Harding Lawson Associates

November 29, 1988

U. S. Environmental Protection Agency
Region VI
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

Attention: Mr. Guy Tidmore

Reference: Contamination Assessment Plan

Dear Mr. Tidmore:

Pursuant to the requirements of Section IV. A.2 of the Consent Order, we herewith submit the Task I report (Description of Current Situation) of the Contamination Assessment Plan (CAP) for Sparton Technology's Coors Road facility.

As we agreed, we have followed the format in the CAP and have attempted to reference the reader to the appropriate reports which contain the information called for in the CAP outline.

If you have any questions, please do not hesitate to contact the undersigned.

Very truly yours,

for/ Richard D. Mico
Vice President and General Manager
Sparton Technology, Inc.

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HAZARDOUS WASTE SECTION

RDM/mlf
0603S

cc: Hazardous Waste Bureau
New Mexico Environmental Improvement Division
New Mexico Health and Environmental Department
1190 St. Francis Drive
Santa Fe, New Mexico 87503

OGC-003221

Engineers and Geoscientists | 6220 Westpark Dr. Suite 100 Houston, TX 77057 | Telephone 713/789-8050 | Arizona Alaska California | Colorado Hawaii Nevada | Texas Telecopy 713/789-1029

A Report Prepared for:

Sparton Technology, Inc.
4901 Rockaway Boulevard, SE
Rio Rancho, New Mexico

CONTAMINATION ASSESSMENT PLAN
RCRA FACILITY INVESTIGATION - TASK I

HLA Job No. 6310,039.12

by

R.M. Cordova
Associate Hydrologist

Jay E. Mabrey, P.E.
Associate Environmental Engineer

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NOV 30 1988

HAZARDOUS WASTE SECTION

Harding Lawson Associates
6220 Westpark Drive, Suite 100
Houston, Texas 77057
Telephone: (713) 789-8050

November 29, 1988

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Attachment 3 Water Well Locations

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Figure 6 Existing Wells

Figure 7 Areas of Storage/Disposal of Hazardous Materials

Figure 8 Site Location Map

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TASK I: DESCRIPTION OF CURRENT CONDITIONS

This report is submitted to the U.S. Environmental Protection Agency (EPA) pursuant to the requirements of Section IV.A.2 of the Consent Order. This report includes the information required in Task I of the RCRA Facility Investigation (RFI) portion of the Correction Action Plan (CAP) for Sparton Technology, Inc. (Sparton) located in Albuquerque, New Mexico. The background information is discussed under three main headings: (A) Facility Background, (B) Nature and Extent of Contamination, and (C) Implementation of Interim Measures. Sparton has maintained a continuing investigatory program of its facility and several reports have been prepared; copies of these reports have been submitted to U.S. EPA under the title of Compilation of Investigative Reports, Volumes 1 and 2. Also, frequent reference is made in this report to the previously prepared reports, and these are listed in Table 1. The discussion in this report parallels the outline presented by EPA in its Exhibit 1, Corrective Action Plan, attached to the Order on Consent for the Sparton facility.

A. Facility Background

This section of the Task I report summarizes by maps and reports the regional location, pertinent boundary features, general facility physiography, hydrogeology, and historical use of the facility for the treatment, storage or disposal of solid and hazardous waste.

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TABLE 1

FACILITY INVESTIGATION REPORTS
SPARTON TECHNOLOGY, INC.
COORS ROAD FACILITY
ALBUQUERQUE, NEW MEXICO

No. of Report Referred to in this Report	Date of Report	Report Title
1	6/29/83	Groundwater Monitoring Program, Sparton Southwest, Inc., 9621 Coors Road, Northwest, Albuquerque, New Mexico; Harding Lawson Associates (includes: Monitoring Well Installation Report, Sparton Southwest, Inc., Coors Road).
2	3/19/84	Investigation of Soil and Groundwater Contamination, Sparton Technology, Inc., Coors Road Facility, Albuquerque, New Mexico; Harding Lawson Associates.
3	3/13/85	Hydrogeologic Characterization and Remedial Investigation, Sparton Technology, Inc., 9621 Coors Road, Northwest, Albuquerque, New Mexico 87114; Harding Lawson Associates.
4	5/07/85	Hazardous Waste Facility Closure Plan, Sparton Technology, Inc., Coors Road Plant, Albuquerque, New Mexico; Harding Lawson Associates.
5	6/30/86	Soil Investigation of the Unsaturated and Upper Saturated Zones, Sparton Technology, Inc., Coors Road Plant, Albuquerque, New Mexico; Harding Lawson Associates.
6	7/15/86	Vertical Profiling Program, Sparton Technology, Inc., Coors Road Plant, Albuquerque, New Mexico; Harding Lawson Associates.

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TABLE 1
(Continued)

FACILITY INVESTIGATION REPORTS
SPARTON TECHNOLOGY, INC.
COORS ROAD FACILITY
ALBUQUERQUE, NEW MEXICO

No. of Report Referred to in this Report	Date of Report	Report Title
7	4/87	Aquifer Testing, Sparton Technology, Inc., Coors Road Plant, Albuquerque, New Mexico; Metric Corporation.
8	07/23/87	Corrective Measure Study Report, Sparton, Technology, Inc.; Coors Road Plant Albuquerque, New Mexico; Harding Lawson Associates.
9	10/19/87	Off-Site Investigation, Sparton Technology, Inc., Coors Road Plant, Albuquerque, New Mexico; Harding Lawson Associates.
10	3/3/88	Definition of groundwater contaminant plume, Sparton Technology, Inc., Coors Road Facility, Albuquerque, New Mexico; Harding Lawson Associates.
11	10/25/88	Interim Measures Work Plan, a report prepared for Sparton Technology, Inc., Coors Road facility, Albuquerque, New Mexico; Harding Lawson Associates.

1. Maps (See Table 2)

TABLE 2

LIST OF MAPS AND PLANS
ATTACHED TO THIS REPORT

Figure No. for Map/Plan	Title
1	Site Location Map
2	Survey and Utilities Map
3	Pond and Sump Area
4	Plot Plan
5	Land Use Map
6	Existing Wells
7	Areas of Storage/Disposal of Hazardous Materials
8	Apparent Land Ownership Map

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a. General geographic location: refer to Figure 1.

b. Property lines: refer to Figures 2 and 8.

c. Surface drainage: refer to Figure 1 and 4.

d. Facility construction features: refer to Figures 2 and 6.

e. Solid or hazardous waste TSD areas active after November 19, 1980:

Sparton has operated four hazardous waste storage units at its Coors Road facility which have received wastes after November 19, 1980. These units include two lined surface impoundments (ponds) and two drum storage areas.

The location of these units is shown on Figure 7.

f. Past solid or hazardous waste TSD areas: besides the units indicated in le above, Sparton also operated a waste solvent storage sump, which was closed in October 1980. Since this date is prior to the effective date of

40 CFR 265, Subtitle C, this sump is not regulated under New Mexico's or federal HWM regulations. The location of the sump is shown on Figure 7.

g. Product and waste tanks or piping: refer to Figures 2 and 3.

h. Surrounding land uses: refer to Figure 5.

i. Surrounding water uses: refer to Figure 1.

j. Location of wells: see Figure 6. Construction and other pertinent well information is detailed in Attachments 1 and 4 of the Interim Measures Work Plan prepared for Sparton Technology, Inc. by Harding Lawson Associates and filed with EPA October 28, 1988.

k. Location, date, type of material released: refer to Figure 7.

2. History and description of ownership and operation: refer to report No. 4 in Table 1, specifically Sections I, II, III.

3. Approximate dates, identity and other information on releases: gradual releases of hazardous waste apparently occurred prior to 1980. The releases were from two surface impoundments (ponds) and a sump. The contaminants included in general, waste organic solvents and metals. The solvents are principally 1,1-dichloroethylene, methylene chloride, 1,1,1-trichloroethane (TCA), and trichloroethylene (TCE); the principal metal is chromium. For detailed discussions, refer to the following reports in Table 1: Nos. 2, 4, 5, 6, 8.

4. Summary of past permits, enforcement actions, etc.: The facility presently operates as a less-than-90-day storage facility, but was operating under RCRA interim status. Its Part A Permit had been applied for January 6, 1983 but was withdrawn. A post-closure care permit application has been made to EID for the pond area (refer to Report 4 in Table 1). Also, a Final Administrative Order on Consent was entered into by EPA and Sparton Technology, Inc., pursuant to Section 3008(h) of RCRA, 42 U.S.C. Section 6928(h). This Final Order was effective on October 1, 1988.

B. Nature and Extent of Contamination

This section of the Task I report includes a description of the existing information on the nature and extent of contamination.

1. Plume Delineation: refer to reports 5, 6, 9, and 10 in Table 1.

2. Environmental Setting

   a. Hydrogeology: refer to reports 1, 2, 3, 5, 6, 7, and 8 in Table 1.

   b. Soils: refer to reports 1, 2, 3, and 5 in Table 1.

   c. Surface Water and Sediment: The only perennial stream in the area is the Rio Grande river which is about 3,000 feet east of the site. Tributaries of the river in the vicinity of the site flow intermittently when there is heavy precipitation. A stream gaging station is maintained by the U.S.G.S at the Highway 66 bridge in Albuquerque, downstream from the site. Stream-flow, water quality, and sediment data are included in Attachment 1, titled Water Resources Data of New Mexico.

   d. Air: Climatic data are in Attachment 2 - (Climatological Data Annual Summary, New Mexico 1987; see Division 5 data, Central Valley).

      Probably the main air currents follow the valley of the Rio Grande, but air currents that are more seasonal in nature also originate in the nearby ridges. The buildings of the facility and also near the site are one-story and probably do not substantially change wind patterns.

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The site does not have significant fugitive air emissions because the manufacturing and related operations are carried out in a closed facility.

3. Source Characterization

This section of the Task I report includes the available information that characterizes the wastes. Refer to reports 3, 4, 5, and 6 in Table 1.

4. Contamination Characterization

This section of the Task I report includes data on contamination of groundwater and soil in the vicinity of the facility. Refer to reports 3, 5, 6, 8, 9, and 10 in Table 1.

5. Potential Receptors

This section of the Task I report includes information on the human population and environmental systems that are susceptible to exposure from contaminants from the facility. The potential receptors include humans and livestock using water from wells downgradient from the site. Water wells in the vicinity of the site are shown in Attachment 3.

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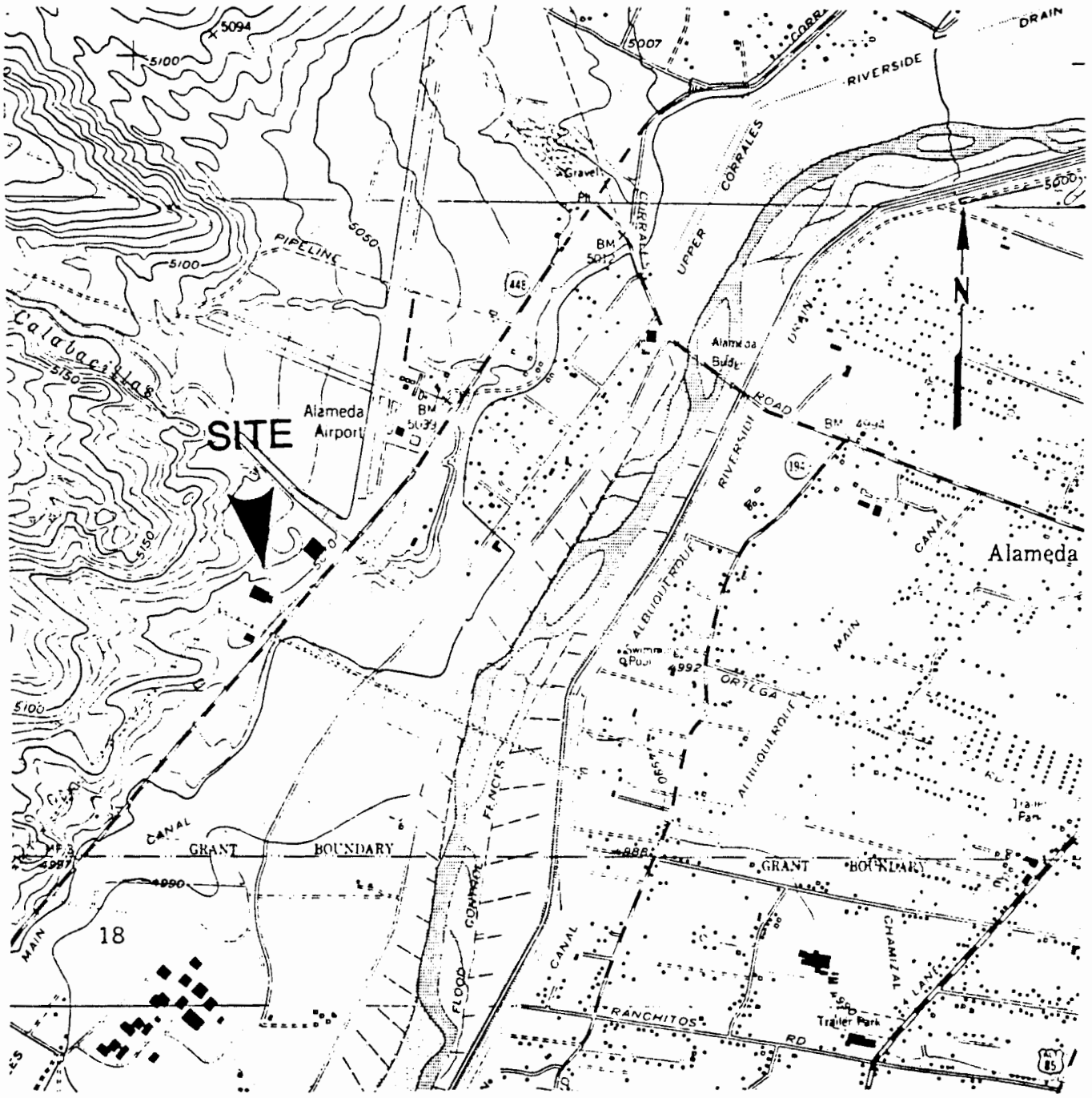
C. Implementation of Interim Measures

Closure of certain facilities as described in Paragraph II.6 of the Consent Order have been completed. There are no additional interim measures which are being undertaken at the facility other than those specified in the order.

FIGURES



1000 0 1000 2000 FEET

CONTOUR INTERVAL 10 FEET

Ref: U.S.G.S. Topographic Map, Los Griegos, N. Mex., 7.5 Quadrangle.

Harding Lawson Associates
Engineers, Geologists & Geophysicists

SITE LOCATION PLAN
Sparton Technology Inc.
Coors Road Facility
Albuquerque, New Mexico

FIGURE **1**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
CS.	6310,039.12	EM	11/88		

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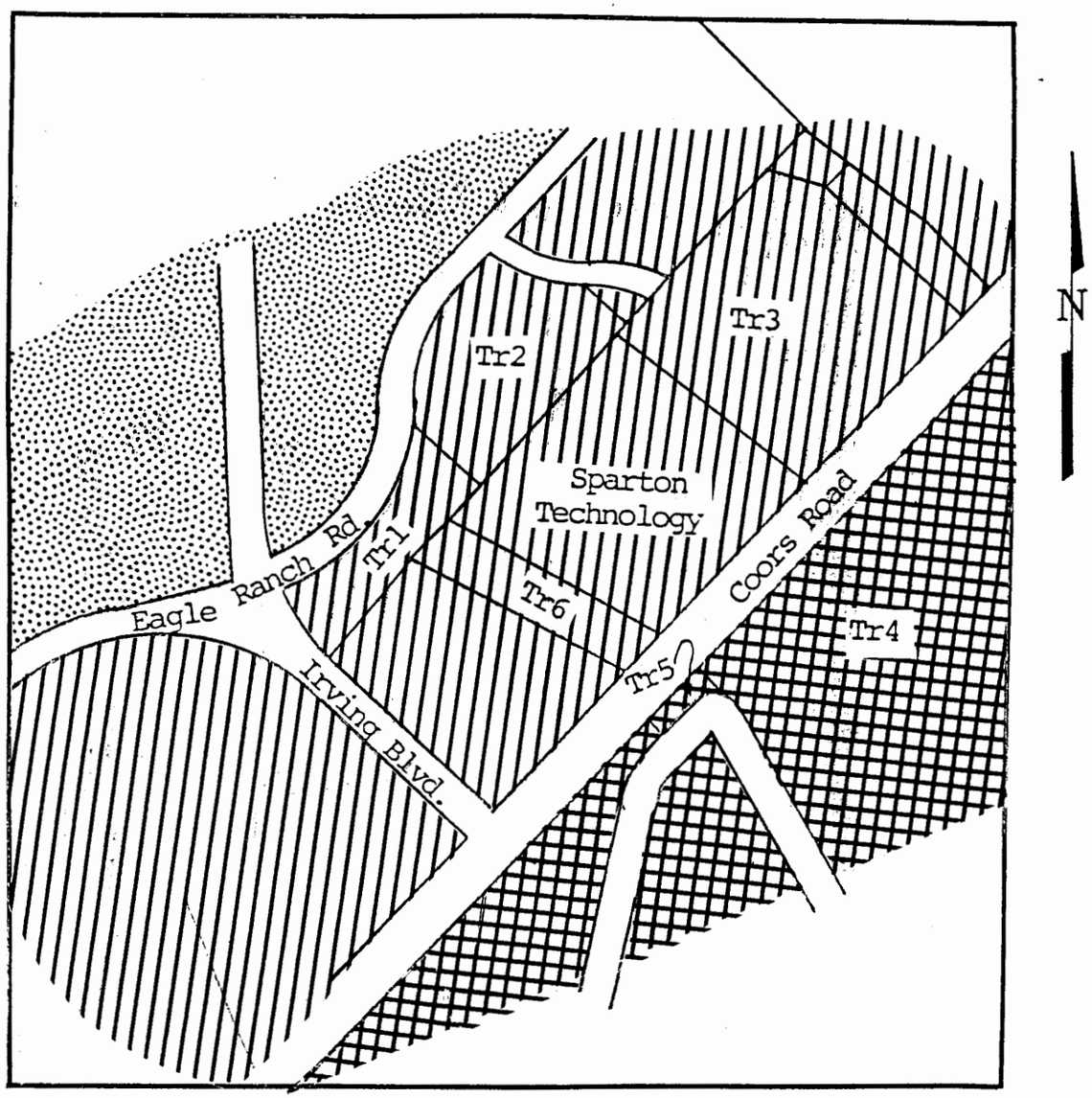
TO VIEW THE MAP AND/OR MAPS WITH THIS DOCUMENT, PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT



SCALE:1"=530'

LEGEND

- RESIDENTIAL
- COMMERCIAL
- UNDEVELOPED

Harding Lawson Associates
Engineers and Geoscientists

LAND USE MAP
Sparton Technology, Inc.
Coors Road Plant
Albuquerque, New Mexico

FIGURE **5**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
CS	6310,039.12	EM	11/88		

OGC-003240

Harding Lawson Associates
Engineers, Geologists & Geophysicists

EXISTING WELLS

Sparton Technology, Inc.
Albuquerque, New Mexico

FIGURE 6

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
EB.	6310.039.12	EM	10/88	EM	11-29-88

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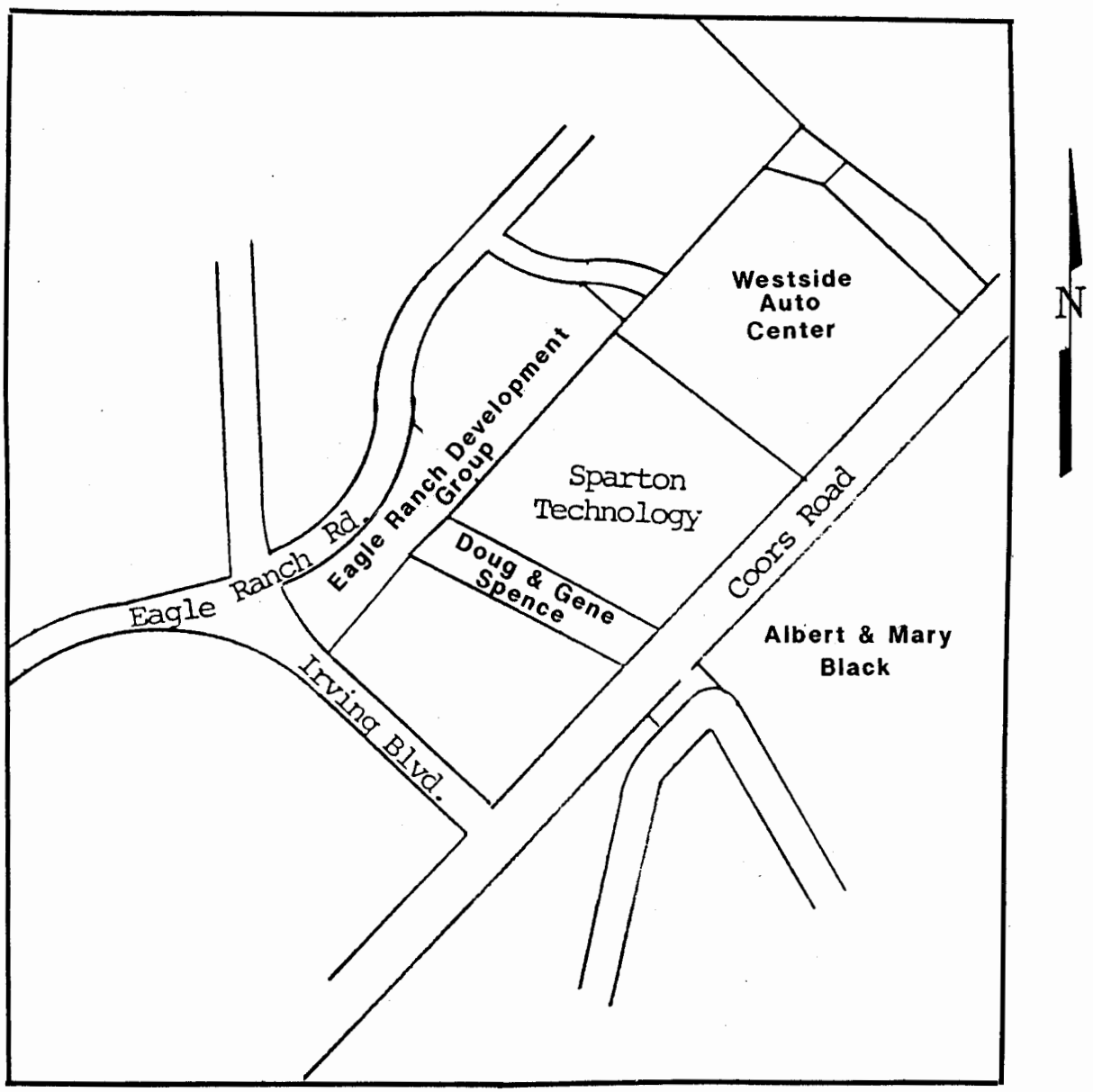

SCALE:1"=530'

Harding Lawson Associates
Engineers and Geoscientists

APPARENT LAND OWNERSHIP MAP

Sparton Technology, Inc.
Coors Road Plant
Albuquerque, New Mexico

FIGURE **8**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
ES.	6310,039.12	KM	11/88		

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ATTACHMENT 1

WATER RESOURCES DATA FOR NEW MEXICO

08330000 RIO GRANDE AT ALBUQUERQUE, NM

LOCATION.--Lat 35°05'21", long 106°40'48", Bernalillo County, Hydrologic Unit 13020203, in Atrisco Grant, on downstream side of Central Ave. bridge in Albuquerque, and at mile 1,540.0.

DRAINAGE AREA.--17,440 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1312: 1946(M).

GAGE.--Water-stage recorder. Datum of gage is 4,946.16 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 18, 1947, at various sites at datum about 2.00 ft higher; Sept. 15, 1982, to Sept. 20, 1983, at site 1.0 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 26 to Aug. 3 and Aug. 15-17. Records good except for estimated daily discharges, which are poor. Flow completely regulated since November 1973 by Cochiti Dam (station 08317300) 50 mi upstream. Possible regulation by operation of reservoirs on Rio Chama and by flood-and-silt-detention reservoirs on Galisteo Creek and Jemez River (stations 08285000, 08286900, 08317900, 08328500). Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510). Diversions upstream from station for irrigation of about 718,000 acres, several hundred of which are downstream from station. National Weather Service gage height telemeter and U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records for Albuquerque Riverside drain and Arenal, Armijo, and Atrisco canals provided by Middle Rio Grande Conservancy District.

AVERAGE DISCHARGE.--32 years (water years 1942-73), 1,068 ft³/s, 773,800 acre-ft/yr, prior to closure of Cochiti Dam.
14 years (water years 1974-87), 1,496 ft³/s, 1,084,000 acre-ft/yr, since closure of Cochiti Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s, Apr. 24, 1942, from rating curve extended above 13,900 ft³/s; maximum gage height, 7.82 ft, Aug. 10, 1967; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,840 ft³/s, at 2045 hours July 24, gage height, 6.84 ft; minimum daily, 138 ft³/s, Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1860	1860	1670	2780	1830	2730	3110	4560	4650	3600	424
2	1080	3080	1820	1630	2970	1810	2800	3300	4530	4650	3850	401
3	1080	2860	1830	1660	2890	1840	2760	3330	4600	4830	3480	388
4	778	2820	1830	1660	3000	1790	2830	3410	4600	4870	3650	372
5	804	2870	1860	1500	2890	1750	2770	3480	4660	4930	3000	367
6	1000	2270	2280	1440	2310	2020	2680	3470	4870	4980	2710	356
7	935	2050	2480	1400	1420	2190	2670	3390	5000	4910	2690	350
8	880	2320	2530	1360	1260	2240	2630	3780	4990	4850	1200	343
9	746	2550	2490	1330	1250	2250	2630	4290	4550	4810	720	341
10	841	2220	2300	1330	2890	2430	2620	4310	3770	4760	673	344
11	1260	2310	2220	1330	3480	2570	2450	4360	3420	4750	934	345
12	1520	2450	2250	1180	3520	2530	2450	4360	3320	5230	824	530
13	1400	2390	2300	1130	3640	2560	2420	4410	3310	5210	557	635
14	1400	2330	2340	1220	3690	2670	2290	4520	3340	5230	430	492
15	1790	2480	2380	1310	3660	2730	2250	4480	3390	5230	440	336
16	2240	2510	2620	1170	3690	2820	2720	4770	3370	5250	460	333
17	1920	2700	2770	1100	3650	2870	2260	4730	3340	5280	450	331
18	1490	2460	2770	1210	3670	2870	1540	4700	3310	5590	420	338
19	1430	2500	2510	1190	3770	2600	823	4610	3260	5680	218	339
20	1510	2680	2400	1030	3690	2770	735	4480	3770	5820	149	336
21	1350	2730	2390	887	3610	3230	699	4570	3870	5820	138	343
22	1590	1430	2390	935	3530	3350	1170	4580	3890	6120	197	347
23	1690	1780	2440	1020	3440	3260	2600	4580	3790	6080	335	352
24	1780	1880	2380	1050	3140	3350	2730	4640	3730	5990	402	362
25	1890	2020	2330	1250	3020	2870	2780	4680	3700	5120	519	375
26	1660	1920	2310	1720	2930	2590	2870	4580	3620	3910	520	387
27	1730	1900	2300	1790	2780	2490	2930	4500	3570	3800	543	399
28	1200	1920	2290	1840	2090	2410	2940	4500	3550	3850	505	399
29	674	1900	2260	1900	---	2410	2930	4560	3510	4000	486	404
30	609	1880	1840	2210	---	2420	3010	4590	3950	3950	464	410
31	605	---	1800	2810	---	2520	---	4590	---	3800	433	---
TOTAL	40022	69070	70570	44262	84660	78040	71717	131660	117140	153950	34997	11479
MEAN	1291	2302	2276	1428	3024	2517	2391	4247	3905	4966	1129	383
MAX	2240	3080	2770	2810	3770	3350	3010	4770	5000	6120	3850	635
MIN	605	1430	1800	887	1250	1750	699	3110	3260	3800	138	331
AC-FT	79380	137000	140000	87790	167900	154800	142300	261100	232300	305400	69420	22770
(†)	12630	2370	1060	877	526	6000	15920	19150	18440	10140	15280	15000

CAL YR 1986	TOTAL	928542	MEAN	2544	MAX	4670	MIN	605	AC-FT	1842000	(†)	1238000
WTR YR 1987	TOTAL	907567	MEAN	2486	MAX	6120	MIN	138	AC-FT	1800000	(†)	1264000

(†) COMBINED FLOW, IN ACRE-FEET, OF ALBUQUERQUE DRAIN, AND ARENAL, ARMIJO AND ATRISCO CANALS. THIS FLOW, WHICH BYPASSES RIVER GAGE, CAN BE ADDED TO RIVER RECORDS TO GET THE ENTIRE FLOW IN VALLEY CROSS SECTION.

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08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to current year.
WATER TEMPERATURES: October 1969 to current year.
SUSPENDED-SEDIMENT DISCHARGES: May 1969 to September 1969 (partial-record station), October 1969 to current year.

REMARKS.--Additional sediment total-discharge determinations were made monthly when needed.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,840 microsiemens, Oct. 12, 1974; minimum daily, 115 microsiemens, Aug. 14, 1980.
WATER TEMPERATURES: Maximum daily, 34.0°C, July 12, 1970; minimum daily, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 45,500 mg/L, July 21, 1971; minimum daily mean, no flow on many days in 1971, 1972, and 1977.
SEDIMENT LOADS: Maximum daily, 275,000 tons, July 27, 1971; minimum daily, 0 ton on many days in 1971, 1972, and 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 533 microsiemens, Oct. 16; minimum daily, 232 microsiemens, June 2.
WATER TEMPERATURES: Maximum daily, 20.0°C, Aug. 16, 22, and Sept. 1; minimum daily, 2.0°C, several days in Jan.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 867 mg/L, Aug. 24; minimum daily mean, 20 mg/L, Jan. 24.
SEDIMENT LOADS: Maximum daily, 3,600 tons, May 5; minimum daily, 14 tons, Aug. 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM) (90095)	PH (STAND-ARD UNITS) (00400)	PH LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	HARD-NESS (MG/L AS CACO3) (00900)
NOV											
07...	0930	2030	350	368	8.05	8.00	6.0	9.0	--	31	130
FEB											
03...	1140	2810	325	363	7.90	8.20	12.0	5.0	11.5	--	130
MAR											
03...	1045	1840	385	363	8.30	7.99	12.0	5.0	11.4	--	130
JUN											
02...	0915	4560	232	251	7.30	8.10	22.5	14.5	8.0	--	87
SEP											
01...	1000	382	450	--	8.47	--	28.0	20.0	8.3	<10	130

DATE	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3 (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV											
07...	23	42	7.0	27	1	3.4	111	59	12	0.40	21
FEB											
03...	16	39	6.9	23	0.9	2.8	110	61	14	0.40	21
MAR											
03...	25	39	7.6	24	1	2.5	104	66	9.7	0.30	19
JUN											
02...	10	27	4.8	15	0.7	2.8	77	39	5.1	0.30	19
SEP											
01...	21	40	7.5	24	1	2.9	110	71	11	0.30	16

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
NOV											
07...	240	0.200	0.220	0.030	0.27	0.50	0.110	0.040	3.1	60	14
FEB											
03...	230	--	--	--	--	--	--	--	--	60	28
MAR											
03...	230	--	--	--	--	--	--	--	--	50	14
JUN											
02...	160	--	--	--	--	--	--	--	--	30	63
SEP											
01...	240	<0.100	<0.100	0.010	0.79	--	0.090	0.040	4.6	60	15

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08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
NOV									
07...	0930	3	3	<1	1	<10	<10	11	2

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV								
07...	42	<5	<0.10	<0.1	<1	<1	20	3

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90) (80060)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L) (80020)
NOV								
07...	4.4	<0.4	4.9	<0.4	3.7	<0.4	0.07	2.7

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, DISCH, SUSP. + BED MA-TERIAL (T/DAY) (80156)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)
OCT											
21...	1200	1240	--	--	--	--	--	--	--	--	--
JAN											
09...	1400	1330	367	5.0	181	650	1000	13	--	--	--
FEB											
03...	1140	2810	325	5.0	101	766	1170	61	--	--	--
MAR											
03...	1045	1840	385	5.0	174	864	280	88	--	--	--
APR											
02...	1500	2800	428	11.5	170	1290	1920	59	--	--	--
MAY											
05...	1220	3400	327	14.5	850	7800	11000	8	--	--	--
JUN											
02...	0915	4560	232	14.5	330	4060	5860	20	--	--	--
15...	1329	3390	328	18.5	280	2560	3750	14	--	--	--
AUG											
12...	1000	909	--	18.0	488	1200	1810	100	--	32	69
18...	0930	420	451	19.0	271	307	485	18	--	--	--
25...	1100	636	--	18.0	750	1290	1940	99	100	28	67
27...	0900	543	--	16.0	674	988	--	99	100	40	70
SEP											
01...	1000	382	450	20.0	75	77	128	94	--	--	--
28...	0900	399	--	15.0	415	447	--	100	--	37	65

OGC-003247

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)
OCT											
21...	--	0	1	14	62	81	86	89	92	96	100
JAN											
09...	--	--	--	--	--	--	--	--	--	--	--
FEB											
03...	--	--	--	--	--	--	--	--	--	--	--
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	--	0	1	13	67	89	97	99	100	--	--
JUN											
02...	--	--	0	7	65	95	98	99	99	100	--
15...	--	--	0	7	55	89	96	98	100	--	--
AUG											
12...	91	--	--	--	--	--	--	--	--	--	--
18...	--	--	0	5	41	87	97	99	100	--	--
25...	90	--	--	--	--	--	--	--	--	--	--
27...	99	--	--	--	--	--	--	--	--	--	--
SEP											
01...	--	0	1	7	50	78	91	98	100	--	--
28...	95	--	--	--	--	--	--	--	--	--	--

DATE	TIME	PCB, TOTAL (UG/L) (39516)	ALDRIN, TOTAL (UG/L) (39330)	CHLOR-DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-AZINON, TOTAL (UG/L) (39570)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDO-SULFAN, TOTAL (UG/L) (39388)
JUN										
02...	0915	--	--	--	--	--	--	--	--	--
SEP										
01...	1000	<0.1	<0.010	<0.1	<0.010	<0.010	<0.010	0.01	<0.010	<0.010

DATE	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	MALA-THION, TOTAL (UG/L) (39530)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	METHYL PARA-THION, TOTAL (UG/L) (39600)	METHYL TRI-THION, TOTAL (UG/L) (39790)
JUN									
02...	--	--	--	--	--	--	--	--	--
SEP									
01...	<0.010	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01

DATE	PARA-THION, TOTAL (UG/L) (39540)	TOX-APHENE, TOTAL (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PER-THANE TOTAL (UG/L) (39034)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L) (39250)	MIREX, TOTAL (UG/L) (39755)
JUN									
02...	--	--	--	<0.01	<0.01	<0.01	--	--	--
SEP									
01...	<0.01	<1	<0.01	--	--	--	<0.1	<0.10	<0.01

OGC-003248

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	503	422	380	368	357	367	466	358	270	296	337	437
2	496	370	375	364	350	364	426	340	268	290	338	425
3	463	368	378	362	365	392	429	335	270	299	329	431
4	449	435	374	356	380	392	---	324	270	298	335	425
5	405	444	384	367	362	390	---	325	249	299	339	429
6	392	404	369	360	348	382	422	312	308	300	343	426
7	448	399	367	368	361	386	425	302	311	297	343	431
8	480	392	361	360	387	381	423	295	314	296	358	426
9	488	379	381	378	397	384	424	291	312	294	391	427
10	475	387	362	371	379	380	424	287	334	293	396	428
11	442	385	366	378	354	396	432	288	336	281	335	431
12	429	381	355	384	346	392	433	286	333	293	---	433
13	438	384	366	317	350	384	432	284	332	295	400	436
14	450	371	362	268	342	382	432	287	329	292	415	433
15	489	374	371	412	345	390	441	288	329	297	426	439
16	533	367	372	395	338	386	437	290	325	295	433	434
17	521	368	385	---	343	406	423	291	326	289	438	437
18	492	358	378	375	339	409	416	293	327	287	436	434
19	450	359	383	342	341	371	442	290	322	---	460	438
20	439	356	365	370	338	384	441	287	303	---	441	436
21	472	352	374	383	345	392	443	287	301	---	441	440
22	482	373	367	313	339	381	436	280	300	---	350	436
23	450	384	387	352	349	412	419	283	298	---	---	440
24	431	383	381	349	353	418	397	288	297	---	327	434
25	416	398	390	364	359	428	383	289	297	---	---	437
26	408	414	387	345	355	430	383	276	296	---	377	435
27	413	---	394	342	364	416	377	274	299	---	---	444
28	390	---	329	340	353	412	372	273	299	328	426	---
29	420	---	347	377	---	417	366	273	302	336	442	437
30	407	378	356	374	---	411	304	270	301	336	436	434
31	420	---	388	361	---	436	---	271	---	336	442	---
MEAN	451	385	372	360	355	396	416	294	305	301	390	434

WTR YR 1987 MEAN 373 MAX 533 MIN 249

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	10.0	9.0	11.0	6.0	10.0	10.0	12.0	16.0	15.0	18.0	18.0
2	10.0	10.0	11.0	10.0	6.0	10.0	9.0	13.0	13.0	15.0	16.0	17.0
3	10.0	11.0	11.0	11.0	7.0	8.0	10.0	14.0	14.0	14.0	17.0	19.0
4	13.0	10.0	10.0	8.0	7.0	9.0	---	14.0	13.0	16.0	17.0	18.0
5	12.0	10.0	9.0	8.0	9.0	10.0	---	13.0	16.0	16.0	18.0	16.0
6	15.0	13.0	9.0	9.0	9.0	9.0	11.0	12.0	15.0	15.0	17.0	17.0
7	10.0	10.0	11.0	7.0	9.0	10.0	10.0	12.0	13.0	16.0	17.0	15.0
8	12.0	12.0	10.0	8.0	10.0	10.0	11.0	13.0	12.0	16.0	10.0	15.0
9	10.0	10.0	9.0	10.0	9.0	9.0	10.0	14.0	13.0	16.0	16.0	16.0
10	13.0	10.0	9.0	7.0	10.0	11.0	11.0	14.0	12.0	15.0	17.0	17.0
11	10.0	13.0	11.0	8.0	9.0	10.0	12.0	15.0	14.0	16.0	18.0	15.0
12	9.0	12.0	10.0	9.0	10.0	10.0	10.0	15.0	13.0	16.0	---	17.0
13	9.0	12.0	7.0	11.0	9.0	11.0	11.0	14.0	14.0	17.0	18.0	17.0
14	8.0	10.0	9.0	7.0	10.0	11.0	11.0	14.0	12.0	14.0	19.0	16.0
15	11.0	10.0	10.0	3.0	10.0	12.0	13.0	13.0	13.0	15.0	19.0	15.0
16	10.0	14.0	9.0	2.0	9.0	10.0	12.0	14.0	14.0	14.0	20.0	16.0
17	10.0	12.0	9.0	---	10.0	10.0	11.0	15.0	14.0	15.0	19.0	17.0
18	9.0	11.0	8.0	2.0	8.0	9.0	14.0	16.0	14.0	17.0	17.0	15.0
19	12.0	11.0	10.0	2.0	9.0	11.0	11.0	15.0	15.0	---	18.0	16.0
20	11.0	9.0	8.0	2.0	8.0	10.0	11.0	12.0	13.0	---	19.0	17.0
21	11.0	11.0	10.0	2.0	10.0	11.0	11.0	14.0	17.0	---	16.0	17.0
22	11.0	10.0	11.0	2.0	9.0	11.0	11.0	16.0	15.0	---	20.0	14.0
23	10.0	10.0	9.0	2.0	9.0	10.0	12.0	17.0	16.0	---	---	15.0
24	10.0	10.0	10.0	3.0	9.0	11.0	12.0	16.0	16.0	---	17.0	14.0
25	14.0	10.0	11.0	3.0	9.0	10.0	13.0	13.0	15.0	---	---	15.0
26	13.0	9.0	10.0	3.0	9.0	10.0	12.0	13.0	18.0	---	16.0	16.0
27	11.0	---	9.0	4.0	10.0	9.0	12.0	15.0	17.0	---	---	14.0
28	10.0	---	12.0	4.0	9.0	10.0	13.0	14.0	16.0	16.0	18.0	---
29	11.0	---	8.0	4.0	---	11.0	12.0	16.0	17.0	18.0	16.0	16.0
30	10.0	9.0	9.0	4.0	---	10.0	13.0	12.0	15.0	18.0	17.0	15.0
31	10.0	---	11.0	5.0	---	11.0	---	14.0	---	17.0	16.0	---
MEAN	11.0	10.5	9.5	5.5	9.0	10.0	11.5	14.0	14.5	16.0	17.5	16.0

WTR YR 1987 MEAN 12.0 MAX 20.0 MIN 2.0

OGC-003249

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued
WATER-QUALITY RECORDS
SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	87	268	181	909	51	256	28	126	147	1100	45	222
2	70	204	270	2250	46	226	30	132	153	1230	46	225
3	54	157	264	2040	56	277	32	143	114	890	45	224
4	61	128	291	2220	43	212	30	134	110	891	39	188
5	156	339	314	2430	47	236	29	117	185	1440	35	165
6	149	402	145	889	80	492	32	124	49	306	55	300
7	63	159	111	614	69	462	32	121	30	115	77	455
8	65	154	181	1130	67	458	34	125	29	99	78	472
9	54	109	104	716	72	484	78	280	28	94	69	419
10	115	261	75	450	58	360	38	136	123	960	114	748
11	131	446	83	518	57	342	38	136	147	1380	103	715
12	96	394	77	509	53	322	31	99	116	1100	98	669
13	94	355	73	471	47	292	54	165	109	1070	82	567
14	100	378	74	466	44	278	52	171	88	877	86	620
15	186	899	79	529	44	283	29	103	98	968	80	590
16	192	1160	87	590	53	375	43	136	94	937	71	541
17	112	581	83	605	52	389	43	128	75	739	77	597
18	83	334	68	452	46	344	51	167	83	822	68	527
19	72	278	72	486	40	271	65	209	78	794	68	477
20	92	375	74	535	38	246	74	206	74	737	79	591
21	441	1610	61	450	43	277	66	158	70	682	92	802
22	357	1530	44	170	34	219	65	164	65	620	74	669
23	154	703	49	235	35	231	33	91	66	613	73	643
24	125	601	54	274	34	218	20	57	59	500	84	760
25	136	694	52	284	31	195	32	108	55	448	99	767
26	108	484	42	218	33	206	62	288	59	467	65	455
27	98	458	43	221	34	211	43	208	64	480	58	390
28	82	266	43	223	35	216	35	174	52	293	56	364
29	54	98	49	251	35	214	40	205	---	---	51	332
30	56	92	55	279	34	169	77	459	---	---	54	353
31	56	91	---	---	28	136	192	1460	---	---	67	456
TOTAL	---	14008	---	21414	---	8897	---	6330	---	20652	---	15303

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	68	501	85	714	87	1070	103	1290	68	661	67	77
2	66	499	98	873	90	1100	76	954	113	1170	70	76
3	61	455	111	998	92	1140	56	730	106	996	63	66
4	60	458	114	1050	97	1200	64	842	93	917	60	60
5	59	441	383	3600	100	1260	78	1040	117	948	59	58
6	51	369	103	965	107	1410	70	941	71	520	56	54
7	53	382	91	833	107	1440	68	901	71	516	55	52
8	54	383	115	1170	106	1430	65	851	47	152	55	51
9	49	348	128	1480	83	1020	65	844	37	72	54	50
10	51	361	132	1540	56	570	69	887	78	142	55	51
11	49	324	126	1480	56	517	97	1240	718	1810	59	55
12	63	417	98	1150	51	457	138	1950	511	1140	50	72
13	62	405	75	893	59	527	74	1040	488	734	41	70
14	49	303	108	1320	51	460	103	1450	282	327	49	65
15	46	279	100	1210	44	403	90	1270	101	120	50	45
16	55	404	183	2360	40	364	103	1460	51	63	50	45
17	56	342	200	2550	36	325	98	1400	66	80	50	45
18	57	237	155	1970	36	322	99	1490	131	149	54	49
19	73	162	122	1520	39	343	91	1400	49	29	50	46
20	75	149	109	1320	50	509	93	1460	35	14	47	43
21	62	117	115	1420	52	543	94	1480	41	15	52	48
22	59	186	116	1430	54	567	141	2330	152	81	51	48
23	115	807	102	1260	122	1250	109	1790	437	395	48	46
24	83	612	110	1380	59	594	112	1810	867	941	56	55
25	83	623	100	1260	55	549	176	2430	708	992	61	62
26	78	604	115	1420	48	469	137	1450	258	362	78	82
27	82	649	109	1320	58	559	121	1240	371	544	278	299
28	80	635	95	1150	66	633	101	1050	257	350	206	222
29	78	617	92	1130	56	531	85	918	158	207	158	172
30	78	634	88	1090	60	640	65	693	117	147	114	126
31	---	---	93	1150	---	---	61	626	78	91	---	---
TOTAL	---	12703	---	43006	---	22202	---	39257	---	14685	---	2290

TOTAL LOAD FOR YEAR: 220747 TONS.

OGC-003250

ATTACHMENT 2

CLIMATOLOGICAL DATA ANNUAL SUMMARY

214/ :

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CLIMATOLOGICAL DATA ANNUAL SUMMARY

NEW MEXICO

1987

VOLUME 91 NUMBER 13

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NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

OGC-003252

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

NEW MEXICO 1987

STATION	JAN PRECIP.	JAN DEPARTURE	FEB PRECIP.	FEB DEPARTURE	MAR PRECIP.	MAR DEPARTURE	APR PRECIP.	APR DEPARTURE	MAY PRECIP.	MAY DEPARTURE	JUN PRECIP.	JUN DEPARTURE
TIERRA AMARILLA 4 NNW	.70	-.63	1.10	.18	.92	-.20	.59	-.34	1.67	.65	1.02	.38
TORREON NAVAJO MISSION	.54		.60		T .00		.00		1.04		.22	
TRES PIEDRAS	1.21	.61	.21	-.37	.60	-.14	.04	-.67	1.65	.71	.71	-.08
TURQUOISE	.86		.78		1.56		.29		2.81		.31	
VALMORA	1.73	1.41	1.20	.83	.60	.03	.80	.04	M 3.11		2.55	.81
WOLF CANYON	2.65	1.02	2.91	1.36	M 1.07		.97	-.20	1.56	.74	1.05	.04
--DIVISIONAL DATA------->	1.33	.59	1.45	.81	.73	-.14	.59	-.26	2.04	.65	1.50	.39
NORTHEASTERN PLAINS 03												
AMISTAD 3 ESE	.38	.09	1.28	.99	.36	-.30	.25	-.64	3.68	1.47	1.49	-.35
BELL RANCH	.53	.24	1.10	.89	.36	-.12	.53	-.17	2.11	.80	2.28	.91
CAMERON	M .90		1.88	1.18	.72	-.03	.43	-.57	1.63	-.18	2.56	.30
CLAYTON WSO AP	R .47	.20	1.61	1.33	.86	.27	.64	-.41	3.73	1.50	2.14	.40
CLOVIS 3 SSW	.29	-.15	1.18	.69	.18	-.41	1.33	.50	2.73	.92	3.52	1.05
CLOVIS 13 N	.27	-.07	1.25	.87	.24	-.31	.17	-.58	4.44	2.67	2.04	-.24
CONCHAS DAM	1.77	1.46	1.42	1.12	.25	-.31	.61	-.16	4.00	2.90	1.86	.43
ELIDA	.53	.14	1.68	1.31	.47	.02	T .00	-.65	1.82	.50	2.96	1.37
GRENVILLE	.44	.22	1.58	1.29	.58	-.03	.56	-.50	2.82	.45	1.61	-.62
HOUSE	.41	.17	.56	.69	.34	-.11	.15	-.37	3.04	1.93	2.63	.97
MAXWELL 3 NW	1.66	1.44	1.70	1.49	.48	.10	.57	-.15	2.38	.71	2.41	.88
MC CARTY RANCH	1.55		2.20		.18		.74		4.53		3.50	
MELROSE	.56	.24	2.21	1.72	.37	-.16	.29	-.36	2.10	.76	2.99	1.03
MOSQUERO 1 NE	1.26	.97	1.83	1.55	.27	-.28	.49	-.40	2.31	.33	1.89	.17
NEWKIRK	.73		1.44		.84		.36		1.68		3.04	
PASAMONTE	.42	.16	1.81	1.57	.78	.25	.54	-.28	2.95	.62	2.11	.22
PORTALES	3.01	2.64	1.16	.74	.10	-.38	.22	-.42	1.81	.12	4.86	2.63
RAGLAND 3 SSW	.67	.30	1.60	1.04	.62	.02	.26	-.56	2.74	1.04	3.31	1.65
ROY	.94	.64	2.66	2.31	.08	-.49	T .00	-.87	2.47	.46	3.33	1.62
SAN JON	1.31	.95	1.76	1.26	1.15	.57	.47	-.41	4.32	2.64	2.74	.80
SPRINGER	M .38		1.35	1.07	.60	.04	.73	-.17	2.19	.22	3.44	1.99
TUCUMCARI 4 NE	1.19	.82	1.45	1.03	.57	-.03	.76	-.09	3.63	2.15	1.68	.08
--DIVISIONAL DATA------->	.95	.60	1.63	1.26	.48	-.07	.47	-.37	2.86	1.11	2.66	.93
SOUTHWESTERN MOUNTAINS 04												
AUGUSTINE 2 E	.40	.09	.54	.21	.08	-.25	.06	-.19	.90	.61	.02	-.43
BEAVERHEAD RANGER STN	1.17	.40	1.15	.43	.26	-.43	.27	-.12	1.20	.72	1.41	.82
CUBERO	1.80		1.59		.20		T .00		.70		.36	
FORT BAYARD	.27	-.53	.29	-.26	.39	-.19	.20	-.02	.45	.10	2.12	1.35
GILA HOT SPRINGS	.60		.89		.92		.54		.73		1.30	
GRANTS AIRPORT	1.60		1.24		.54		.28		.89		.26	
KELLY RANCH	1.56	1.22	1.02	.51	.35	-.25	.59	.12	.90	.30	1.59	.77
LUNA RANGER STATION	.94	.02	1.50	.82	.46	-.30	.34	-.12	1.72	1.33	1.09	.44
MAGDALENA	M		1.64	1.19	.26	-.19	.40	.08	1.29	.65	1.71	1.26
MIMBRES RANGER STATION	.25	-.74	.20	-.51	.94	.01	.10	-.31	.50	.18	3.04	2.20
QUEMADO RANGER STATION	.58	.13	1.58	1.07	.57	-.05	.28	-.03	.63	.29	.47	.03
QUEMADO LAKE	.94		2.40		1.99		.38		1.33		1.03	
RESERVE RANGER STATION	.97	-.07	1.79	.97	.76	-.32	.49	.08	1.03	.61	.51	-.14
SAN MATEO	.92		2.81		.84		.14		.78		.73	
THOREAU 5 ENE	1.61		1.28		.42		.25		1.62		.32	
WINSTON	.30	-.14	.40	.06	.15	-.18	.00	-.27	M		.00	-.69
--DIVISIONAL DATA------->	.88	.27	1.29	.75	.59	-.02	.25	-.11	.98	.56	.96	.36
CENTRAL VALLEY 05												
ALBUQUERQUE WSFO AP //R	.66	.25	.61	.21	.07	-.45	1.00	.60	.58	.12	.13	-.39
ALEMAN RANCH	.12	-.23	.09	-.24	.85	.59	.03	-.15	.28	-.01	1.31	.70
BERNARDO	.82		.45		.35		.55		.69		1.06	
BINGHAM 2 NE	1.07		1.20		.17		.08		.73		1.02	
BOSQUE DEL APACHE	1.10	.85	1.33	1.05	.31	-.03	.34	.06	.65	.19	.01	-.64

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

NEW MEXICO 1987

	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL

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OGC-003254

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
TIERRA AMARILLA 4 NNW	1.34	-.76	3.94	1.30	.30	-1.20	1.24	-.03	1.93	.91	.94	-.09	15.69	.17
TORREON NAVAJO MISSION	.83		1.09		.32		.28		.95		1.70		7.57	
TRES PIEDRAS	.31	-1.77M	.43		2.23	1.14	.07	-1.11M	.70		2.23	1.56M	10.39	
TURQUOISE	1.19		3.04		.34		.51		.81		.29		12.79	
VALMORA	.00	-3.03	5.30	2.20	1.39	-.44	.00	-1.02	.07	-.56	1.53	1.06M	18.28	
WOLF CANYON	2.42	-.99	2.90	-.57	.72	-.88	1.18	-.54	2.75	1.42	1.93	.56M	22.51	
--DIVISIONAL DATA------->	.93	-1.67	3.59	.82	.87	-.52	.46	-.71	1.17	.34	1.12	.41	15.78	.71
NORTHEASTERN PLAINS 03														
AMISTAD 3 ESE	.10	-3.03	2.00	-.55	.95	-.57	.00	-.95	.92	.32	1.20	.80	12.61	-2.72
BELL RANCH	.00	-2.89	3.79	1.21	1.62	.29	.00	-1.01	.88	.37	.35	-.05	13.55	.47
CAMERON	.03	-3.15	5.00	2.50	1.74	.16	.25	-1.02	.85	.20	1.55	.98M	17.54	
CLAYTON WSO AP P	.45	-2.09	2.64	.21	1.02	-.46T	.00	-.75	.55	.07	.80	.51	14.91	.79
CLOVIS 3 SSW	1.99	-.80	7.52	4.83	2.95	1.08	.72	-.73	.01	-.57	1.86	1.39	24.28	7.80
CLOVIS 13 N	.22	-2.72	9.35	6.82	1.73	-.04	.78	-.52	.30	-.20	1.50	1.08	22.33	6.76
CONCHAS DAM	.37	-2.19	5.69	3.42	.93	-.40	.04	-.99	.90	.49	.80	.40	18.63	6.17
ELIDA	.48	-1.85	2.70	.39	2.19	.30	.51	-.67	.68	.21	1.94	1.66	15.96	2.73
GRENVILLE	.90	-2.30	3.63	1.16	1.27	-.39	.00	-.85	.30	-.18	.61	.27	14.30	-1.48
HOUSE	1.01	-1.90	3.39	.86	1.56	-.29	.43	-.79	.30	-.12	.11	-.18	14.33	.86
MAXWELL 3 NW	.54	-2.06	5.56	2.43	.44	-1.06	.30	-.72	.18	-.33	.75	.49	16.97	3.22
MC CARTY RANCH	.07		6.89		2.66		.15		.56		.66		23.69	
MELROSE	.95	-1.99	4.93	2.51	2.10	.01	.26	-.97	.42	-.04	.96	.56	18.14	3.31
MOSQUERO 1 NE	1.30	-1.70	4.91	1.86	.81	-.87	.00	-1.02	1.00	.42	1.54	1.13	17.61	2.16
NEWKIRK	.37		3.80		.89		.36		.22		.64		14.37	
PASAMONTE	.64	-2.43	4.38	1.73	2.46	1.05T	.00	-.83	.40	-.06	.46	.14	16.95	2.34
PORTALES	1.33	-1.39	8.29	5.64	2.42	.58	.71	-.56	.48	-.09	.93	.47	25.32	9.98
RAGLAND 3 SSW	.60	-2.92	3.79	.76	1.73	-.13	.37	-.86	.27	-.38	.92	.44	16.88	.38
ROY	.92	-2.18	5.00	2.37	1.44	.03	.00	-1.13T	.00	-.47	.82	.31	17.66	2.60
SAN JON	.02	-3.04	5.46	2.87	1.10	-.53	.02	-1.15	.18	-.40	.78	.31	19.31	3.87
SPRINGER	.12	-2.74	6.96	3.68	.73	-.42T	.00	-1.20	.23	-.33	1.17	.81M	17.90	
TUCUMCARI 4 NE	.24	-2.85	3.16	.55	2.08	.74	.22	-.82	.39	-.18	.43	-.07	15.82	1.33
--DIVISIONAL DATA------->	.55	-2.39	5.02	2.41	1.58	-.02	.22	-.88	.46	-.06	.98	.59	17.86	3.11
SOUTHWESTERN MOUNTAINS 04														
AUGUSTINE 2 E	.64	-1.43M			.60	-.80	.44	-.63	.00	-.33M	.22			
BEAVERHEAD RANGER STN	2.79	.22	3.74	.90	1.05	-.79	.45	-.98	.88	.34M	2.59		M 16.96	
CUBERO	.54		1.22		.00		.76		.41		1.49		9.07	
FORT BAYARD	4.10	.89	3.58	.48	.89	-1.11	.52	-.68	.76	.23	1.44	.56	15.01	.82
GILA HOT SPRINGS	3.82		3.09		1.89		.82		.53		2.22		17.35	
GRANTS AIRPORT	2.61		3.05		.72		.50		.82		1.25		13.76	
KELLY RANCH	.23	-2.57	4.14	.93	.90	-1.02	.90	-.48	.34	-.11	3.29	2.65	15.81	2.07
LUNA RANGER STATION	3.65	.90	2.74	-.26	1.32	-.16	1.08	-.72M	1.62		2.12	1.09M	18.58	
MAGDALENA	2.23	-.12	7.24	4.54	.97	-.66	.47	-.58	.22	-.04	2.48	1.95		
MIMBRES RANGER STATION	3.48	.15	3.43	-.24	2.17	.10	.24	-1.27	.89	.23	3.06	1.91	18.30	1.71
QUEMADO RANGER STATION	1.56	-.28	1.59	-.89	1.00	-.07	.58	-.33	1.28	.65	1.83	1.34	11.95	2.06
QUEMADO LAKE	3.07		3.93		.66		1.53		1.28		1.90		20.44	
RESERVE RANGER STATION	2.46	.12	2.41	-.32	.97	-.81	.98	-.72	1.62	.83	2.30	1.02	16.29	1.25
SAN MATEO	.39		3.97		.23		.72	M	.54		2.00		M 14.07	
THOREAU 5 ENE	2.28		2.12		.90		.88		.92		1.21		13.81	
WINSTON	1.95	-.74	2.71	-.40	.00	-2.23	.00	-1.21	.00	-.34	1.05	.54		
--DIVISIONAL DATA------->	2.37	.00	3.20	.49	.89	-.69	.66	-.54	.74	.26	1.87	1.13	14.68	2.46
CENTRAL VALLEY 05														
ALBUQUERQUE WSFO AP //5	.91	-.39	2.98	1.47	.20	-.65	.44	-.42	.42	.04	.34	-.18	8.34	.22
ALEMAN RANCH	2.00	.23	2.87	1.00	.88	-.42	.17	-.73	.63	.21	1.57	1.04	10.80	1.96
BERNARDO	.05		2.69		.00		.08		.46		.42		7.82	
BINGHAM 2 NE	2.07		3.60		.93		.30		.33		1.26		12.76	
BOSQUE DEL APACHE	.48	-.83	1.99	.36	.76	-.56	.47	-.52	.56	.24	2.46	2.01	10.46	2.18

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

NEW MEXICO 1987

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
CARRIZOZO	.21	-.39	.90	.37	.08	-.56	.53	.16	1.34	.71	1.21	.38
CORRALES	.95		.23		.11		.61		1.16		.37	
ELEPHANT BUTTE DAM	.14	-.17	.21	-.09	.52	.25	.15	-.06	.24	-.09	1.20	.66
ENGLE 15 NE	.40		.77		.20		.00		.42		.60	
LAGUNA	1.21	.88	M 1.37		.32	-.08	.37	.07	.46	-.12	.47	.01
LOS LUNAS 3 SSW	.88		.75		.09		.45		.87		.27	
RIENHARDT RANCH	.52	.26	.35	.13	.06	-.17	.16	-.11	.40	-.03	1.69	1.05
SOCORRO	M .75		.84	.49	.17	-.17	.46	.08	M .63		.64	.05
--DIVISIONAL DATA------->	.72	.37	.66	.30	.28	-.12	.42	.11	.72	.28	.70	.10
CENTRAL HIGHLANDS 06												
CAPITAN	1.50		2.68		.44		1.16		2.75		1.82	
CLINES CORNERS 7 SE	1.72		2.37		1.13		1.22		2.01		2.71	
CLOUDCROFT	.89		2.25		1.17		1.11		4.52		4.87	
CLOUDCROFT												
CORONA 11 SSW	M 1.13		2.47		.23		.29		M		M	
ESTANCIA	2.63	2.17	1.43	.92	.28	-.26	.87	.35	2.27	1.43	1.26	.54
GOLDEN	1.70	1.09	2.02	1.41	.45	-.41	1.34	.77	2.47	1.52	.71	.00
GRAN QUIVIRA NAT MON	2.00	1.38	1.61	.92	.32	-.40	M .59		1.91	1.20	2.44	1.51
MOUNTAIN PARK	.59	-.70	1.41	.37	1.42	.33	.73	.29	2.69	2.22	1.76	.54
MOUNTAINAIR	4.20	3.60	1.30	.53	M .34		.75	.18	1.96	1.31	1.01	.25
PEDERNAL 4 E	1.43	1.15	.57	.22	.10	-.29	.05	-.35	3.06	2.45	.75	-.31
PROGRESSO	1.30	.86	1.22	.63	.23	-.34	.25	-.20	3.57	2.87	.91	-.11
RUIDOSO 2 NNE	.91	-.21	2.53	1.37	.70	-.63	.74	.11	1.84	.97	M	
RUIDOSO 2												
SANDIA PARK	M 2.11		M 2.03	-	.62	-.68	1.54	.69	2.16	1.06	1.62	.86
STANLEY 1 NNE	.49		.37		.32		.33		2.17		.89	
--DIVISIONAL DATA------->	1.64	.79	1.73	.88	.61	-.32	.80	.19	2.50	1.68	1.93	.78
SOUTHEASTERN PLAINS 07												
ARTESIA 6 S	.17	-.17	.88	.48	.30	-.06	.53	.17	1.44	.52	1.84	.66
BITTER LKS WL REFUGE	.46	.05	M 1.39		.37	.00	.18	-.23	2.32	1.55	3.09	2.02
BRANTLEY DAM												
CANTON	1.20	.86	1.77	1.42	.70	.30	T .00	-.61	2.73	1.53	2.47	.80
CARLSBAD	.31	-.03	.85	.43	.35	-.06	.63	.17	1.30	.08	5.36	4.23
CARLSBAD FAA AP	.29	-.05	1.02	.67	.36	.03	.28	-.12	4.68	3.75	4.91	4.20
CARLSBAD CAVERNS	.15	-.30	2.44	2.03	.85	.46	.95	.30	4.67	3.48	5.08	3.90
CIRCLE F RANCH	.44		1.25		.23		.80		2.13		1.45	
CROSSROADS #2	.23	-.08	.60	.19	.35	-.12	.03	-.70	4.78	3.23	2.56	.54
DILIA	1.92	1.45	2.02	1.54	.85	.15	1.05	.27	1.42	.27	1.65	.62
ELK 2 E	.90	.40	1.59	1.04	.60	.19	.52	-.05	.77	-.18	2.78	1.47
FORT SUMNER	1.21	.90	1.95	1.62	.56	.09	.14	-.37	3.52	2.52	1.81	.41
FORT SUMNER 5 S	.92	.60	1.50	1.16	.54	.12	.21	-.37	3.18	2.19	1.24	-.12
HOBBS	.10	-.23	1.80	1.39	.63	.12	.90	.26	6.01	3.99	3.93	2.43
HOPE	.26		1.41		.26		1.13		1.20		4.11	
JAL	.20	-.08	1.24	.87	1.03	.63	.74	.16	5.15	3.89	1.14	-.09
MALJAMAR 4 SE	.22	-.11	.82	.40	.36	-.11	.27	-.15	5.04	3.47	2.94	1.68
OCHOA	.12	-.22	M		.96	.54	.10	-.44	.57	-.52	1.60	.46
PEARL	.18	-.09	.79	.40	.37	-.06	.09	-.46	3.72	1.95	1.62	-.18
PICACHO 2 WSW	1.01		1.29		.33		.88		1.15		1.93	
RAMON 8 SW	.80		1.35		.58		.76		2.70		2.82	
ROSWELL FAA AP	.45	.21	2.02	1.74	.20	-.07	.26	-.11	1.54	.77	3.69	2.78
SANTA ROSA	.89	.56	1.19	.80	.32	-.25	.72	.13	3.50	2.38	2.42	1.05
SUMNER LAKE	.86		1.12		.27		.27		1.85		1.69	
TATUM	M .15		M .27		M .45		.45	-.20	5.14	3.45	2.36	.13
WASTE ISOLT'N PILOT PLANT	.07		.41		.68		1.17		3.54		1.03	
WESTERN AG-MINERALS	.15		.88		.38		.71		1.09		3.80	
YESO 2 S	1.50	1.14	1.74	1.36	.24	-.22	.36	-.20	1.58	.56	2.26	.93
--DIVISIONAL DATA------->	.56	.19	1.30	.89	.46	.03	.56	.06	2.93	1.74	2.76	1.45

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

NEW MEXICO 1987

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TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

NEW MEXICO 1987

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
CARRIZOZO	.53	-1.73	3.80	1.23	.63	-1.23	.47	-.56	.83	.21	.65	-.02	11.18	-1.43
CORRALES	.56		4.36		.26		.60		.89		.94		11.04	
ELEPHANT BUTTE DAM	2.37	1.01	3.31	1.42	.89	-.39	.19	-.73	.34	-.05	.70	.21	10.26	1.97
ENGLE 15 NE	.79		2.46		.30		.20		.64		.80		7.58	
LAGUNA	.79	-.85	1.68	-.22	.18	-.90	.45	-.68	.60	.30	1.00	.52	M 8.90	
LOS LUNAS 3 SSW	1.45		1.60		.26		.40		.47		.19		7.68	
RIENHARDT RANCH	.19	-1.55	3.79	1.66	.49	-.98	.33	-.75	.26	.03	.20	-.15	8.44	-.61
SOCORRO	.15	-1.31	3.58	1.33	.41	-.86	.77	-.32	.54	.22	1.34	.79	M 10.28	
--DIVISIONAL DATA------->	1.03	-.51	2.95	1.16	.49	-.70	.39	-.59	.55	.17	.99	.50	9.90	1.07
CENTRAL HIGHLANDS 06														
CAPITAN	2.59		4.82		.39		.14		.49		1.42		20.20	
CLINES CORNERS 7 SE	.47		8.00		2.17		.62		1.05		1.45		24.92	
CLOUDCROFT														
CLOUDCROFT	M		M		3.07		1.15		1.64		1.95			
CORONA 11 SSW	.36		3.18		M .57		.29		.97		3.30			
ESTANCIA	M		4.28	1.88	.50	-.77	.12	-1.04	.83	.39	1.97	1.32		
GOLDEN	.73	-1.59	2.16	-.25	.28	-.90	.38	-.55	1.02	.45	1.89	1.18	15.15	2.72
GRAN QUIVIRA NAT MON	.88	-2.01	6.39	3.44	.85	-.68	.27	-.79	1.00	.35	2.19	1.26	M 20.45	
MOUNTAIN PARK	.66	-3.23	3.09	-.63	3.00	.76	1.31	-.16	1.78	1.03	.37	-.71	19.01	.11
MOUNTAINAIR	.26	-2.32	4.06	1.78	.80	-.86	.17	-.99	.91	.34	M			
PEDERNAL 4 E	.60	-1.42	6.58	3.97	.45	-.60	T .00	-.84	.76	.38	1.51	1.07	15.86	5.43
PROGRESSO	1.46	-1.28	5.03	2.42	.94	-.35	.00	-.96	.94	.41	.66	-.08	16.51	3.87
RUIDOSO 2 NNE														
RUIDOSO 2	M		5.41		1.19		.24		1.25		2.58			
SANDIA PARK	1.64	-1.20	2.69	-.33	.38	-1.24	.84	-.58	1.90	.74	2.75	1.54	M 20.48	
STANLEY 1 NNE	.16		3.86		.30		.27		.73		.23		10.14	
--DIVISIONAL DATA------->	.85	-2.17	4.76	1.65	1.19	-.59	.45	-.79	1.11	.40	1.79	.81	19.36	3.31
SOUTHEASTERN PLAINS 07														
ARTESIA 6 S	1.12	-.42	3.10	1.32	.77	-1.03	.54	-.72	.76	.37	1.23	.91	12.68	2.01
BITTER LKS WL REFUGE	.24	-1.83	3.23	1.15	1.03	-.74	.30	-.86	.58	.19	.58	.21	M 13.77	
BRANTLEY DAM			1.05		.33		.51		.00		2.26			
CANTON	T .00	-2.76	5.08	2.86	1.57	-.11	.50	-.88	.15	-.21	.80	.51	16.97	3.71
CARLSBAD	.25	-1.44	3.98	2.11	1.57	-.75	.63	-.62	.45	-.06	M .90		M 16.58	
CARLSBAD FAA AP	.35	-1.35	4.30	2.50	.56	-1.60	.78	-.38	.41	-.03	1.46	1.20	19.48	8.82
CARLSBAD CAVERNS	.89	-1.05	2.03	-.40	4.92	1.98	.47	-.96	.35	-.09	.82	.41	23.62	9.76
CIRCLE F RANCH	.47		3.13		1.01		.17		.22		.29		11.59	
CROSSROADS #2	.79	-1.84	4.42	2.00	4.52	2.54	.62	-.96	.32	-.08	.83	.57	20.04	5.29
DILIA	1.32	-1.27	6.29	3.57	.67	-.97	T .00	-1.12	.84	.33	1.40	.86	19.43	5.70
ELK 2 E	.40	-2.27	2.65	-.88	.91	-1.69	.36	-.95	.78	.21	1.80	1.20	14.06	-1.52
FORT SUMNER	.49	-2.08	4.10	1.76	1.38	-.32	.64	-.66	.36	-.11	.54	.21	16.76	3.97
FORT SUMNER 5 S	.70	-1.83	2.33	-.14	1.69	-.13	.82	-.61	.56	.12	.30	-.08	13.99	.85
HOBBS	.42	-1.61	3.59	1.20	2.22	-.15	.08	-1.62	.36	-.18	.47	.14	20.51	5.74
HOPE	.75		2.35		.50		.22		.75		1.80		14.74	
JAL	.43	-1.18	1.23	-.51	.88	-.96	.49	-.85	.10	-.39	.64	.36	13.41	1.85
MALJAMAR 4 SE	.24	-2.12	2.49	.01	1.66	-.45	.54	-.87	.57	.05	1.43	1.09	16.58	2.89
OCHOA	.00	-1.29	2.23	.56	T .00	-1.89	.36	-.76	.00	-.37	M .60			
PEARL	.10	-2.00	3.05	.96	1.28	-.85	.61	-.70	.20	-.21	1.09	.77	13.10	-.43
PICACHO 2 WSW	1.55		3.26		1.06		.32		.50		M .95		M 14.23	
RAMON 8 SW	.06		3.39		.42		.35		.36		.90		14.48	
ROSWELL FAA AP	.40	-.98	4.71	2.54	.78	-.94	.28	-.71	.46	.13	1.41	1.14	16.20	6.50
SANTA ROSA	.00	-2.56	6.44	3.49	1.13	-.36	.00	-1.14	.36	-.14	.85	.30	17.82	4.26
SUMNER LAKE	.14		3.46		1.39		.22		.40		.72		12.39	
TATUM	1.96	-.54	4.21	1.60	3.62	1.39	1.10	-.50	.33	-.16	M			
WASTE ISOLT'N PILOT PLANT	.11		M		.66		.74		.28		M .72			
WESTERN AG-MINERALS	1.00		3.57		.76		.21		.38		.99		13.92	
YESO 2 S	.15	-2.27	2.60	.04	1.84	.10	.11	-1.05	.33	-.10	1.33	.86	14.04	1.15
--DIVISIONAL DATA------->	.57	-1.61	3.45	1.15	1.43	-.57	.41	-.87	.42	-.03	1.09	.72	15.96	3.15

SEE REFERENCE NOTES FOLLOWING STATION INDEX

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (F)

STATION	JAN TEMPERATURE	JAN DEPARTURE	FEB TEMPERATURE	FEB DEPARTURE	MAR TEMPERATURE	MAR DEPARTURE	APR TEMPERATURE	APR DEPARTURE	MAY TEMPERATURE	MAY DEPARTURE	JUN TEMPERATURE	JUN DEPARTURE	JUL TEMPERATURE	JUL DEPARTURE	AUG TEMPERATURE	AUG DEPARTURE	SEP TEMPERATURE	SEP DEPARTURE	OCT TEMPERATURE	OCT DEPARTURE	NOV TEMPERATURE	NOV DEPARTURE	DEC TEMPERATURE	DEC DEPARTURE	ANNUAL TEMPERATURE	ANNUAL DEPARTURE
NORTHEASTERN PLAINS 03																										
AMISTAD 3 ESE	32.4	-2.7	39.7	.5	42.7	-2.5	52.7	-2.1	62.0	-1.8	70.9	-2.3	M		74.5	-.7	66.7	-1.3	57.7	.2	43.6	-.7	33.0	-4.6	M	
BELL RANCH	33.2	-2.5	41.5	1.1	44.7	-1.5	54.1	-1.6	62.1	-2.7	71.8	-2.4	78.0	-.2	74.8	-1.3	M		58.3	.4	43.7	-1.5	33.3	-4.2	M	
CAMERON	33.3	-2.4	39.9	.5	43.2	-2.4	52.9	-1.7	62.0	-1.5	71.6	-1.0	75.8	-.1	73.0	-1.0	65.5	-2.1	58.3	1.3	44.2	-.2	33.3	-4.4	54.4	-1.3
CLAYTON WSO AP P	34.2	1.2	37.6	1.2	41.3	-.1	51.8	.8	60.9	.8	69.4	-.5	73.8	-.4	70.9	-1.4	65.3	.5	55.6	.9	42.7	1.0	32.8	-2.7	53.0	.1
CLOVIS 3 SSW	35.1	-1.9	40.9	.2	43.4	-3.5	52.5	-3.8	63.8	-1.2	70.9	-3.0	74.5	-2.7	72.9	-2.3	65.7	-2.7	56.3	-1.9	43.9	-2.2	33.6	-5.7	54.5	-2.6
CLOVIS 13 N	35.5	-1.9	42.1	1.1	45.2	-1.8	55.3	-.7	64.1	-.3	73.2	-.3	77.5	1.2	74.5	.0	67.9	-.2	59.8	1.6	46.1	.3	35.8	-3.7	56.[illegible]	-.4
CONCHAS DAM	36.3	-2.5	43.8	.7	46.1	-2.7	M57.6	-.3	65.0	-1.8	74.5	-1.9	79.7	-.1	76.5	-1.4	69.7	-1.5	61.2	.3	47.2	-1.0	M35.5	-5.4	M57.8	-1.5
ELIDA	37.6	.3	42.2	1.4	45.9	-1.3	55.0	-1.6	64.6	-.8	73.5	-1.0	77.4	.1	75.6	.0	67.5	-1.4	61.3	2.8	46.1	.0	37.6	-1.7	57.0	-.3
GRENVILLE	30.6	-.6	34.1	-.1	38.5	-.1	49.5	.5	56.4	-.6	66.3	.0	70.8	-.2	68.9	-.5	61.0	-1.4	53.0	.7	39.5	-.8	30.1	-3.7	49.8	-.6
MAXWELL 3 NW	29.3		33.1		37.8		47.1		54.0		63.6		67.9		66.0		57.8		50.6		M38.8		M27.5		M47.7	
MC CARTY RANCH	33.8		40.7		43.9		53.9		63.2		70.8		75.2		73.1		65.2		56.8		45.1		34.3		54.7	
MELROSE	35.9	-1.2	41.6	.9	45.2	-1.9	54.2	-2.0	63.7	-1.4	72.6	-1.4	76.5	-.6	74.8	-.4	67.2	-1.2	59.7	1.7	46.4	.8	36.7	-2.3	56.2	-.8
MOSQUERO 1 NE	30.7		36.9		41.1		50.9		59.0		68.3		73.8		69.6		62.3		55.6		41.2		31.0		51.7	
NEWKIRK	35.5		41.7		46.1		55.6		64.1		72.7		78.3		75.5		69.8		60.9		46.2		36.5		56.8	
PASAMONTE	31.1	.0	35.6	1.2	39.5	-1.3	49.4	-.8	57.7	-.8	66.1	-2.1	71.3	-1.5	68.5	-2.1	61.3	-2.0	52.9	.1	39.4	-.6	29.7	-3.6	50.0	-1.1
PORTALES	36.1	-2.3	41.8	-.6	45.0	-3.1	54.8	-3.1	64.4	-2.6	M74.1	-1.2	77.4	-.7	75.1	-1.2	68.0	-1.8	59.7	.7	46.3	-.5	35.9	-4.0	M56.6	-1.7
RAGLAND 3 SSW	33.5		39.9		43.3		52.8		61.8		71.0		75.1		73.3		65.5		58.7		43.8		33.3		54.3	
ROY	M30.1	-2.7	33.5	-2.6	41.2	.2	47.6	-2.1	56.2	-2.9	65.6	-3.0	70.9	-1.3	67.5	-3.0	M		54.7	1.1	40.9	-.3	30.3	-4.0	M	
SAN JON	35.0	-2.8	42.7	1.0	46.4	-2.1	56.5	-1.2	65.3	-1.7	74.7	-1.9	79.9	.1	76.5	-1.5	68.4	-2.3	60.4	.5	46.4	-.4	36.2	-3.6	57.4	-1.3
SPRINGER	27.7	-1.9	33.4	-1.5	39.9	-2.2	49.3	.0	56.4	-2.2	64.4	-3.6	69.1	-3.1	67.1	-3.0	60.0	-3.1	52.1	-.5	38.7	-.5	26.2	-4.9	48.6	-2.2
TUCUMCARI 4 NE	34.7	-4.2	41.8	-1.0	45.2	-3.8	55.1	-3.0	64.3	-2.4	73.0	-3.0	79.3	.3	75.7	-1.3	67.9	-2.5	59.9	-.5	47.2	-.6	35.9	-5.0	56.7	-2.3
--DIVISIONAL DATA-------->	33.4	-1.8	39.3	.2	43.1	-2.0	52.7	-1.6	61.5	-1.7	70.4	-2.2	75.1	-1.1	72.6	-1.5	65.4	-1.8	57.3	.8	43.7	-.5	33.3	-3.9	54.0	-1.3
SOUTHWESTERN MOUNTAINS 04																										
AUGUSTINE 2 E	30.3		33.9		35.9		45.5		51.8		61.6		65.6		62.7		56.9		50.3		35.8		27.8		46.5	
BEAVERHEAD RANGER STN	27.6		33.3		36.5		46.7		52.1		62.0		65.7		64.4		M		51.9		36.8		M28.5		M	
CUBERO	28.0		34.3		40.5		49.3		56.2		65.4		70.7		68.6		61.4		53.8		37.6		27.8		49.5	
FORT BAYARD	38.2	.3	40.8	.3	43.5	-1.3	55.8	3.5	60.2	-.1	70.9	.9	71.7	-1.2	69.6	-.6	65.1	-.3	60.4	4.3	45.4	.4	M38.0	-.8	M55.0	.5
GILA HOT SPRINGS	35.6		38.9		42.6		52.8		57.4		67.7		69.8		68.8		62.0		56.4		42.0		34.5		52.4	
GRANTS AIRPORT	M26.5		32.7		38.0		48.4		56.4		65.0		68.9		M		61.6		54.1		38.8		29.1		M	
LUNA RANGER STATION	28.0		31.7		34.9		45.1		49.8		59.3		61.9		62.2		55.0		49.6		36.1		28.0		45.1	
MAGDALENA	M		M38.9		M41.2		51.2		M58.5		M58.9		M73.0		69.1		M		M		M		M		M	
MIMBRES RANGER STATION	36.0		37.9		40.6		50.3		55.0		65.3		68.3		67.4		60.2		55.9		41.2		M35.6		M51.1	
QUEMADO RANGER STATION	29.1	-1.1	32.2	-1.7	M34.3	-4.6	46.7	1.0	51.9	-1.9	62.7	-.1	M64.1	-4.3	63.0	-3.1	56.7	-3.3	50.0	.2	35.7	-2.4	26.6	-4.6	M46.1	-2.2
QUEMADO LAKE	M27.7		M29.4		M		43.9		M48.7		M59.4		62.7		M		M54.7		49.1		M36.7		26.6		M	
RESERVE RANGER STATION	32.5		36.6		39.0		50.1		54.5		65.5		68.6		67.0		60.8		54.7		40.3		30.1		50.0	
SAN MATEO	29.5		32.2		36.7		M50.7		54.6		65.4		69.4		65.8		60.2		54.0		38.8		30.7		M49.0	
THOREAU 5 ENE	29.1		32.3		36.7		49.7		55.3		66.7		69.9		67.0		61.4		55.5		38.4		30.0		49.3	
WINSTON	33.5	-2.3	36.2	-2.3	39.5	-3.6	49.3	-1.3	55.4	-2.4	65.2	-2.3	69.1	-3.3	66.9	-1.8	60.4	-2.4	54.8	1.3	39.0	-3.5	33.4	-2.9	50.1	-2.2
--DIVISIONAL DATA-------->	30.9	-1.2	34.8	-.5	38.6	-1.7	49.0	1.4	54.5	-1.2	64.7	-.4	67.9	-1.8	66.3	-.8	59.7	-1.6	53.6	2.3	38.8	-1.0	30.5	-2.5	49.1	-.7
CENTRAL VALLEY 05																										
ALBUQUERQUE WSFO AP //R	32.3	-2.5	39.2	-.2	43.7	-2.5	54.8	-.3	62.8	-1.5	73.0	-1.5	77.8	-1.0	74.7	-1.4	68.8	-.2	61.3	3.9	45.2	1.2	35.3	-.3	55.7	-.5
ALEMAN RANCH	37.3		41.5		46.0		55.0		62.4		73.0		76.2		73.9		66.0		61.1		45.8		36.1		56.2	
BERNARDO	31.8		41.2		45.4		56.0		65.0		73.4		78.1		75.3		69.2		60.1		43.6		35.7		56.2	
BINGHAM 2 NE	32.1		39.7		43.4		50.3		61.6		70.1		M		M72.6		66.0		58.9		M43.0		M32.5		M	
BOSQUE DEL APACHE	35.3	-2.3	43.7	1.4	48.0	-.9	M57.3	.3	65.4	.1	73.4	-.8	77.0	-1.3	74.9	-1.0	68.1	-.8	62.1	3.8	46.2	.5	M37.2	-.4	M37.4	-.1
CARRIZOZO	33.3	-3.3	39.8	-.2	43.7	-2.7	51.6	-3.2	59.8	-3.6	69.4	-3.6	72.8	-3.2	71.5	-1.9	67.8	.6	65.2	8.6	M45.9	1.5	M36.2	-1.0	M51.8	-1.0
CORRALES	30.5		39.0		42.8		52.8		60.9		69.2		72.3		70.6		63.9		56.0		42.1		M33.1		M52.8	
ELEPHANT BUTTE DAM	38.4	-3.4	44.0	-2.1	48.0	-4.1	57.9	-2.2	66.2	-2.1	77.1	-.9	79.6	-.9	77.1	-1.0	70.3	-2.2	64.9	2.6	48.3	-1.7	37.9	-4.0	59.1	-1.8
LAGUNA	29.2	-4.2	36.4	-1.0	41.7	-1.4	51.7	.5	58.9	-1.4	69.4	-1.0	73.6	-1.1	71.6	-.5	64.6	-.7	57.1	2.5	40.6	-1.5	31.2	-2.8	52.2	-1.1
LOS LUNAS 3 SSW	31.6		40.2		44.0		54.1		63.1		72.1		75.0		74.3		67.2		59.0		43.7		34.8		54.9	
SOCORRO	33.5	-3.5	41.0	.1	45.4	-2.2	54.9	-1.9	63.6	-1.1	72.1	-1.5	76.4	-1.0	73.7	-1.3	66.9	-1.5	60.2	2.5	45.1	.3	35.5	-1.5	55.9	-1.1
--DIVISIONAL DATA-------->	33.2	-3.2	40.5	-.3	44.8	-2.4	54.2	-1.3	62.7	-1.3	72.0	-1.5	75.9	-1.6	73.7	-1.3	67.1	-1.2	60.5	3.0	44.5	-.3	35.0	-1.8	55.3	-1.0

OGC-003257

OGC-003258

																										6234		0	215
C... N	97	[illegible]	-5	[illegible]	3	[illegible]	3	[illegible]	4	[illegible]	4/22	32	10/?0	31	11/ 9	27	11/10	20	11/10	20	11/27	14	242	223	221	219	181		
CL...ON WSO AP R	96	8/ 3	-3	12/14	3/30	9	3/30	9	3/31	23	4/ 6	28	4/21	32	10/10	30	11/ 8	27	11/ 9	24	11/16	20	12/14	-3	259	231	223	216	172
CLOVIS 3 SSW	99	7/ 5	-4	12/15	3/31	12	3/31	12	4/ 3	23	4/ 9	28	4/24	32	10/20	32	11/10	19	11/10	19	11/10	19	11/25	16	239	224	221	215	179
CLOVIS 13 N	102	6/17	-4	12/15	3/30	12	3/30	12	4/ 3	22	4/ 7	27	4/22	31	10/20	32	11/ 9	28	11/10	21	11/26	20	12/14	2	259	241	221	216	181

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

STATION	HIGHEST	DATE	LOWEST	DATE	LAST SPRING MINIMUM OF 16° OR BELOW DATE	TEMP.	20° OR BELOW DATE	TEMP.	24° OR BELOW DATE	TEMP.	28° OR BELOW DATE	TEMP.	32° OR BELOW DATE	TEMP.	FIRST FALL MINIMUM OF 32° OR BELOW DATE	TEMP.	28° OR BELOW DATE	TEMP.	24° OR BELOW DATE	TEMP.	20° OR BELOW DATE	TEMP.	16° OR BELOW DATE	TEMP.	NUMBER OF DAYS BETWEEN DATES 16° OR BELOW	20° OR BELOW	24° OR BELOW	28° OR BELOW	32° OR BELOW
CONCHAS DAM	102	8/ 4	1	12/27	3/30	13	3/31	19	3/31	13	3/31	13	4/ 9	32	11/ 8	29	11/ 9	27	11/16	24	12/12	18	12/14	6	259	256	230	223	213
ELIDA	101	7/ 4	1	12/15	3/30	6	3/30	6	3/30	6	4/ 8	26	4/22	30	10/20	32	11/ 9	27	11/10	20	11/10	20	11/28	15	243	225	225	215	181
GRENVILLE	97	8/20	-8	12/15	3/30	12	3/30	12	4/10	24	4/21	25	5/ 4	32	10/11	26	10/11	26	10/20	22	11/10	19	11/17	11	232	225	193	173	160
MAXWELL 3 NW	93	8/ 6	-11	12/17	3/31	15	4/21	19	4/22	21	4/22	21	5/30	31	9/15	30	10/11	25	10/20	22	10/21	19	11/10	11	224	183	181	172	108
MC CARTY RANCH	97	8/ 7	-6	12/15	3/30	8	3/31	18	3/31	18	4/ 7	28	4/ 7	28	10/20	32	11/ 9	26	11/17	20	11/17	20	12/15	-6	260	231	231	216	196
MELROSE	93	8/ 8	0	12/15	3/30	9	3/30	9	4/ 3	24	4/ 3	24	4/22	31	10/20	32	11/10	22	11/10	22	11/25	18	12/14	14	259	240	221	220	181
MOSQUERO 1 NE	96	7/10	-6	12/27	3/30	3	4/ 6	20	4/ 6	20	4/14	25	4/22	30	10/11	30	10/20	24	10/20	24	11/ 9	20	11/15	15	231	217	197	189	172
NEWKIRK	100	8/ 1	-4	1/22	3/30	9	3/30	9	4/ 3	24	4/ 8	28	4/22	32	11/ 9	20	11/ 9	20	11/ 9	20	11/ 9	20	11/19	16	234	224	220	215	201
PASAMONTE	95	9/ 4	-6	12/27	3/31	14	3/31	14	4/ 4	23	4/22	28	5/27	32	10/11	28	10/11	28	11/ 9	23	11/10	17	11/17	8	231	224	219	172	137
PORTALES	99	7/ 4	-6	12/27	3/30	14	3/30	14	4/ 4	23	4/22	27	4/22	27	11/ 9	31	11/10	21	11/10	21	11/19	16	11/19	16	234	234	220	202	201
RAGLAND 3 SSW	97	8/ 2	-4	1/21	3/30	7	3/30	7	4/ 3	24	4/ 8	28	4/22	32	10/20	32	11/ 9	27	11/10	20	11/10	20	11/19	16	234	225	221	215	181
ROY	93	8/18	-4	12/14	3/29	12	3/29	12	4/14	21	4/14	21	5/ 3	31	MSG		MSG		11/18	19	11/18	19	11/27	12	243	234	218		
SAN JON	100	8/ 7	-6	12/15	3/30	10	3/30	10	3/31	23	3/31	23	4/10	32	10/20	29	11/ 9	26	11/10	20	11/10	20	11/28	16	243	225	224	223	193
SPRINGER	96	7/10	-18	12/15	3/31	15	4/ 3	19	4/14	22	4/22	25	5/29	31	10/ 6	30	10/17	22	10/17	22	10/21	19	11/10	14	224	201	186	178	130
TUCUMCARI 4 NE	102	7/ 8	-6	12/15	3/30	8	3/30	8	3/31	24	4/ 3	28	4/10	32	11/ 9	27	11/ 9	27	11/17	19	11/17	19	12/15	-6	260	232	231	220	213
SOUTHWESTERN MOUNTAINS 04																													
AUGUSTINE 2 E	92	6/17	-14	12/15	4/14	15	4/23	19	5/27	21	5/27	21	6/13	32	9/11	32	9/20	28	10/ 5	23	10/20	18	11/ 8	16	208	180	131	116	84
BEAVERHEAD RANGER STN	91	7/10	-19	1/21	3/31	14	4/14	19	4/23	24	5/23	28	5/30	30	MSG		MSG		MSG		11/ 9	20	11/10	15	224	209			
CUBERO	93	7/23	-13	1/19	3/30	13	4/14	20	4/21	23	4/23	25	4/23	26	10/ 6	32	10/17	28	10/20	22	11/ 9	20	11/16	16	231	209	182	177	166
FORT BAYARD	97	6/19	6	1/18	3/30	10	3/30	10	4/ 1	24	4/ 6	27	4/14	31	11/ 9	29	11/13	26	11/16	23	11/19	20	11/27	14	242	234	229	221	209
GILA HOT SPRINGS	97	7/ 8	-6	12/27	3/30	13	3/31	18	4/14	24	4/15	27	5/29	31	10/ 6	32	10/20	26	11/ 9	23	11/10	18	11/17	15	232	224	209	188	130
GRANTS AIRPORT			-13	1/22	3/31	12	4/14	18	4/21	22	4/23	27	5/27	32	10/ 6	32	10/16	28	10/20	21	11/13	19	11/18	16	232	213	182	176	132
LUNA RANGER STATION	83	7/23	-23	1/18	4/14	14	4/21	20	5/29	24	6/21	29	6/22	31	7/ 2	30	7/ 6	29	10/ 1	24	10/19	20	11/10	12	210	181	125	15	10
MAGDALENA	95	7/ 8			3/30	12	3/31	20	3/31	20	4/ 8	26	5/28	32	MSG		MSG		MSG		MSG		MSG						
MIMBRES RANGER STATION	91	8/21	0	1/13	3/31	16	4/ 8	20	4/ 8	20	5/27	27	5/29	31	10/20	31	11/ 7	28	11/ 9	24	11/10	17	11/17	16	231	216	215	164	144
QUEMADO RANGER STATION	94	6/18	-17	12/15	4/14	13	4/23	20	5/28	24	5/28	24	6/ 3	30	7/ 2	31	9/21	27	10/15	24	10/19	19	11/11	14	211	179	140	116	29
QUEMADO LAKE			-9	12/15	4/15	14	4/20	17	5/27	24	5/29	28	6/20	32	MSG		10/ 5	28	10/19	24	11/ 8	18	11/20	11	219	202	145	129	
RESERVE RANGER STATION	95	7/24	-14	12/27	3/31	14	4/14	20	4/15	22	5/29	28	5/29	28	10/ 1	31	10/19	26	11/ 9	24	11/10	18	11/16	13	230	210	208	143	125
SAN MATEO	89	7/24	0	1/18	3/30	9	3/30	9	3/30	9	4/20	26	4/22	29	10/20	32	11/ 9	27	11/12	24	11/16	20	11/18	13	233	231	227	203	181
THOREAU 5 ENE	94	7/23	-3	12/15	3/30	11	3/31	20	4/20	23	4/21	25	5/27	31	10/20	30	11/ 8	28	11/11	24	11/16	17	11/18	13	233	230	205	201	146
WINSTON	93	7/ 7	-8	12/27	3/30	5	4/ 3	19	4/13	23	4/25	26	5/28	32	10/19	32	10/20	28	11/ 9	20	11/ 9	20	11/10	16	225	220	210	178	144
CENTRAL VALLEY 05																													
ALBUQUERQUE WSFO AP //R	99	7/23	0	1/19	3/30	15	3/30	15	3/31	23	3/31	23	4/ 7	31	11/12	32	11/17	25	11/28	21	12/14	13	12/14	13	259	259	242	231	219
ALEMAN RANCH	101	6/24	-6	12/27	3/30	11	3/30	11	4/ 3	24	4/ 8	26	4/23	30	11/ 7	32	11/10	25	11/13	24	11/16	20	11/17	16	232	231	224	216	198
BERNARDO	104	8/ 3	-10	1/19	3/30	15	3/31	17	4/14	24	4/15	28	4/15	28	10/19	30	11/ 8	28	11/ 9	24	11/10	19	11/19	10	234	224	209	207	187
BINGHAM 2 NE			-6	12/15	3/30	7	3/31	17	4/ 8	23	4/15	28	4/15	28	11/ 7	31	11/10	25	11/12	24	11/16	20	11/19	15	234	230	218	209	206
BOSQUE DEL APACHE	103	7/ 3	-6	1/21	3/30	13	3/31	20	3/31	20	4/15	28	4/23	32	10/19	31	11/ 8	28	11/10	22	11/17	15	11/17	15	232	231	224	207	179
CARRIZOZO	100	6/24	-4	12/26	4/ 3	16	4/ 3	16	4/21	23	4/22	28	4/23	32	11/10	26	11/10	26	11/16	19	11/16	19	11/27	12	238	227	209	202	201
CORRALES	97	7/23	-5	1/13	3/30	15	3/31	17	4/ 3	24	4/15	28	5/27	31	10/19	29	10/20	27	11/10	24	11/17	13	11/28	14	243	231	221	188	145
ELEPHANT BUTTE DAM	102	7/ 4	5	12/28	1/22	16	3/31	20	3/31	20	3/31	20	4/ 1	32	11/17	28	11/17	28	11/28	24	12/15	8	12/15	8	327	259	242	231	230
LAGUNA	98	7/27	-12	1/21	3/30	15	3/31	20	4/14	22	4/22	27	4/23	30	10/18	31	10/20	27	11/ 8	22	11/16	20	11/19	15	234	230	208	181	178
LOS LUNAS 3 SSW	93	8/ 2	-10	1/19	3/30	12	3/31	17	4/ 3	23	4/15	29	4/23	31	10/19	30	11/ 9	27	11/10	23	11/17	15	11/17	15	232	231	221	208	179
SOCORRO	101	8/ 2	-6	12/27	3/30	15	3/31	19	4/ 1	24	4/16	25	4/23	32	10/19	32	11/ 9	26	11/10	24	11/17	18	11/19	15	234	231	223	207	179
CENTRAL HIGHLANDS 06																													
CAPITAN	94	6/24	-6	12/15	4/ 3	16	4/14	18	4/14	18	4/23	28	5/29	32	10/17	30	10/21	29	11/ 9	21	11/10	17	11/25	14	236	210	209	181	142
CLINES CORNERS 7 SE	91	8/ 1	-2	12/15	4/ 7	16	4/ 7	16	4/14	21	4/22	26	5/ 8	30	10/17	30	10/21	28	11/ 9	23	11/25	17	11/27	16	234	232	209	182	152
CLOUDCROFT					4/ 2	16	4/ 7	17	4/14	22	4/21	28	5/ 5	32	MSG		MSG		MSG		MSG		MSG						
CLOUDCROFT					MSG		MSG		MSG		MSG		MSG		MSG		10/20	27	11/ 8	24	11/10	16	11/10	16					
CORONA 11 SSW	90	8/19	-3	12/15	4/ 3	16	4/16	18	4/16	18	4/25	29	5/ 4	32	10/17	31	11/ 9	23	11/ 9	23	11/10	18	11/13	15	230	208	207	198	166
ESTANCIA	93	8/ 1	-15	1/22	4/ 3	14	4/14	19	4/22	23	4/26	28	5/29	31	10/ 5	31	10/17	26	10/20	24	11/ 9	19	11/10	15	221	209	181	174	129
GRAN QUIVIRA NAT MON	97	8/ 3	-2	1/20	3/30	3	4/ 3	18	4/14	23	4/22	27	4/23	32	10/20	30	11/ 8	27	11/ 9	24	11/16	20	11/27	14	242	227	209	200	180
MOUNTAIN PARK	83	6/24	1	12/27	3/31	15	3/31	15	3/31	15	4/13	27	4/23	29	11/ 7	32	11/ 9	28	11/16	21	11/17	19	12/13	16	257	231	230	210	198
MOUNTAINAIR	94	9/ 2			3/30	8	4/ 7	13	4/22	24	4/23	25	5/27	32	MSG		MSG		MSG		MSG		MSG						
PEDERNAL 4 E	95	8/ 9	-6	2/22	4/ 3	15	4/14	19	4/22	23	5/ 5	29	5/ 5	28	10/ 6	31	10/17	27	11/ 8	23	11/ 9	18	11/25	14	236	209	200	165	154
RUIDOSO 2 NNE					4/ 3	13	4/14	17	4/23	22	MSG		MSG		MSG		MSG		MSG		MSG		MSG						
RUIDOSO 2					MSG		MSG		MSG		MSG		MSG		10/ 1	32	10/21	26	11/ 8	23	11/ 9	19	11/10	16					
SANDIA PARK	98	8/ 1	-6	1/22	MSG		MSG		MSG		MSG		5/29	32	10/16	32	10/20	27	11/ 9	23	11/16	15	11/16	15					140
STANLEY 1 NNE	95	8/ 3	-9	1/22	4/ 7	16	4/14	17	4/22	22	5/ 4	26	5/ 8	30	9/19	30	10/ 3	28	10/17	22	11/ 9	14	11/ 9	14	216	209	178	152	134

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL EVAPORATION AND WIND MOVEMENT

NEW MEXICO
1937

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
NEW MEXICO														
NORTHWESTERN PLATEAU 01														
FARMINGTON AG SCI CNTR	WIND	-	-	-	-	951	641	767	-	688	B 1484	-	-	-
	EVAP	-	-	-	-	-	11.52	12.74	B10.81	8.47	B 5.37	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
NAVAJO DAM	WIND	-	-	-	-	B 1260	B 1262	1258	1095	1119	B 1049	-	-	-
	EVAP	-	-	-	-	B 7.44	B10.82	11.08	9.15	7.11	B 5.12	-	-	-
	MAX TEMP	-	-	-	-	M -	-	M 99.7	M -	M 94.3	M -	-	-	M -
	MIN TEMP	-	-	-	-	M -	-	M 62.1	M -	M 54.3	M -	-	-	M -
NORTHERN MOUNTAINS 02														
ABIQUIU DAM	WIND	-	-	-	-	-	2100	247	2023	1769	1795	-	-	-
	EVAP	-	-	-	-	-	10.54	12.59	8.00	7.39	5.77	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
COCHITI DAM	WIND	-	-	-	1615	1340	1475	1320	1080	950	840	-	-	-
	EVAP	-	-	-	-	9.11	B12.27	B14.74	B 9.91	8.42	6.90	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	76.6	67.0	-	-	M -
	MIN TEMP	-	-	-	-	-	-	-	-	49.2	41.5	-	-	M -
EAGLE NEST	WIND	-	-	-	-	B 1252	1052	1267	882	749	1018	-	-	-
	EVAP	-	-	-	-	B 5.12	6.67	8.34	5.72	3.90	-	-	-	-
	MAX TEMP	-	-	-	-	M 64.6	74.1	77.5	72.1	64.4	58.4	-	-	M -
	MIN TEMP	-	-	-	-	M 38.2	44.7	46.0	46.9	37.7	33.0	-	-	M -
EL VADO DAM	WIND	-	-	-	983	810	721	950	705	671	679	-	-	-
	EVAP	-	-	-	B 5.81	B 5.59	8.77	10.10	7.40	6.00	B 4.44	-	-	-
	MAX TEMP	-	-	-	68.5	73.0	85.5	86.3	83.0	76.8	69.1	-	-	M -
	MIN TEMP	-	-	-	36.6	43.4	50.0	51.2	53.1	44.9	35.2	-	-	M -
NORTHEASTERN PLAINS 03														
CLOVIS 13 N	WIND	-	-	-	3018	3201	2387	3576	2258	1300	3591	2778	-	-
	EVAP	-	-	-	B 5.52	8.13	8.36	12.08	B 9.82	5.43	B 5.84	-	-	-
	MAX TEMP	-	-	-	-	M 80.8	M 90.1	M 89.6	M 87.5	M 83.6	M 74.7	M -	-	M -
	MIN TEMP	-	-	-	-	M 50.9	M 56.7	M 58.8	M 60.2	M 54.0	M 45.6	M -	-	M -
CONCHAS DAM	WIND	-	-	-	1777	1316	1220	1695	1347	1054	1512	-	-	-
	EVAP	-	-	-	-	7.38	8.13	B11.79	B 8.84	6.29	6.08	-	-	-
	MAX TEMP	-	-	-	M -	M 80.4	M 89.6	91.6	87.9	85.1	75.0	-	-	M -
	MIN TEMP	-	-	-	M -	M 53.1	M 59.9	61.6	61.7	54.7	44.9	-	-	M -
TUCUMCARI 4 NE	WIND	-	-	-	2505	2181	2144	3155	2179	1726	-	-	-	-
	EVAP	-	-	-	B 9.48	9.47	11.60	15.65	11.43	8.20	-	-	-	-
	MAX TEMP	-	-	-	69.8	77.6	86.4	87.9	85.9	81.7	-	-	-	M -
	MIN TEMP	-	-	-	38.2	48.9	56.4	58.1	57.4	49.4	-	-	-	M -
SOUTHWESTERN MOUNTAINS 04														
RESERVE RANGER STATION	WIND	-	-	-	-	-	B 1400	1647	961	988	B 989	-	-	-
	EVAP	-	-	-	-	B 7.63	B10.34	11.69	6.72	6.51	B 5.49	-	-	-
	MAX TEMP	-	-	-	-	M -	M 83.1	M 84.2	M -	M 78.6	M -	-	-	M -
	MIN TEMP	-	-	-	-	M -	M 46.2	M 51.3	M -	M 44.5	M -	-	-	M -
CENTRAL VALLEY 05														
ELEPHANT BUTTE DAM	WIND	2532	2315	3289	2638	2880	2440	2901	2022	1812	1878	1709	-	-
	EVAP	-	3.64	B 7.36	9.71	12.09	13.96	B15.93	B11.11	8.71	7.12	-	-	-
	MAX TEMP	M -	55.4	M 61.1	M -	80.8	91.3	92.0	92.5	84.9	M 74.7	M 58.4	-	M -
	MIN TEMP	M -	37.2	M 38.4	M -	51.3	59.2	61.6	63.0	56.9	M 50.9	M 39.5	-	M -

SEE REFERENCE NOTES FOLLOWING STATION INDEX

OGC-003259

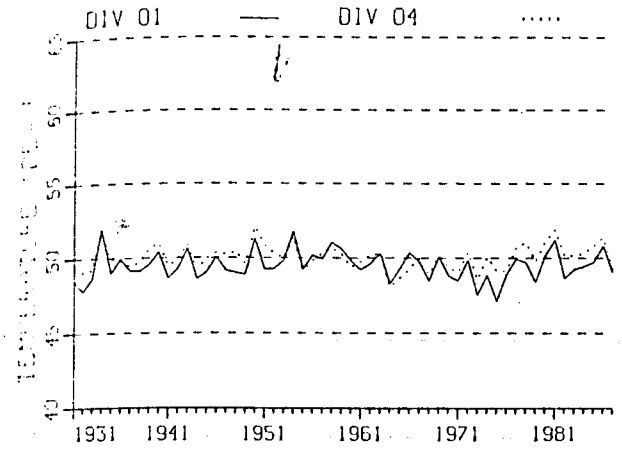
OGC-003260

TOTAL EVAPORATION AND WIND MOVEMENT

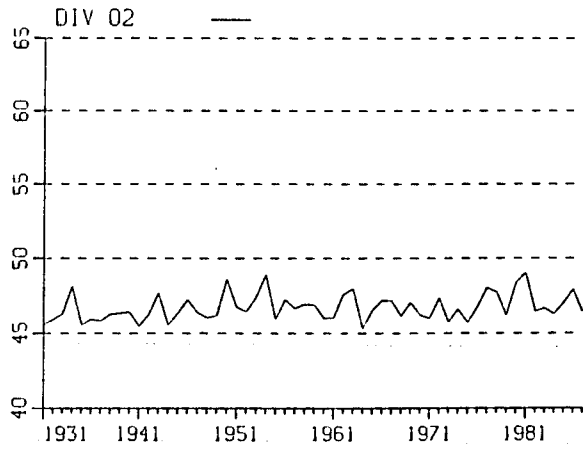
NEW MEXICO
1987

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
LOS LUNAS 3 SSW	WIND	-	-	1512	1438	1488	B 1114	1164	1003	767	524	B 823	-	-
	EVAP	-	-	-	7.09	8.80	B 9.32	11.24	8.76	6.75	B 4.68	B 2.62	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
SOCORRO	WIND	-	-	-	537	713	608	B 849	540	479	573	-	-	-
	EVAP	-	-	-	B 6.53	B 7.60	8.90	B10.22	-	B 6.05	4.12	-	-	-
	MAX TEMP	-	-	-	78.3	M 85.6	93.3	M 96.1	M 93.0	86.0	M 76.0	-	-	M -
	MIN TEMP	-	-	-	45.2	M 55.1	60.4	M 63.8	M 65.7	57.7	M 50.5	-	-	M -
CENTRAL HIGHLANDS 06														
ESTANCIA	WIND	-	-	-	586	466	386	586	391	317	404	-	-	-
	EVAP	-	-	-	-	B 5.93	7.59	-	B 6.87	4.58	B 3.79	-	-	-
	MAX TEMP	-	-	-	-	79.1	90.7	91.5	88.2	78.0	M 67.0	-	-	M -
	MIN TEMP	-	-	-	-	48.6	55.2	58.0	59.6	50.7	M 43.3	-	-	M -
SOUTHEASTERN PLAINS 07														
BITTER LKS WL REFUGE	WIND	-	-	B 1531	1233	1271	992	B 1735	2185	2061	-	-	-	-
	EVAP	-	-	B 6.74	-	-	B 9.12	-	11.02	8.20	-	-	-	-
	MAX TEMP	-	-	M -	M -	M -	M 97.7	M -	M 90.8	M 83.5	-	-	-	M -
	MIN TEMP	-	-	M -	M -	M -	M 60.7	M -	M 61.8	M 56.4	-	-	-	M -
BRANTLEY DAM	WIND	-	-	-	-	-	-	-	B 1951	B 1841	B 1666	-	223	-
	EVAP	-	-	-	-	-	-	-	-	-	B 6.67	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	M -	M -	M -	-	M -	-
	MIN TEMP	-	-	-	-	-	-	-	M -	M -	M -	-	M -	-
SUMNER LAKE	WIND	-	-	2579	2074	2149	1813	2812	1992	1714	1903	-	-	-
	EVAP	-	-	B 6.77	B 8.74	9.81	11.21	14.96	B10.76	8.24	7.21	-	-	-
	MAX TEMP	-	-	M 61.4	M 71.5	79.2	89.7	90.3	87.2	81.2	70.5	-	-	M -
	MIN TEMP	-	-	M 36.8	M 42.3	51.1	58.7	59.2	60.5	53.6	44.7	-	-	M -
SOUTHERN DESERT 09														
CABALLO DAM	WIND	-	1974	2559	2204	2050	1577	1834	1349	1009	1006	B 1315	1553	-
	EVAP	-	B 4.85	B 7.67	9.17	10.32	B12.47	13.64	B10.56	B 7.40	6.49	-	-	-
	MAX TEMP	-	59.7	65.5	76.1	81.5	88.0	89.2	90.3	83.2	77.8	64.4	M -	M -
	MIN TEMP	-	34.3	38.3	43.6	52.3	59.7	61.4	62.2	56.1	51.8	37.2	M -	M -
FLORIDA	WIND	-	-	-	B 2349	2499	-	-	-	1632	B 1429	243	-	-
	EVAP	-	-	-	B 8.22	B11.99	-	-	-	-	B 7.62	-	-	-
	MAX TEMP	-	-	-	M 76.7	M 85.1	M -	-	M -	M 87.6	M -	-	-	M -
	MIN TEMP	-	-	-	M 42.1	M 51.2	M -	-	M -	M 56.7	M -	-	-	M -
STATE UNIVERSITY	WIND	-	1198	1718	1616	1575	1340	1577	1090	874	813	1046	1211	-
	EVAP	-	-	B 5.79	8.27	10.61	11.84	13.08	10.10	7.14	5.92	-	-	-
	MAX TEMP	-	M -	M 70.4	77.7	85.0	92.7	93.3	93.4	87.0	79.1	M 66.7	M -	M -
	MIN TEMP	-	M -	M 38.8	44.7	52.2	60.4	61.3	63.3	57.7	51.7	M 40.4	M -	M -

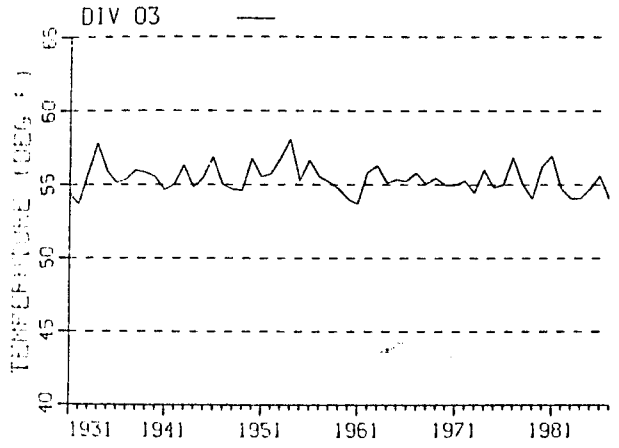
MEAN ANNUAL TEMPERATURES FOR
THE PERIOD OF: 1931 – 1987
NEW MEXICO



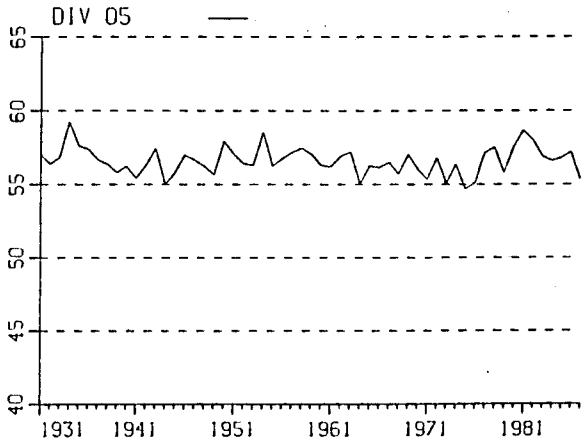
GRAPH 1 (YEARS)



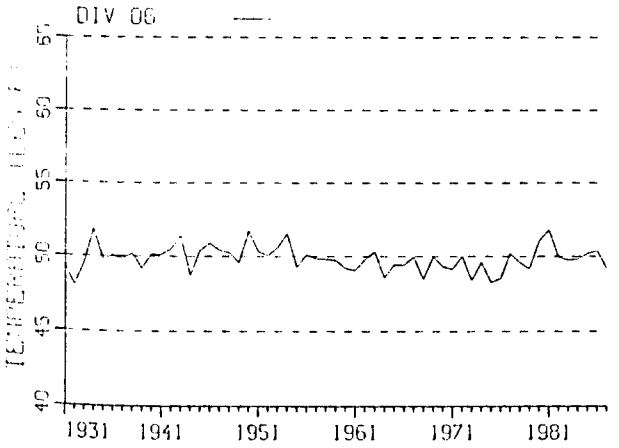
GRAPH 2 (YEARS)



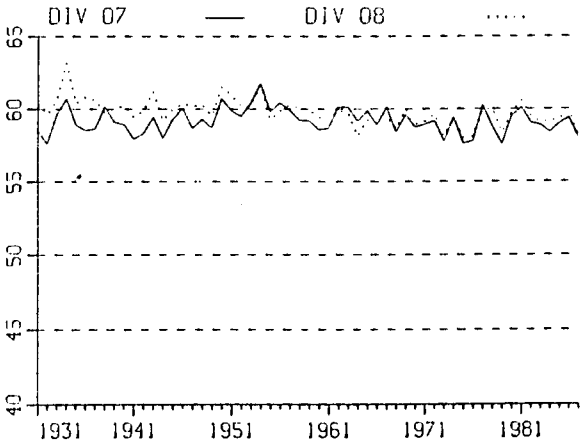
GRAPH 3 (YEARS)



GRAPH 4 (YEARS)



GRAPH 5 (YEARS)



GRAPH 6 (YEARS)

USCOMM-NOAA-ASHEVILLE, N.C.

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REFERENCE NOTES

DEFINITIONS

STATION NAMES: Name of the city, town or locality. Figures and letters following the station names indicate the distance in miles and direction from the post office or town community center.

DIVISIONS: Areas within a state of similar climatological characteristics. Division averages are calculated using data from stations that record both temperature and precipitation (ie: not precipitation alone).

NORMALS: The average value of the meteorological element over the time period - 1951-1980. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

TEMPERATURE EXTREMES AND FREEZE DATA: Spring minimum dates are obtained from data for January through June; Fall dates are from July through December data. "NONE" indicates temperature threshold not reached. "MSG" indicates available data insufficient to determine date.

MONTHLY DEGREE DAY TOTALS: One heating (cooling) degree day is accumulated for each degree that the daily mean temperature is below (above) 65 deg. F

SOIL TEMPERATURE EXTREMES: The highest and lowest MAX and MIN temperature for each month and the year.

WIND: (As shown in "Evaporation and Wind" table) The total wind movement in miles over the evaporation pan as determined by an anemometer recorder located 6-8 inches above the pan.

SYMBOLS AND LETTERS USED IN THE DATA TABLES

- No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
* Rain gage not read. Precipitation is included in the amount following the asterisks. Time distribution not known.
// Rain gage equipped with a windshield.
A Amount of precipitation is the total of observer's entries for the current month. It may include precipitation that occurred during the previous month. Refer to monthly bulletins to determine date of last reading. (HAWAII stations)
B Estimated total value for wind, evaporation, or cooling degree days.
M Insufficient or partial data. M is appended to average and/or total values computed with 1-9 daily values missing. M appears alone if 10 or more daily values are missing.
R Amounts from recording rain gage.
T Trace. An amount too small to measure.
V Includes total for previous month(s). (See * above)
Z Same as M but the Z has overprinted a Negative sign or leading digit (eg. Z14.6 = M-14.6, Z08.2 = M108.2).

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

Thermometers located in a rooftop shelter.

C Station is equipped with a recording rain gage (R) but values in this bulletin are from a non-recording rain gage unless indicated by an R.

G Observations appear in "Soil Temperatures" table.

H Observations appear in "Snowfall and Snow on Ground" table in Monthly "Climatological Data" publications.

J Station also published as a "Local Climatological Data" bulletin.

Seasonal Tables: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the June data are published in the July issue of "Climatological Data".

Cooling degree days for the calendar year are published in the "Climatological Data Annual Summary".

Additional precipitation data are contained in the "Hourly Precipitation Data" bulletin for each state, except Alaska.

The graphic displays appearing in this publication were first produced for the 1986 annual. The types of graphs and the information they portray may vary from year to year and from state to state in order to highlight climatic features of state, regional, and historical interest. Some graphs present information for "clusters". A cluster is a group of up to four (4) adjacent divisions that comprise an area of similar climate.

Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Climatic Data Center. Similar historical information for regular National Weather Service Offices is available from the "Local Climatological Data" annual bulletin.

Additional Information regarding the climate of this state may be obtained by writing to the address below or to any weather service office near you. The contents of this publication may be reprinted or otherwise used freely with proper credit to the National Climatic Data Center, Asheville, NC.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE FROM:

NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N. C. 28801-2696

USCOMM-NOAA-ASHEVILLE, N.C. 1987-0650

ATTACHMENT 3

WATER WELL LOCATIONS

LEGAL ADDRESS	OWNER NAME AND ADDRESS	PERMIT NO.	MAP NO. AND LOCATION	WELL DEPTH	USE	PERMIT DATE
11N-24-2E	Jim Warren 227 Mezcal Dr. N.W. Albuquerque, NM	RG-137	D-12	169 Ft.	Domestic	5/28/57
11N-24-2E	Jim Warren 227 Mezcal Dr. N.W. Albuquerque, NM	RG-685	D-12 (300)	184 Ft.	Domestic	5/06/57
11N-17-3E	Steven J. Rizek 8904 Rio Grande N.W. Albuquerque, NM	RG-43518	C-14 (400)	231 Ft.	Domestic	6/10/85
11N-20-3E	Fred W. Carpenter 723 Ranchitos Rd. N.W. Albuquerque, NM	RG-19104	D-14 (400)	140 Ft.	Domestic	7/08/71
11N-16-3E	David Garduno 8806 4th N.W. Albuquerque, NM	RG-22575	C-15 (421)	152 Ft.	Domestic	5/02/73
11N-8-3E	Rick Schalk 9848 Coors Rd. N.W. Albuquerque, NM	RG-27958	B-14 (330)	149 Ft.	Domestic	12/1/76
11N-8-3E	Robert B. Briscoe 1900 Bryn Mawr N.E. Albuquerque, NM	RG-5774	B-14 (333)	140 Ft.	Domestic	5/08/61
11N-8-E	Albert J. Black P.O. Box 154 Alameda, NM	RG-3664 RG-6095	B-14 (134)	200 Ft. 200 Ft.	Domestic Domestic	11/16/81 3/02/62
11N-9-3E	Southern Union Gas Co. 4625 Edith N.E. Albuquerque, NM	RG-19136	B-15 (323)	200 Ft.	Industrial Water	6/25/71
11N-9-3E	Charles Bonner Box 10143 Alameda, NM	RG-37025	B-15 Lot A of Bonner Subdiv.	200 Ft.	Domestic	9/30/81
11N-9-3E	Johnny Atencio 4516 Carlisle N.W. Albuquerque, NM	RG-25421	B-15 (423)	212 Ft.	Domestic	3/20/75

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LEGAL ADDRESS	OWNER NAME AND ADDRESS	PERMIT NO.	MAP NO. AND LOCATION	WELL DEPTH	USE	PERMIT DATE
11N-9-3E	Albert Klassen 844 Guadalupe Circle N.W. Albuquerque, NM	RG-10278	B-14 B-15	141 Ft.	Domestic	2/12/82
11N-16-3E	Jose Tarango 218 Garduno Rd. N.W. Albuquerque, NM	RG-17887	C-15 (TR. E, 100F)	146 Ft.	Domestic	10/16/70
11N-16-3E	Quintin Kruichak Rt. 4, Box 708C Albuquerque, NM	RG-504	C-15 (230)	112 Ft.	Domestic	4/05/57
11N-17-3E	A. F. Black 200 16th St. N.W. Albuquerque, NM	RG-5711	C-14 (100)	68 Ft.	Domestic	5/01/61
11N-17-3E	Jesse Morris 8821 Rio Grande N.W. Albuquerque, NM	RG-25308	C-14 (221)	38 Ft.	Domestic	10/10/74
11N-18-3E	John Duhigg University Apts. (Paradise Valley Trailer Park)	RG-~~26574~~ 21704	C-13 (324)	95 Ft.	Domestic	10/24/75
11N-18-3E	C. C. Roberson 600 Morningside S.E. Albuquerque, NM	RG-4455	C-13 (300)	115 Ft.	Domestic	5/31/60
11N-18-3E	Jerry Forrester 7100 Coors Blvd. N.W. Albuquerque, NM	RG-26578	C-13 (TR. A-1)	131 Ft.	Domestic	10/24/75
11N-19-3E	William Ellison 1617 University N.E. Albuquerque, NM	RG-18259	D-13 (137E-2-9)	80 Ft.	Domestic	6/14/71
11N-20-3E	Jerold Joseph 1009 Acequia Trail N.W. Albuquerque, NM	RG-24951	D-14 (122)	42 Ft.	Domestic	6/01/74
11N-21-3E	Joe Atkinson 1013 Sandia Rd. N.W. Albuquerque, NM	RG-21926	D-15 (140)	95 Ft.	Domestic	10/10/72

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LEGAL ADDRESS	OWNER NAME AND ADDRESS	PERMIT NO.	MAP NO. AND LOCATION	WELL DEPTH	USE	PERMIT DATE
11N-21-3E	Horace Garcia 248 Los Ranchos N.W. Albuquerque, NM	RG-6908	D-15 (142)	37 Ft.	Domestic	4/19/62
11N-21-3E	Mike Sedillo 7820 2nd St. N.W. Albuquerque, NM	RG-18788	D-15 (200)	86 Ft.	Domestic	8/31/72
11N-21-3E	City of Albuquerque	RG-2193	D-15 (442)	813 Ft.	Exploratory	12/10/75
11N-8-3E	Robert Briscoe 9846 Coors Rd. N.W. Albuquerque, NM	RG-12467	B-14 (330)	152 Ft.	Domestic	5/13/65
11N-21-3E	Academy For Boys 318 Silver S.W. Albuquerque, NM	RG-972	D-15 (300)	100 Ft.	Domestic	8/21/58
11N-17-3E	Maud R. Anderman Rt. 2, Box 421 Albuquerque, NM	RG-64	C-14 (223)	53 Ft.	Irrigation	12/12/55
11N-19-3E	W. F. mann Rt. 3, Box 3021 Albuquerque, NM	RG-29059	D-13 (.75 Mi.South of Sipi, .4 Mi. east)	140 Ft.	Domestic	7/19/77
11N-19-3E	Mary Mann 5036 Fairfax N.W. Albuquerque, NM	RG-18129	D-13 (E. of Coors)	40 Ft.	Domestic	7/29/77
11N-24-2E	Jack LYNN SCOTT 12520 Monroe N.E. Albuquerque, NM.	RG-38627	D-12 LOT 11, BLK. 7	260 FT.	DOMESTIC	6/21/82

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