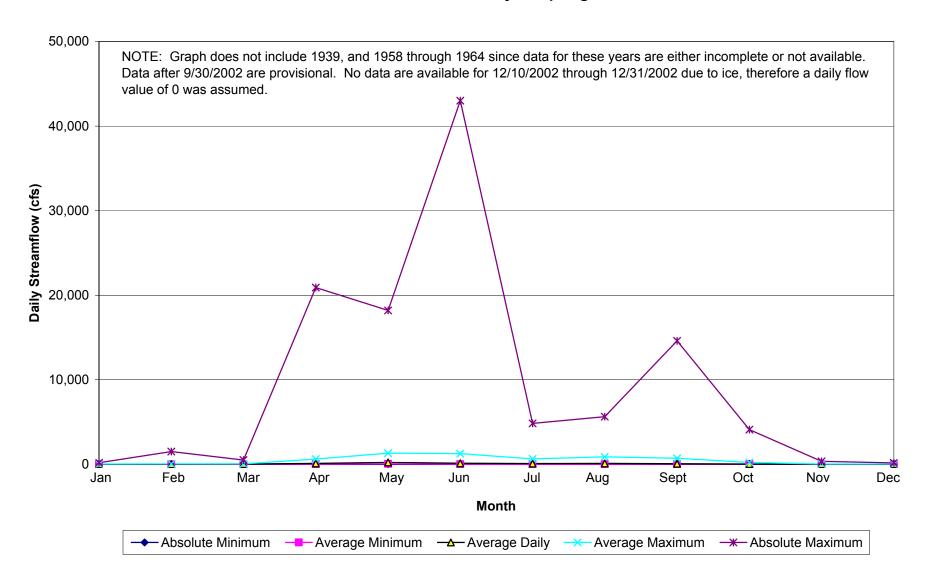
Highlighted rows indicate key stream gaging stations.

P:_Wr02-036\RegWtrPln.2-05\AppxE\E2:\TE2:1_M-SM gaging stations.xls

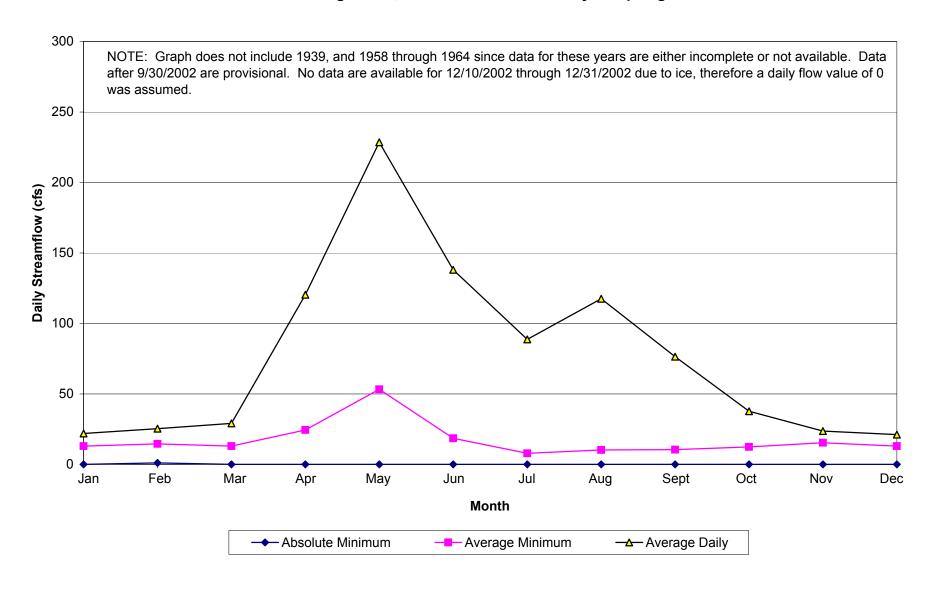
Annual Water Yield Canadian River near Taylor Springs, NM



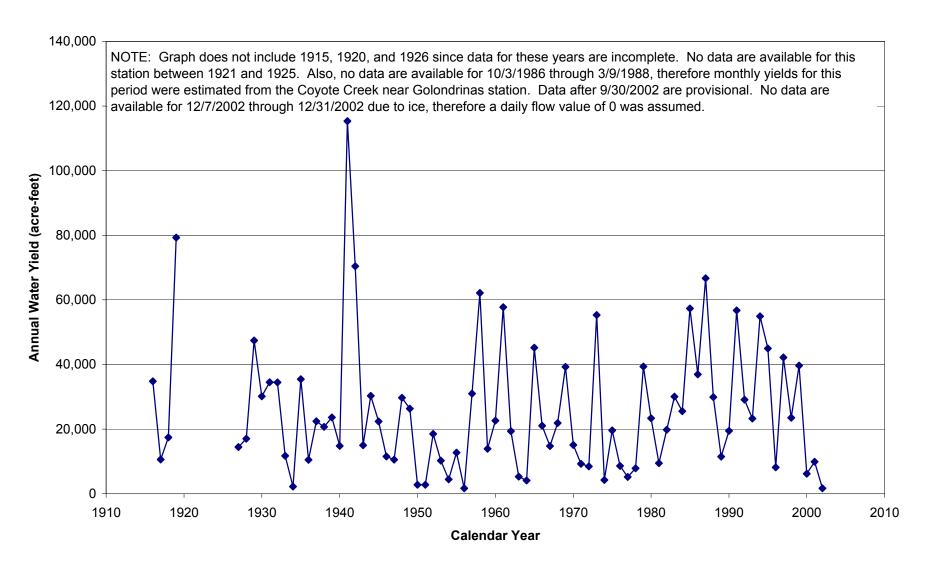
Average Daily Streamflow for Each Month, 1940 through 1957, and 1965 through 2002 Canadian River near Taylor Springs



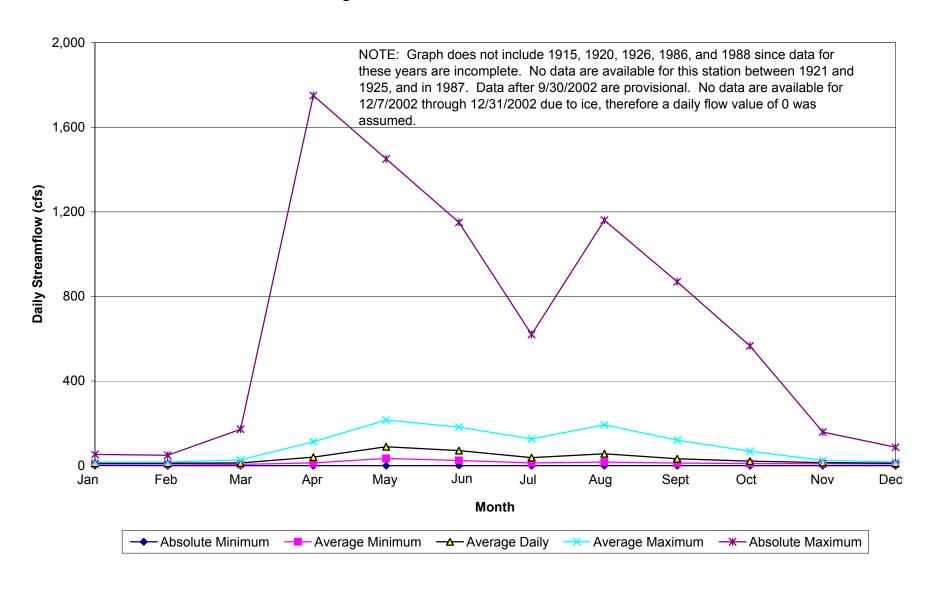
Average Daily Streamflow for Each Month, Excluding Maximums, 1940 through 1957, and 1965 through 2002, Canadian River near Taylor Springs



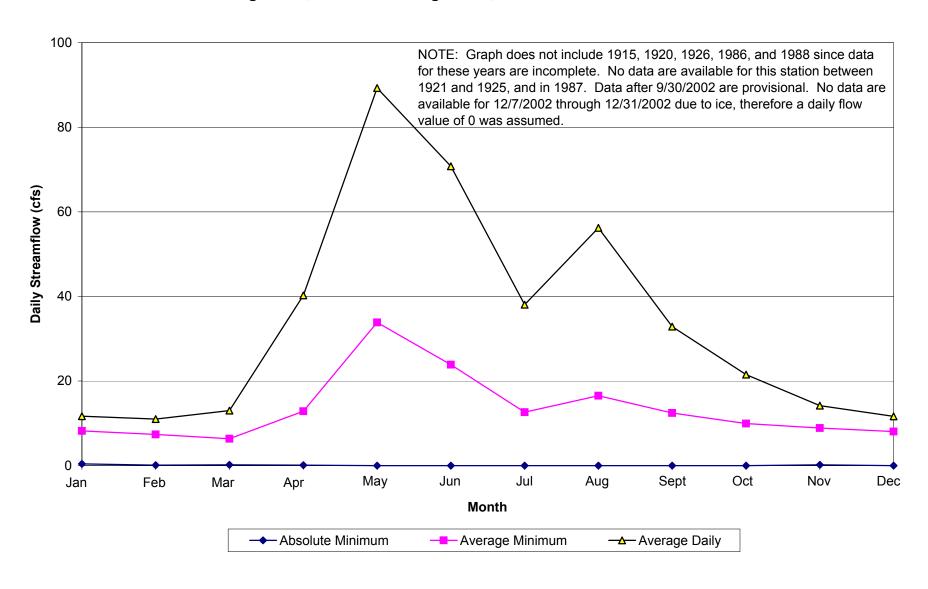
Annual Water Yield Mora River near Golondrinas, NM



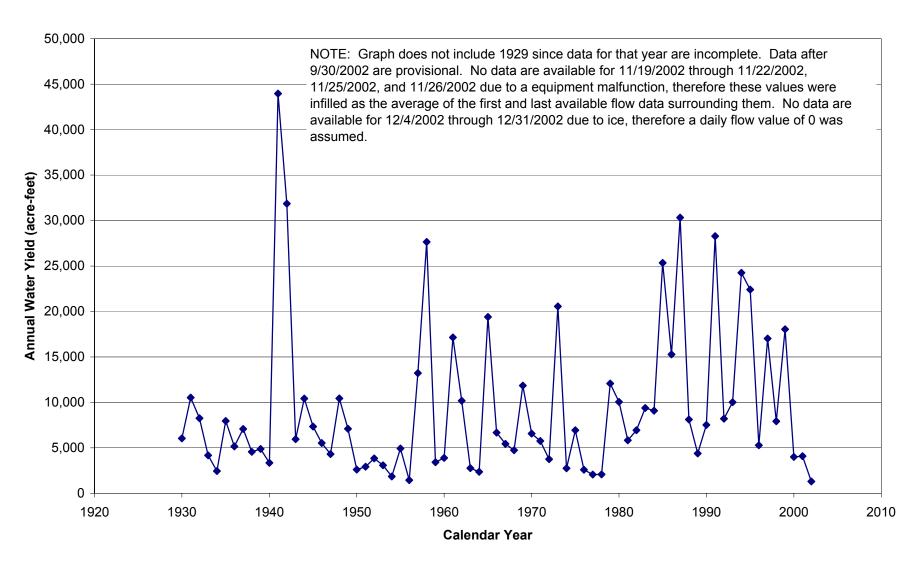
Average Daily Streamflow for Each Month, 1916 through 1919, 1927 through 1985, and 1989 through 2002, Mora River near Golondrinas



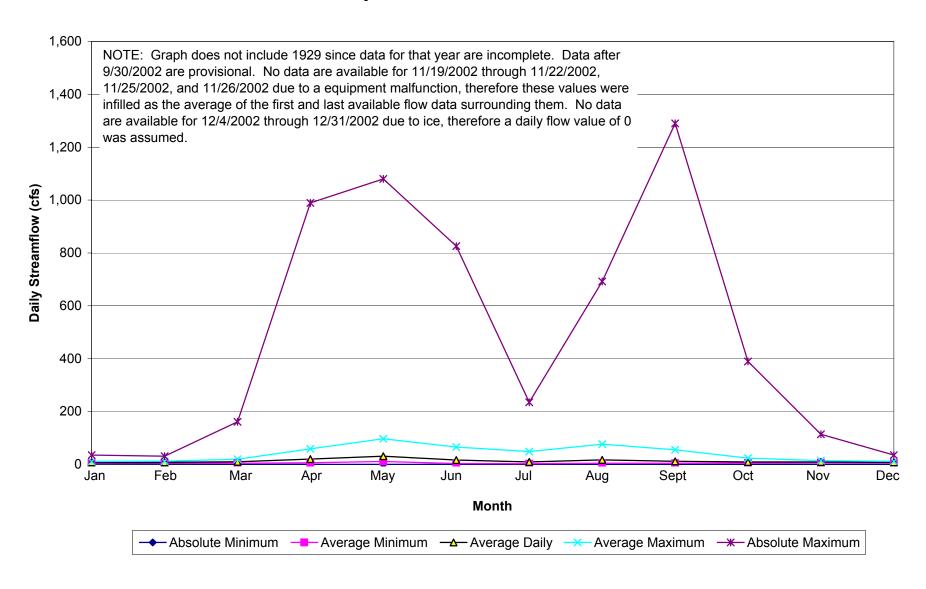
Average Daily Streamflow for Each Month, Excluding Maxima, 1916 through 1919, 1927 through 1985, and 1989 through 2002, Mora River near Golondrinas



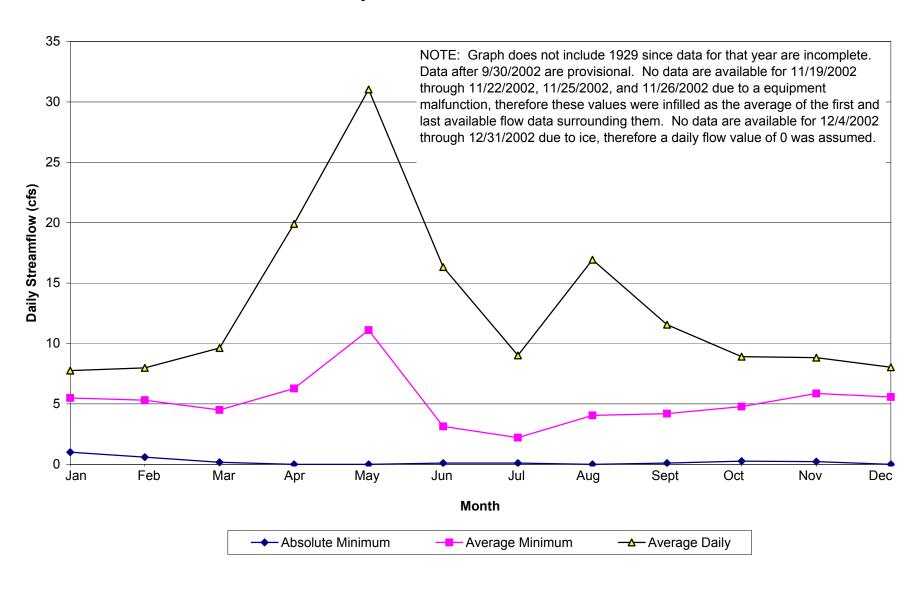
Annual Water Yield Coyote Creek near Golondrinas, NM



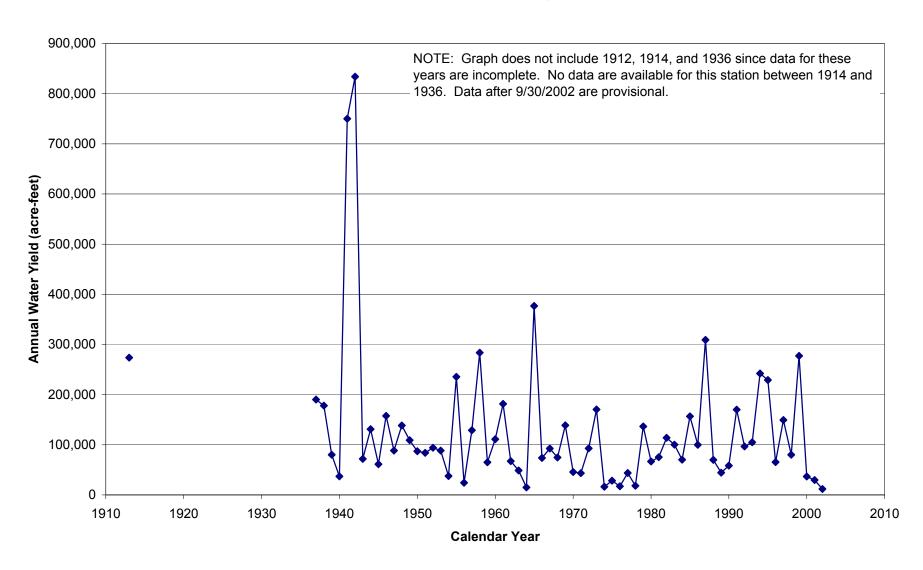
Daily Average Streamflow for Each Month, 1930 through 2002 Coyote Creek near Golondrinas



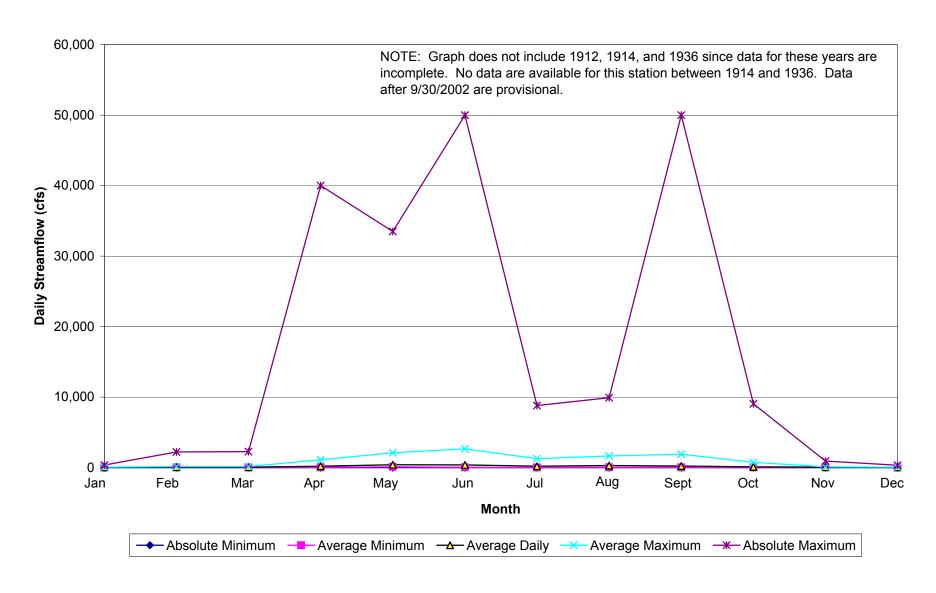
Daily Average Streamflow for Each Month, Excluding Maxima, 1930 through 2002 Coyote Creek near Golondrinas



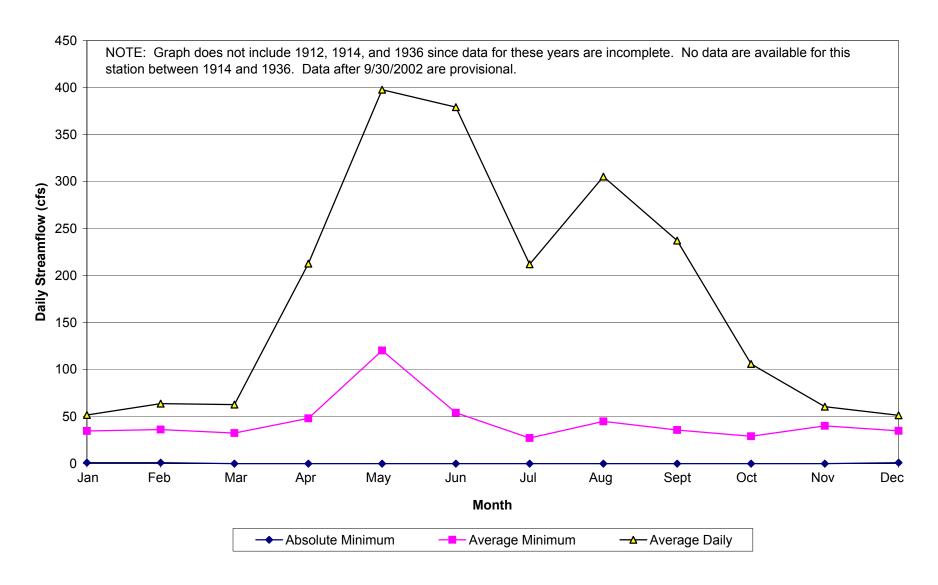
Annual Water Yield Canadian River near Sanchez, NM



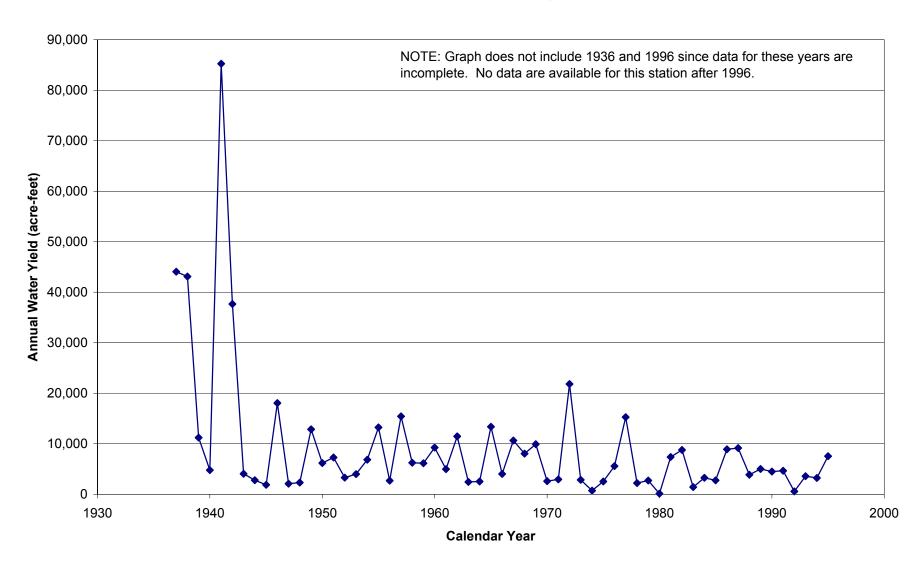
Daily Average Streamflow for Each Month, 1913 and 1937 through 2002 Canadian River near Sanchez



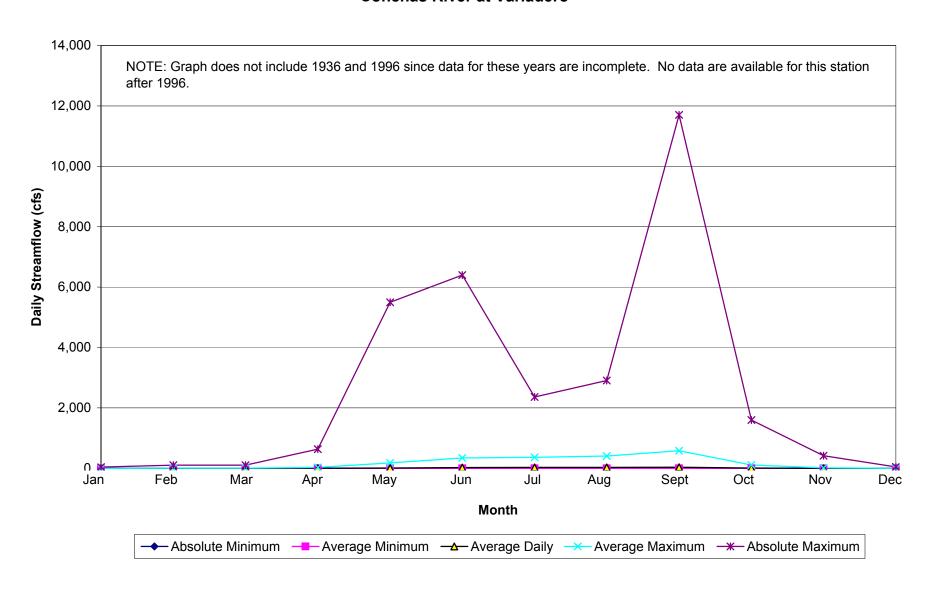
Daily Average Streamflow for Each Month, Excluding Maxima, 1913 and 1937 through 2002 Canadian River near Sanchez



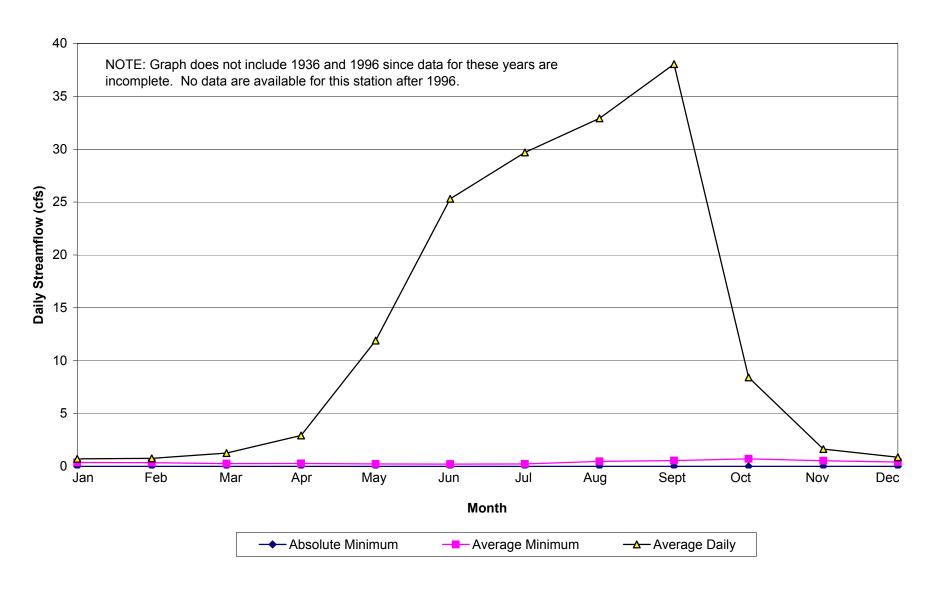
Annual Water Yield Conchas River at Variadero, NM



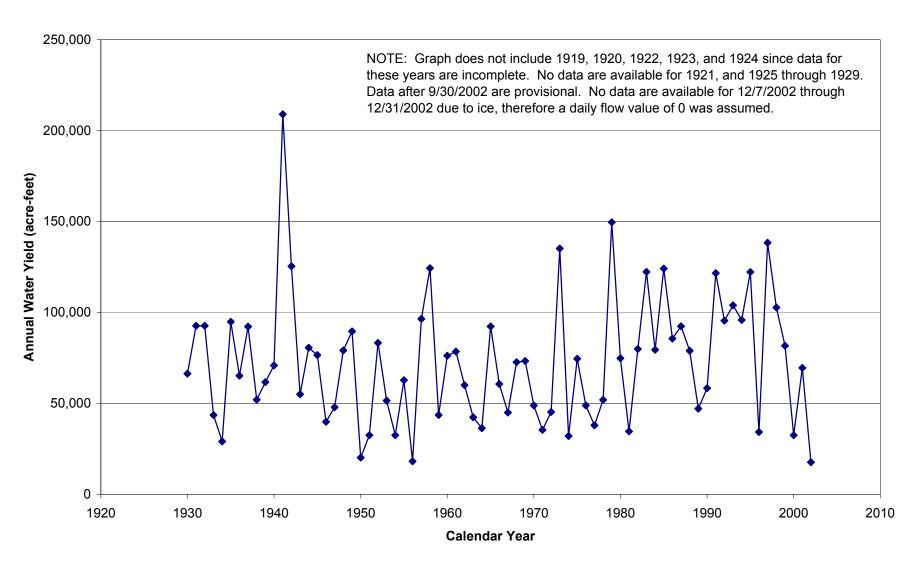
Average Daily Streamflow for Each Month, 1937 through 1995 Conchas River at Variadero



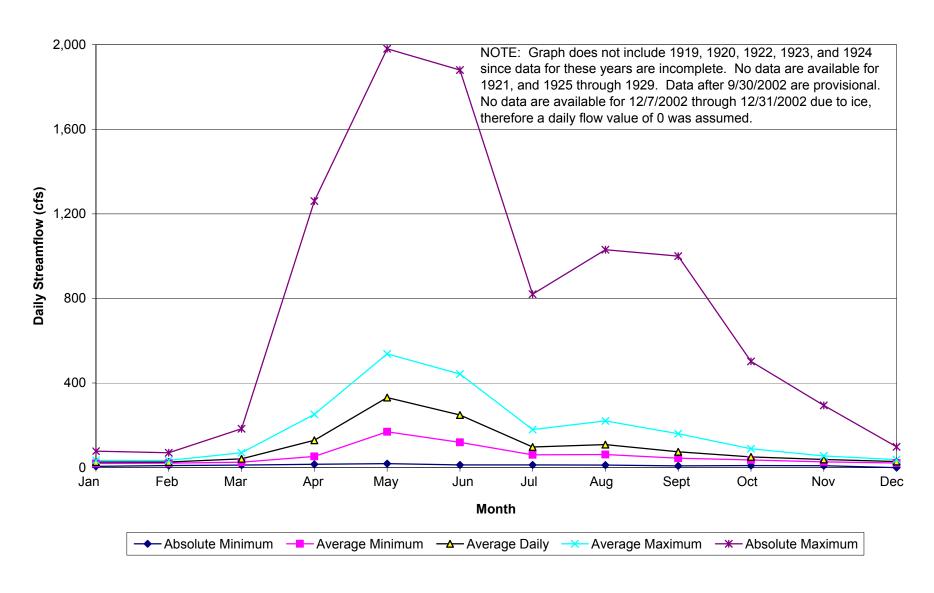
Average Daily Streamflow for Each Month, Excluding Maxima, 1937 through 1995 Conchas River at Variadero



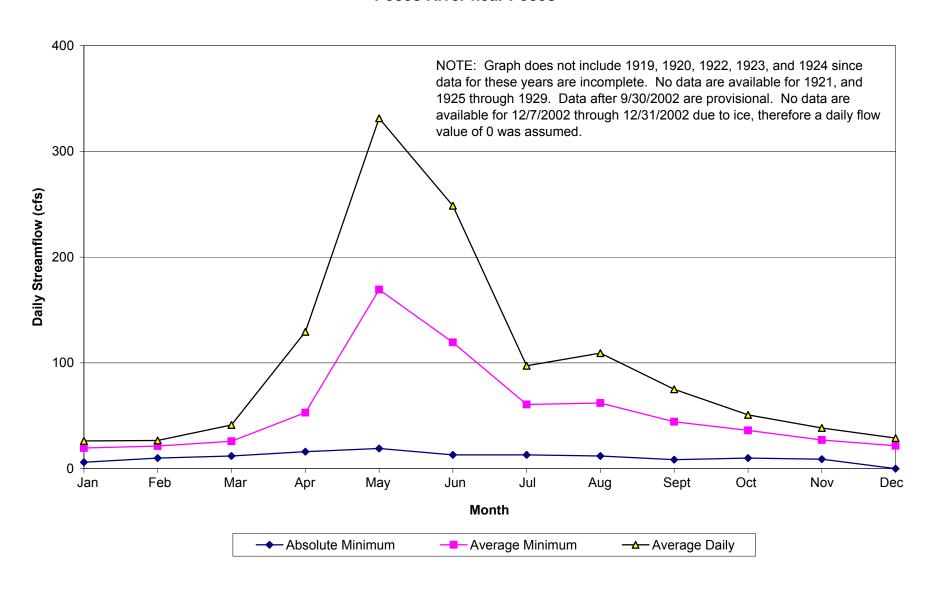
Annual Water Yield Pecos River near Pecos, NM



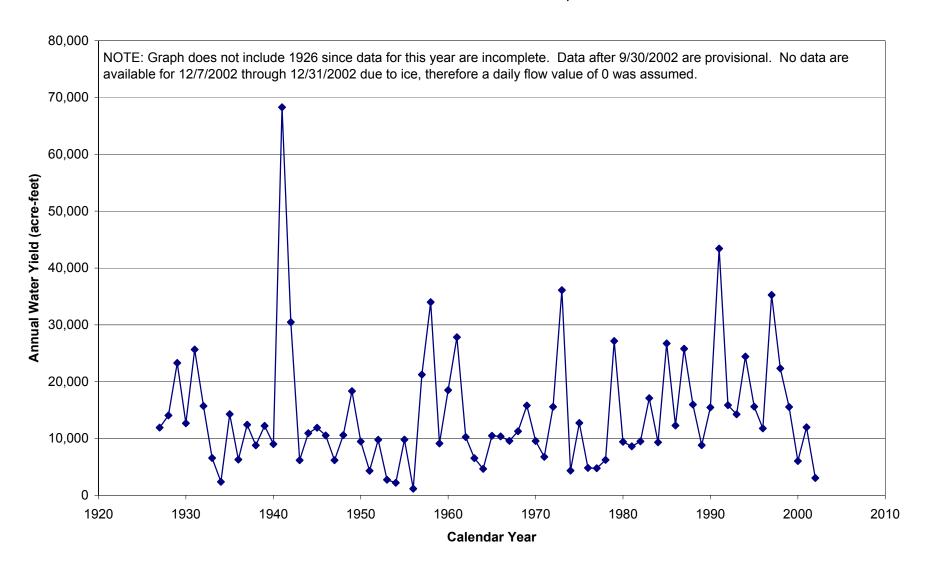
Average Daily Streamflow for Each Month, 1930 through 2002 Pecos River near Pecos



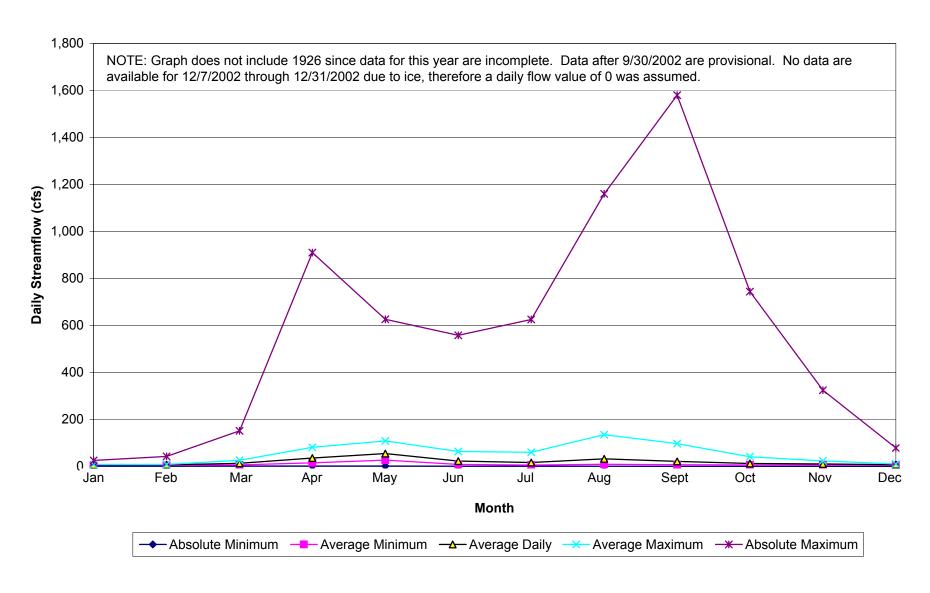
Average Daily Streamflow for Each Month, Excluding Maxima, 1930 through 2002 Pecos River near Pecos



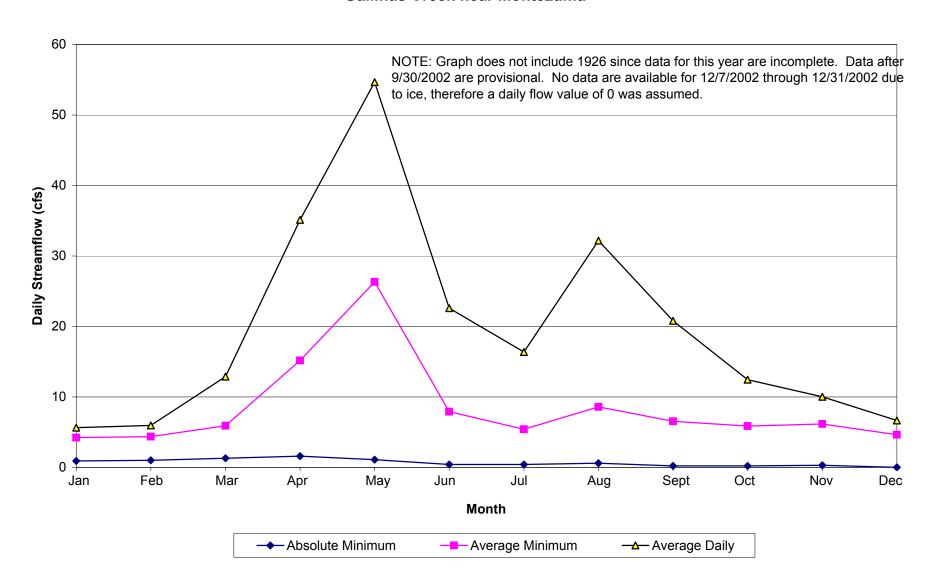
Annual Water Yield Gallinas Creek near Montezuma, NM



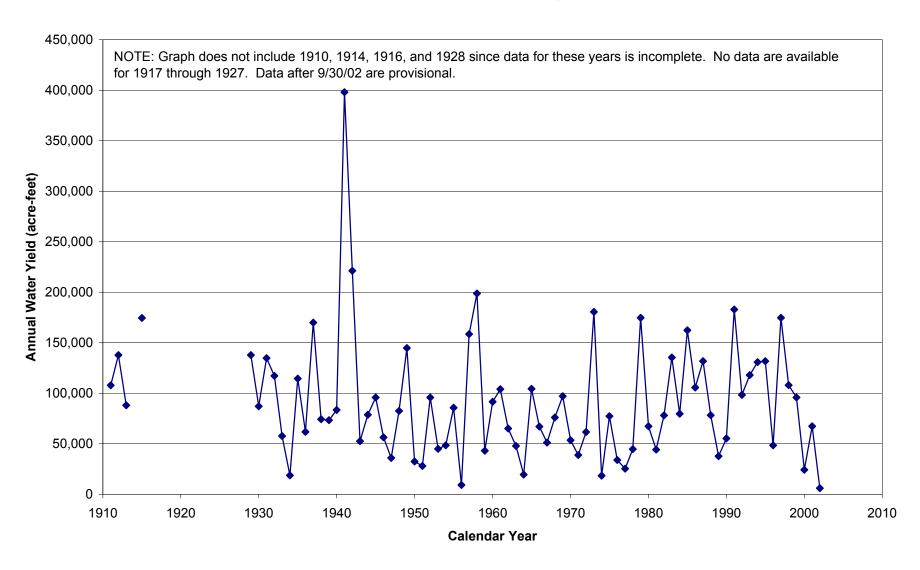
Average Daily Streamflow for Each Month, 1927 through 2002 Gallinas Creek near Montezuma



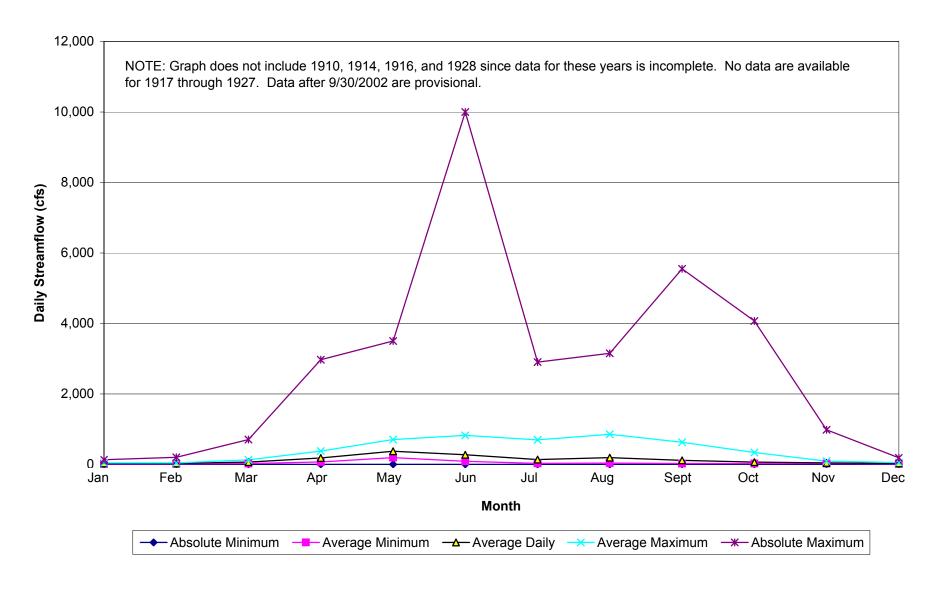
Average Daily Streamflow for Each Month, Excluding Maxima, 1927 through 2002 Gallinas Creek near Montezuma



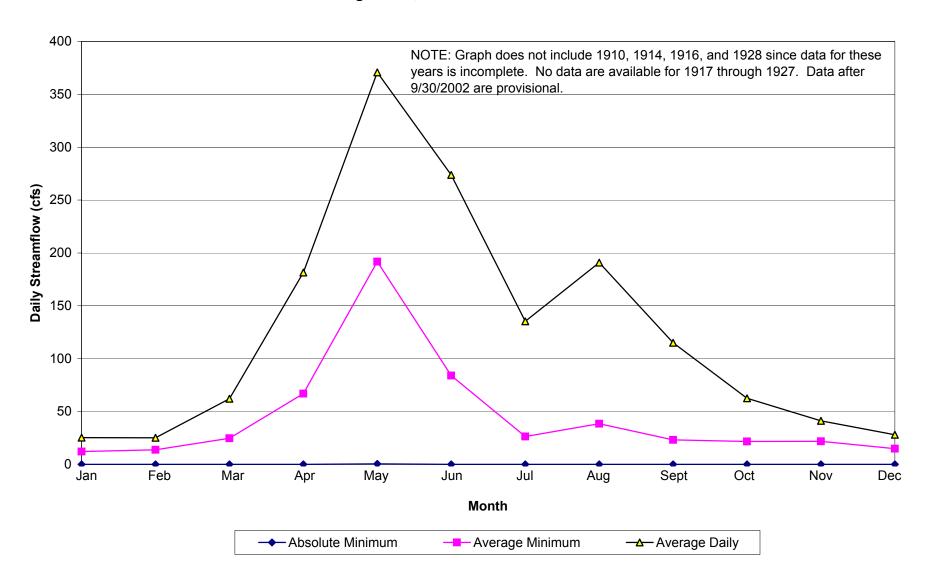
Annual Water Yield Pecos River near Anton Chico, NM



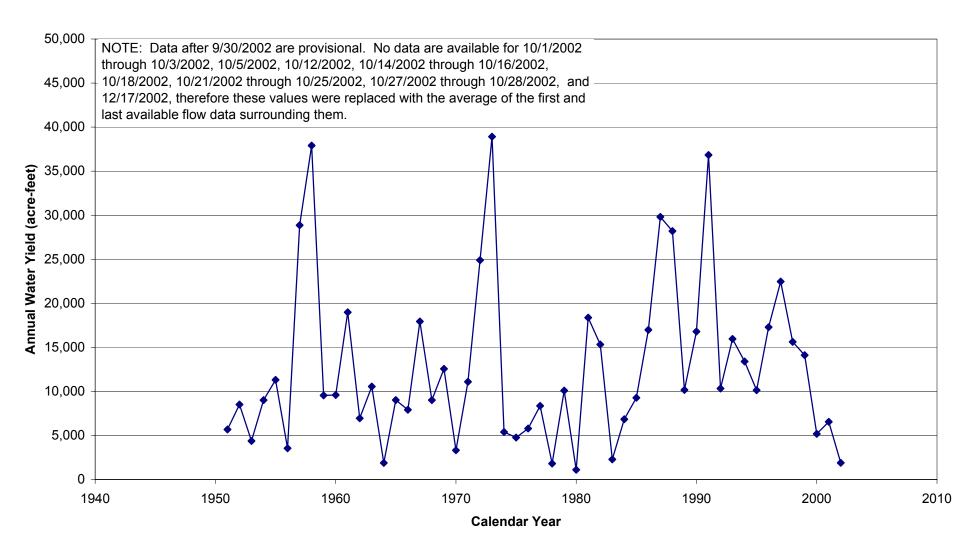
Average Daily Streamflow for Each Month, 1911 through 1913, 1915, and 1929 through 2002 Pecos River near Anton Chico



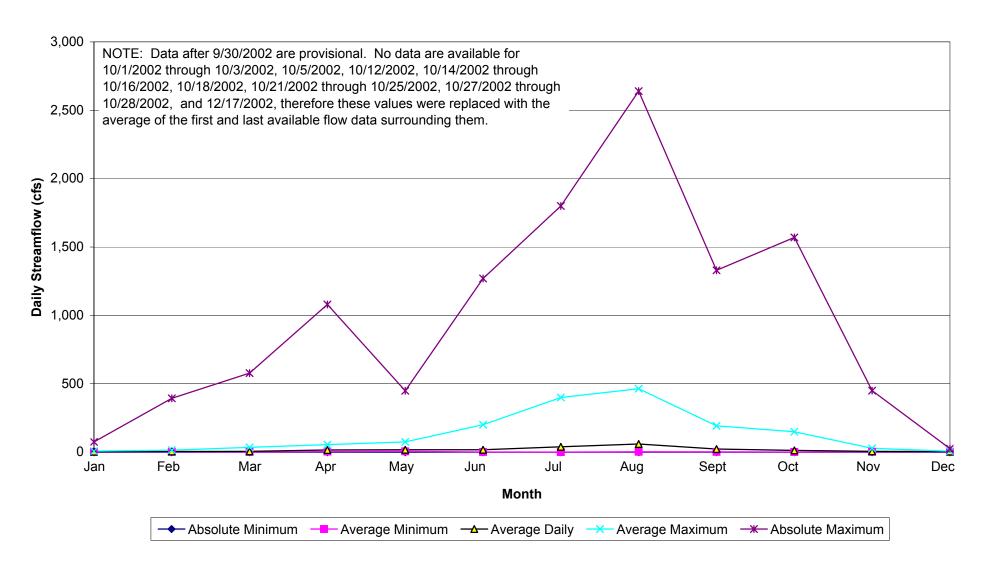
Average Daily Streamflow for Each Month, Excluding Maxima, 1911 through 1913, 1915, and 1929 through 2002, Pecos River near Anton Chico



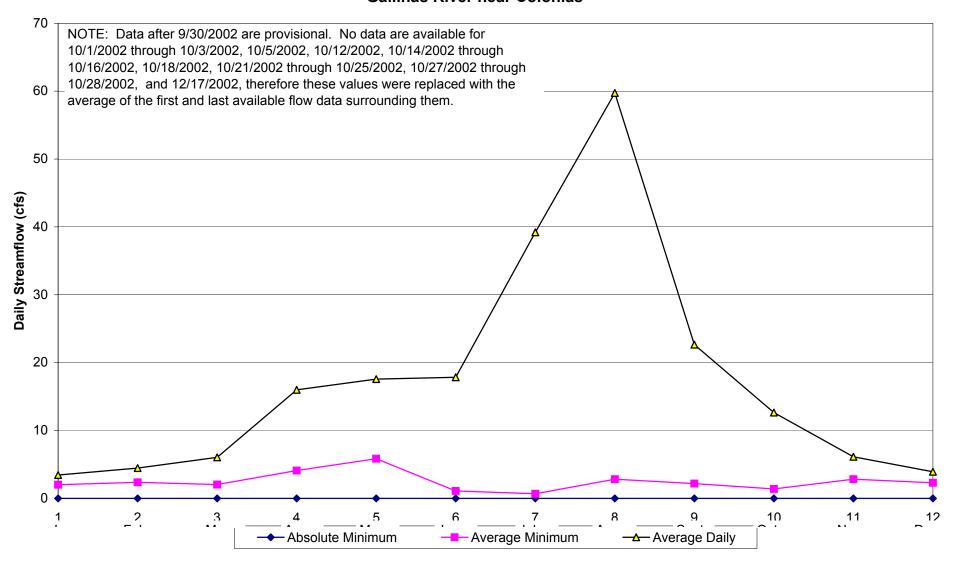
Annual Water Yield Gallinas River near Colonias, NM



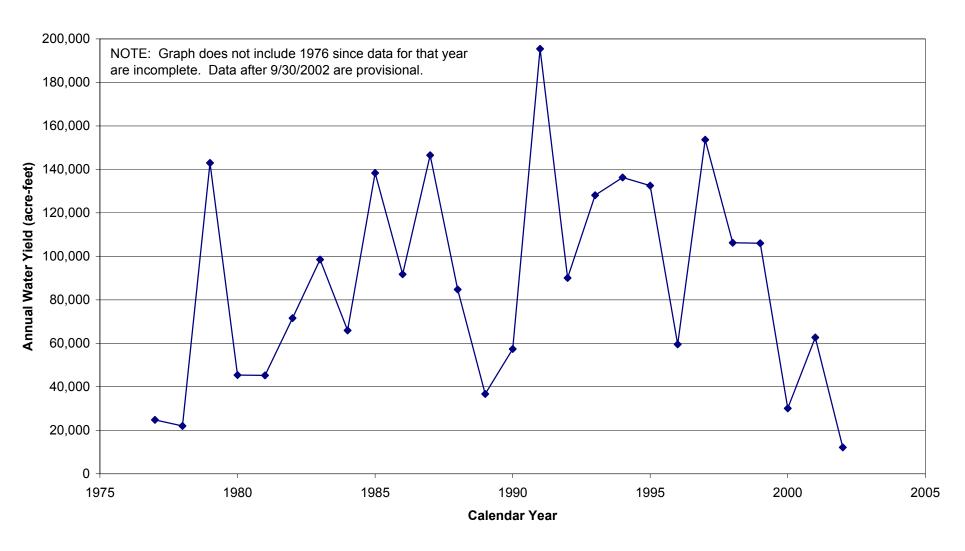
Daily Average Streamflow for Each Month, 1951 through 2002 Gallinas River near Colonias



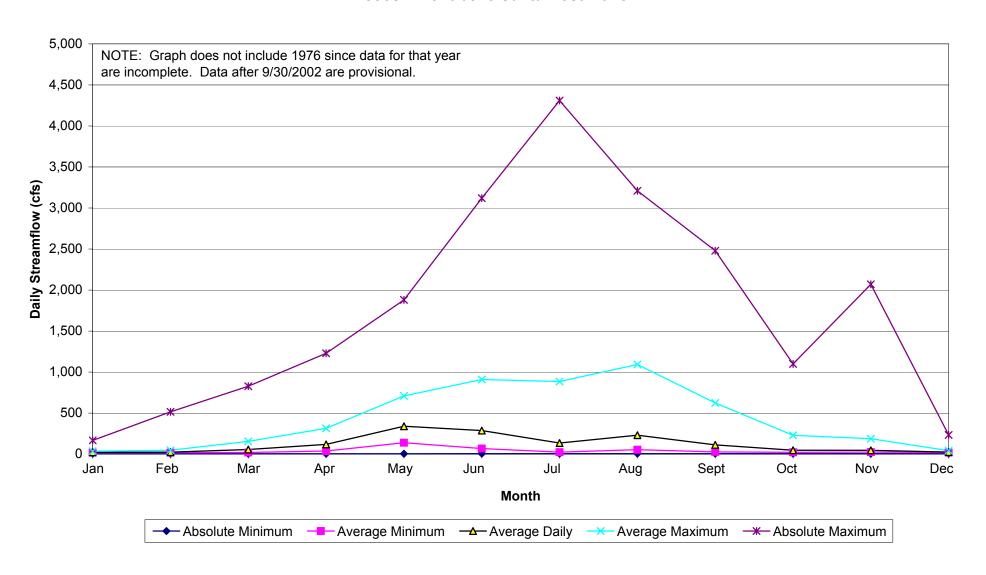
Daily Average Streamflow for Each Month, Excluding Maxima, 1951 through 2002 Gallinas River near Colonias



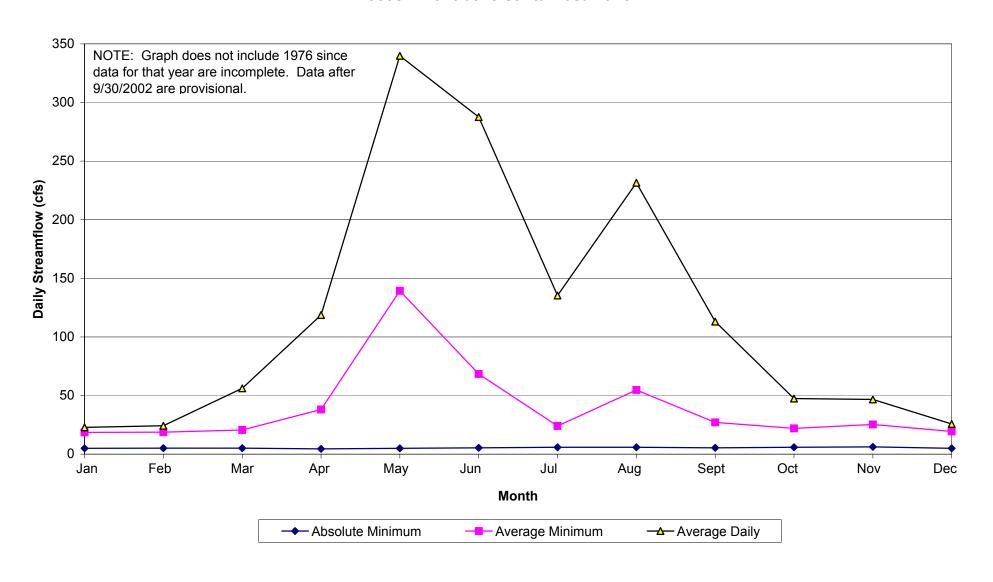
Annual Water Yield Pecos River above Santa Rosa Lake, NM



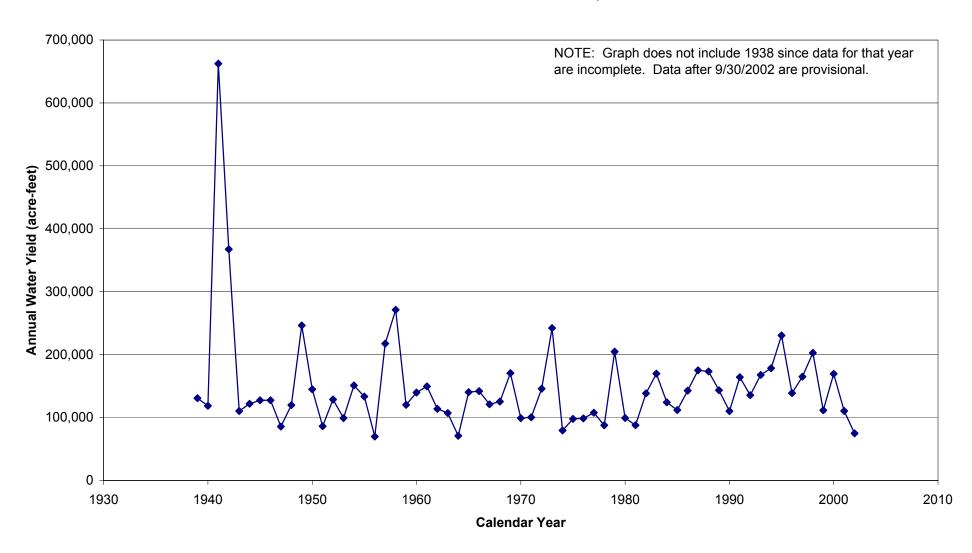
Daily Average Streamflow for Each Month, 1977 through 2002 Pecos River above Santa Rosa Lake



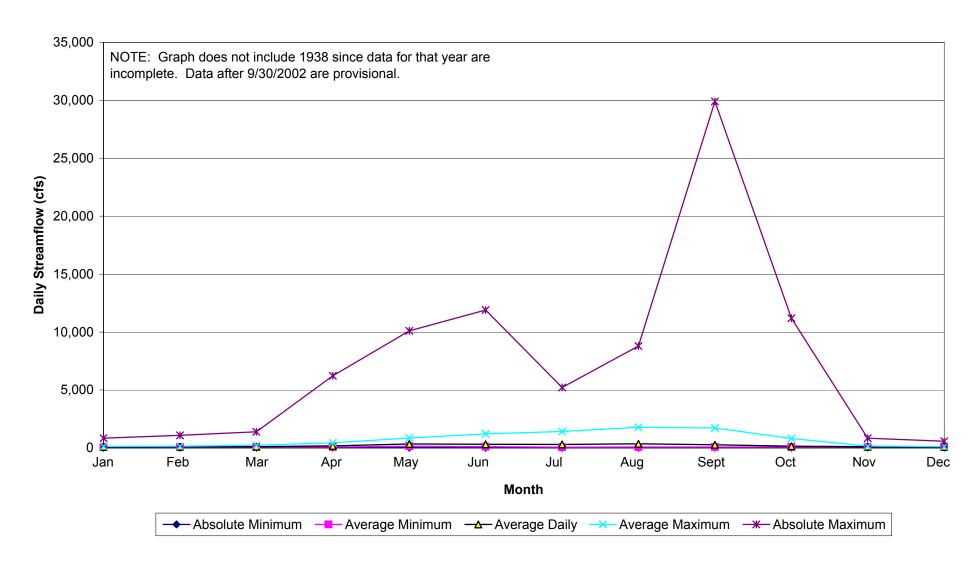
Daily Average Streamflow for Each Month, Excluding Maxima, 1977 through 2002 Pecos River above Santa Rosa Lake



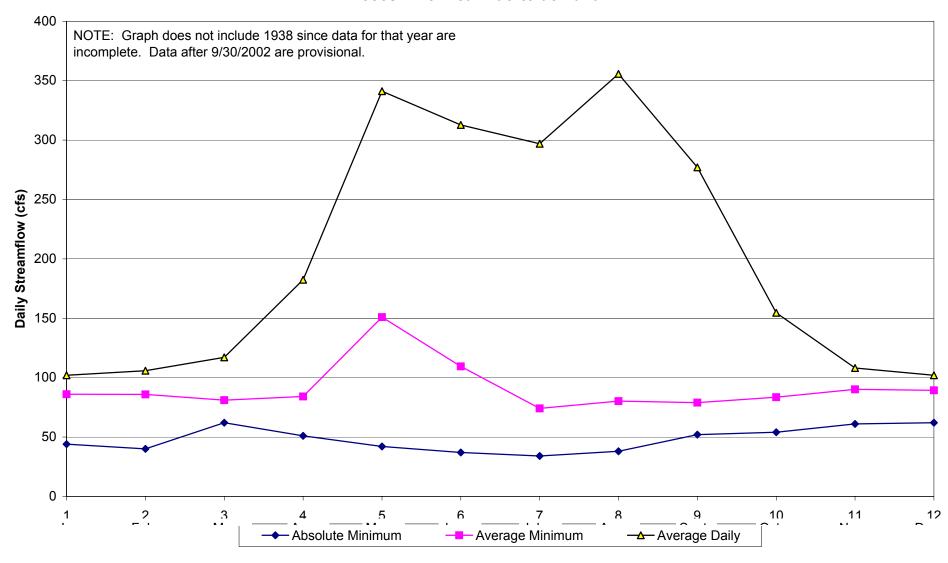
Annual Water Yield Pecos River near Puerto de Luna, NM



Daily Average Streamflow for Each Month, 1939 through 2002 Pecos River near Puerto de Luna



Daily Average Streamflow for Each Month, Excluding Maxima, 1939 through 2002 Pecos River near Puerto de Luna



Appendix E3

Gallinas River Seepage Studies

Figure E3-1. Seepage Investigation on the Gallinas River, July 26-27, 1977

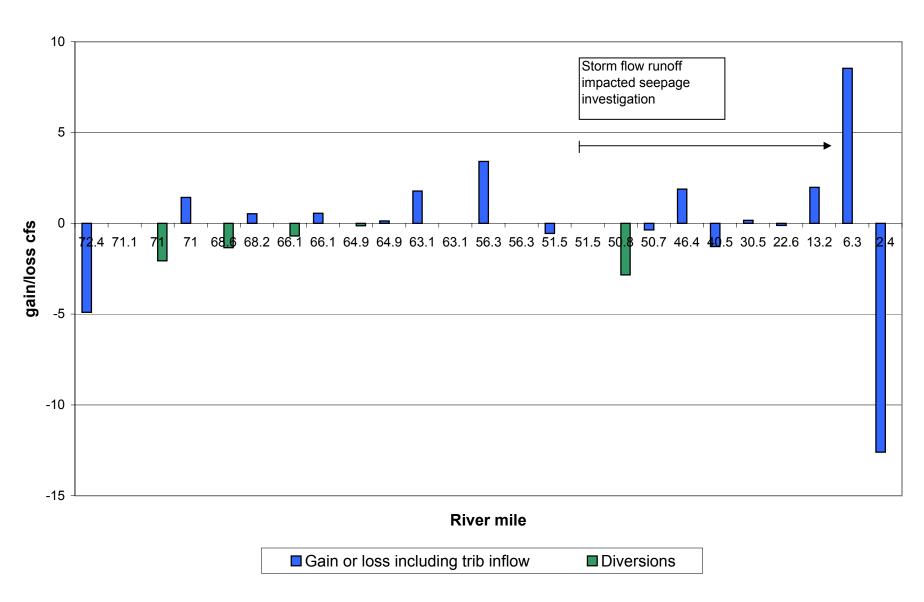


Figure E3-2. Seepage Investigation on the Gallinas River, September 20-21, 1977

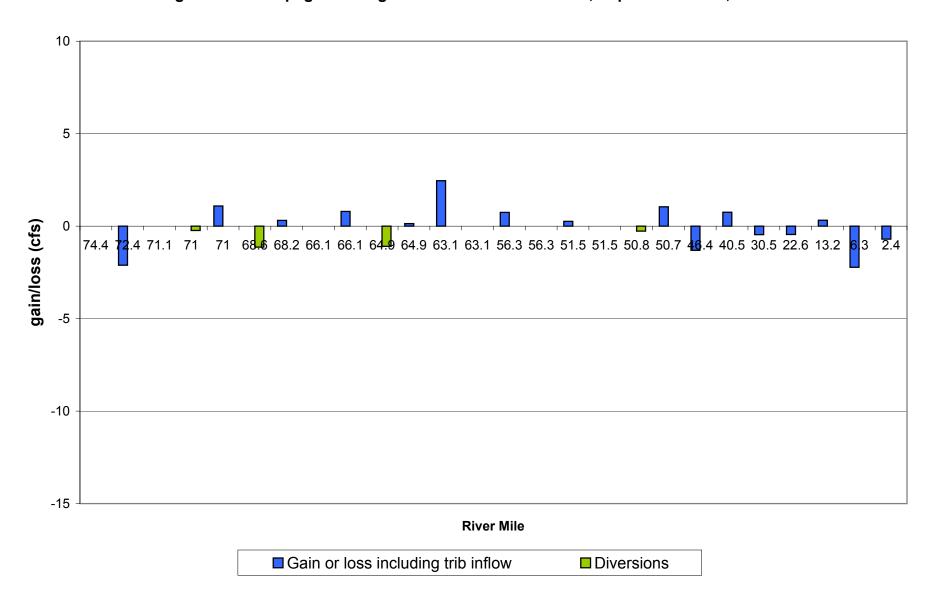


Figure E3-3. Stream Flow in the Gallinas River during July 1977 Seepage Investigation

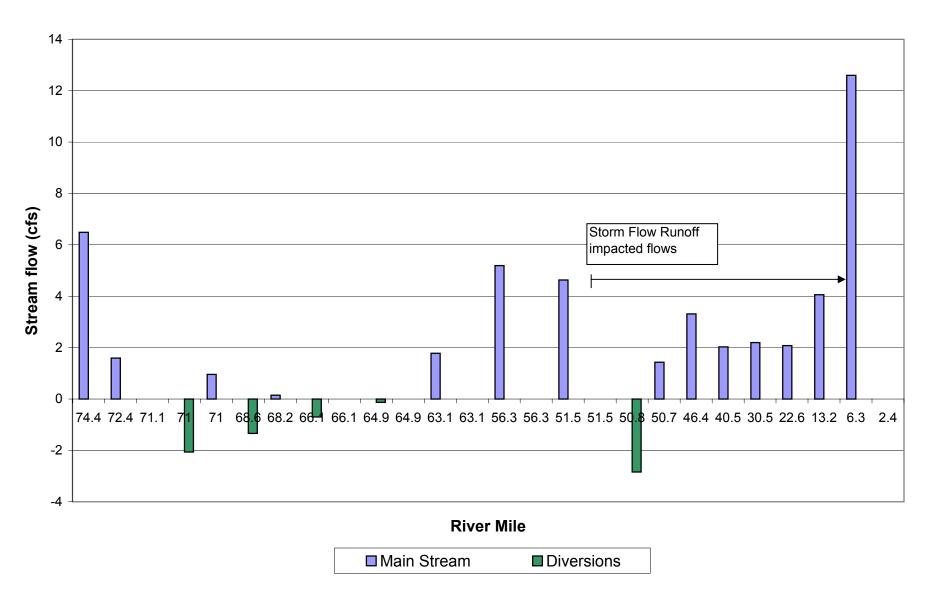


Figure E3-4. Gallinas Stream Flow during September 1977 Seepage Investigation

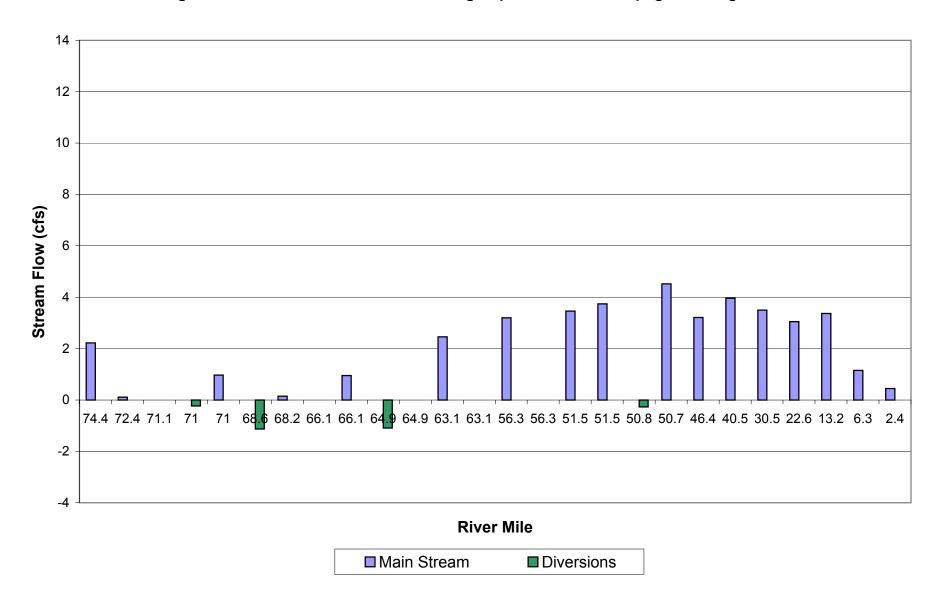
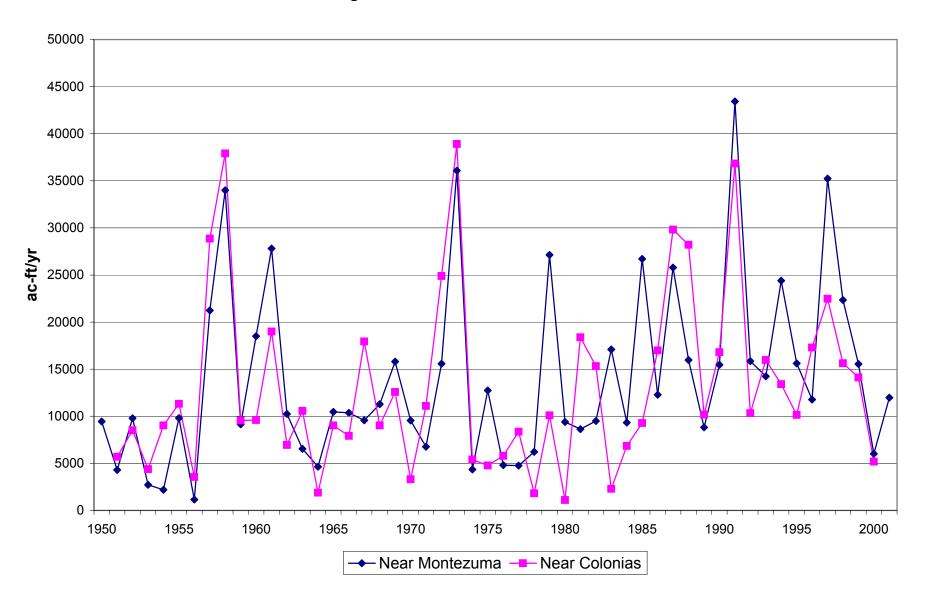
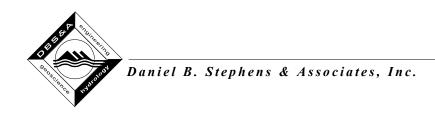


Figure E3-5. Gallinas River Flow



Appendix E4

Reservoirs and Lakes in the Planning Region



Reservoirs and Lakes in the Mora-San Miguel-Guadalupe Water Planning Region Page 1 of 8

Reservoir	Basin	River	Location	Purpose ^a	Operator	Date Completed	Total Storage Capacity (acre-feet)	Surface Area at Spillway Elevation (acres)	Average Storage (acre-feet)	Average Surface Area (acres)	Gross Evaporation Rate (in/yr)	Net Evaporation Rate (in/yr)	Dam Height (ft)	Dam Length (ft)	Drainage Area (square miles)	Maximum Discharge (cfs)	Total Evaporation (Surface Water Depletion) (acre-feet)	Purpose
Mora County																		
Berlier Reservoir	Arkansas- White-Red River Basin	Tributary to Vermejo Creek ^b	T21N R21E S28 ^b	IRR	Irene Daniels- Berlier ^b	1956	97	NA	97	9	54.96	39.00	26	240		500	29.25	
Horse Lake	Arkansas- White-Red River Basin	Mora River ^b	T20N R19E S22 ^b	IRR	Salmon Ranch Company ^b	1935	530 °	NA	552	60	53.04	33.00	14	2,070		38	165.00	
La Cueva & Red Lakes	Arkansas- White-Red River Basin	Mora River ^b	T20N R16E S23 ^b	IRR	Salmon Ranch Company ^b	1935	6,567 ^c	NA	6,510	340	48.96	30.96	15	1,725			877.20	
Shufeldt Lake	Arkansas- White-Red River Basin					Natural	NA	NA										
Baker Lake	Arkansas- White-Red River Basin						NA	NA										
Tree Lake	Arkansas- White-Red River Basin						NA	NA										
Laguna Yeso Reservoir	Arkansas- White-Red River Basin	Sweetwater Creek		IRR	Private		NA	140.00		50	54	38.04					158.50	
Lujan Reservoir	Arkansas- White-Red River Basin	Mora River		IRR			NA	NA		3	35.04	15.00					3.75	
Mossman Reservoir	Arkansas- White-Red River Basin	Carrizo Creek		IRR			NA	NA		10	54	38.04					31.70	
Morphy Lake	Arkansas- White-Red River Basin	Rio Morphy Tributary	T20N R15E S30	IRR, REC	New Mexico State Park System (leased from NM Dept. of Game & Fish, which leases from the Ledoux Water Assn.) d	pre-1965 ^d	407	50 ^e	407	25	42	21.96	24	412		200	45.75	Irrigation for farming and ranching in Ledoux, NM; recreation through the NM state park system. ^d Lake (leased thru 2015 from Acequia de San Jose and Acequia de la Isla). Minimum pool in lease is 150 acre-feet. Ernesto Herrera was the contact about 7 years ago (988-0484). ^f

Source: Data compiled by B.C. Wilson, New Mexico Office of the State Engineer, unless otherwise noted.

NA = Not applicable

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^a IRR = Irrigation

REC = Recreation

FW = Fish and Wildlife

WS = Water supply

VVO - VValei S

LS = Livestock

FC = Flood control

MS = Municipal supply

^b USACE, 2005.

^c Data from Hinderlider (1945)

d Data from New Mexico State Parks

^e Data from the NMED (http://www.nmenv.state.nm.us/swqb/2000_305b_table_18.pdf).

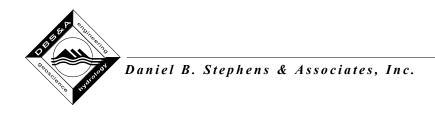
f Data from the New Mexico Department of Game and Fish (Ahlm, 2004)

^g Data from USACE

h Data from the USFWS (Rodriguez, 2004)

Peterson and Bradner lake data from Frank Armijo (LV WWTP)

^j Storrie lake data from Robert Quintana (max capacity and surface areas)



Reservoirs and Lakes in the Mora-San Miguel-Guadalupe Water Planning Region Page 2 of 8

Reservoir Jarosa	Basin	River Jarosa Creek	Location T21N	Purpose ^a	Operator Diamond Cattle	Date Completed	Total Storage Capacity (acre-feet)	Surface Area at Spillway Elevation (acres)	Average Storage (acre-feet)	Average Surface Area (acres)	Gross Evaporation Rate (in/yr)	Net Evaporation Rate (in/yr)	Dam Height (ft)	Dam Length (ft)	Drainage Area (square miles)	Maximum Discharge (cfs)	Total Evaporation (Surface Water Depletion) (acre-feet)	Purpose
Dam			R20E S23		Co.													
Upper Charette (shar-RET- ee) Lake	Arkansas- White-Red River Basin	Ocate Creek		FW, REC	NM Dept. of Game & Fish	1910s ^f	784.2 ^f	about 100 ^f										Impound date (earliest date known) 1907, with re-application in 1909; construction of works between 1909 and 1919 ^f . Water is from Ocate Creek. Photos are available in OCE. Primary purpose of the lake is as a waterfowl resting place and for sort fishing. Max. area = 100 surface acres (rough estimate)Max. storage = 784.2 Acre Feet (St. Eng. Lic. # 101, 253, 1490)
Lower Charette Lake	Arkansas- White-Red River Basin	Ocate Creek		FW, REC	NM Dept. of Game & Fish	19-teens ^f	13,962.6 ^f	200+ ^f										Impound date (earliest date known) 1907, with re-application in 1909; construction of works between 1909 and 1919 ^f . Water is from upper lake, which is from Ocate Creek. Photos are available in OCE. Lake is a volcanic "funnel" with a concrete dam over a crevice on the face of a mesa to increase lake volume. Primary purpose of the lake is as a waterfowl resting place and for sort fishing. Max. Area = 200+ surface acres (rough estimate) Max. Storage = 13,962.6 (St. Eng. Lic. # 101, 253, 1490)
Middle Fork Lake	Arkansas- White-Red River Basin	Middle Fork Rio de la Casa		FW, REC	NM Dept. of Game & Fish													
North Fork Lake	Arkansas- White-Red River Basin	North Fork Rio de la Casa		FW, REC	NM Dept. of Game & Fish													
Unnamed lakes along South Fork Rio de la Casa	Arkansas- White-Red River Basin	Rio de la Casa																
Lost Bear Lake	Pecos River	Pecos River		FW, REC	NM Dept. of Game & Fish		_											

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^b USACE, 2005.

^c Data from Hinderlider (1945)

d Data from New Mexico State Parks

^e Data from the NMED (http://www.nmenv.state.nm.us/swqb/2000_305b_table_18.pdf).

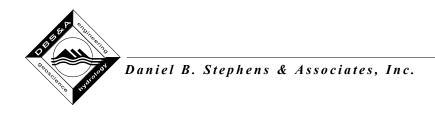
f Data from the New Mexico Department of Game and Fish (Ahlm, 2004)

^g Data from USACE

h Data from the USFWS (Rodriguez, 2004)

Peterson and Bradner lake data from Frank Armijo (LV WWTP)

^j Storrie lake data from Robert Quintana (max capacity and surface areas)



Reservoirs and Lakes in the Mora-San Miguel-Guadalupe Water Planning Region Page 3 of 8

Reservoir	Basin	River	Location	Purpose ^a	Operator	Date Completed	Total Storage Capacity (acre-feet)	Surface Area at Spillway Elevation (acres)	Average Storage (acre-feet)	Average Surface Area (acres)	Gross Evaporation Rate (in/yr)	Net Evaporation Rate (in/yr)	Dam Height (ft)	Dam Length (ft)	Drainage Area (square miles)	Maximum Discharge (cfs)	Total Evaporation (Surface Water Depletion) (acre-feet)	Purpose
Lost Lake	Arkansas- White-Red River Basin	Maestas Creek																
Santiago Lake	Arkansas- White-Red River Basin	Santiago Creek																
Pacheco Lake	Arkansas- White-Red River Basin	Santiago Creek		FW, REC	NM Dept. of Game & Fish													
Enchanted Lake	Arkansas- White-Red River Basin	Rito Morphy		FW, REC	NM Dept. of Game & Fish													
Collins Lake	Arkansas- White-Red River Basin	Rito de la Casa																
Graham Lake	Arkansas- White-Red River Basin		Mora- Colfax Co. line															
Caldwell Lake	Arkansas- White-Red River Basin		Mora- Colfax Co. line															
County totals										497							1,311.15	
San Miguel County				•														
Aragon Dam		Aragon River	T12N R26E S35	WS	T-4 Cattle Co.	1942	281	25.00	281				330	645	2	1,033		
Conchas Dam	Arkansas- White-Red River Basin	Conchas and Canadian Rivers	T14N R26E S23	FC, IRR, REC	USACE	1940 ^g	315,735 ⁹ 709,119 ^b	9,797 1,694 ^b	61,532	6,419	56.64	37.68	200	19,500	7,409	632,000	20,191.00	
Corralitas Dam		Corralitas Creek	T12N R26E S22	WS	T-4 Cattle Co.	1942	90	6	90				210	712	2	489		
Lake Isabel	Arkansas- White-Red River Basin	Sapello River	T18N R17E S21&28	IRR	Kay Kirkpatrick	1919		817	6,500	530	48	30.96	8	2,100	3		1,367.40	

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^c Data from Hinderlider (1945)

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^e Data from the NMED (http://www.nmenv.state.nm.us/swqb/2000_305b_table_18.pdf).

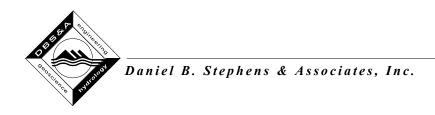
f Data from the New Mexico Department of Game and Fish (Ahlm, 2004)

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Reservoirs and Lakes in the Mora-San Miguel-Guadalupe Water Planning Region Page 4 of 8

Reservoir	Basin	River	Location	Purpose ^a	Operator	Date Completed	Total Storage Capacity (acre-feet)	Surface Area at Spillway Elevation (acres)	Average Storage (acre-feet)	Average Surface Area (acres)	Gross Evaporation Rate (in/yr)	Net Evaporation Rate (in/yr)	Dam Height (ft)	Dam Length (ft)	Drainage Area (square miles)	Maximum Discharge (cfs)	Total Evaporation (Surface Water Depletion) (acre-feet)	Purpose
Lake David	Arkansas- White-Red River Basin	Sapello River		IRR?			,	,	<u> </u>	,				,	,	,	,	
Sink Hole Gap Reservoir	Arkansas- White-Red River Basin	Atarque Creek	T13N R30E S8	LS	Geo Simms & John Hill	1943	91	12	91	10	72	57.96	24	400	2	1,260	48.30	
Las Vegas NWR Pond 12-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.2 ^h									1.0 ^h	
Las Vegas NWR Pond 13-2	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.2 ^h									1.0 ^h	
Las Vegas NWR Pond 17-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	2 ^h		2.30	52	36					9.6 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 17-2	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	3.8 ^h		3.40	52	36					18.2 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 17-3	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	NA ^h		5.00	52	36					15	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 17-4	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	3.6 ^h		6.00	52	36					17.3 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 17-5	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.1 ^h									0.5 ^h	
Las Vegas NWR Pond 19-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.2 ^h									1.0	
Las Vegas NWR Pond 20-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	1.7 ^h		3.00	52	36					8.2 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 20-2	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.2 ^h									1.0 ^h	
Las Vegas NWR Pond 24-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 h	NA	0.7 ^h									3.4 ^h	

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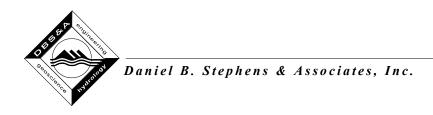
f Data from the New Mexico Department of Game and Fish (Ahlm, 2004)

^g Data from USACE

h Data from the USFWS (Rodriguez, 2004)

Peterson and Bradner lake data from Frank Armijo (LV WWTP)

^j Storrie lake data from Robert Quintana (max capacity and surface areas)



Reservoirs and Lakes in the Mora-San Miguel-Guadalupe Water Planning Region Page 5 of 8

Reservoir	Basin	River	Location	Purpose ^a	Operator	Date Completed	Total Storage Capacity (acre-feet)	Surface Area at Spillway Elevation (acres)	Average Storage (acre-feet)	Average Surface Area (acres)	Gross Evaporation Rate (in/yr)	Net Evaporation Rate (in/yr)	Dam Height (ft)	Dam Length (ft)	Drainage Area (square miles)	Maximum Discharge (cfs)	Total Evaporation (Surface Water Depletion) (acre-feet)	Purpose
Las Vegas NWR Pond 24-2	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.3 ^h									1.4 ^h	
Las Vegas NWR Pond 30-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.3 ^h									1.4 ^h	
Las Vegas NWR Pond 4-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	3.6 ^h		2.90	52	36					17.3 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 4-2	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	5.4 ^h		5.00	52	36					25.9 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 4-3	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	1.6 ^h		0.40	52	36					7.7 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 4-4	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.3 ^h		0.30	52	36					1.4 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 4-5	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	1.2 ^h		1.10	52	36					5.8 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 4-6	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.3 ^h									1.4 ^h	
Las Vegas NWR Pond 6-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.7 ^h		0.30	52	36					3.4 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 6-2	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.1 ^h		0.13	52	36					0.5 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 6-3	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.5 ^h		0.10	52	36					2.4 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 6-4	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.9 ^h		0.80	52	36					4.3 ^h	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 6-5	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.7 ^h		0.50	52	36					3.4	Lakes are playa lakes that are managed for wildfowl habitat.

Source: Data compiled by B.C. Wilson, New Mexico Office of the State Engineer, unless otherwise noted.

A = Not applicable

--- = Information not available

OSE = Office of the State Engineer

NWR = National Wildlife Refuge

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^a IRR = Irrigation

REC = Recreation

FW = Fish and Wildlife

WS = Water supply

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^b USACE, 2005.

^c Data from Hinderlider (1945)

d Data from New Mexico State Parks

^e Data from the NMED (http://www.nmenv.state.nm.us/swqb/2000_305b_table_18.pdf).

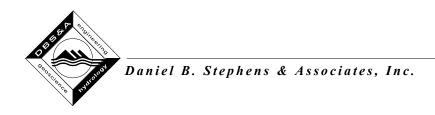
f Data from the New Mexico Department of Game and Fish (Ahlm, 2004)

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Reservoirs and Lakes in the Mora-San Miguel-Guadalupe Water Planning Region Page 6 of 8

Reservoir	Basin	River	Location	Purpose ^a	Operator	Date Completed	Total Storage Capacity (acre-feet)	Surface Area at Spillway Elevation (acres)	Average Storage (acre-feet)	Average Surface Area (acres)	Gross Evaporation Rate (in/yr)	Net Evaporation Rate (in/yr)	Dam Height (ft)	Dam Length (ft)	Drainage Area (square miles)	Maximum Discharge (cfs)	Total Evaporation (Surface Water Depletion) (acre-feet)	Purpose
Las Vegas NWR Pond 6-6	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 h	NA	0.5 ^h									2.4	
Las Vegas NWR Pond 7-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	0.2 ^h		0.20	52	36					1.0	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 7-2	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 h	NA	4.5 ^h		2.60	52	36					21.6	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 7-3	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 h	NA	1.2 ^h		1.00	52	36					5.8	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 7-4	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 h	NA	8.3 ^h		7.70	52	36					39.8	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 7-5	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	20.9 ^h		16.10	52	36					100.3	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR Pond 8-1	Pecos River Basin	Gallinas River		FW	USFWS	Refuge established 1965 ^h	NA	1 ^h									4.8	
Las Vegas NWR- Brown's Marsh	Pecos River Basin			FW	USFWS	Refuge established 1965 ^h	NA	11.2 ^h									53.8	
Las Vegas NWR- Widgeon Marsh	Pecos River Basin			FW	USFWS	Refuge established 1965 ^h	NA	2.8 ^h		5.10	52	36					13.4	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR- Bentley Lake	Pecos River Basin	Gallinas River Tributary		FW	USFWS	Refuge established 1965 ^h	NA	49 ^h		20	52	39						The refuge is the largest irrigator in the Storrie Project Water Users Association, a local irrigation group. Water from Storrie Lake flows through a canal into Bentley Lake and is then distributed to other lakes, farm fields, and marshes.
Las Vegas NWR-Playa Lake	Pecos River Basin			FW	USFWS	Refuge established 1965 h	NA	1.5 ^h									7.2	

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Reservoirs and Lakes in the Mora-San Miguel-Guadalupe Water Planning Region Page 7 of 8

							Total	Surface Area		Average					Drainage		Total Evaporation	
Reservoir	Basin	River	Location	Purpose ^a	Operator	Date Completed	Storage Capacity (acre-feet)	at Spillway Elevation (acres)	Average Storage (acre-feet)	Surface Area (acres)	Gross Evaporation Rate (in/yr)	Net Evaporation Rate (in/yr)	Dam Height (ft)	Dam Length (ft)	Area (square miles)	Maximum Discharge (cfs)	(Surface Water Depletion) (acre-feet)	Purpose
Las Vegas NWR- Melton Pond	Pecos River Basin			FW	USFWS	Refuge established 1965 h	NA	22.7 ^h		13.60	52	36					41	Lakes are playa lakes that are managed for wildfowl habitat.
Las Vegas NWR- Goose Island	Pecos River Basin			FW	USFWS	Refuge established 1965 h	NA	117.8 ^h									565.4	
Las Vegas NWR- Wallace Lake	Pecos River Basin			FW	USFWS	Refuge established 1965 ^h	NA	141.9 ^h									681.1	
Las Vegas NWR- Coyote Lake	Pecos River Basin			FW	USFWS	Refuge established 1965 ^h	NA	15.9 ^h									76.3	
Las Vegas NWR- Crane Lake	Pecos River Basin			FW	USFWS	Refuge established 1965 ^h	NA	115.2 ^h									553	
Las Vegas NWR- Distribution Pond	Pecos River Basin			FW	USFWS	Refuge established 1965 ^h	NA	0.2 ^h									1	
Las Vegas NWR- Display Pond	Pecos River Basin			FW	USFWS	Refuge established 1965 ^h	NA	0.6 ^h		0.50	52	36					2.9	Lakes are playa lakes that are managed for wildfowl habitat.
Monastery Lake-Pecos River	Pecos River	Pecos River		FW, REC	NM Dept. of Game & Fish													
McAllister Lake	Pecos River Basin			FW, REC	NM Dept. of Game & Fish	1944? ^f	about 1,000 ^f	132.2 ^f										
Pecos Arroyo Watershed Site	Pecos River Basin	San Guijela Arroyo		FC	Gallinas- Tecolote NRCS	1965	2,170		250				47	1,460	19	8,000		
Peterson Lake ⁱ	Pecos River Basin	Gallinas River	T16N R16E S5	MS	City of Las Vegas	1911	255	12.00	211	10	50.04	34.08	50	210	2	3,383	28.40	

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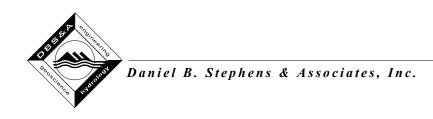
f Data from the New Mexico Department of Game and Fish (Ahlm, 2004)

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Reservoirs and Lakes in the Mora-San Miguel-Guadalupe Water Planning Region Page 8 of 8

Reservoir	Basin	River	Location	Purpose ^a	Operator	Date Completed	Total Storage Capacity (acre-feet)	Surface Area at Spillway Elevation (acres)	Average Storage (acre-feet)	Average Surface Area (acres)	Gross Evaporation Rate (in/yr)	Net Evaporation Rate (in/yr)	Dam Height (ft)	Dam Length (ft)	Drainage Area (square miles)	Maximum Discharge (cfs)	Total Evaporation (Surface Water Depletion) (acre-feet)	Purpose
Bradner Reservoir ⁱ	Pecos River Basin	Lime Canyon, Gallinas River	T16N R16E S5,6	MS	City of Las Vegas	1950	392	13.00	355				70	275		120		
Storrie Lake ^j	Pecos River Basin	Located in Bonito Arroyo, stores water from Gallinas River	T17N R16E S34	IRR, REC	Storrie Water Users Association	Dam permitted 1909, built in 1921	23,480	950.00	21,747	907	48.96	31.92	84	1,490	6	90,205	2,412.62	City of Las Vegas is in its second 10-year lease of storage space for 500 acre-feet in Storrie Lake. Leases started in 1990 and are due to expire in 2010.
County totals										7,974							24,346.81	
Guadalupe County																		
Santa Rosa Lake	Pecos River Basin	Pecos River	T9N R22E	FC, IRR, REC	USACE	1979, modified in 1982	717,000	16,670.00	200,000		69.84	48.48	214	1,900	2,434	353,000	12,888	
Power Dam Lake	Pecos River Basin	Spring fed	T8N R21E S11	REC	City of Santa Rosa	1926			55				18	92				
Railroad Dam No 1	Pecos River Basin	Los Tanos Creek	T9N R21E S36	REC	City of Santa Rosa	1905	92	53.00	69				18	107	28			
Railroad Dam No 2	Pecos River Basin	Los Tanos Creek	T9N R22E S31	REC	City of Santa Rosa	1922	300	29.00	200				21	225	25	3,580		
Santa Rosa Lakes (including Blue Hole)	Pecos River Basin	Pecos River		REC														
County totals																	12,888	
Planning region totals										8,471							38,545.96	

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Appendix E5
Aquifer Characteristics

Appendix E5. Inventory of Aquifer Properties

OSE Administrative Groundwater Basin	Area (sq. miles)	County	Aquifer Name	Aquifer Thickness (ft)	Hydraulic Conductivity (ft/day)	Transmissivity (ft²/dy)	Storativity	Specific Capacity (gpm/ft)	Notes on Aquifer Parameters (how determined, test length, etc.)	Flow in Wells	Spring Flow	Stream Seepage	Areal Recharge	Flow to/from Adjacent Groundwater Basins	s Water Quality Issues
Upper Pecos	3,153	San Miguel/ Guadalupe		35 (a, pg. 32) up to 60 (d, pg. 8) with Ogallala, 0 - 250 (e, pg. 7)											Poor chemical quality due to contamination from underlying formations, in some places (d, pg. 8)
			Ogallala Formation	50 (a, pg. 31) 0 - 100 (d, pg. 8)				4 (a, pg. 57)							Low to moderate TDS (1,000 ppm) consisting mainly of calcium and sodium sulfate an bicarbonate; may have fluroide to 1.7 ppm (a, pg. 57)
			Carlile Shale	1.5 (5.1)				22424>		Weak (a, pg. 56)					
			Greenhorn Limestone	45 (a, pg. 31)				0.018 (a, pg. 56)	Pumping test, length unknown (a, pg. 56)						1,290 ppm TDS, mostly sodium bicarbonate (a, pg. 56)
			Graneros Shale	215 (a, pg. 30)						0.75 - 10 gpm (a, pg. 55)					Hydrogen sulfide odor; 885 - 1090 ppm TDS; may have >3 ppm fluoride; has sediment (a, pg. 55-56)
			Dakota/Purgatoire Formations	0 - 220 (a, pg. 30) 100 - 150 (g, pg. 7)				0.18 - 1.4 (a, pg. 53)	Pumping and bailing tests, various lengths (a, pg. 53)			Discharges to Mora, Gallinas, and Conchas Rivers (a, pg. 52)	Through closed depressions on the Las Vegas Plateau, 10 million acre- inches/yr (a, pg. 52)		270 - 830 ppm TDS; 190 - 628 ppm hardness (CaCO ₃); high sulfate and hydrogen sulfide near Las Vegas airport from Graneros Shale (a, pg. 55)
			Morrison Formation	250 - 400 (a, pg. 28) 200 (d, pg. 7)						Weak (a, pg. 51)					Fair to poor water quality 282 ppm hardness (a, pg. 51)
			Entrada Sandstone	50 - 65 (a, pg.27) 50 (d, pg. 7) 80 - 120 (g, pg. 7)				0.3 - 0.4 (a, pg. 51)	Pumping tests, lengths unknown (a, pg. 51)	Several gpm (a, pg. 50) yields 5 - 260 gpm (f, pg. 203)		Canadian River may recharge the Entrada (a, pg. 50)		3	Soft water; sodium bicarbona is main consituent (a, pg. 51) hard water (d, pg. 7)
			Chinle Formation	800 - 1,000 (a, pg. 26) 800 (d, pg. 7) 800 (e, pg. 7) 600 - 800 (g, pg. 7)						4 gpm (a, pg. 48)				Discharges around edge of Canadian escarpment (a, pg. 48)	Moderately hard (202 ppm hardness); may have high TD (973 ppm or higher) and be s mineralized as to have a bad taste (a, pg. 49)
			Santa Rosa Sandstone	200 - 500 (a, pg.26) 250 - 350 (d, pg. 6) 250 - 350 (e, pg. 7) 400 (g, pg. 7) 150 - 350 (i, pg. 6)	0.76 - 7.6 (c, pg. 5-4)	1,700 - 17,000 gpd/ft (c, pg. 5-4)		0.15 - 0.52 (a, pg. 46)		(a, pg. 46) less than 10 gpm (f, pg. 202)	Small springs (Park and Cabras) (a, pg. 26) 0.1 - 15 gpm (d, pg. 6)			Discharges to Conchas River and tributaries (a, pg. 47)	High levels of sodium, magnesium, and calcium bicarbonates and sulfates; ma have high fluoride (a, pg. 47) slightly saline (f, pg. 202)
			Bernal Formation	75 - 150 (a, pg. 25) 50 - 250 (d, pg. 6) 50 - 300 (e, pg. 7) 100 (i, pg. 6)						May provide small amount of water (a, pg. 45-46) yields 0.5 - 5 gpm (f, pg. 202) generally <5 gpm (i, pg. 6)					Slightly saline (d, pg. 6)
			San Andres Limestone	0 - 30 (a, pg. 25) 40 - 500 (d, pg. 6) 90 - 300 (e, pg. 7) 200 (i, pg. 7)		5-2)	1 x 10 ⁻⁴ (c, pg. 5-2)			as much as 2,500 gpm to irrigation wells (f, pg. 202) yields >400 gpm (i, pg. 7)	10 - 3,000 gpm (d, pg	All Pecos River low- stage flow is lost to g. this limestone between Anton Chico and Colonias (a, pg. 45)			>250 ppm hardness; may hav high sulfate (a, pg. 45) poor quality where contact wit gypsum beds (d, pg. 6) poor quality where overlain by gypsum, anhydrite, or salt (f, p
			Glorieta Sandstone	150 - 200 (a, pg. 24) 200 - 500 (d, pg. 5) 400 - 500 (e, pg. 7) 100 - 200 (g, pg. 7) 200 - 500 (i, pg. 7)		0.13 - 9,400 (e, pg. 29)	1 x 10 ⁻⁴ (e, pg. 29)			1 gpm (a, pg. 44) yields <10 gpm (i, pg. 7)	3 - 5 gpm (a, pg. 44)		On Glorieta Mesa, most lost to underlying formations (a, pg. 44)		22 - 240 ppm hardness (as CaCO3) (a, pg. 44) slightly saline (d, pg. 5)

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Appendix E5. Inventory of Aquifer Properties

Control of Control o								Appendix E	5. Inventory or Aq	uner i reperties						
Company Comp			County	Aquifer Name	(ft)	Conductivity		Storativity		Parameters (how determined, test		Spring Flow	Stream Seepage	Areal Recharge	Adjacent	Water Quality Issues
Page	Upper Pecos (cont.)		San Miguel/ Guadalupe	Yeso Formation	300 - 400 (g, pg. 7)						adequate amounts to stock and domestic wells, where practical					High sulfate fluoride below 1.5 ppm (a, pg. 43) Slightly to moderately saline (d, pg. 5) High sulfate concentration derived from gypsum beds (f,
Purmoun Company Purmoun Company Purmoun Company Purmoun Company Comp				Canana da Oriata	000 4 000 (5 77 00)				0.04 0.07 = == 40	Durania a /la a ilia a una a a unla						
March Marc									0.04 - 0.6 (a, pg. 42)	test lengths unknown (a,						have significant sulfate and calcium bicarbonate; fluroide reaches 1.7 ppm (a, pg. 43) good to poor quality (h,
Carester New 2,000 Note Note				Madera Limestone	up to 1,800 (a, pg. 23)				member, 2 - 4.5 in upper member (a,	test lengths unknown (a,	(fracture flow) (a, pg.		provides baseflow for all San Miguel County	inches/yr (entire Magdalena Group;		Infrequently, wells have TDS >500 ppm; water usually hard (high concentration of calcium bicarbonate); fluoride may reach 5 ppm (a, pg. 41-42)
Manual Procession 1,000 (0,00,00) 20) 51)				Sandia Formation	0 - 400 (a, pg. 23)								provides baseflow for all San Miguel County	inches/yr (entire Magdalena Group;		
Contracts Stroke Contract C	Canadian River	2,360	Mora	Alluvium	only explored/drilled to 100 ft (b, pg. 51)	0.016			0.1 - 61 (b, pg. 32)		125 (b, pg. 66)					very hard; may have up to 17
Discreting Dis																
Formation											violds 0.5 - 5 apm (f					good quality (f. pg. 204)
Monisor Formation											yields 0.5 - 5 gpiii (i,					good quality (1, pg. 204)
Circle Furnation				Morrison Formation							F 9: · · /					
Santa Road Santatione																
Serial Formation Since Services on Since																
Servicts Servictors -																
Sange de Cristo Formation San Miguel																
Formation																
Modern Limestone																
San Miguel																
Contails Formation So (a, p.g. 31)																
Carile Shale Greenhorn Limestone Granovos Shale Diskota Pryzagarier Flora (ap. p. 29) Diskota Pryzagar	Tucumcari	1,073	San Miguel	Alluvium												
Carelered Sharks Carelered S					50 (a, pg. 31)											
Graneros Shale Dakstal-Progration 100 (a, pp. 29) Double 100 (a, pp. 28) Double 100 (a, pp. 24) Double 100 (a,																
Formations				Graneros Shale												
Entrada Sandstone about 85 (a, pg. 28)									0.005 - 3.6 (a, pg. 53)	bailing tests, lengths 4 - 10	0.25 - 50 gpm (a, pg. 53-54)					
Chinle Formation					>400 (a, pg. 28)											
Santa Rosa Sandstone San Andres Limestone Sandstone Sands Formation Sandstone					about 85 (a, pg. 28)											
Glorieta Sandstone																
Yeso Formation 1,000 (a, pg. 24)																
Sangre de Cristo Formation Sandia Formation					1 000 (0, 22, 24)											
Formation Madera Limestone Sandia Formation					1,000 (a, pg. 24)											
Sandia Formation				Formation												
Undeclared																
Ogallala Formation	Undeclared	1 645	San Migual											1		+
Carlile Shale	Officeciated	1,045	San Miguei													
Graneros Shale Dakota/Purgatoire Formations Morrison Formation Entrada Sandstone				Carlile Shale												
Dakota/Purgatoire Formations Morrison Formation Entrada Sandstone																
Formations														1		+
Morrison Formation																
				Morrison Formation												
				Chinie Formation		<u> </u>	<u> </u>	<u> </u>	1	<u> </u>			1	1		

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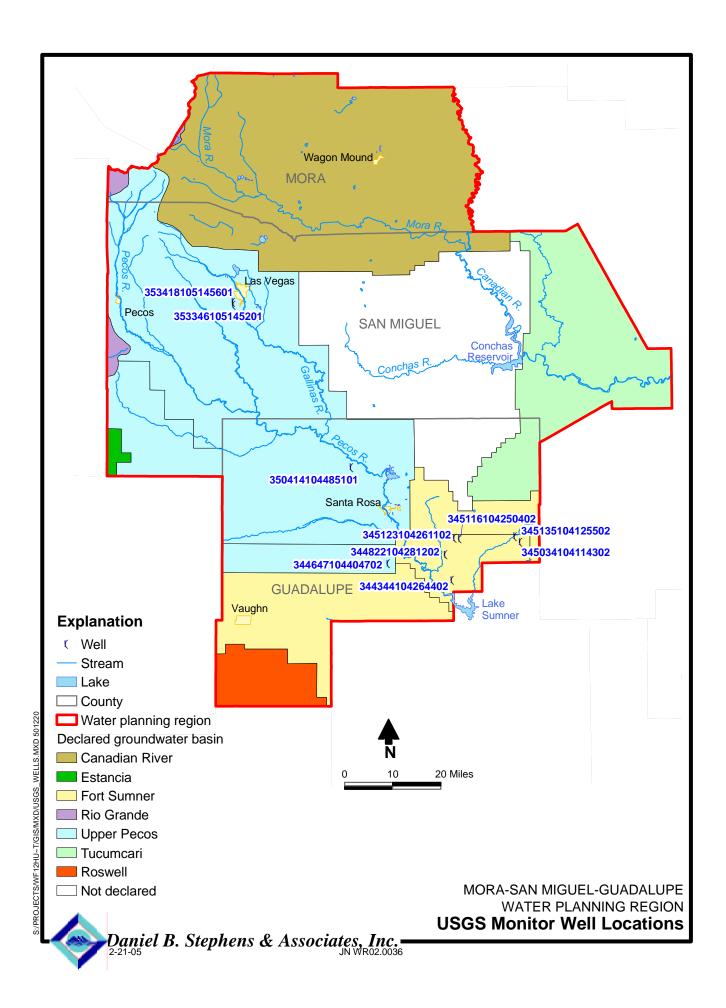
Appendix E5. Inventory of Aquifer Properties

OSE Administrative Groundwater Basin	Area (sq. miles)	County	Aquifer Name	Aquifer Thickness (ft)	Hydraulic Conductivity (ft/day)	Transmissivity (ft²/dy)	Storativity	Specific Capacity (gpm/ft)	Notes on Aquifer Parameters (how determined, test length, etc.)	Flow in Wells	Spring Flow	Stream Seepage	Areal Recharge	Flow to/from Adjacent Groundwater Basins	Water Quality Issues
Undeclared	1,645	San Miguel	Santa Rosa Sandstone				_								
(cont.)			San Andres Limestone												
			Glorieta Sandstone												
			Yeso Formation												
			Sangre de Cristo												
			Formation												
			Madera Limestone												
			Sandia Formation												
Ft. Sumner	1,136	Guadalupe	Alluvium												
			Ogallala Formation												
			Morrison Formation												
			Entrada Formation												
5 : 0 / :: 1	4 400		Chinle Formation												
Ft. Sumner (continued	1,136	Guadalupe	Santa Rosa Sandstone												
			Bernal Formation												
			San Andres Limestone												
			Glorieta Sandstone												
			Yeso Formation												
			Sangre de Cristo												
			Formation												
			Madera Limestone												
			Sandia Formation												

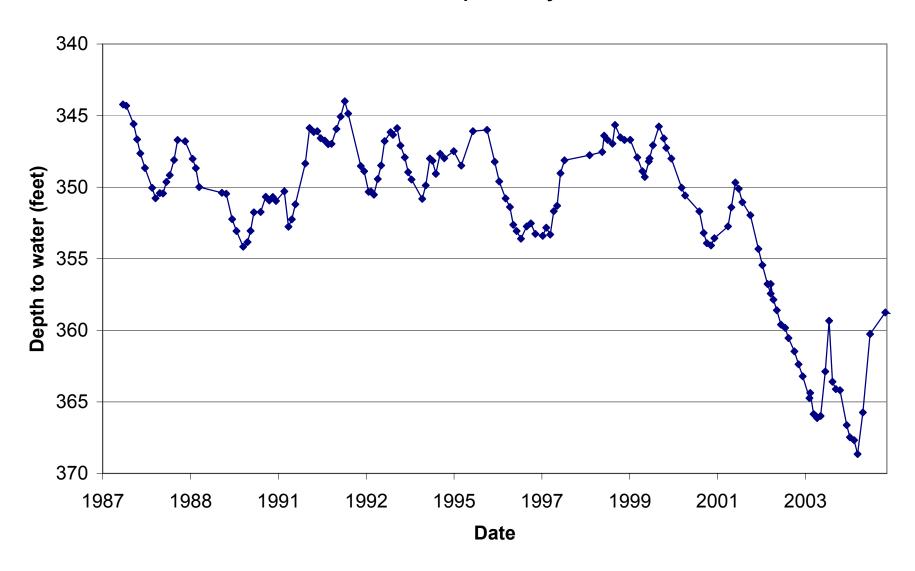
Page 3 of 3 P:_Wr02-036\RegWtrPIn.6-05\AppxE\E5_basin stats.xls

⁽a) Griggs and Hendrickson (1951)
(b) Mercer and Lappala (1972)
(c) Molzen Corbin and Assoc. (1992)
(d) Dinwiddie and Clebsch (1973)
(e) Risser (1987)
(f) Trauger (1972)
(g) Lazarus et al. (1986)
(h) Glorieta Geoscience, Inc. (1997)
(i) ASCG (2004)

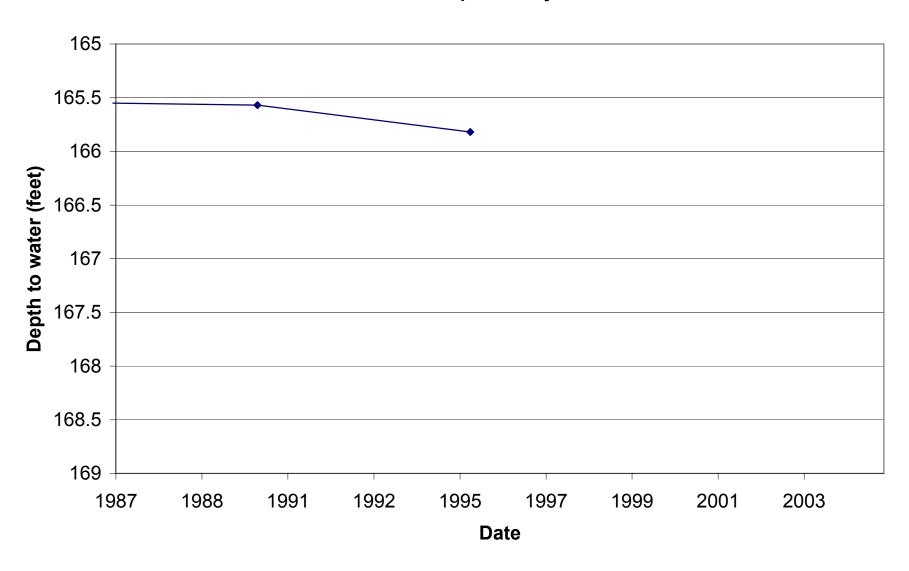
Appendix E6
Groundwater Hydrographs



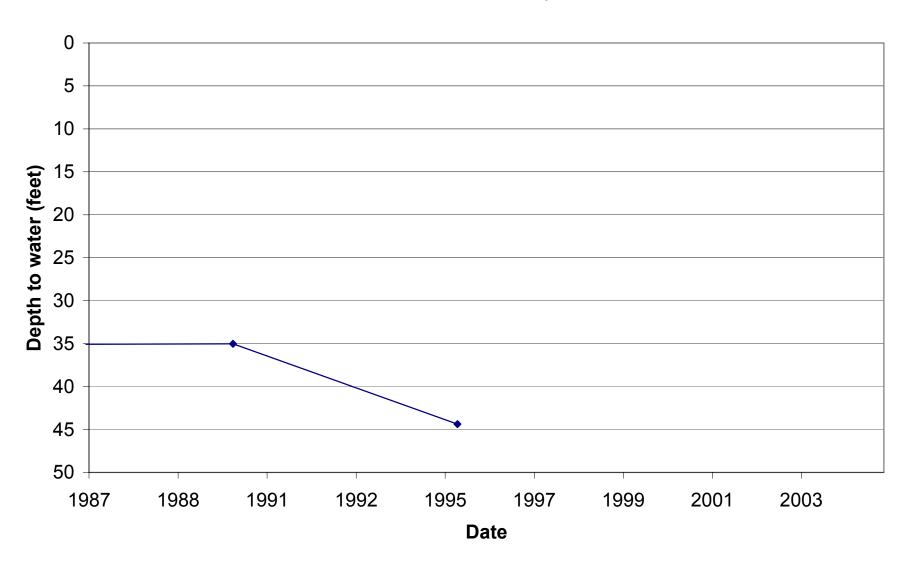
USGS 350414104485101 10N.20E.28.2241 SR-1 Guadalupe County



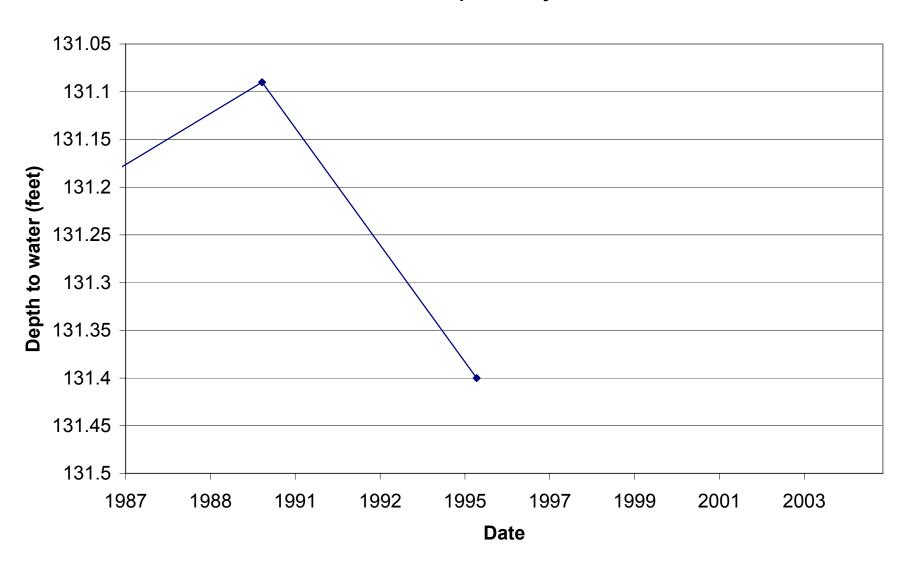
USGS 344344104264402 06N.24E.30.322333 Guadalupe County



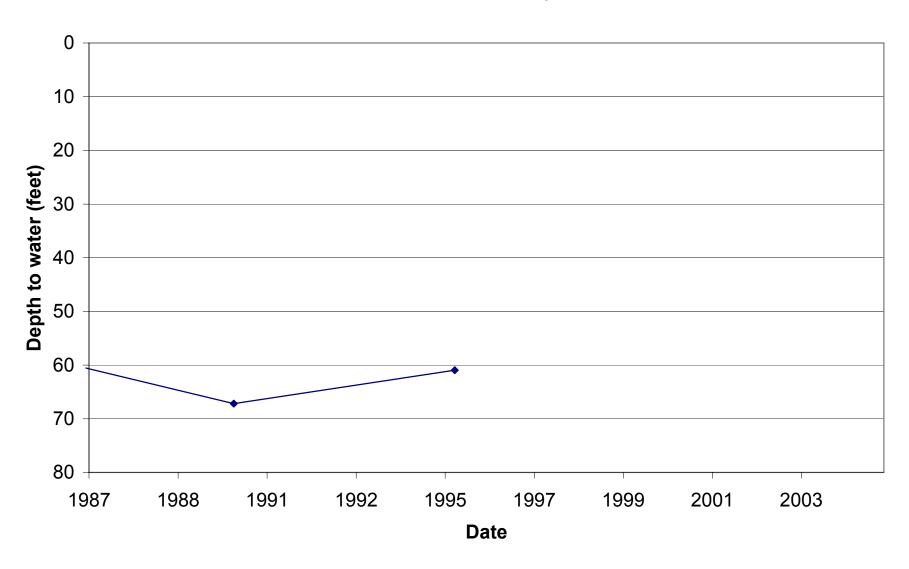
USGS 344647104404702 06N.21E.01.331433 Guadalupe County



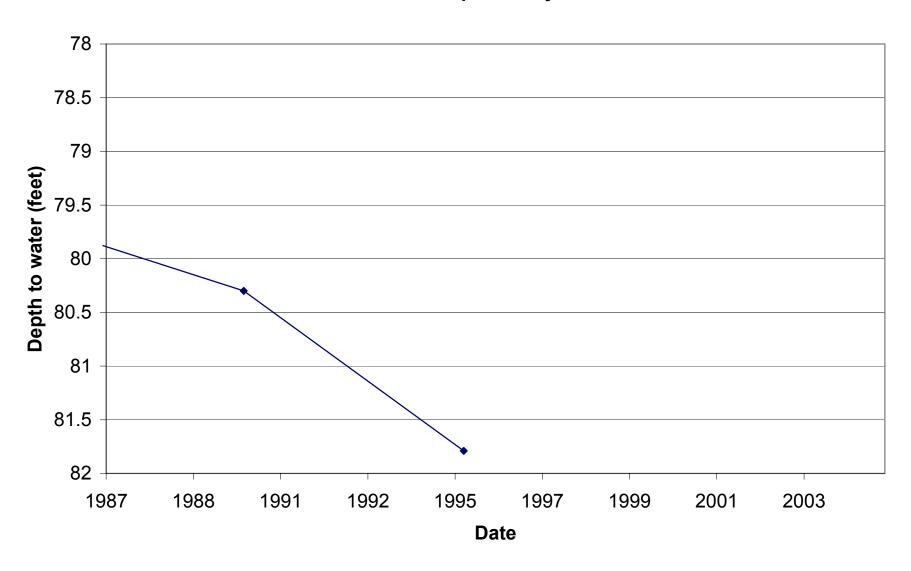
USGS 344822104281202 07N.23E.36.11332 Guadalupe County



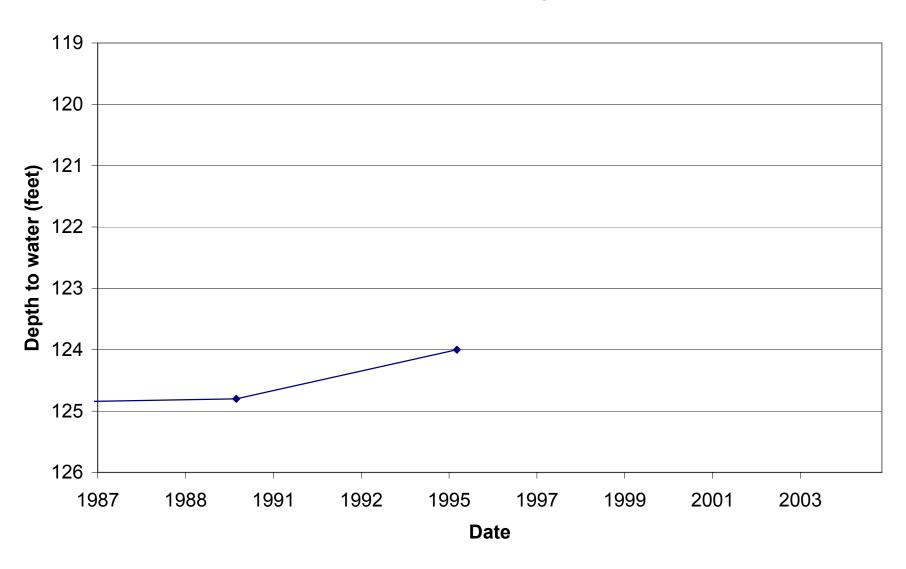
USGS 345034104114302 07N.26E.16.44133 Guadalupe County



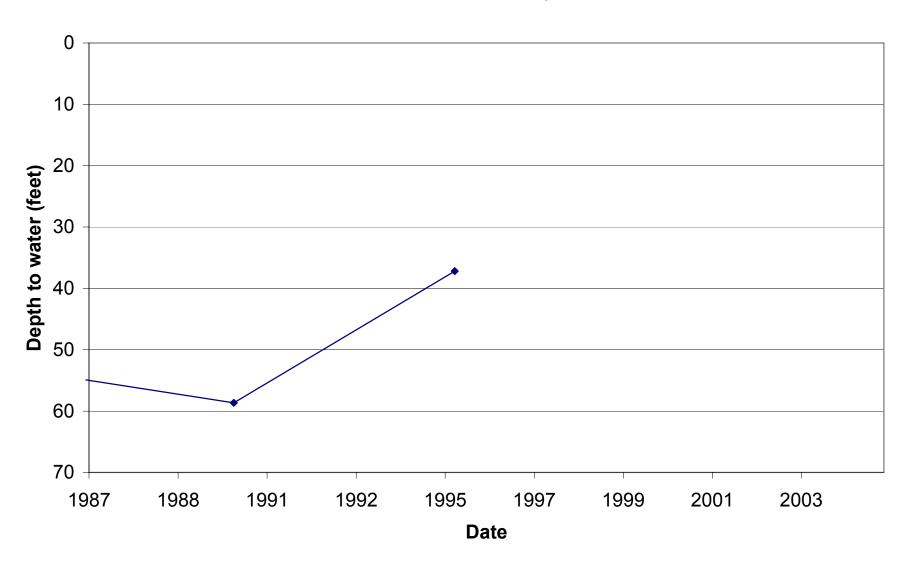
USGS 345116104250402 07N.24E.09.333323 Guadalupe County



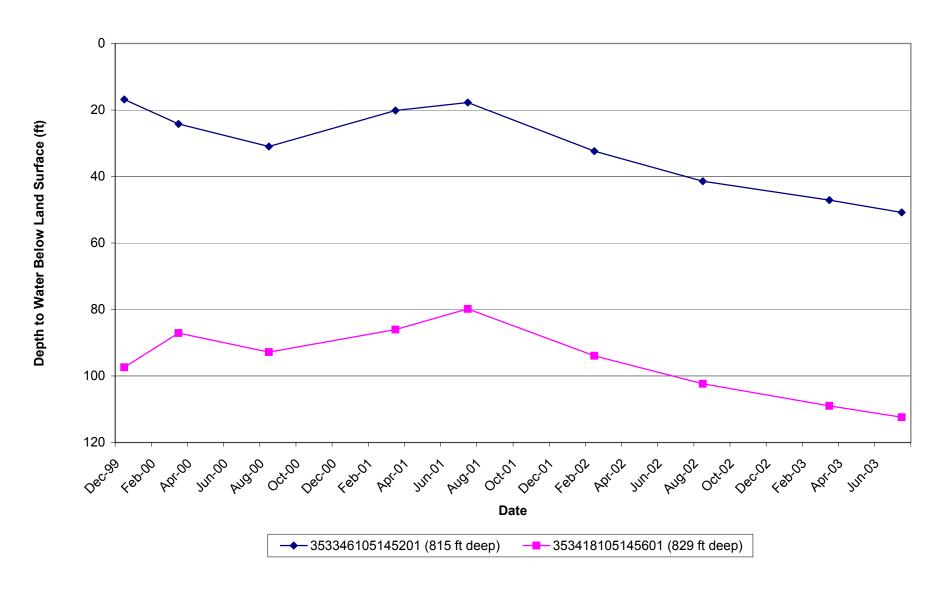
USGS 345123104261102 07N.24E.07.442421 Guadalupe County



USGS 345135104125502 07N.26E.08.41320 Guadalupe County



Water Level in Monitor Wells in the Las Vegas Area in the Santa Rosa Sandstone



Appendix E7

Mines, Mills and Quarries in the Planning Region

MINES, MILLS AND QUARRIES IN NEW MEXICO

2001

compiled by

John J. Pfeil Alysia J. Leavitt

MINING AND MINERALS DIVISION NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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Compliments of

NEW MEXICO BUREAU OF MINE INSPECTION
G. E. Miera
Phil Kozushko
Patricia Kolbenschlag
Socorro, New Mexico 87801

(505) 835-5460

Mora County

B.T.U. WATROUS PIT ▲1
Sand & Gravel

B.T.U. Block & Concrete, Inc. PO Box 578, Raton, NM 87740

(505) 445-2373

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901971 Location: Sec 4 T18N R19E USGS Quad: Watrous

Mineral Estate: Private Land; Skeet Egger; Box 22,

Waltrous, NM 87753 Surface Estate: Same

Otero County

CHAPARRAL SAND & GRAVEL PIT # 1 ▲1 Sand/Base Course/Gravel/Top Soil/Caliche

Chaparral Sand & Gravel

112 E. Lisa Drive, Box 336, Chaparral, NM 88021

(505) 824-4572

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901745 Location: Sec 27 T26S R6E USGS Quad: Newman

Mineral Estate: Private Land; Gene E. Little; 112 E.

Lisa Drive, Box 336, Chaparral, NM 88021

Surface Estate: Same

LA LUZ PIT ▲2 Sand & Gravel

Jobe Concrete Products, Inc.

#1 McKelligon Canyon Road, El Paso, TX 79930

(915) 565-4681

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2900445

Location: W/2-NE/4 Sec 34 T15S R10E USGS Quad: Alamogordo North

Mineral Estate: Private Land; Connie H. Danley Construction Co.; #1 McKelligon Canyon Road, El

Paso, TX 79930 Surface Estate: Same

LITTLE APACHE PIT ▲3
Crushed Rock/Gravel

Batte Enterprises

PO Box 309, La Luz, NM 88337

(505) 682-2006

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2902002

Location: NW/SW Sec 31 T15S R13E

USGS Quad: Cloudcroft Mineral Estate: Federal; USFS

Surface Estate: Same

ORTEGA PIT – ATMC
Sand & Gravel

Alamo Transit Mix Corp.

PO Box 1353, Alamagordo, NM 88310

(505) 437-5130

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2900417 USGS Quad: Alamogordo North Mineral Estate: Private Land

Surface Estate: Ray Quick; Rte 1, Box 1624, La Luz,

NM 88337

PAUL BLANKENSHIP'S GRAVEL PIT ▲5 Crushed Rock/Gravel/Fill Dirt/Base Course

R. D. Blankenship Dirt Work PO Box 482, La Luz, NM 88337

(505) 437-8383

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901986

Location: N/2 SW/4 NW/4 Sec 27 T15S R10E

USGS Quad: Alamogordo North

Mineral Estate: Private Land; Paul Blankenship; PO

Box 482, La Luz, NM 88337 Surface Estate: Same

TOMMY BLANKENSHIP PIT ▲6 Gravel/Fill Dirt/Other/Top Soil/Base Course

Tommy Blankenship Sand & Gravel PO Box 592, La Luz, NM 88337

(505) 437-5989

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901894 Location: Sec 22 T15S R10E USGS Quad: Alamogordo North

Mineral Estate: Private Land; Tom H. or Josephine E.

Blankenship; PO Box 592, La Luz, NM 88337

Surface Estate: Same

WWC CRUSHER #593 ▲7 Aggregate

W. W. C., Inc.

1000 Gabaldon Rd. NW, Albuquerque, NM 87104

(505) 247-9336

Type of Operation: Crusher Status: Active Mining MSHA Number: 2902098

Location: SE/4 Sec 22&27 T12S R13E

USGS Quad:

Mineral Estate: not reported

Quay County

BRUHN GRAVEL PIT Base Course/Sand & Gravel ▲1

Bruhn Enterprises, Inc.

PO Box 395, Logan, NM 88426

(505) 487-2273

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2900451 Location: Sec 21 T15N R35E USGS Quad: O-Bar

Mineral Estate: Private Land; Bruhn Enterprises, Inc.;

USGS Quad: Youngs Lake

Mineral Estate: Federal; BLM; 1235 La Plata Hwy

NM-170, Farmington, NM 87401

Surface Estate: Farmington School District; PO Box

5850, Farmington, NM 87401

MIDWAY ▲11

Sand & Gravel

Four Corners Materials, Inc. PO Box 2707, Durango, CO 81302

(970) 247-2172

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901258 Location: Sec 34 T30N R12W USGS Quad: Flora Vista

Mineral Estate: Private Land; Price Family Ltd Partnership; PO Drawer 28, Farmington, NM

Surface Estate: Same

ROSA GRAVEL PRODUCTS MINE (SE/NE SEC10)
Gravel ▲12

Rosa Gravel Products

3626 CR 330, Ignacio, CO 81137

(970) 883-2331

Type of Operation: Surface Mine

Status: Active Mining

Location: SE/NE Sec 10 T32N R6W USGS Quad: Bancos Mesa NW Mineral Estate: Private Land

Surface Estate: Rosa Joint Venture; 3626 CR 330,

Ignacio, CO 81137

ROSA GRAVEL PRODUCTS MINE (SW 1/4SEC10)
Gravel ▲13

Rosa Gravel Products

3626 CR 330, Ignacio, CO 81137

(970) 883-2331

Type of Operation: Surface Mine

Status: Active Mining

Location: SW Sec 10 T32N R6W USGS Quad: Bancos Mesa NW Mineral Estate: Private Land

Surface Estate: Rosa Joint Venture; 3626 CR 330,

Ignacio, CO 81137

ROWELL PIT ▲14

Gravel

Four Corners Materials, Inc. PO Box 2707, Durango, CO 81302

(970) 247-2172

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901258

Location: NW/NW Sec 1 T29N R14W

USGS Quad: Youngs Lake Mineral Estate: Federal; BLM

Surface Estate: San Juan Concrete Co.; 215 W. Elm

St., Farmington, NM 87401

WARREN PIT ▲15

Crushed Rock

Four Corners Materials, Inc. PO Box 2707, Durango, CO 81302 (970) 247-2172

Type of Operation: Surface Mine

Status: Active Mining

Location: SE/NE Sec 7 T29N R15W

USGS Quad: Fruitland

Mineral Estate: Private Land; Thomas J. Warren; No.

18, SJ CO. RD 6830, Waterflow, NM 87421

Surface Estate: Same

WATERFLOW PIT ▲16 Sand & Gravel

Four Corners Materials, Inc. PO Box 2707, Durango, CO 81302

(970) 247-2172

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901258

Location: NE/SW Sec T30N R15W

USGS Quad: Waterflow

Mineral Estate: Private Land; San Juan Concrete;

215 W. Elm St., Farmington, NM 87401

Surface Estate: Same

San Miguel County

ALLEN PIT

Crushed Rock Rocky Road

PO Box 1405, Las Vegas, NM 87701

(505) 425-6051

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2900502 Location: Sec 25 T18N R18E USGS Quad: Watrous

Mineral Estate: Private Land; Fred Allen; PO Box

2651, Las Vegas, NM 87701 Surface Estate: Same

ANCON PIT ▲2 Gravel

Howard's Sand & Gravel

PO Box 1456, Las Vegas, NM 87701

(505) 425-8818

Type of Operation: Surface Mine

Status: Active Mining USGS Quad: San Jose

MELTON PIT ▲3
Gravel/Fill Dirt/Base Course

Sierra Transit Mix, Inc.

PO Box 1449, Las Vegas, NM 87701

(505) 425-8833

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901327 USGS Quad: Las Vegas Mineral Estate: State Land

Howard's Sand & Gravel

PO Box 1456, Las Vegas, NM 87701

(505) 425-8818

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901119 USGS Quad: Tecolote

Mineral Estate: Private Land; Bobby Garza; Tecolote,

NM

Surface Estate: Same Sandoval County

ARP NORTH PIT ▲1 Sand & Gravel

Albuquerque Rock Products, Inc.

c/o 204 Industrial Park Loop, Rio Rancho, NM 87124

(505) 350-7155

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2902149 Location: Sec 25 T12N R3E USGS Quad: Alameda

Mineral Estate: Indian Land; Pueblo of Sandia; PO

Box 6008, Bernalillo, NM 87004

Surface Estate: Same

Waycor

204 Industrial Park Loop, Rio Rancho, NM 87124

(505) 280-8035

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901667 Location: Sec 11 T13N R4E USGS Quad: Placitas

Mineral Estate: Private Land

LOCATION #1802, PENA BLANCA
Base Course/Sand/Crushed Rock

▲3

Western Mobile New Mexico, Inc./LaFarge Corp. PO Box 27328, Albuquerque, NM 87125-7328

(505) 343-7800

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901771 Location: Sec 5 T15N R6E

USGS Quad: Santo Domingo Pueblo

Mineral Estate: Private Land

MAC #1 ▲4 Sand

Sun Country Redi Mix

PO Box 772, Bernalillo, NM 87004

(505) 867-4336

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2902117 USGS Quad: Bernalillo

Mineral Estate: Private Land; Bill McIlhaney; 602

Solar NW, Albuquerque, NM Surface Estate: Same

PENA BLANCA PIT – ULMI ▲5 Sand & Gravel

Ulibarri Landscaping Material, Inc. Rt 6 Box 5, Santa Fe, NM 87501

(505) 471-7661

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901871 Location: Sec 5 T15N R6E

USGS Quad: Santo Domingo Pueblo

Mineral Estate: Private Land

PLACITAS PIT ▲6

Crushed Rock/Sand/Other

Western Mobile New Mexico, Inc./LaFarge Corp. PO Box 27328, Albuquerque, NM 87125-7328

(505) 343-7800

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901475

Location: Sec 22,23,26,27,34,35 T13N R4E

USGS Quad: Bernalillo

Mineral Estate: Private Land; Grevey Lieberman; 2015 Wyoming NE, Albuquerque, NM 87112

Surface Estate: Same

PORTABLE CRUSHER AT ALGODONES ▲7 Gravel

J. R. Hale Contracting Co., Inc.

PO Box 25667, Albuquerque, NM 87125-0667

(505) 345-6628

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901679 Location: Sec 12 T13N R4E

USGS Quad:

Mineral Estate: Not given

Surface Estate: Private Land; Alvred and Andre Baca;

PO Box 932, Bernalillo, NM 87004

SAN PEDRO CREEK SAND AND GRAVEL MINE Base Course ▲8

Sparling Const. Co, Inc.

PO Box 90548, Albuquerque, NM 87199

(505) 821-1034

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2902154 USGS Quad: Sandia Park

Mineral Estate: Private Land; Campbell Farming Corp.; 6757 Academy Road NE #A, Albuquerque,

NM 87109

Surface Estate: Same

SANTA ANA PIT/RIO GRANDE AGGREGATES ▲9
Fill Dirt/Crushed Rock/Base Course/Rip Rap
(Gabion)/Sand & Gravel

Western Mobile New Mexico, Inc./LaFarge Corp. PO Box 27328, Albuquerque, NM 87125-7328

(505) 343-7800

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901634 Location: Sec 14,15,22 T13N R4E

USGS Quad: Placitas

Mineral Estate: Indian Land; Santa Ana Pueblo; 1000