

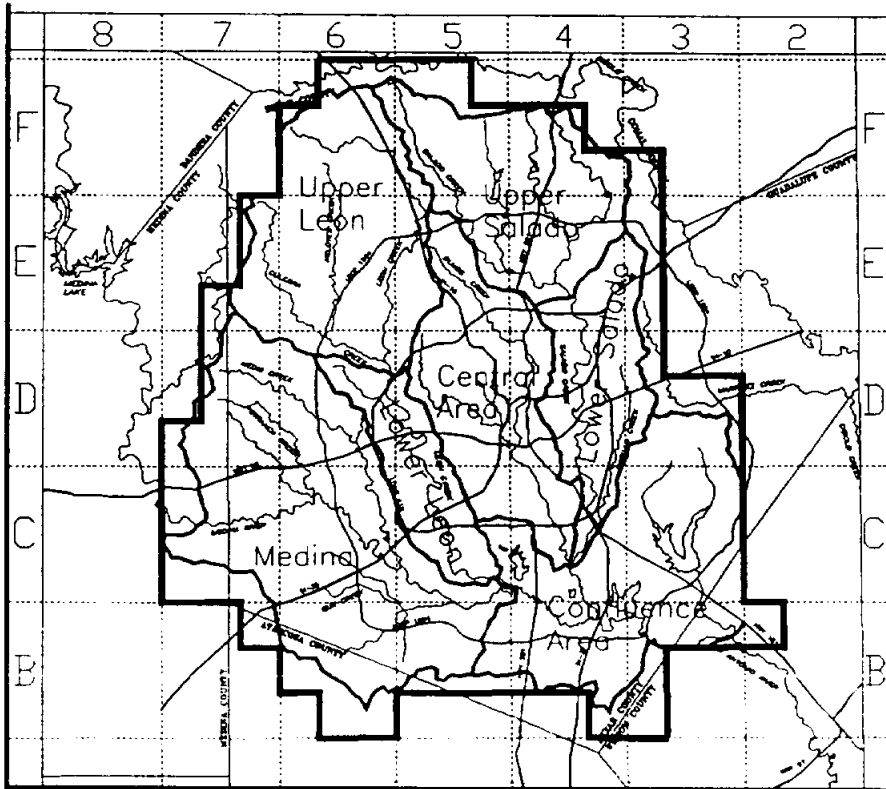
San Antonio Water System

WATER RESOURCES PLANNING PROCESS

HISTORICAL WATER USES

by Watershed Planning Area

Report No. 5



GAE 1/28/93 \08\comquad2

C. THOMAS KOCH, INC.
LAND AND WATER RESOURCES CONSULTANT

Prepared for:

Texas Water Development Board

January 1993

Summary

FEB 1 1993

RESEARCH AND PLANNING

Central

Confluence

Lower Leon

Lower Salado

Medina

Upper Leon

Upper Salado

SAN ANTONIO WATER SYSTEM

P.O. Box 2449, San Antonio, Texas 78298-2449 210/225-7461

February 1, 1993

MR. CURTIS JOHNSON
TEXAS WATER DEVELOPMENT BOARD
P.O. Box 13231, Capitol Station
Austin, Texas 78711-3231

**RE: REPORT NO. 5 (TWDB Contract Number 9-483-722
HISTORICAL WATER USES BY WATERSHED PLANNING AREA**

Dear Curtis:

Today we are providing you eight reports which give you a status report of our water resources planning process which was partially funded by your agency. A brief description of what is contained in each report is found in a separate letter to you dated today.

Report No. 5 provides a copy of the last monthly report (December 1991) which was created by two of our predecessor agencies. Funds provided by your agency allowed us to disaggregate daily water uses, discharges, and streamflows and to place them into a common daily water balance for planning purposes. Our staff is planning to pick up and continue this monitoring beginning in January 1993.

Sections 2 through 8 provide estimates of existing use in 1990 within each watershed planning area. These data were calculated by disaggregating the countywide totals in the Texas Water Development Board forecast into each of the seven planning areas based primarily upon return flows.

Since these data serve as the foundation for the planning process described in the following reports, I am suggesting that we have a staff working session during the week of February 22-26 to work out some method of transferring computer disks rather than the several thousand pages of paper being submitted to you today.

Very truly yours,



JOE A. ACEVES
President and Chief Executive Officer
JA:lk
twdb5.fl

Alamo Water Reuse & Conservation District
City of San Antonio Wastewater Department

**SAN ANTONIO RIVER BASIN
WATER WATCH**

December 1991

Prepared by:
C. THOMAS KOCH, INC.

January 29, 1992

**SUMMARY/
PRECIPITATION**

**MUNICIPAL WATER
USE**

**MUNICIPAL
EFFLUENTS**

DIVERSIONS

**STREAMFLOW AND
STREAM QUALITY**

Section 1

SUMMARY & PRECIPITATION

SUMMARY

This report provides an analysis of municipal water use, municipal effluents, diversions, streamflows, and stream quality in the San Antonio River basin during December 1991.

Municipal pumpage data for this report were obtained from reports submitted by each municipal supplier to the Texas State Department of Health. Other sources of data are daily measurements estimated by the United States Geological Survey, City of San Antonio Wastewater Department, City Public Service, and the National Weather Service. These data are preliminary and subject to revision.

SECTION 1 provides a summary of daily rainfall occurring in San Antonio in December. A total of 13.96 inches of rainfall occurred. Rainfall amounts greater than one inch were measured on four consecutive days, and there were an additional 13 rainfall events of less than one inch.

SECTION 2 summarizes municipal water use in December. FIGURE 2-1 provides a plot showing total pumpage by major municipal water suppliers located within the sewer system of the regional City of San Antonio treatment facilities. TABLE 2-1 gives total pumpage in December by each of the major municipal suppliers. FIGURES 2-2 through 2-11 provide plots of daily pumpage by each supplier and total monthly pumpage since January 1988.

SECTION 3 focuses on municipal effluents. FIGURE 3-1 shows trends in total effluent produced by the Leon, Salado, and Dos Rios facilities for each month since January 1988. FIGURES 3-2 through 3-4 show monthly trends for each facility and daily effluent flows for December 1991.

SECTION 4 summarizes volumes diverted to the Medina Canal and to CPS cooling lakes and the impact of diversions and discharges on downstream flows in the San Antonio River.

SECTION 5 summarizes streamflows and stream quality during December 1991. FIGURE 5-1 is a flow diagram showing total volumes measured at gaging stations in the San Antonio River basin. FIGURES 5-2 through 5-20 provide plots showing daily flows for each gaging station, and monthly trends since January 1988 are also provided. For stations where water quality parameters are monitored, plots are provided showing mean daily temperature, conductivity, dissolved oxygen, and pH units.

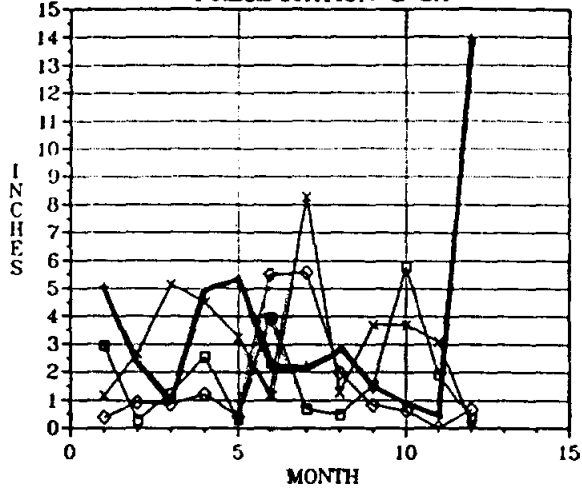
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Rural Route 1, Box 161
Blanco, Texas 78606

C. THOMAS KOCH, INC.

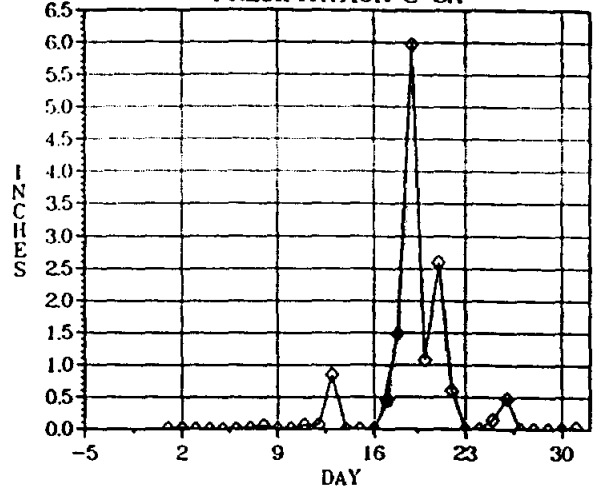
Voice (512) 833-4133
FAX (512) 833-5477

PREVIOUS MONTHS
PRECIPITATION @ SA

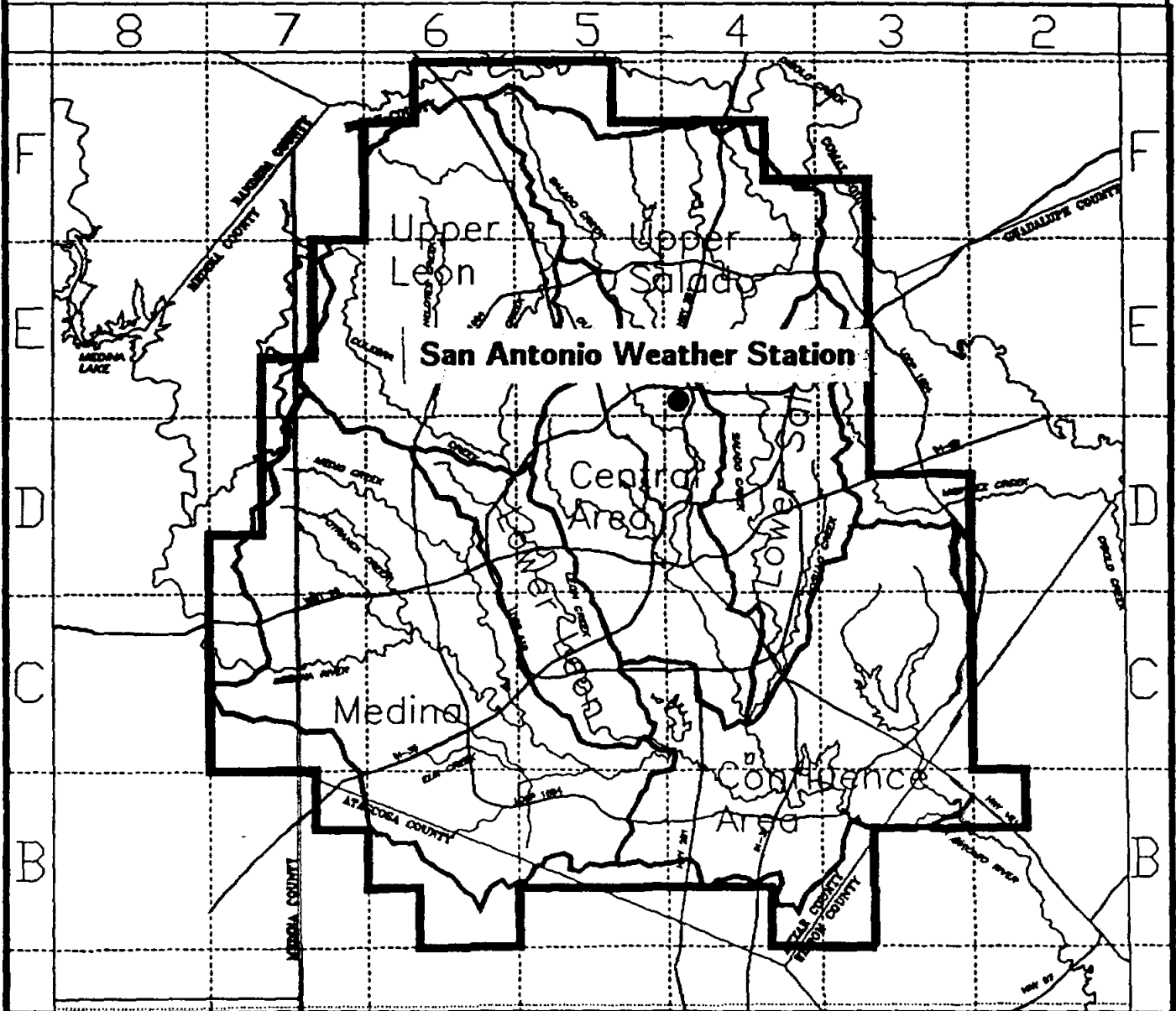


Each YEAR: ◇ 88 □ 89 × 90 + 91

DECEMBER 1991
PRECIPITATION @ SA



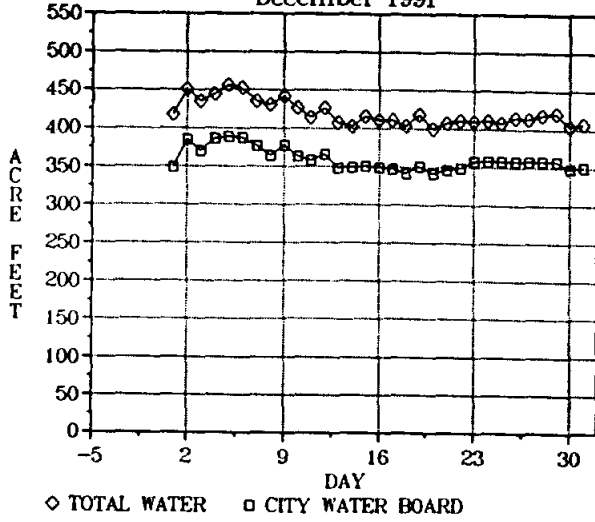
◇ TOTAL FOR DAY



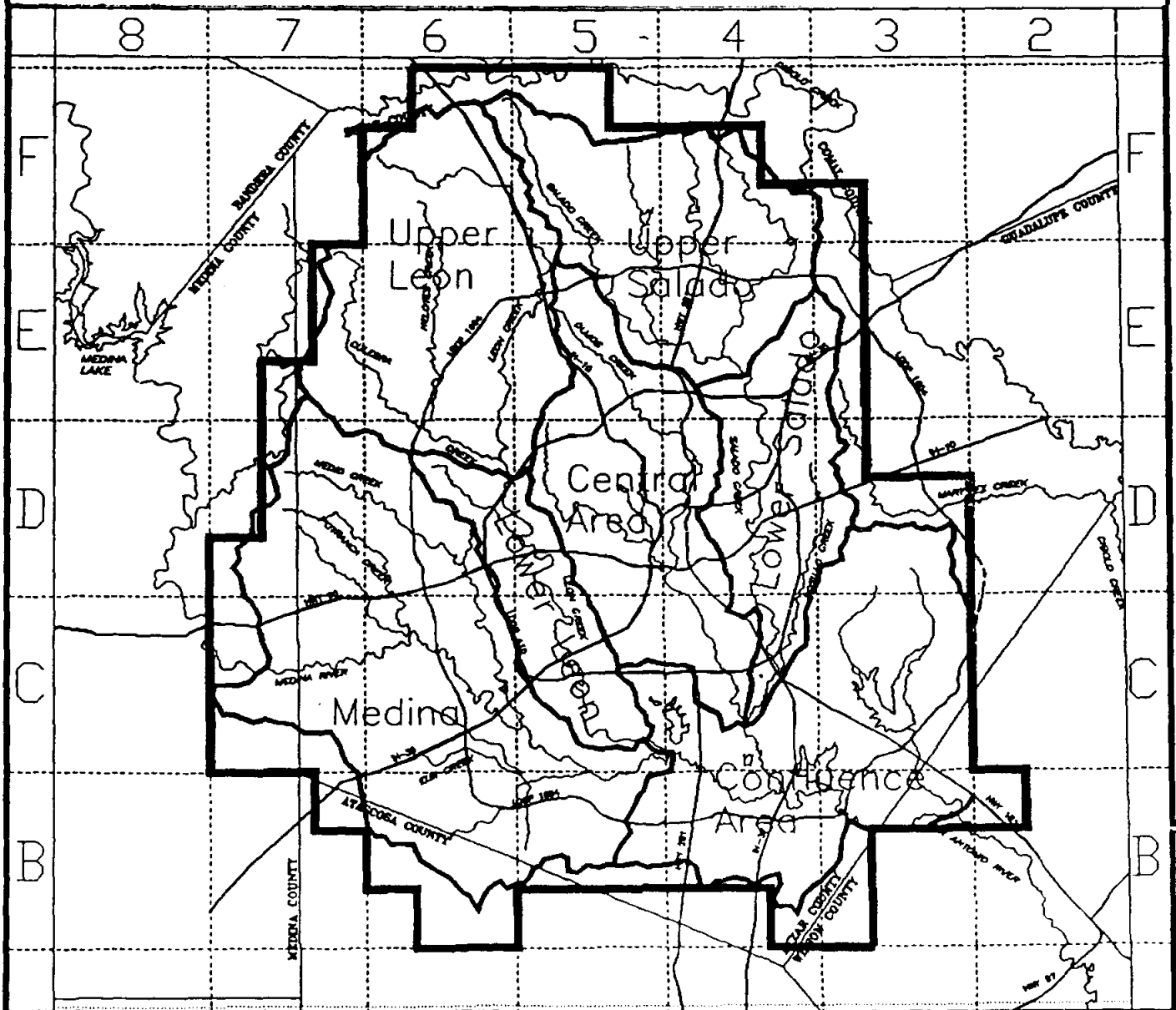
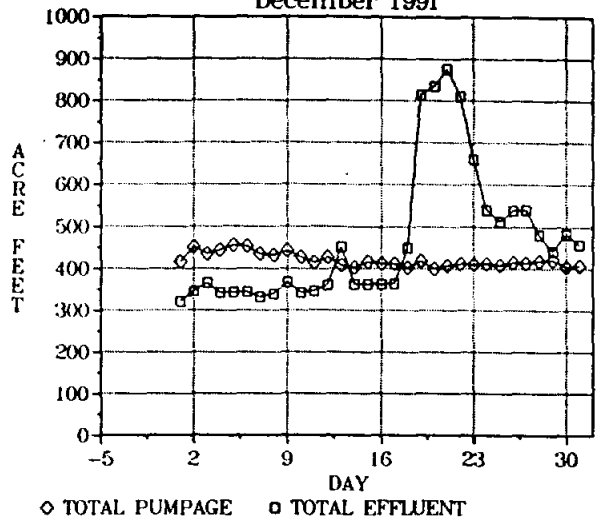
Section 2

MUNICIPAL WATER USE

TOTAL PUMPAGE IN SERVICE AREA
December 1991



TOTAL PUMPAGE AND TOTAL EFFLUENT
December 1991



FILE: 210MONTH.R2D
 REPORT WRITER: 210MONTH.R2R
 DATE OF REPORT: 1/27/92

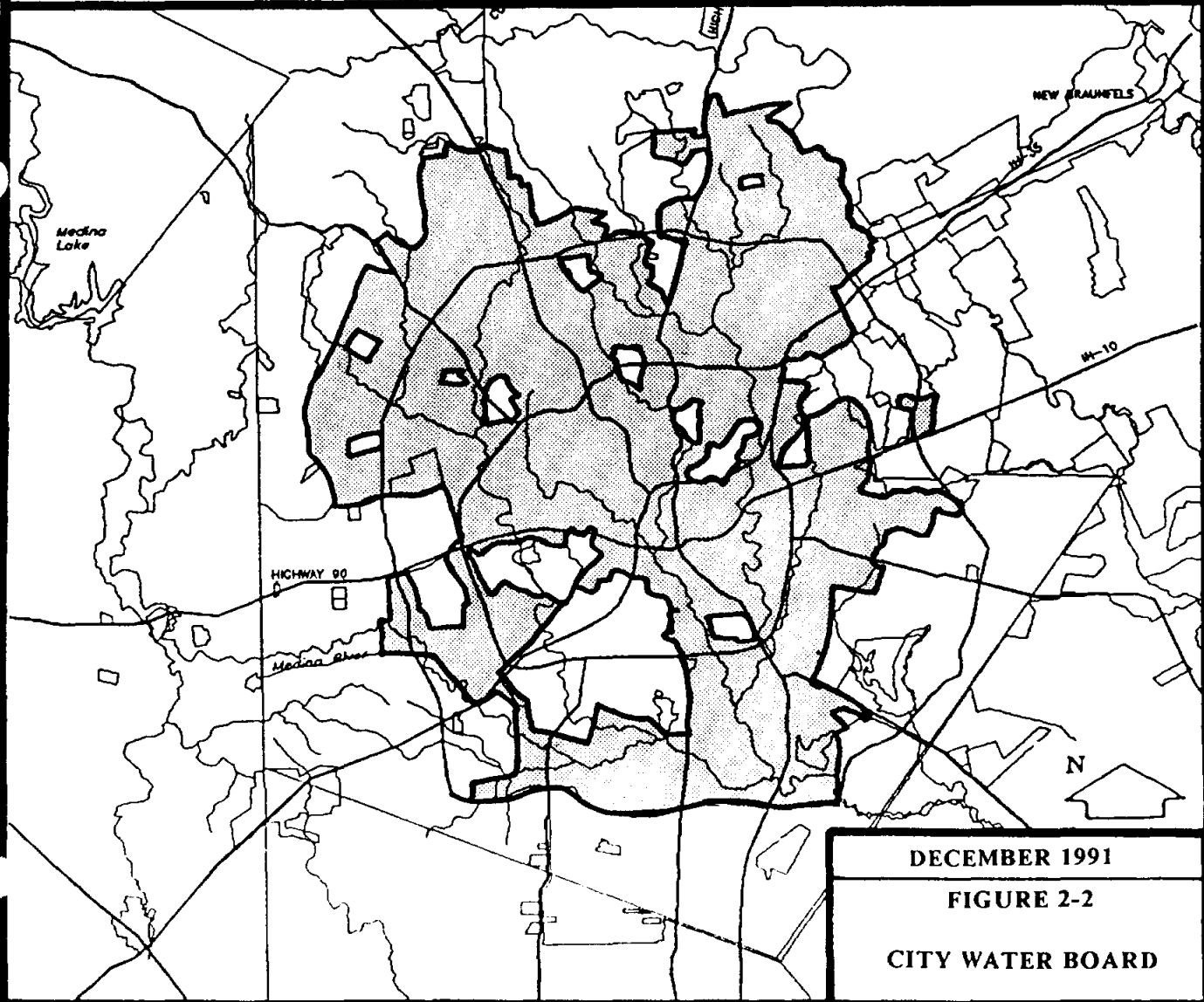
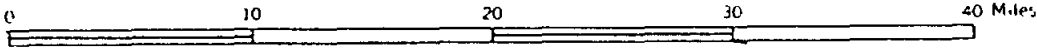
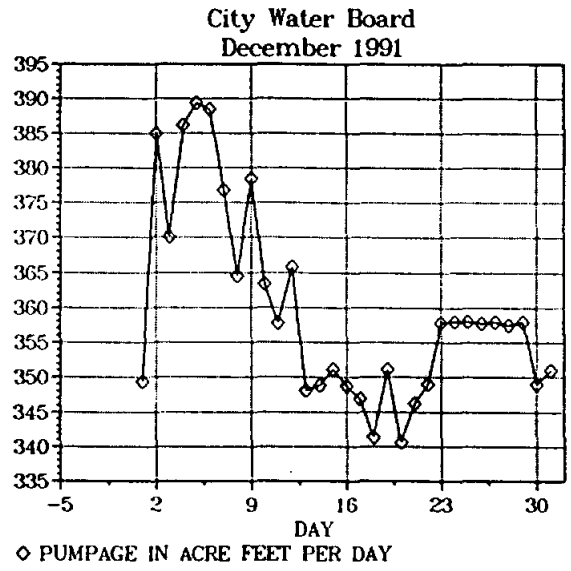
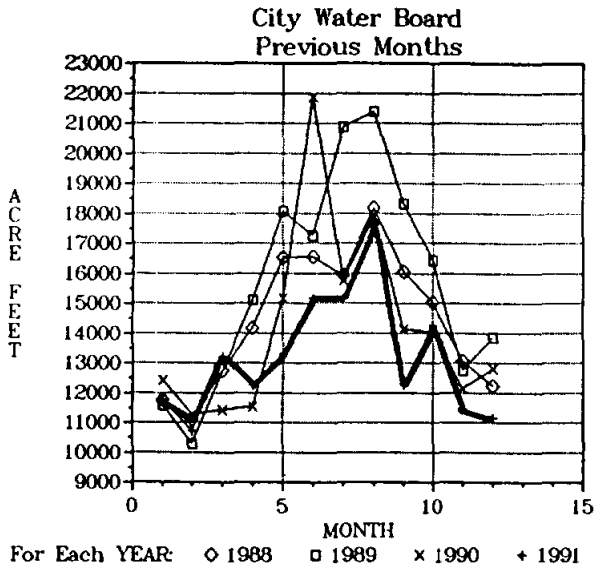
TABLE 2-1

MONTHLY PUMPAGE REPORT
 DECEMBER 1991

Purveyors within CSA Service Area

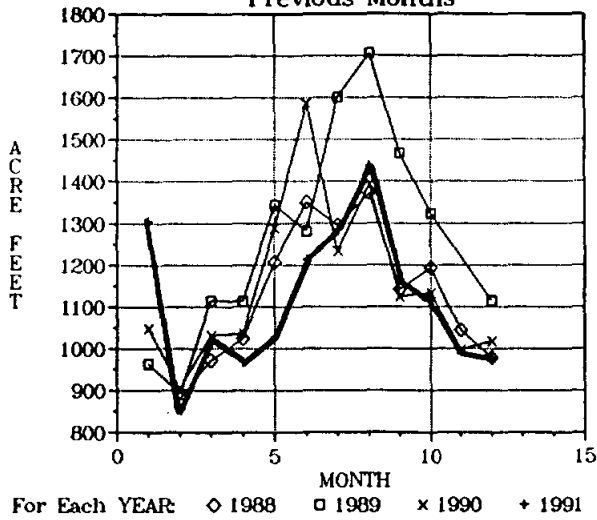
SDH #	ALPHA	NAME	TOTAL PUMPAGE (AF)	# CONNECTIONS
150018	764200	CITY WATER BOARD	11,152.55	243,129
150249	72600	BMWD-SOUTH SIDE	978.34	27,279
150113	889340	KELLY A.F.B.	214.61	N/A
150114	889350	LACKLAND A.F.B.	185.80	3,000
150039	11200	CITY OF ALAMO HEIGHTS	132.73	2,654
150045	72500	BMWD-CASTLE HILLS	129.19	2,581
150178	491900	CITY OF LEON VALLEY	110.79	1,815
150106	72200	WCID #10	70.85	2,145
150010	467000	CITY OF KIRBY	32.69	2,690
150251	767800	SAN FERNANDO WATER CO., INC.	27.77	615
150112	889630	BROOKS A.F.B.	N/A	N/A
15	889158	FORT SAN HOUSTON	N/A	N/A
150054	389400	HILL COUNTRY WATER WORKS CO.	N/A	N/A

TOTAL PUMPAGE: 13,035.32 ACRE-FEET

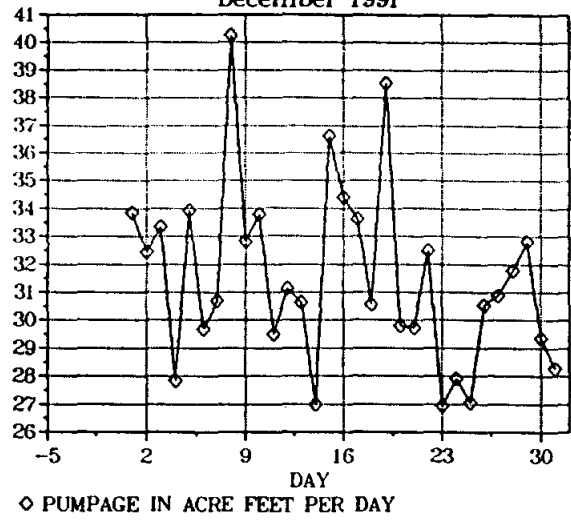


DECEMBER 1991
FIGURE 2-2
CITY WATER BOARD

BMWD - South Side
Previous Months

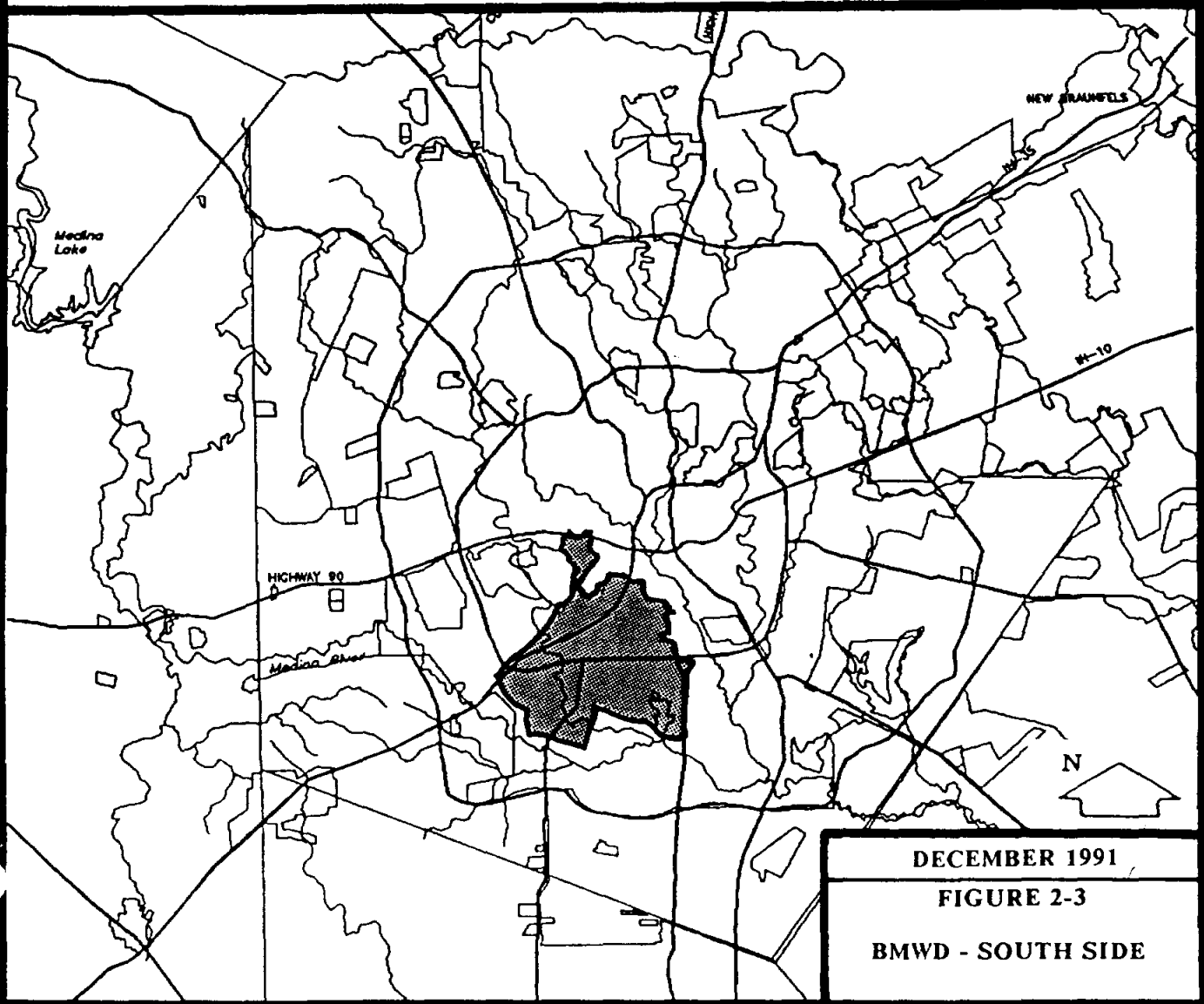
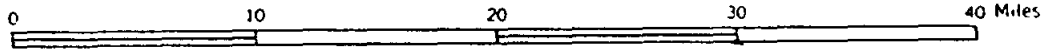


BMWD - South Side
December 1991

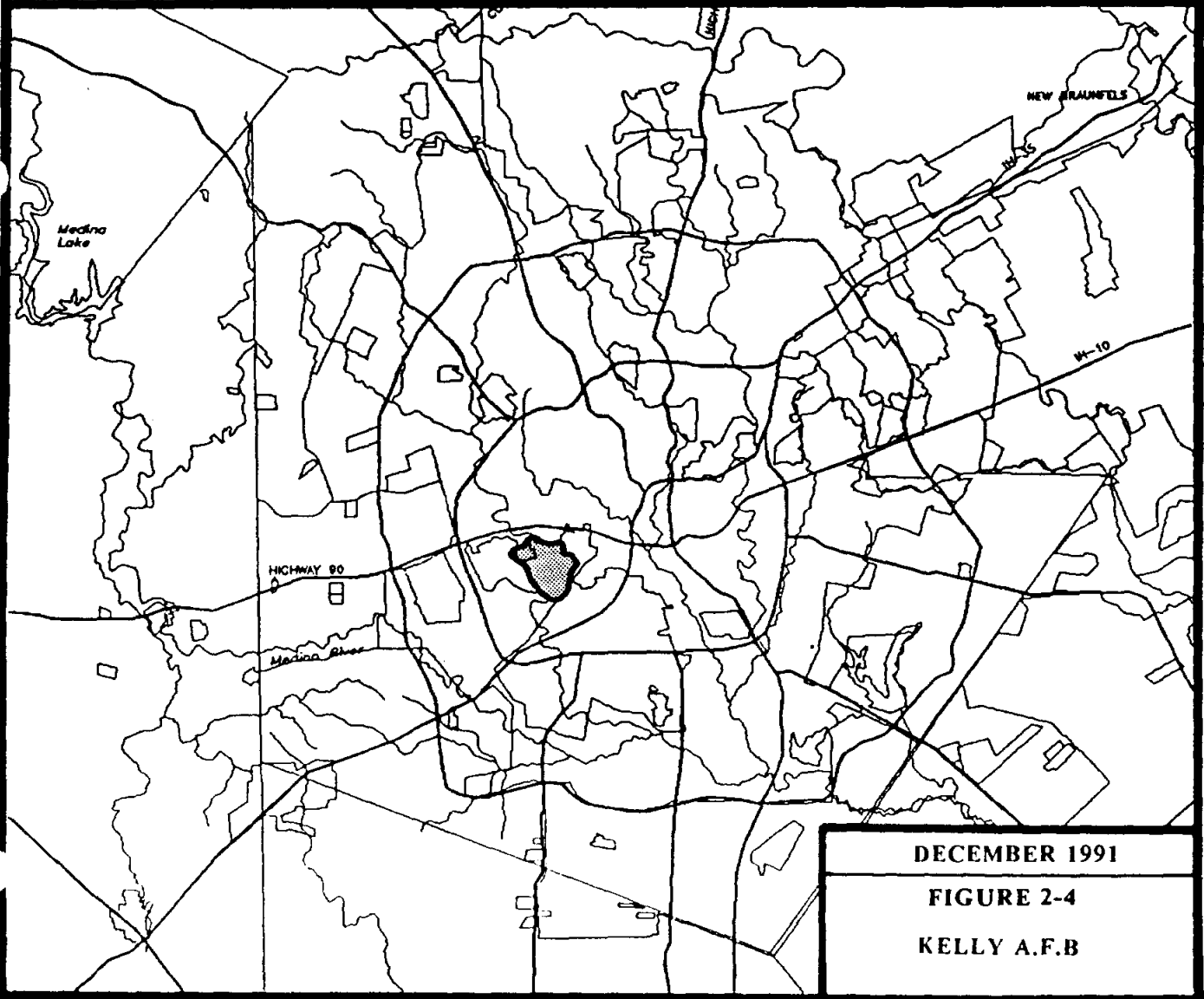
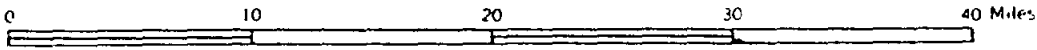
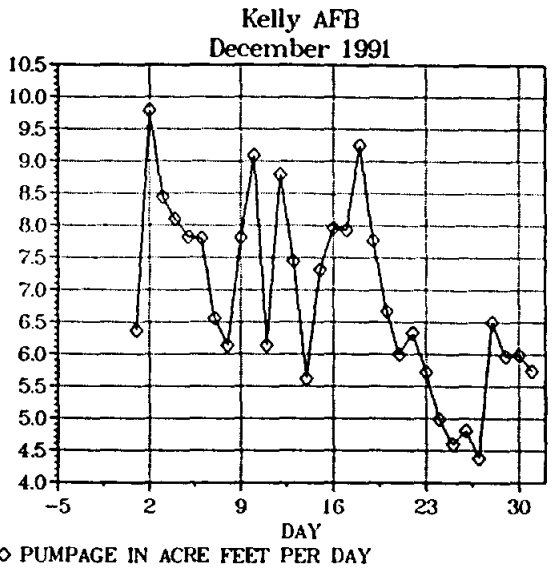
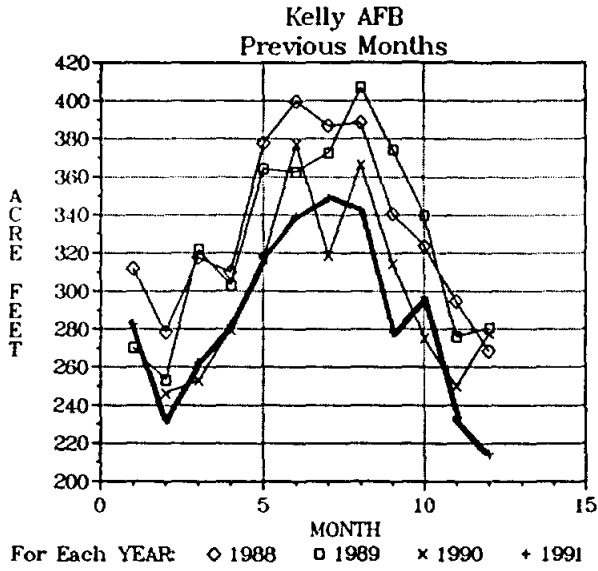


For Each YEAR: ◇ 1989 □ 1990 × 1991 + 1991

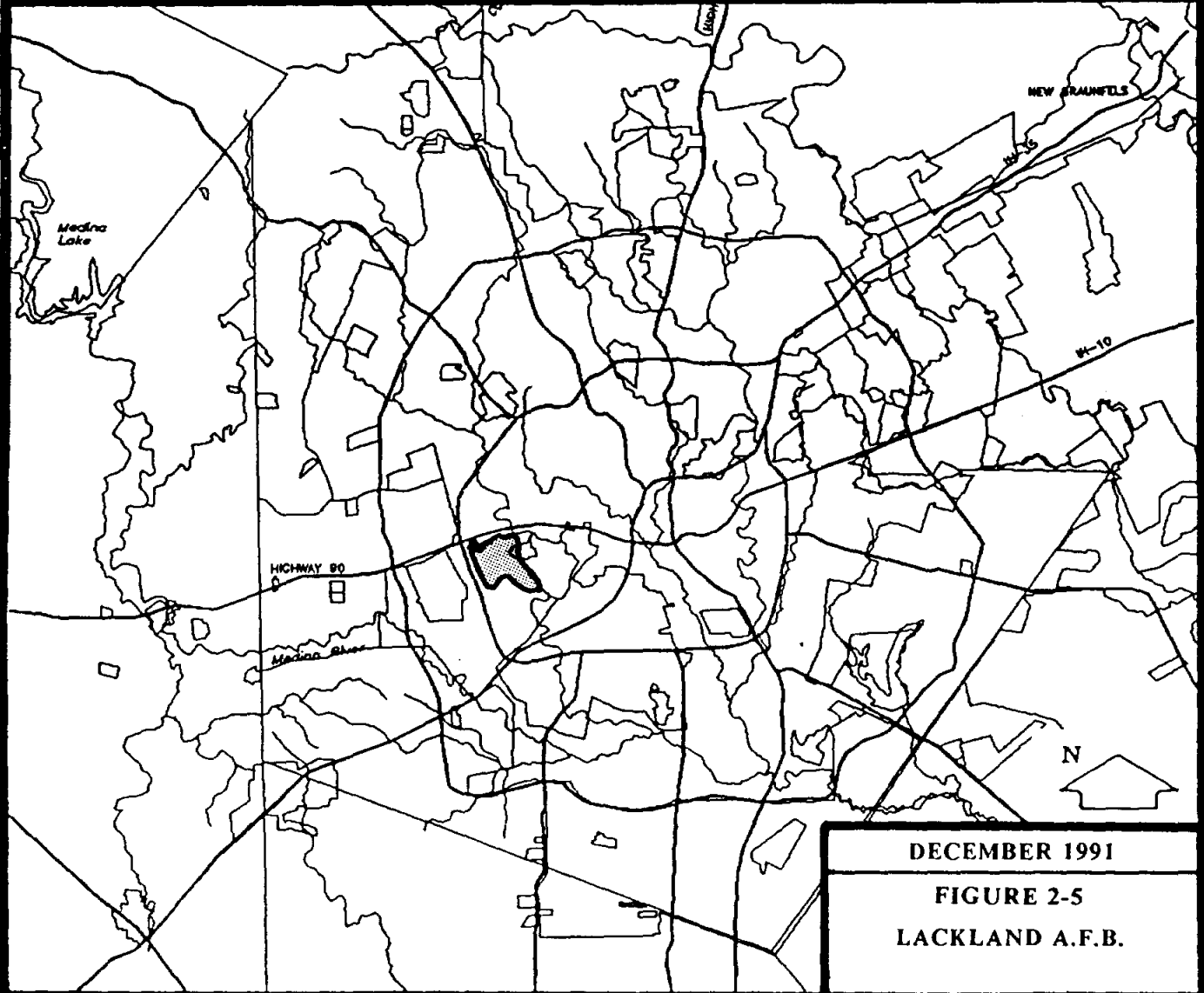
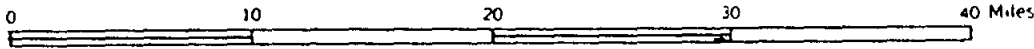
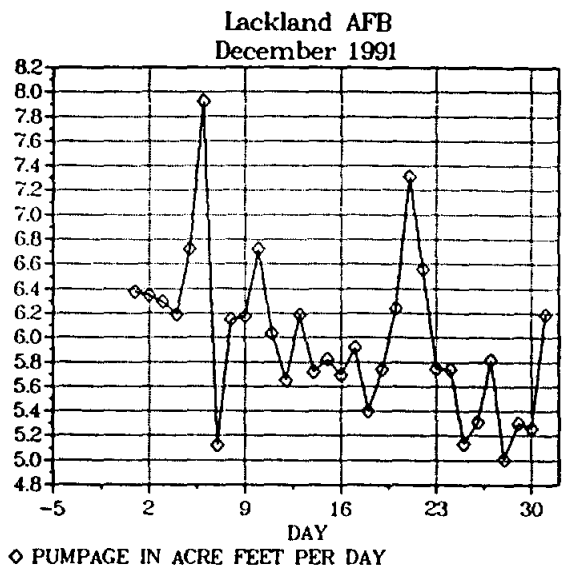
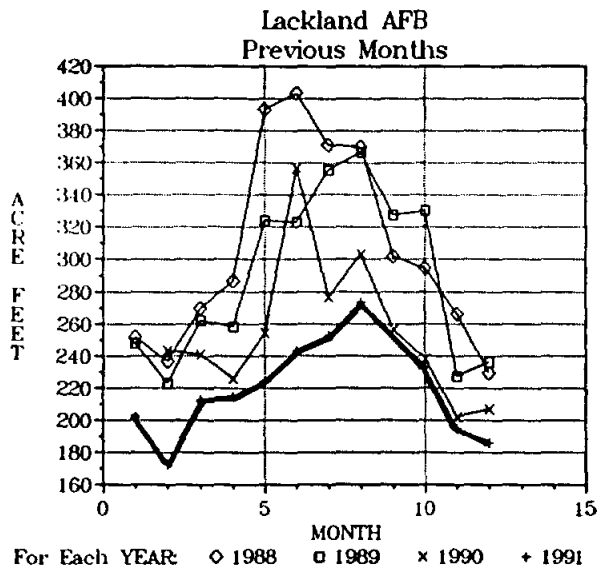
◇ PUMPAGE IN ACRE FEET PER DAY



DECEMBER 1991
FIGURE 2-3
BMWD - SOUTH SIDE

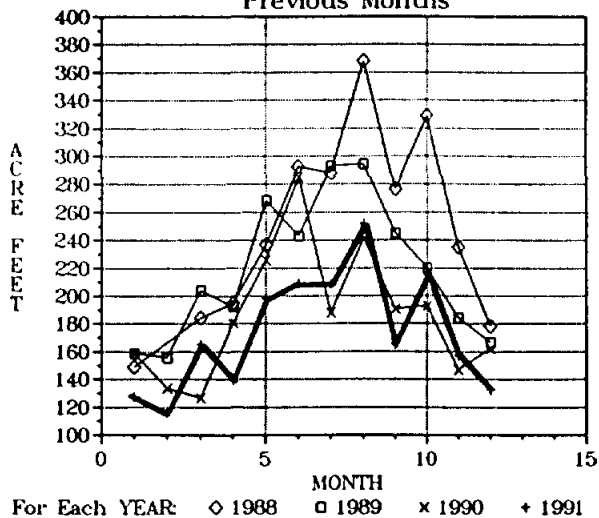


DECEMBER 1991
FIGURE 2-4
KELLY A.F.B

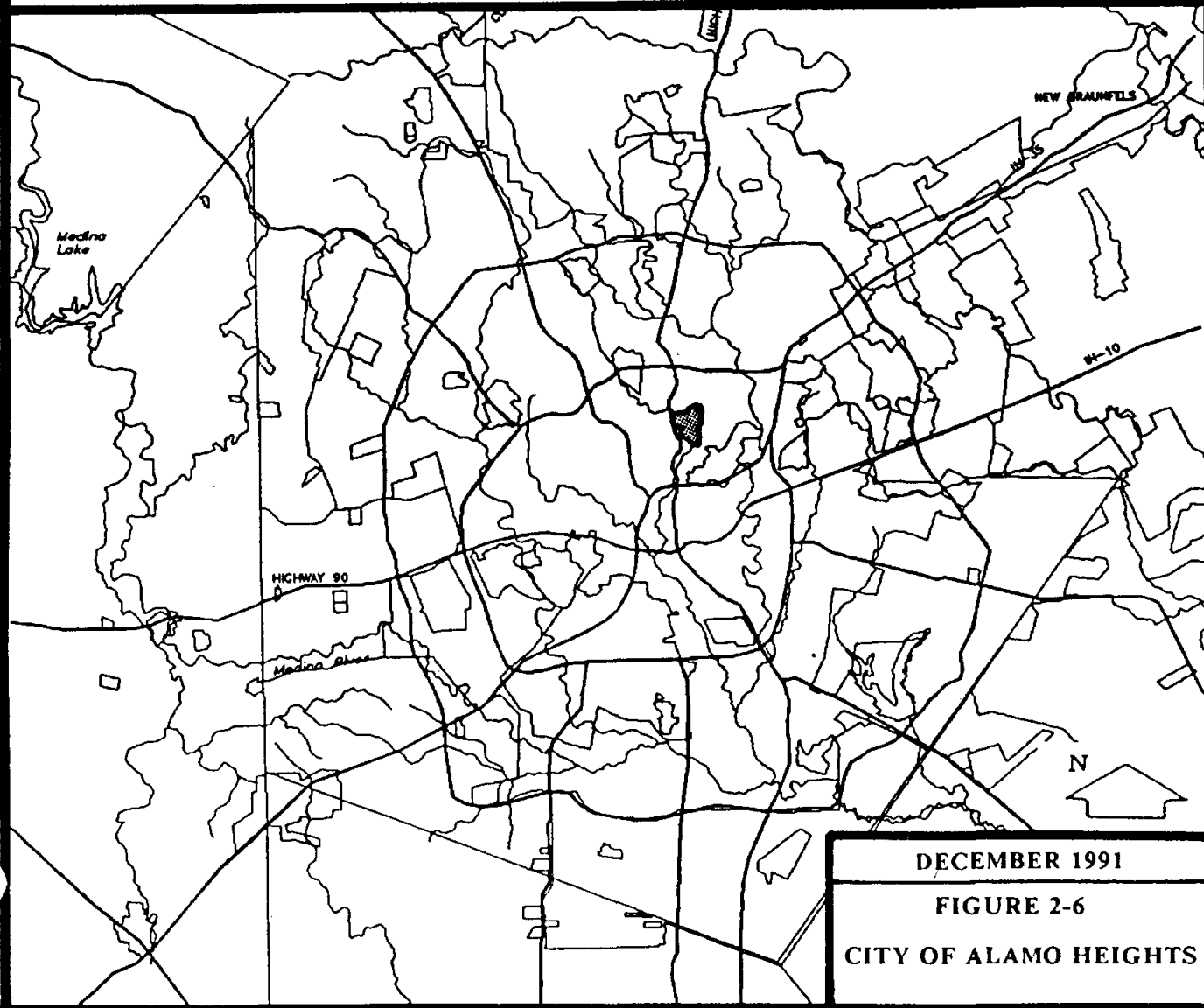
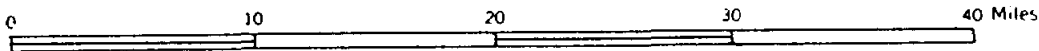
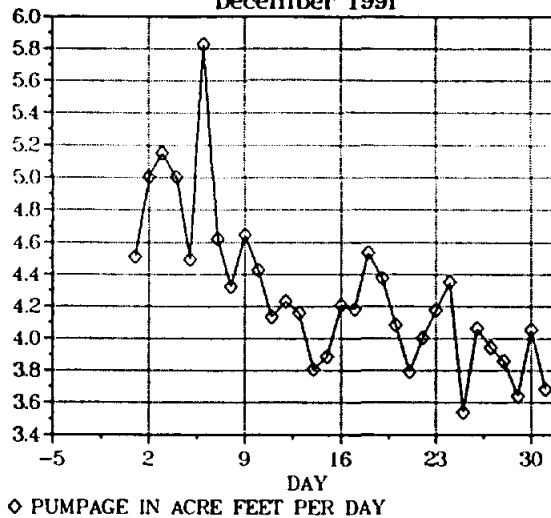


DECEMBER 1991
 FIGURE 2-5
 LACKLAND A.F.B.

City of Alamo Heights
Previous Months

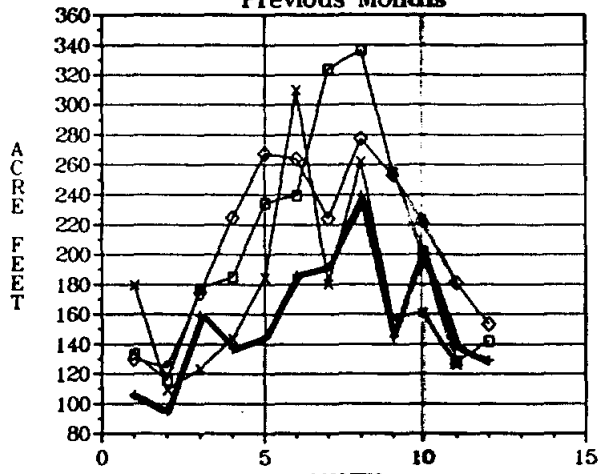


City of Alamo Heights
December 1991

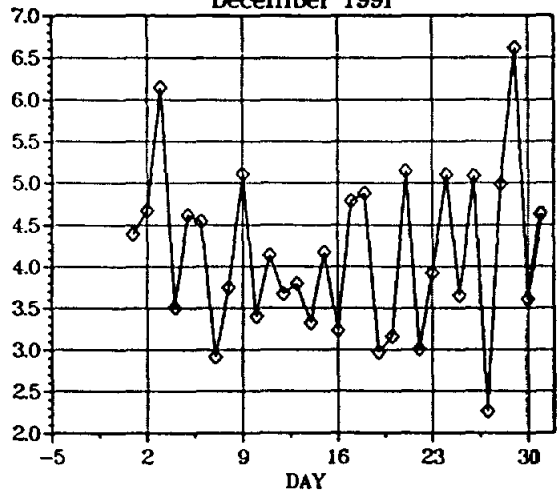


DECEMBER 1991
FIGURE 2-6
CITY OF ALAMO HEIGHTS

BMWD - Castle Hills
Previous Months

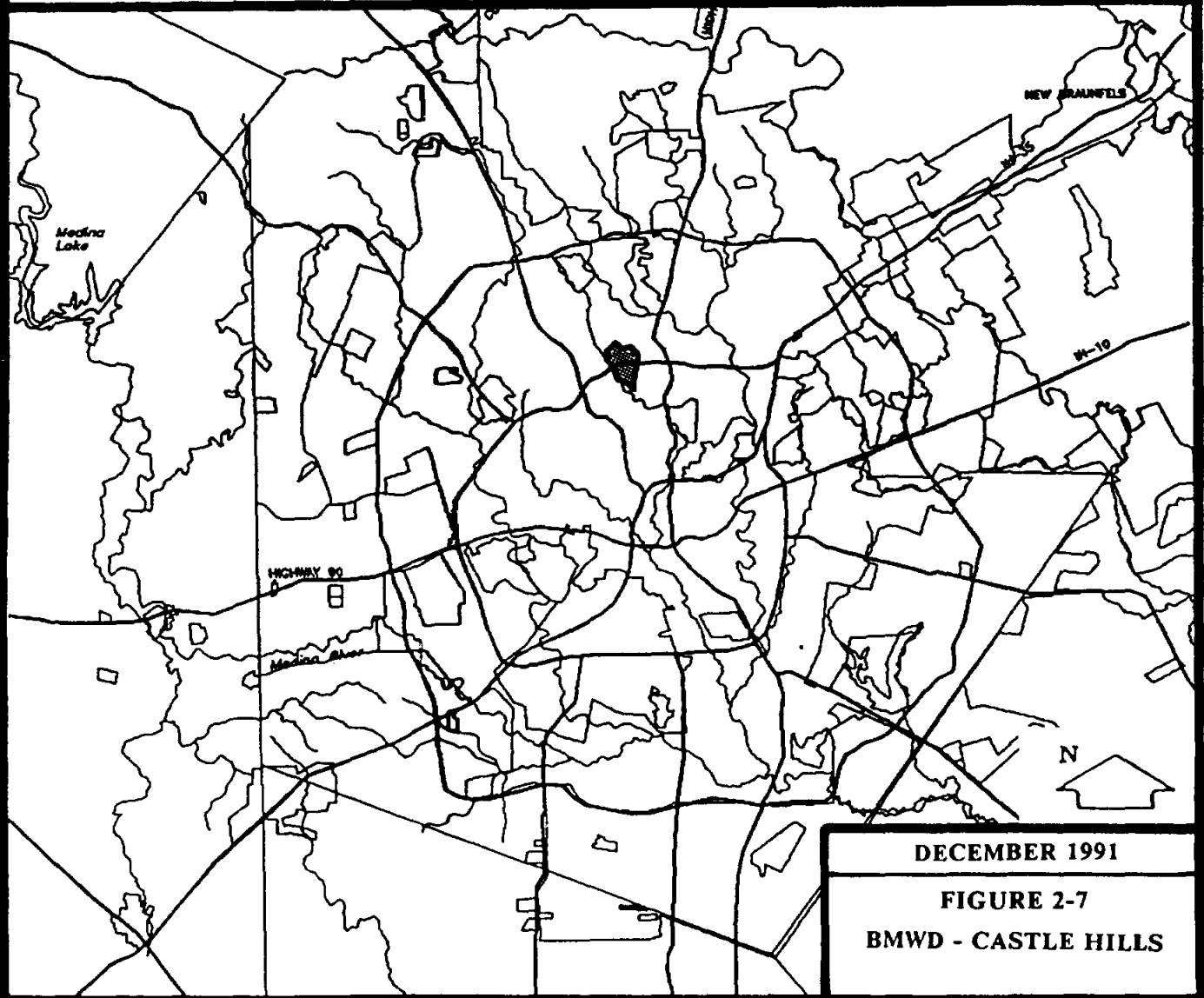
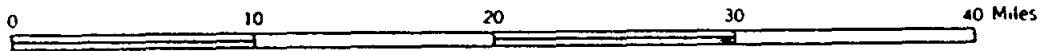


BMWD - Castle Hills
December 1991



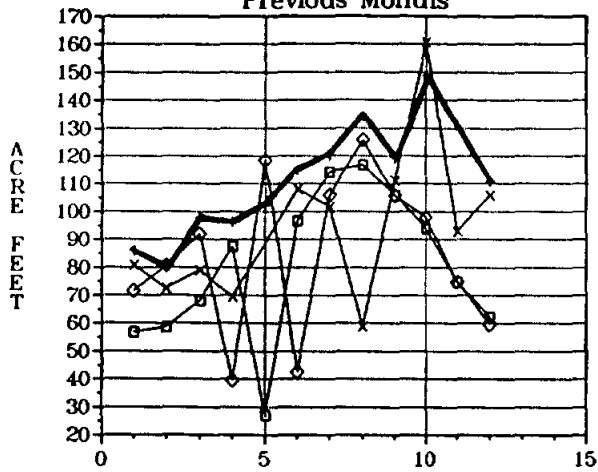
For Each YEAR: \diamond 1988 \square 1989 \times 1990 $+$ 1991

\diamond PUMPAGE IN ACRE FEET PER DAY

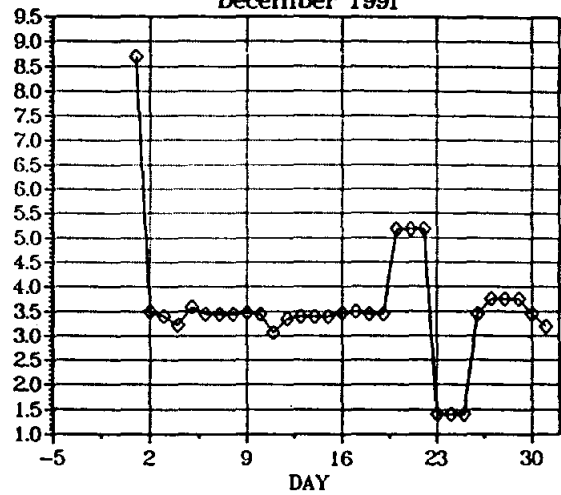


DECEMBER 1991
FIGURE 2-7
BMWD - CASTLE HILLS

**City of Leon Valley
Previous Months**

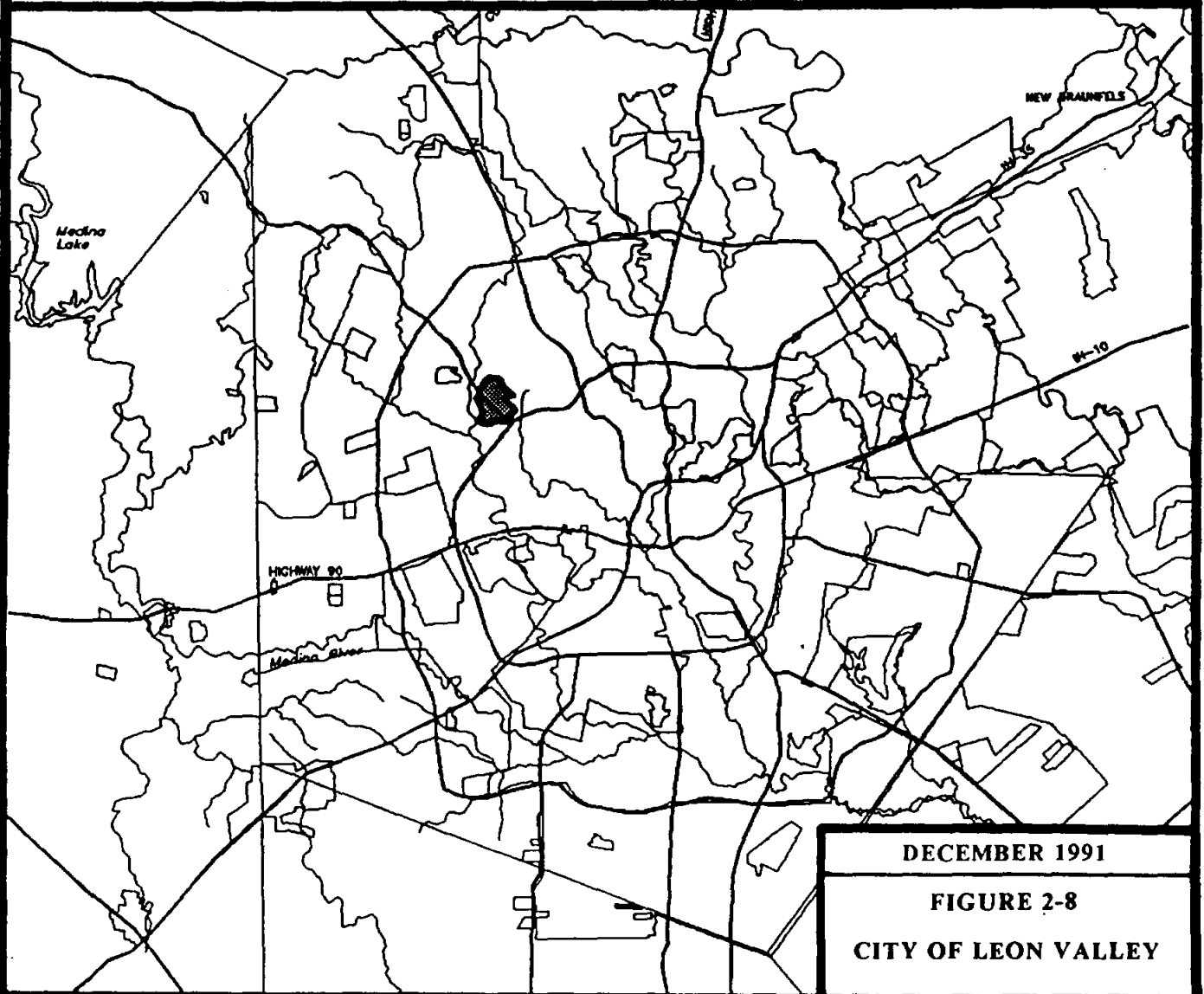
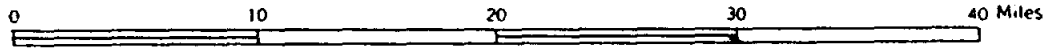


**City of Leon Valley
December 1991**



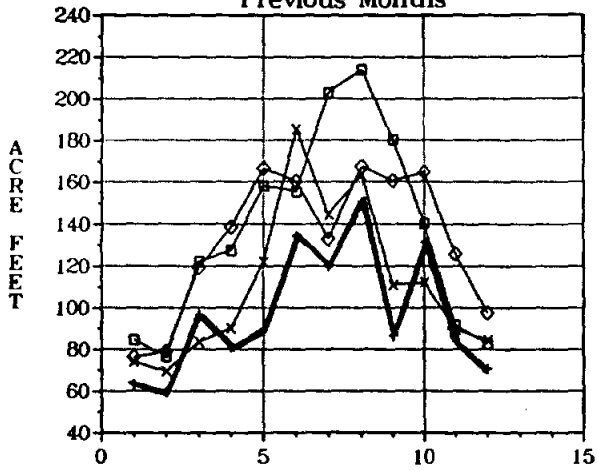
For Each YEAR: \diamond 1988 \square 1989 \times 1990 $+$ 1991

\diamond PUMPAGE IN ACRE FEET PER DAY

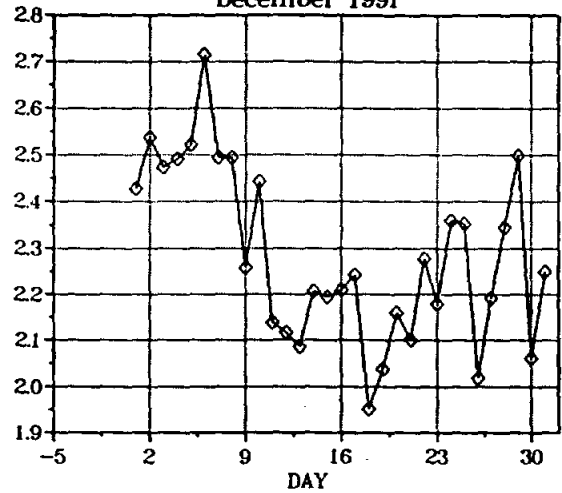


DECEMBER 1991
FIGURE 2-8
CITY OF LEON VALLEY

WCID #10 - Windcrest
Previous Months

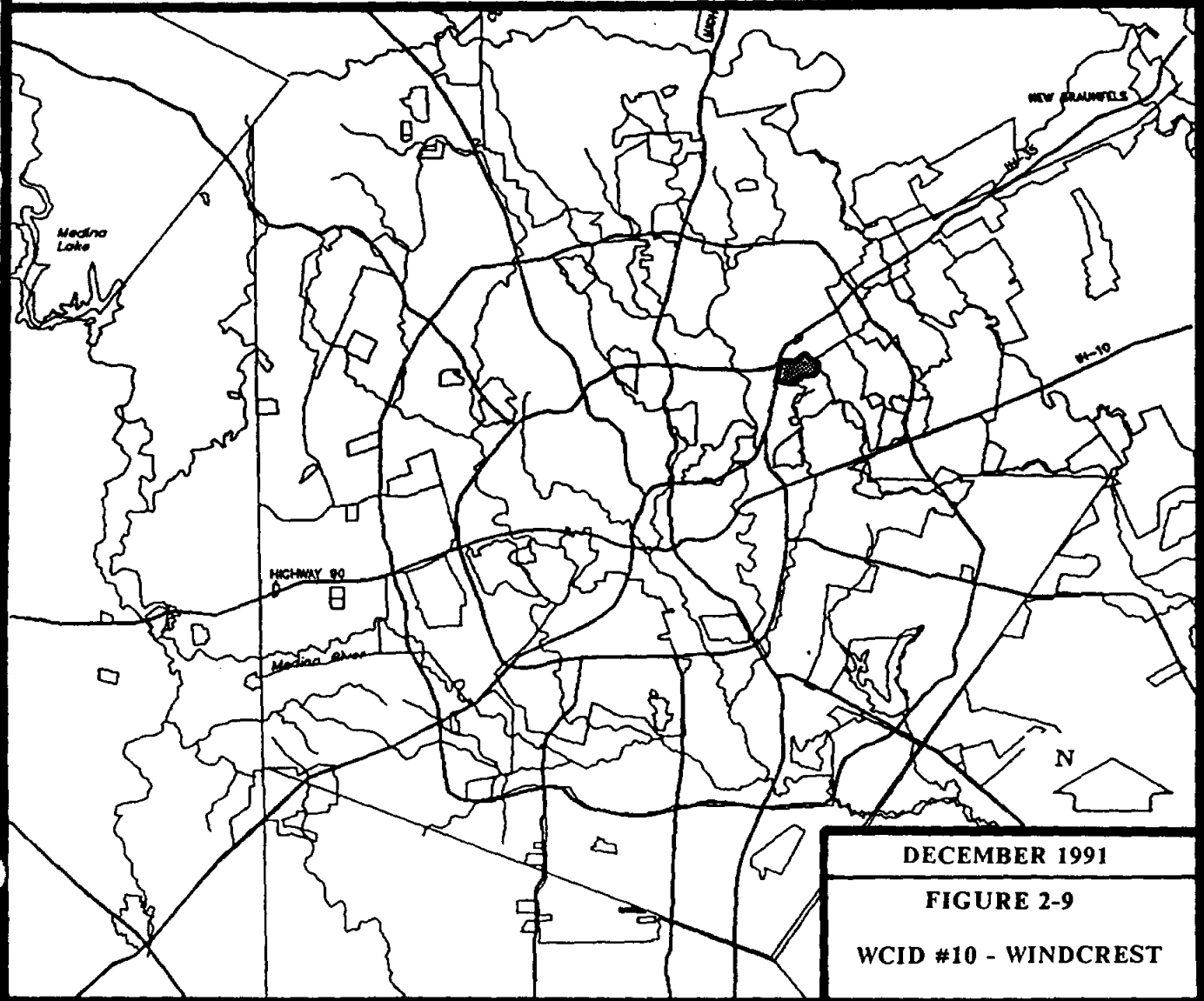
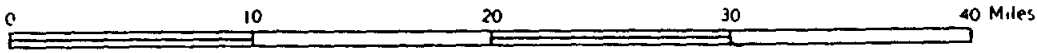


WCID #10 - Windcrest
December 1991

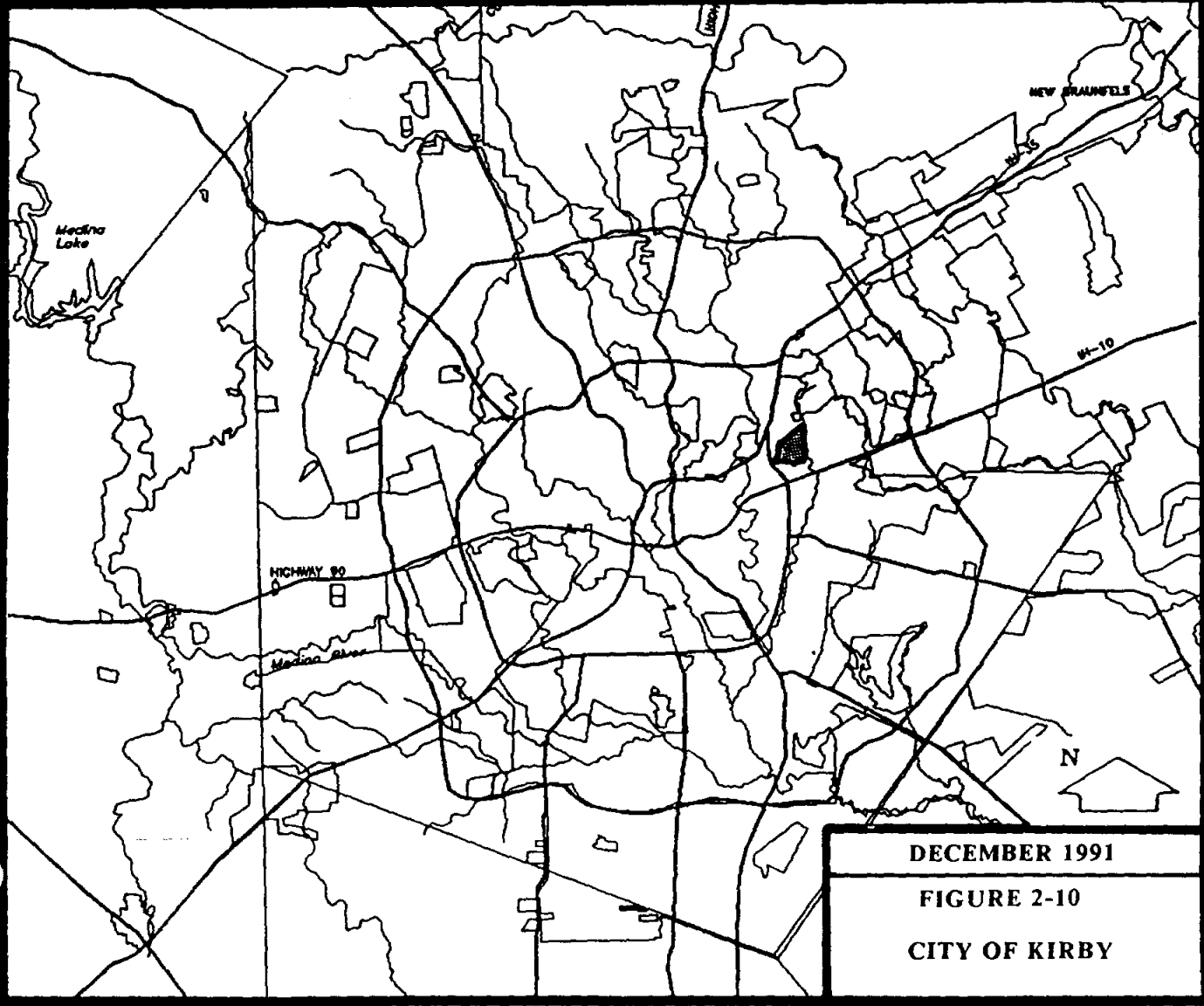
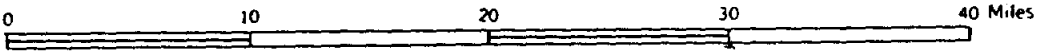
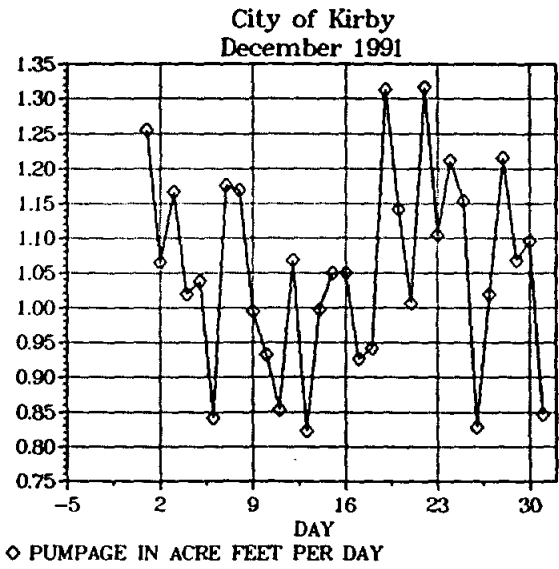
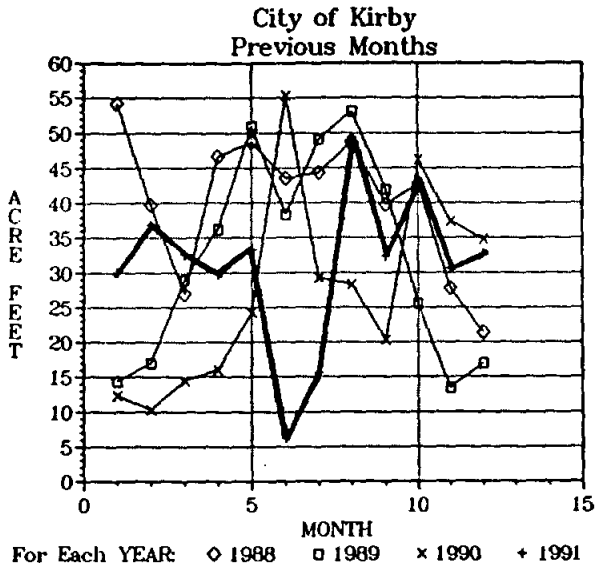


For Each YEAR: ◇ 1988 □ 1989 × 1990 + 1991

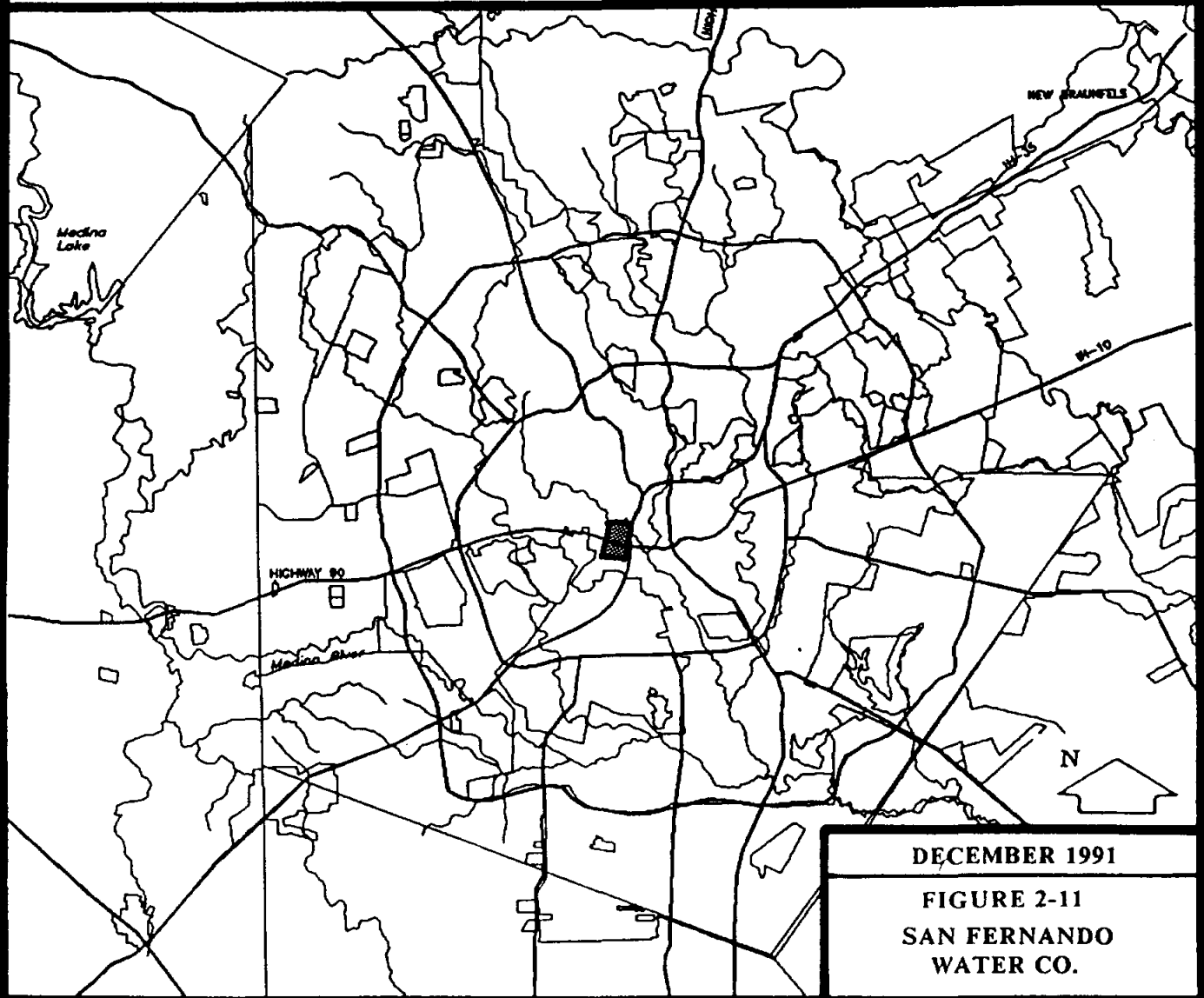
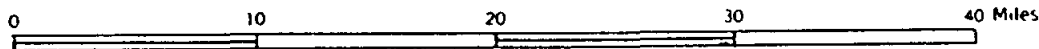
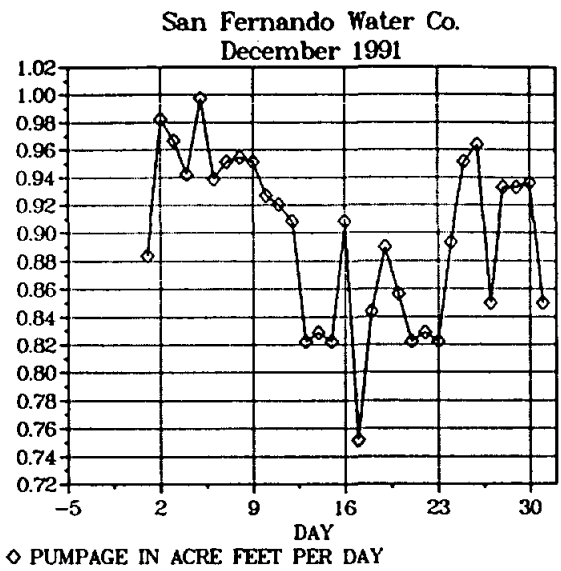
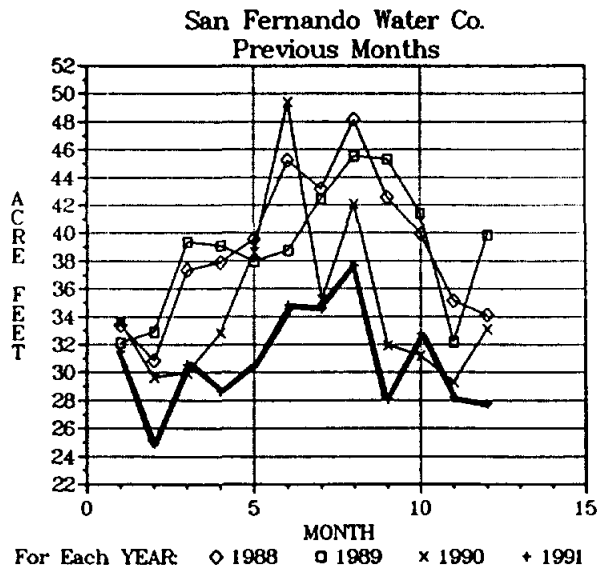
◇ PUMPAGE IN ACRE FEET PER DAY



DECEMBER 1991
FIGURE 2-9
WCID #10 - WINDCREST



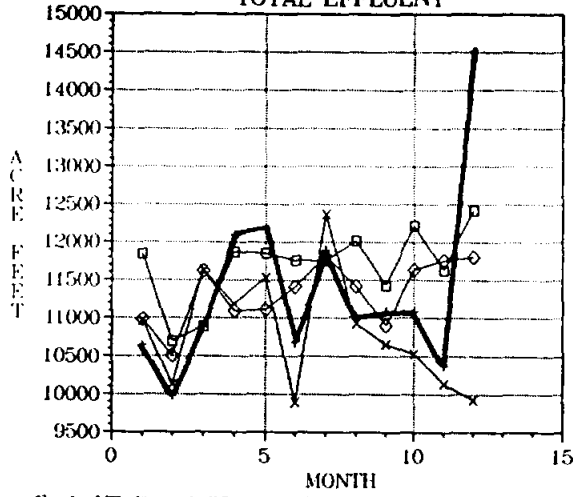
DECEMBER 1991
FIGURE 2-10
CITY OF KIRBY



Section 3

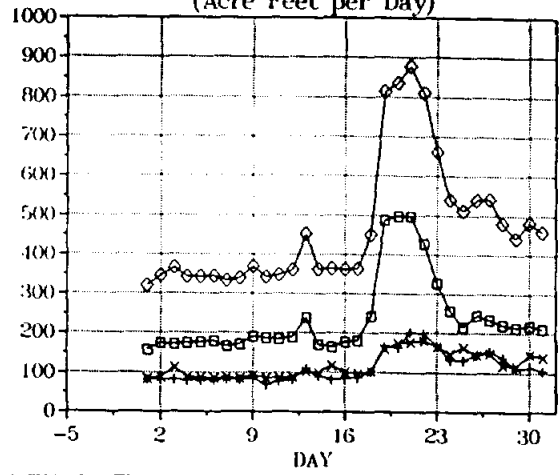
MUNICIPAL EFFLUENTS

PREVIOUS MONTHS
TOTAL EFFLUENT

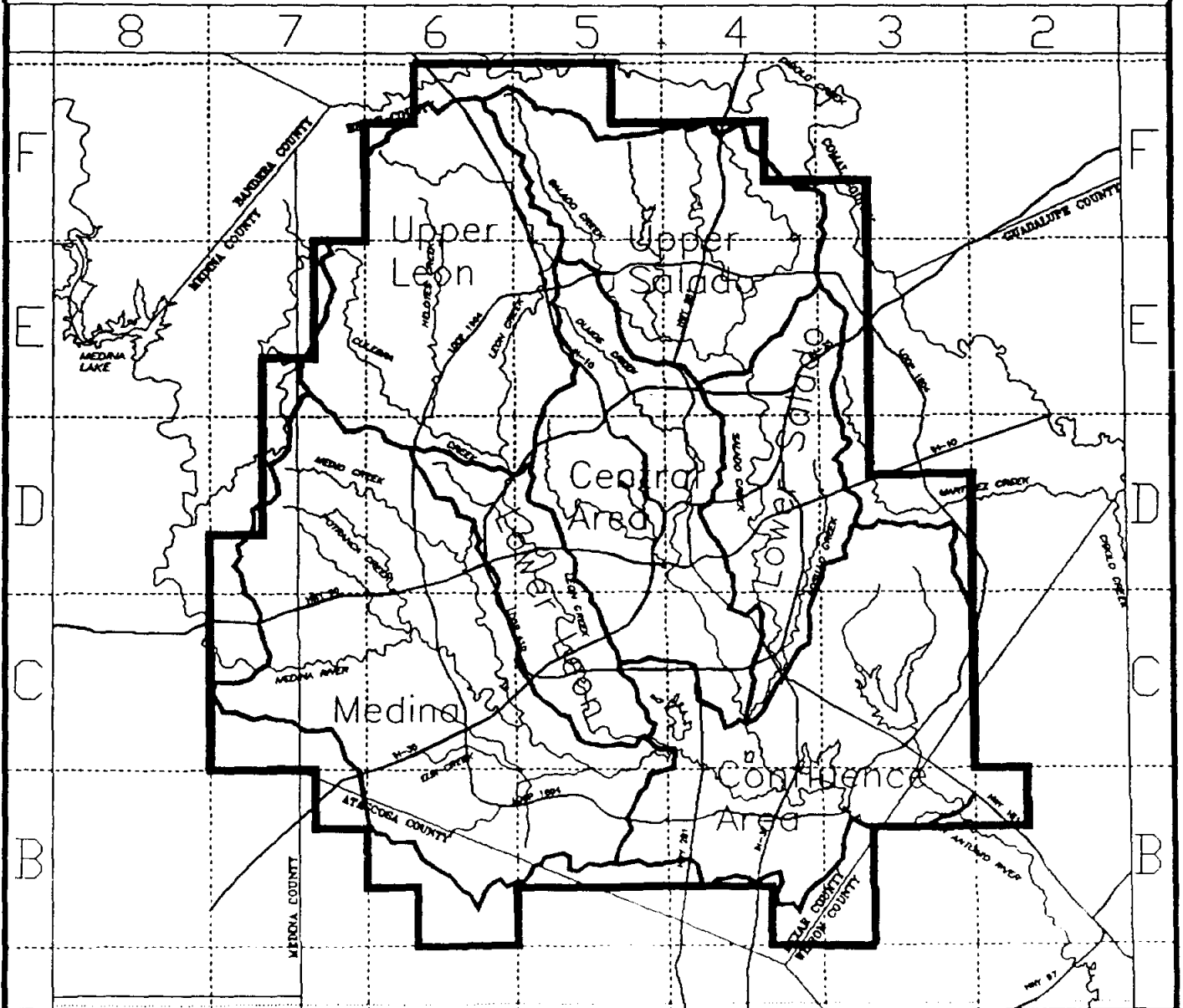


Each YEAR: ◊ 88 ◻ 89 × 90 + 91

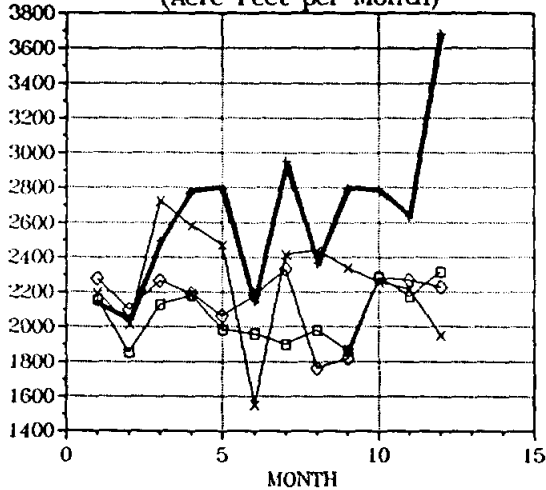
DECEMBER 1991
(Acre Feet per Day)



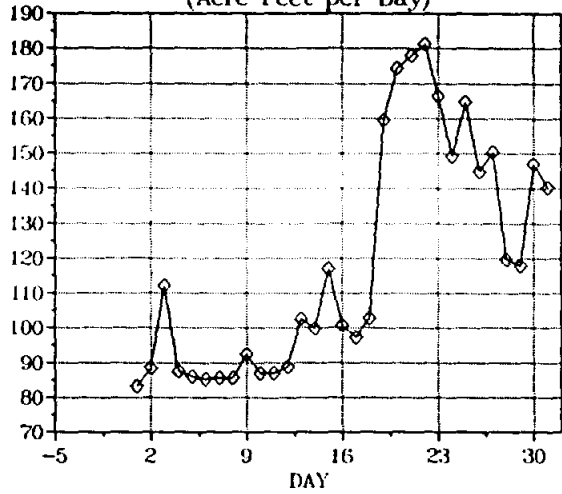
◊ TOTAL EFFLUENT ◻ AF DOS RIOS POTW
× AF LEON POTW + AF SALADO POTW



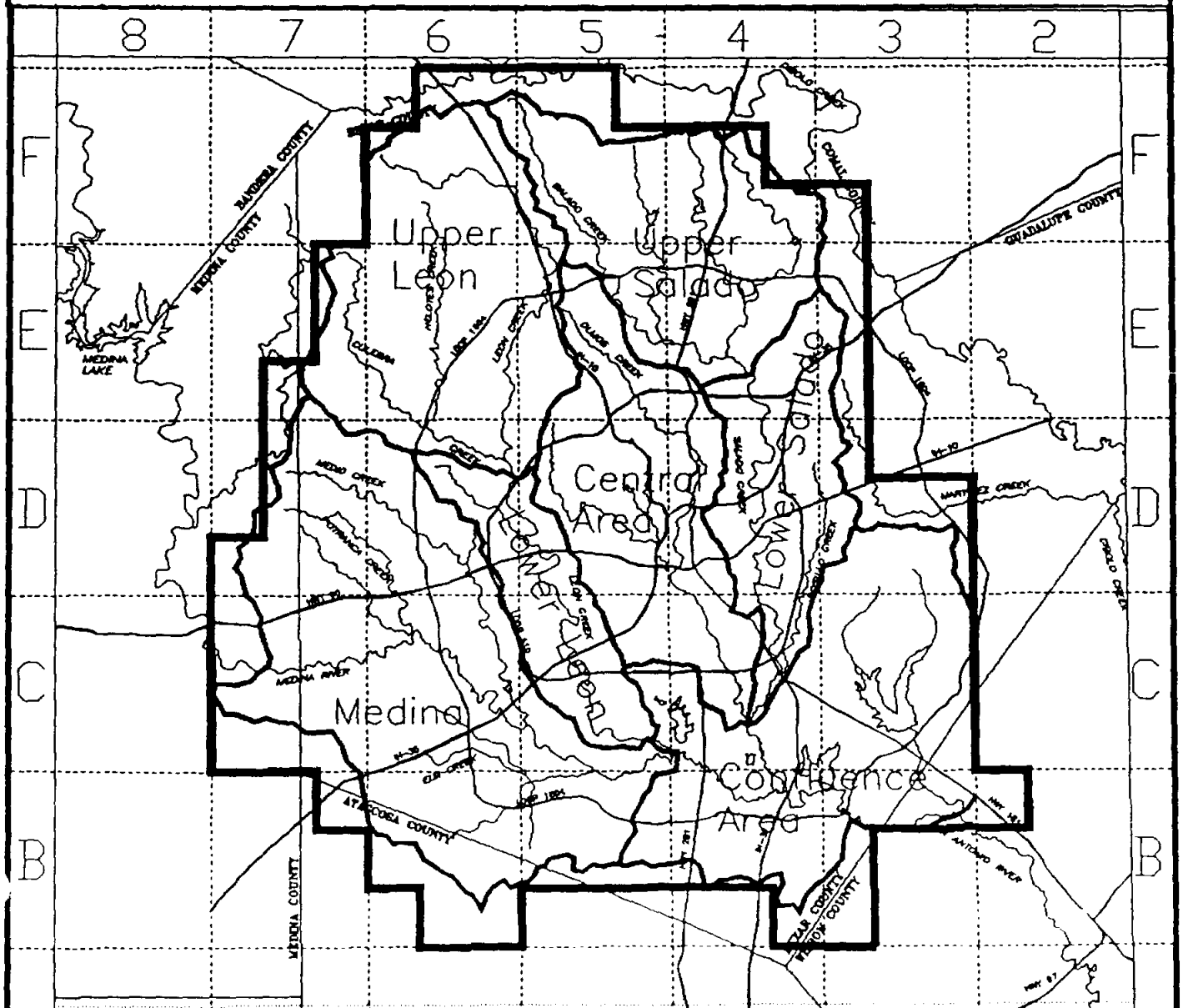
LEON POTW
(Acre Feet per Month)



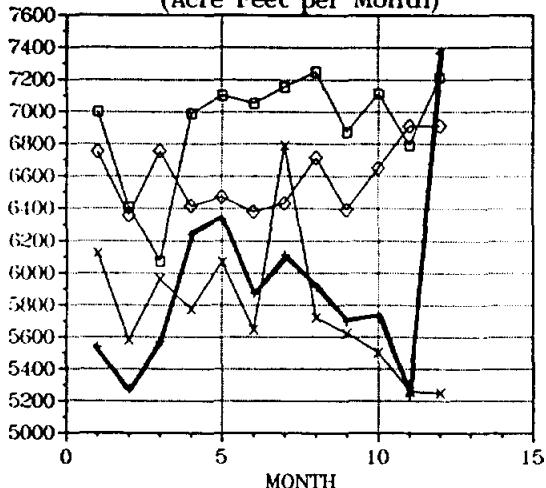
LEON POTW
(Acre Feet per Day)



Each YEAR: ◇ 88 □ 89 × 90 + 91

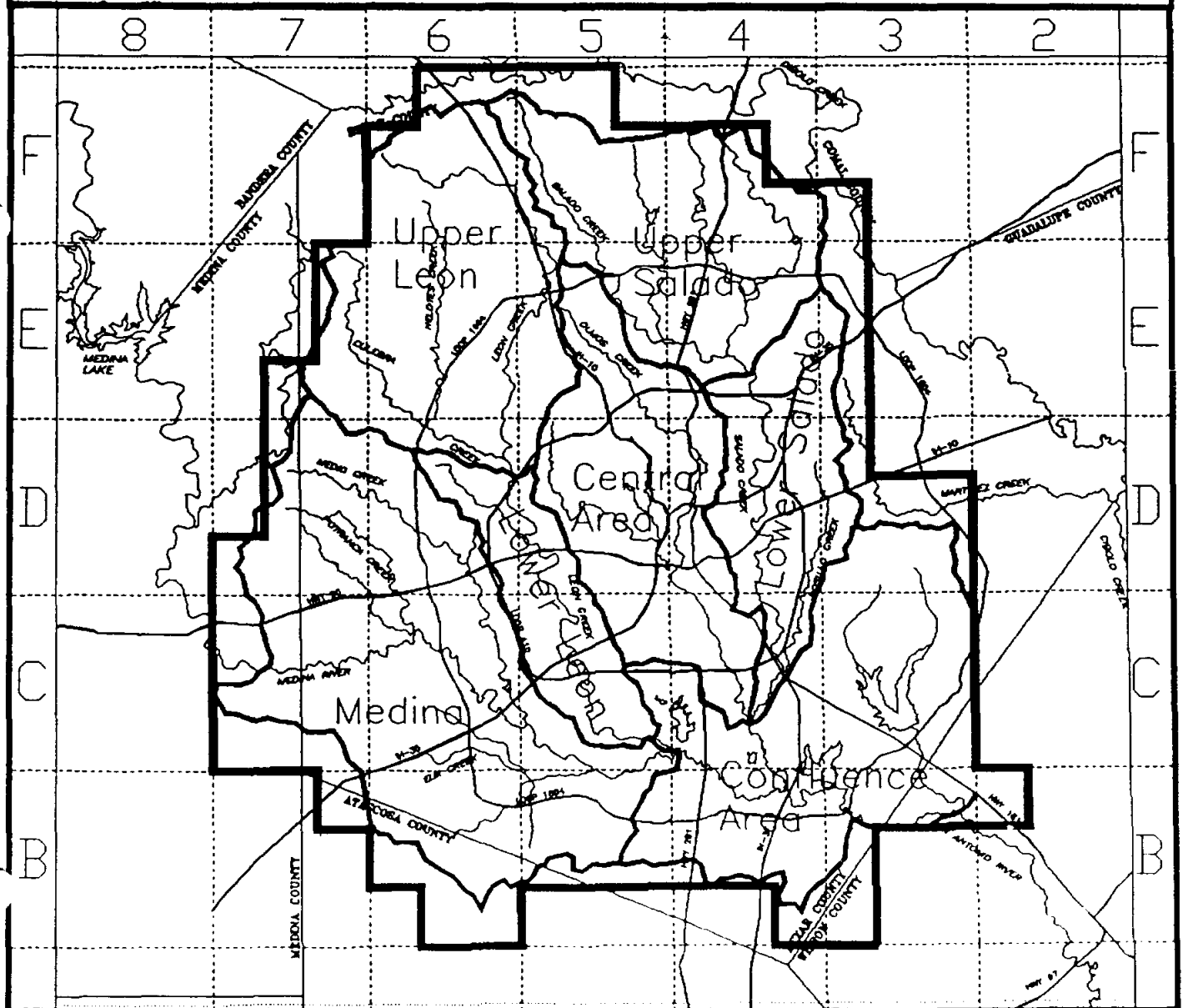
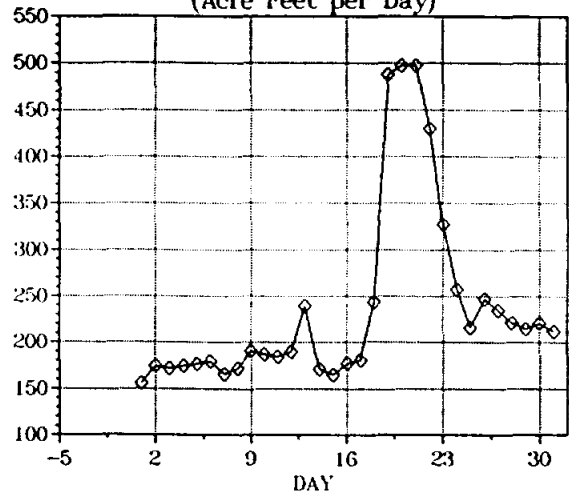


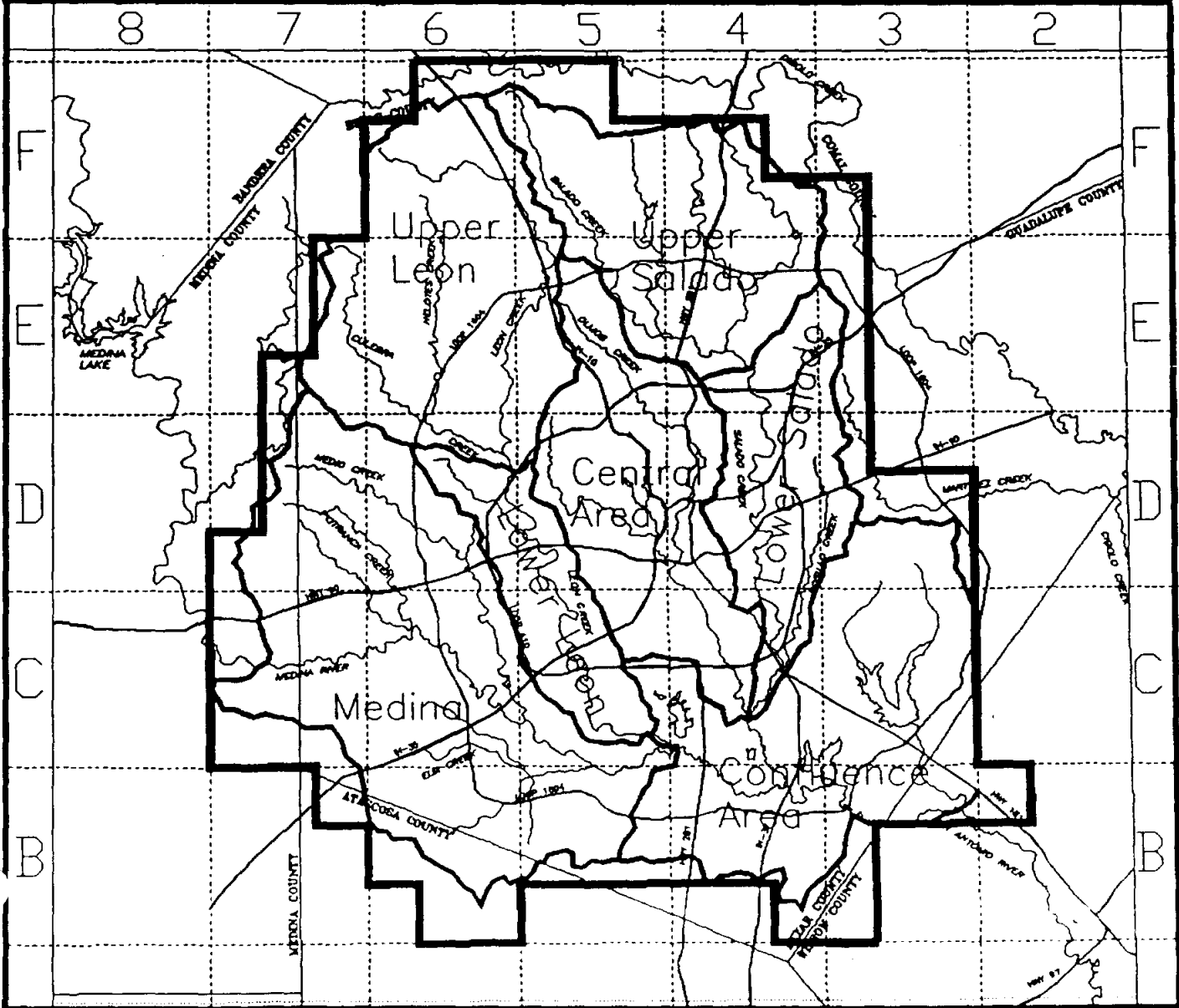
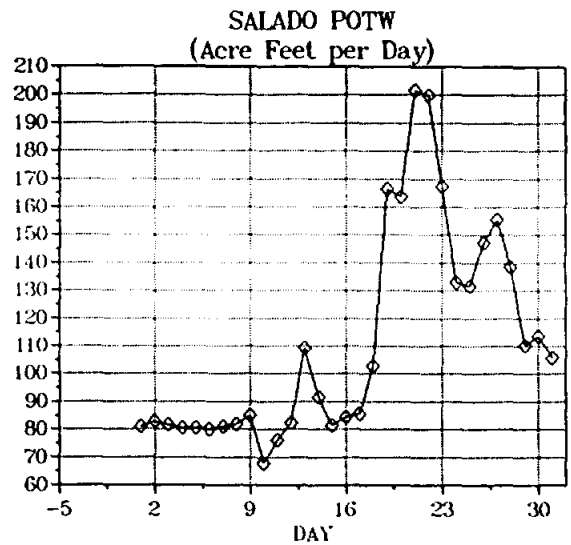
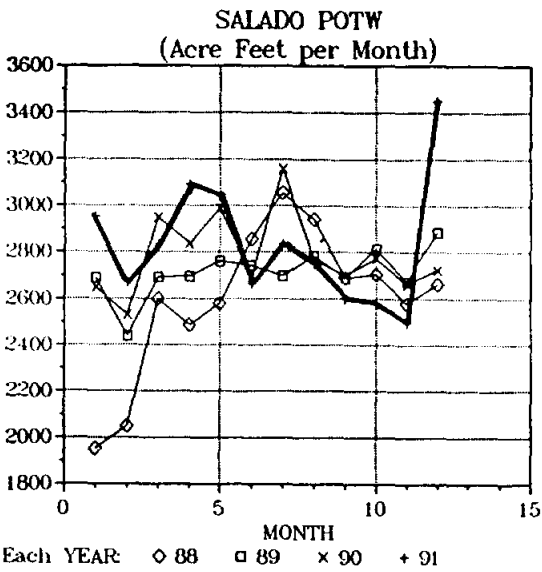
DOS RIOS POTW
(Acre Feet per Month)



Each YEAR: ◇ 88 □ 89 × 90 + 91

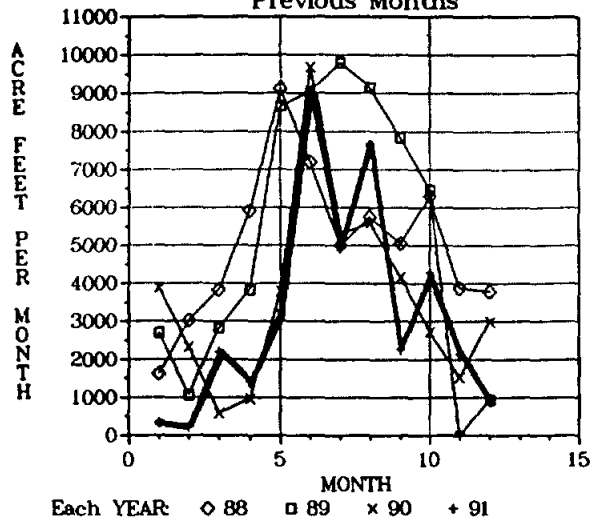
DOS RIOS POTW
(Acre Feet per Day)



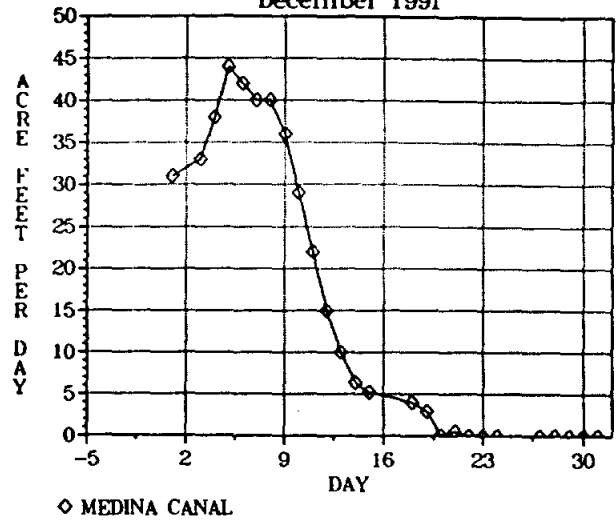


Section 4
DIVERSIONS

MEDINA CANAL DIVERSION (AF/MO)
Previous Months

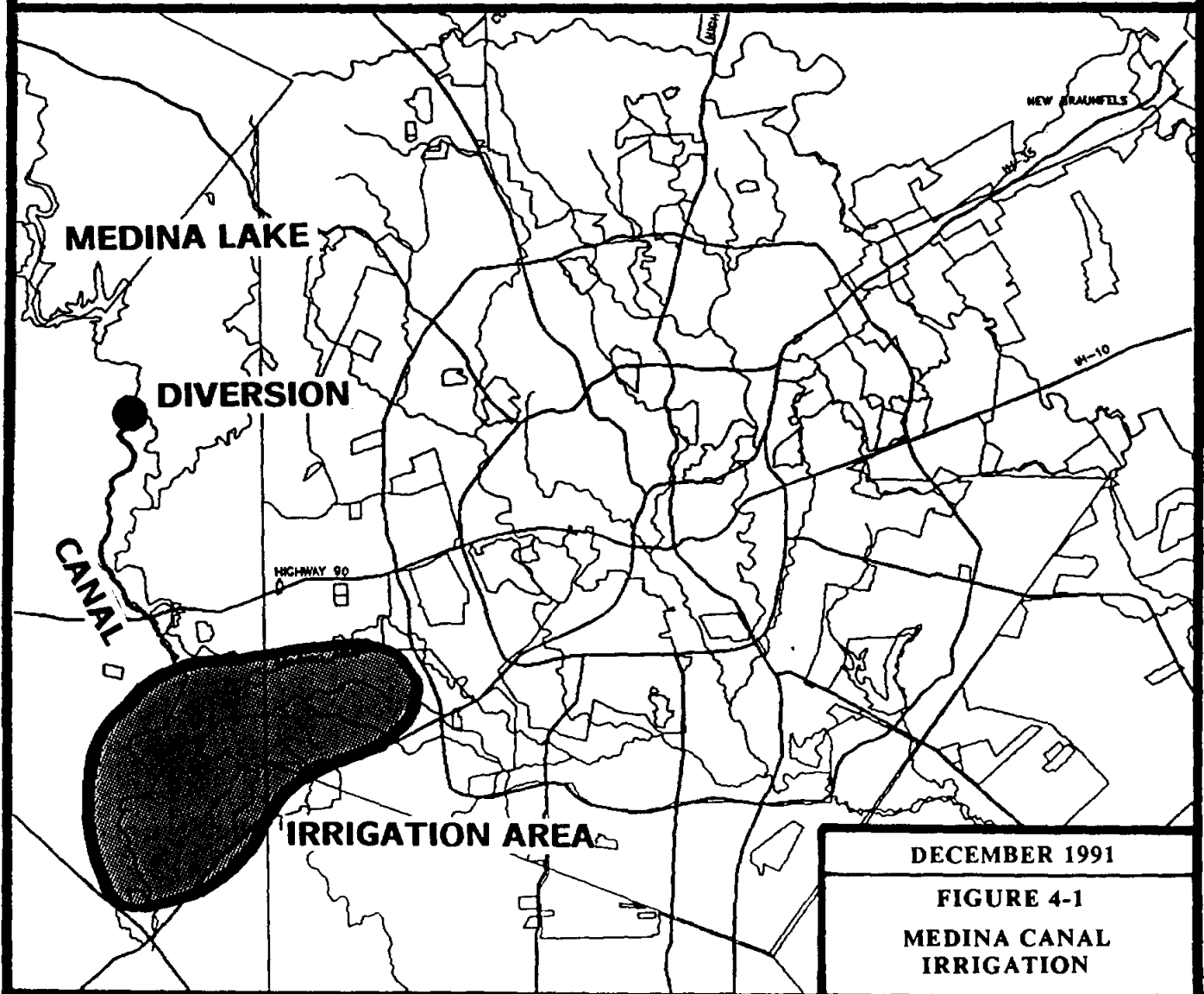
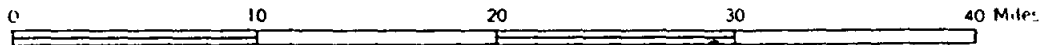


MEDINA CANAL DIVERSION (AF/DAY)
December 1991



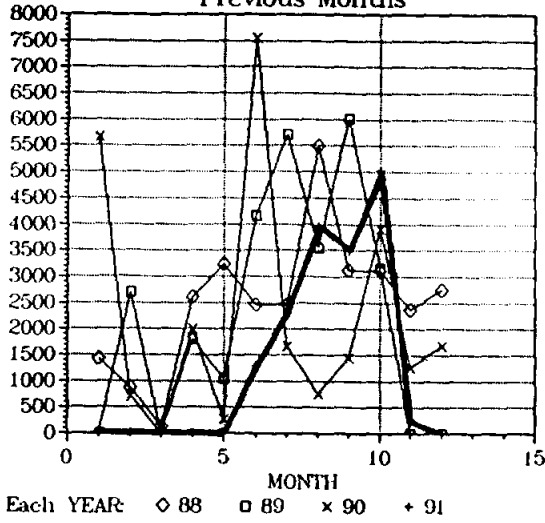
Each YEAR: ◇ 88 □ 89 × 90 + 91

◇ MEDINA CANAL

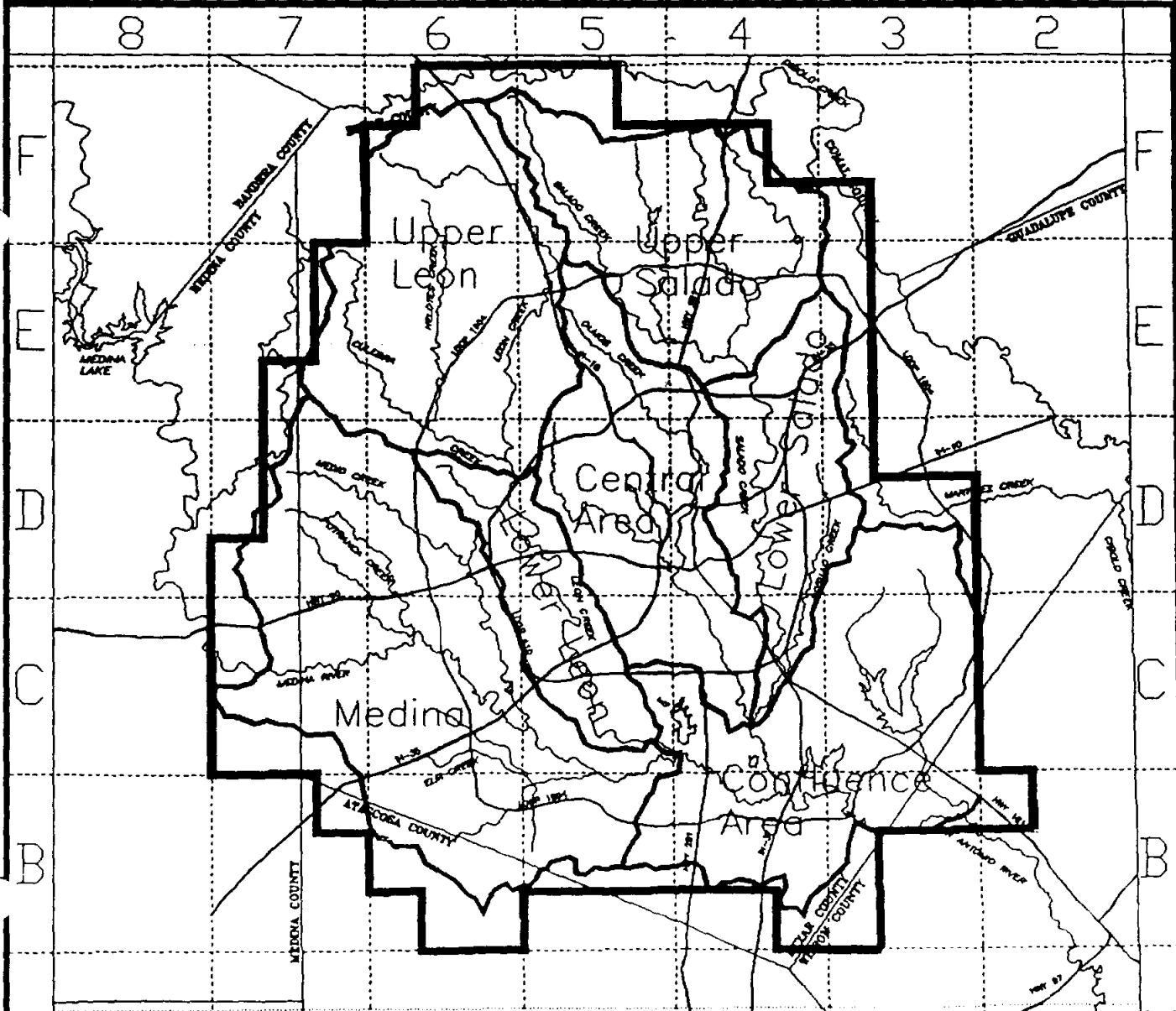
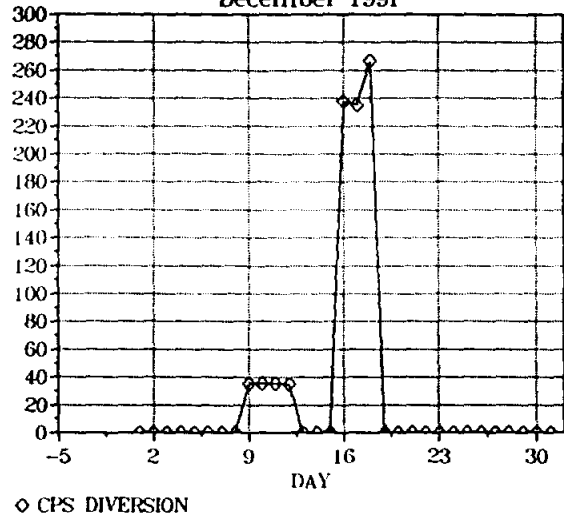


DECEMBER 1991
FIGURE 4-1
MEDINA CANAL
IRRIGATION

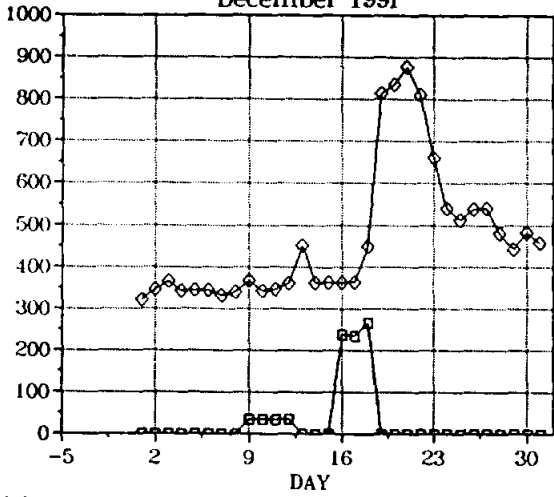
CPS DIVERSION (AF/MO)
Previous Months



CPS DIVERSION (AF/DAY)
December 1991

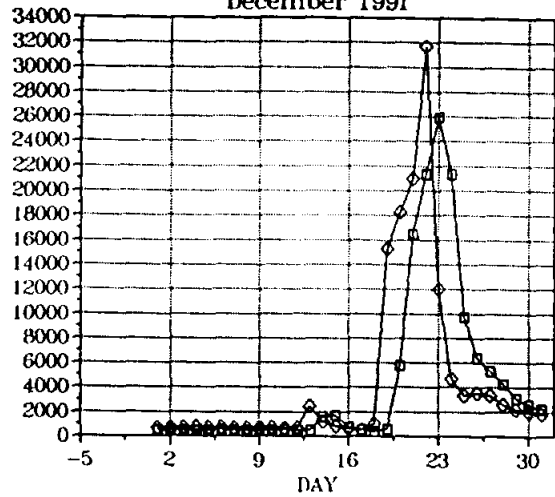


EFFLUENTS AND DIVERSIONS (AF/DAY)
December 1991

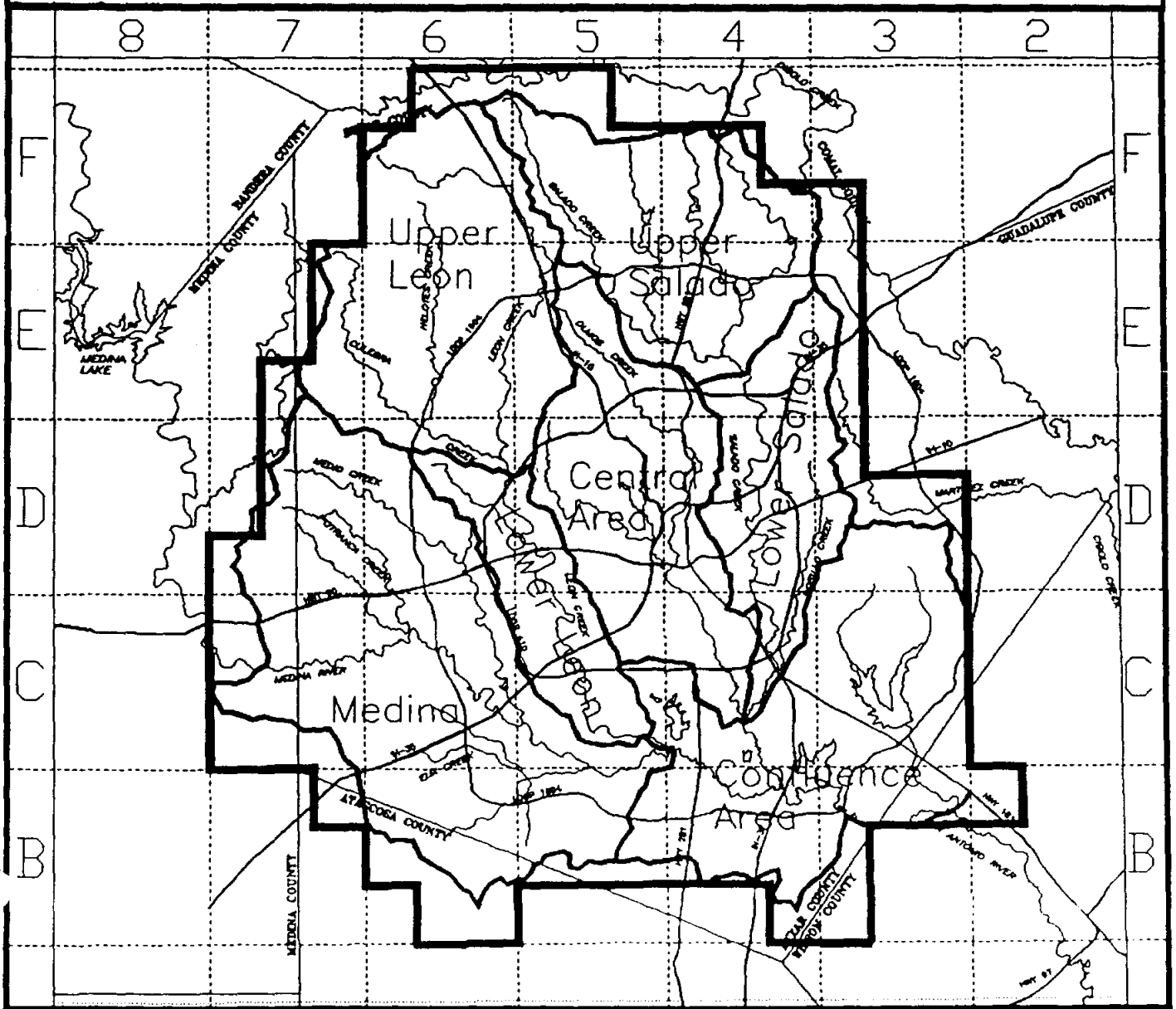


◇ TOTAL EFFLUENT □ CPS DIVERSION

DOWNSTREAM FLOWS (AF/DAY)
December 1991



◇ AF SA AT ELM □ AF SA AT FC



Section 5

STREAMFLOW & STREAM QUALITY

PRECIPITATION
AT SAN ANTONIO AIRPORT

Total for Month
13.96

TOTAL DISCHARGES

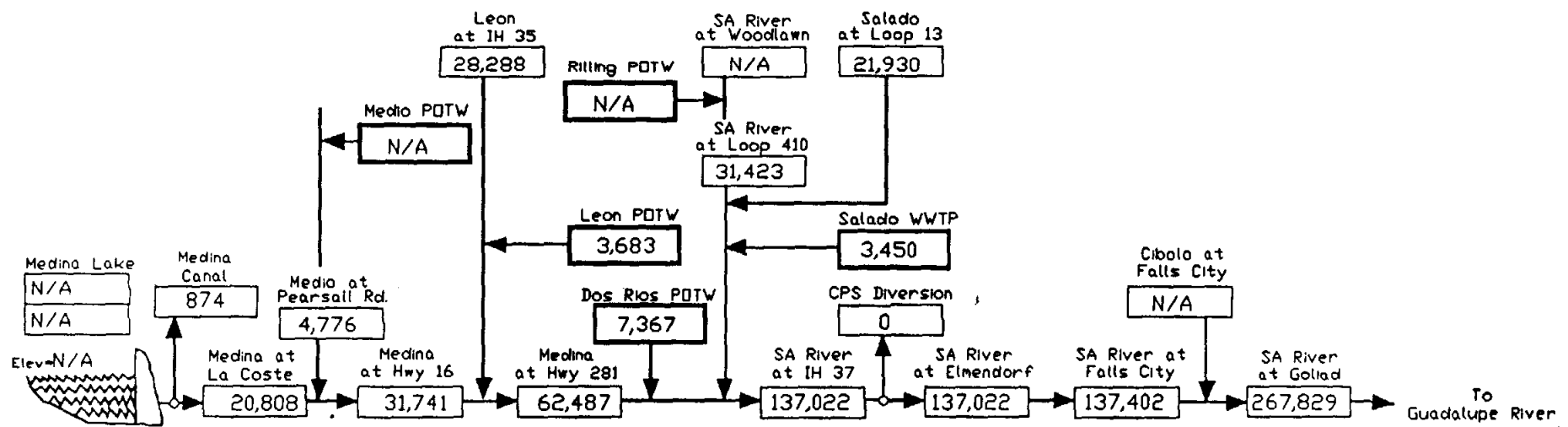


FIGURE S-1
C. THOMAS KOCH, INC.
LAND AND WATER RESOURCES CONSULTANT

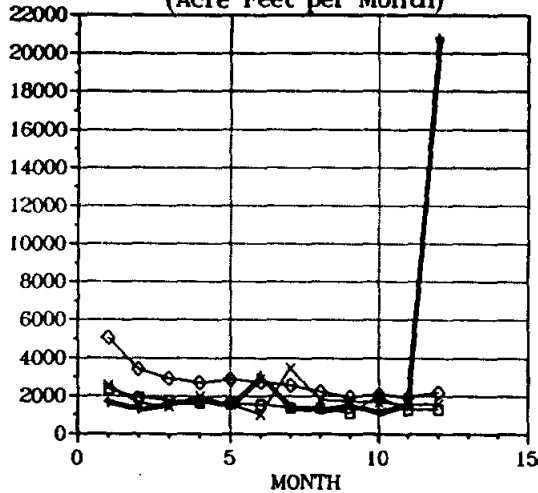
Monthly Water Watch

Date DECEMBER 1991

All Units in Acre-Feet

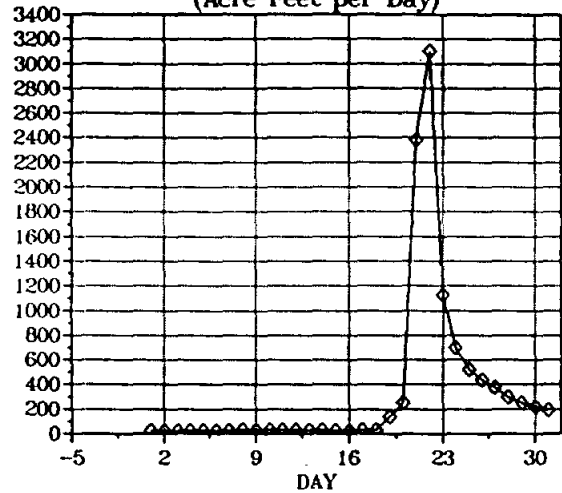
ALL DATA PROVISIONAL
(subject to change upon final review)

Medina R @ La Coste
(Acre Feet per Month)

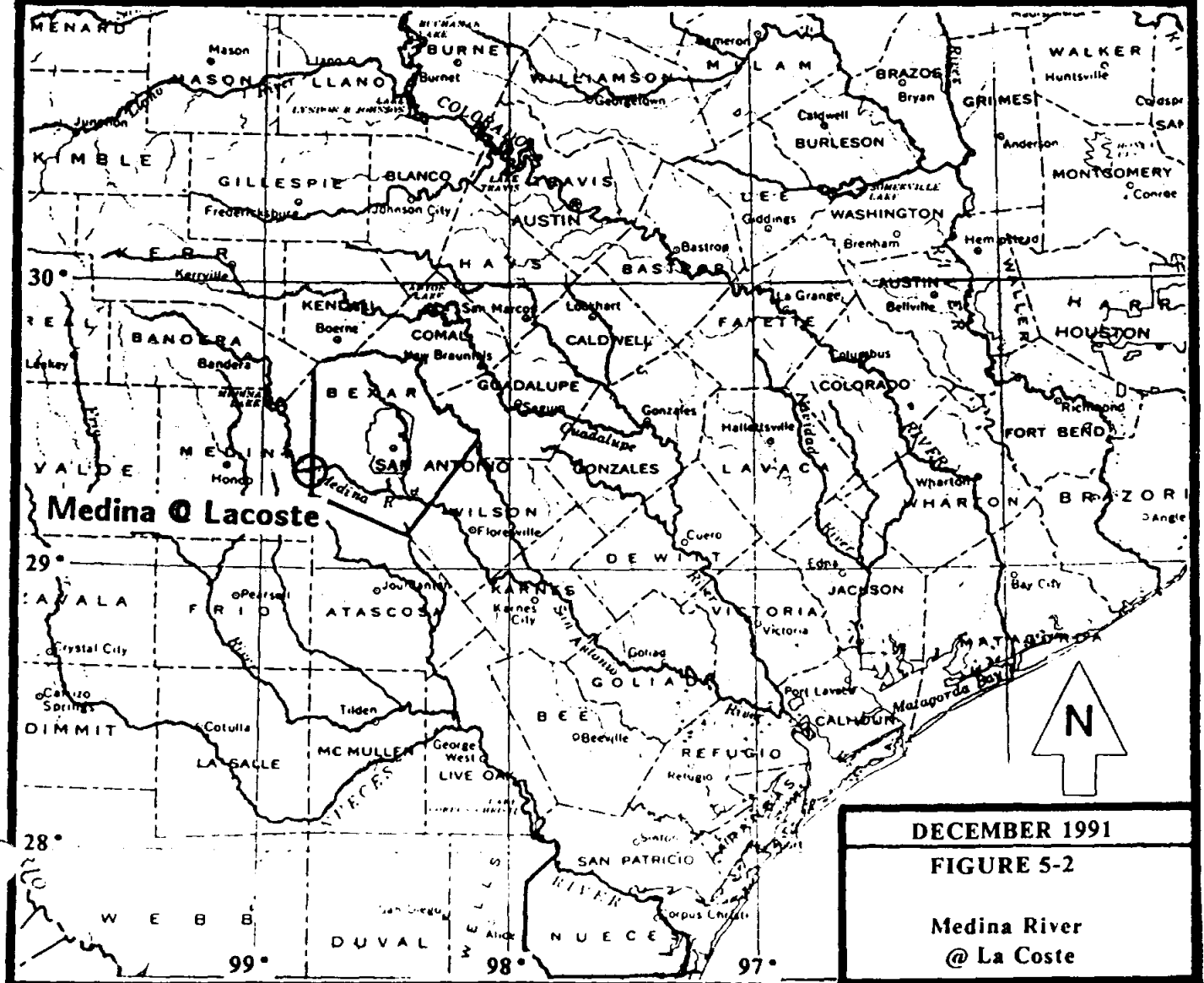
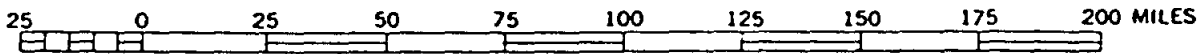


Each YEAR: ◇ 88 □ 89 x 90 + 91

Medina R @ La Coste
(Acre Feet per Day)



ALL DATA PROVISIONAL (subject to change upon final review)

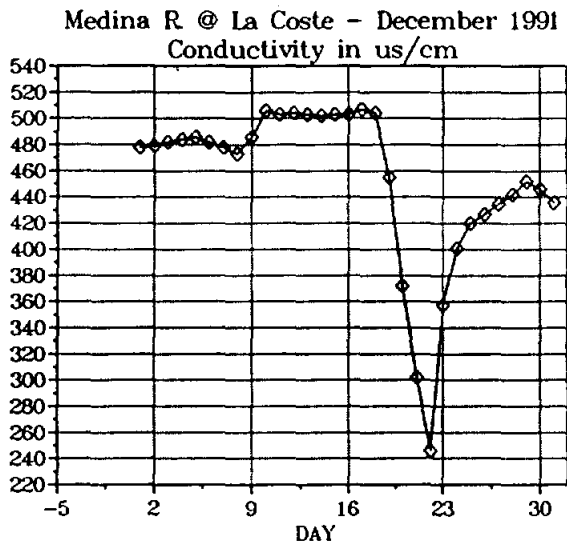


DECEMBER 1991

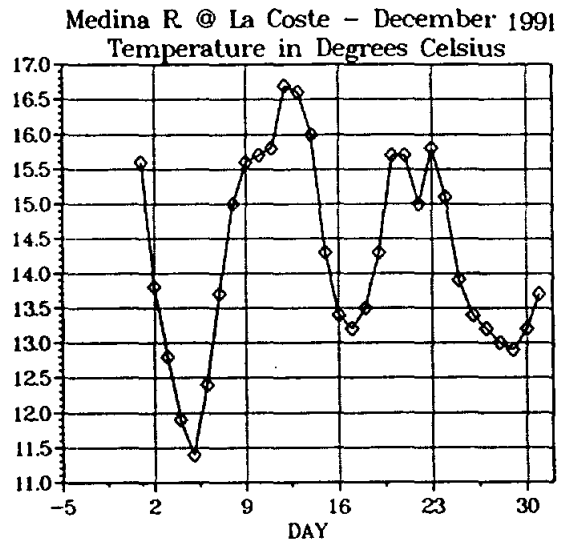
FIGURE 5-2

Medina River
@ La Coste

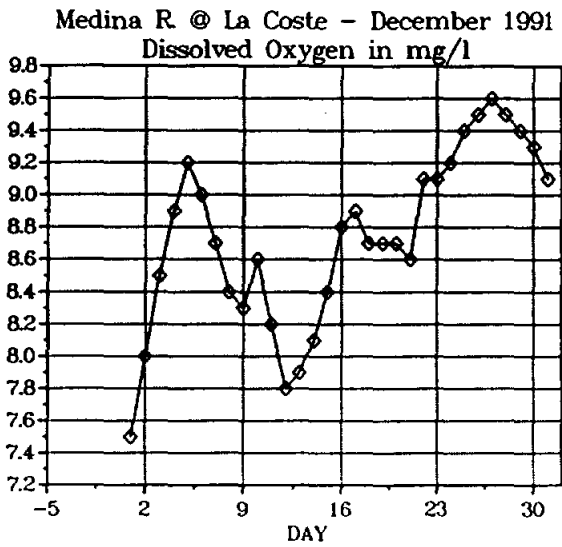
CONDUCTIVITY



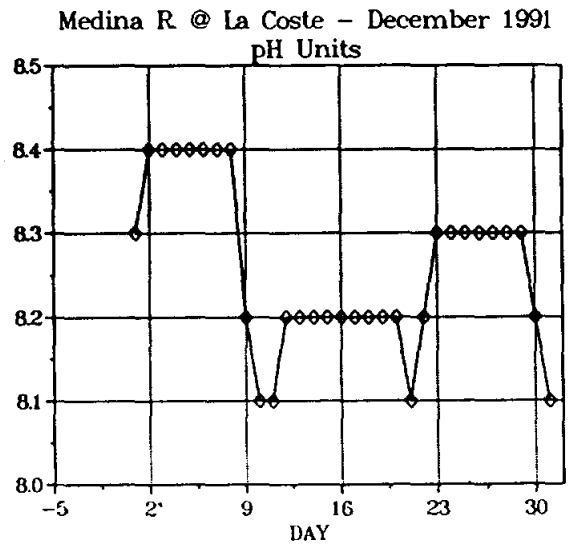
TEMPERATURE



DISSOLVED OXYGEN



pH UNITS

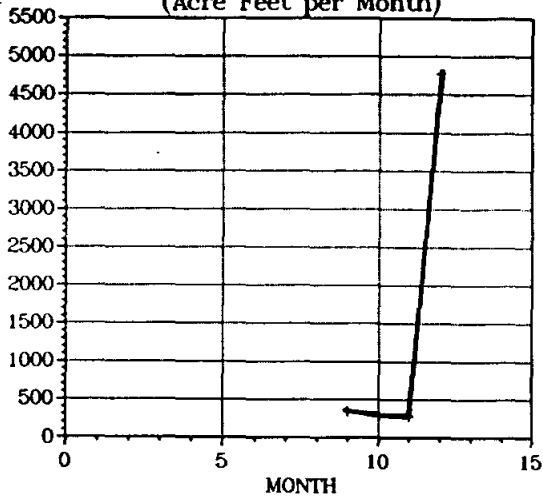


DECEMBER 1991

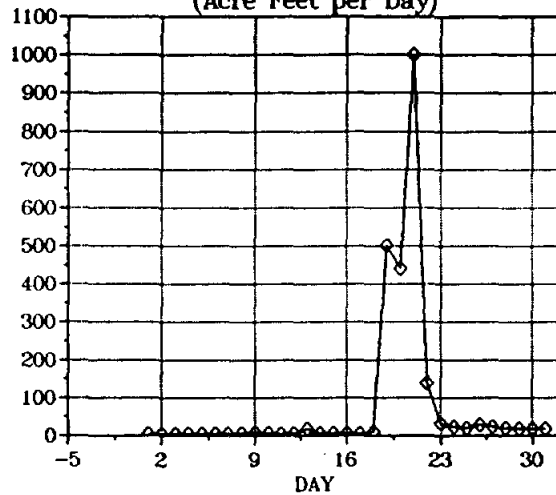
FIGURE 5-3

Medina River
@ La Coste

Medio Creek @ Pearsall Rd.
(Acre Feet per Month)

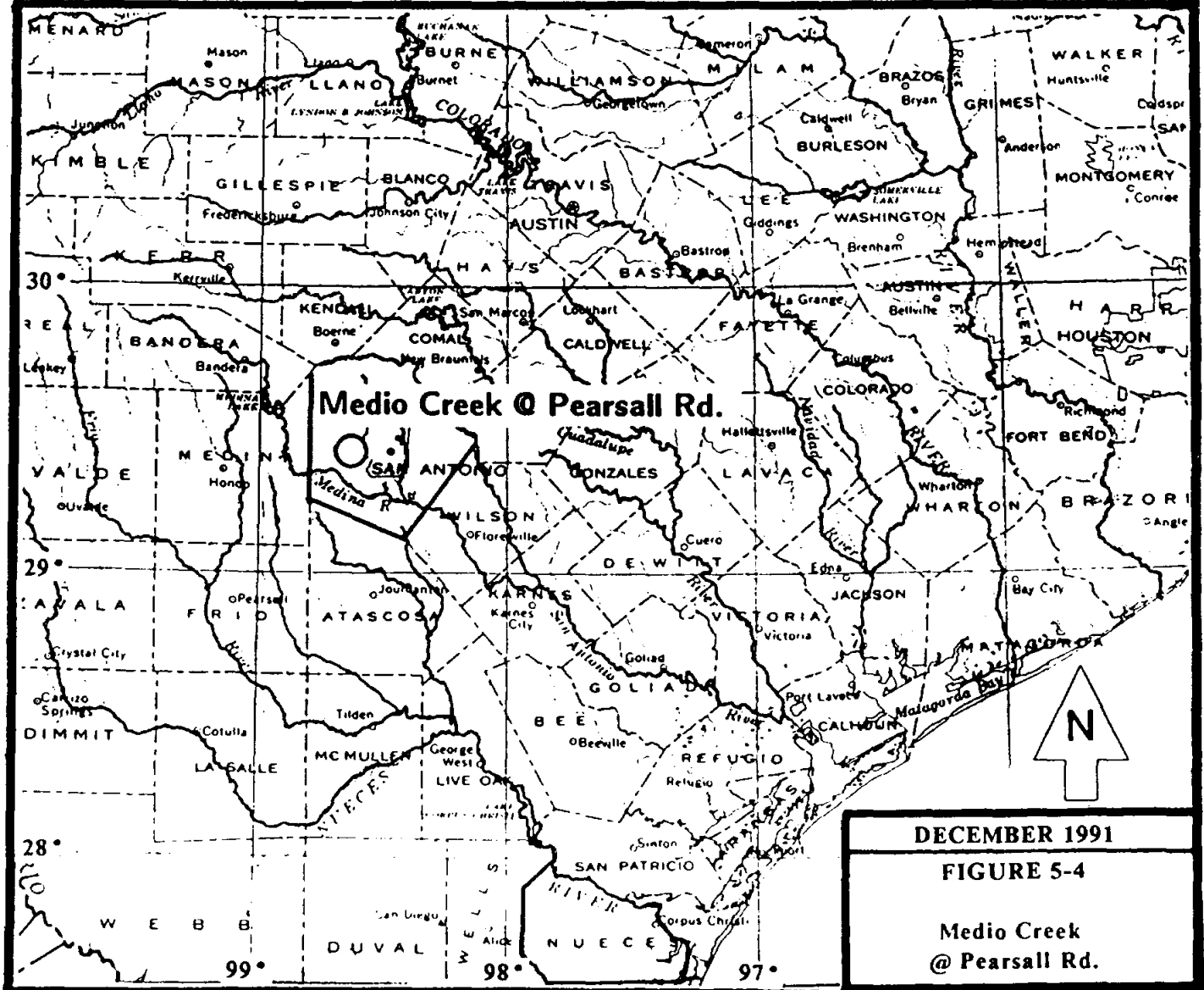
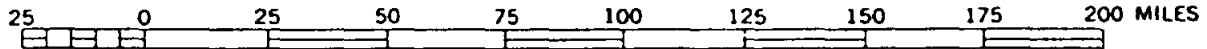


Medio Creek @ Pearsall Rd.
(Acre Feet per Day)



Each YEAR: ◇ 88 □ 89 × 90 + 91

ALL DATA PROVISIONAL (subject to change upon final review)



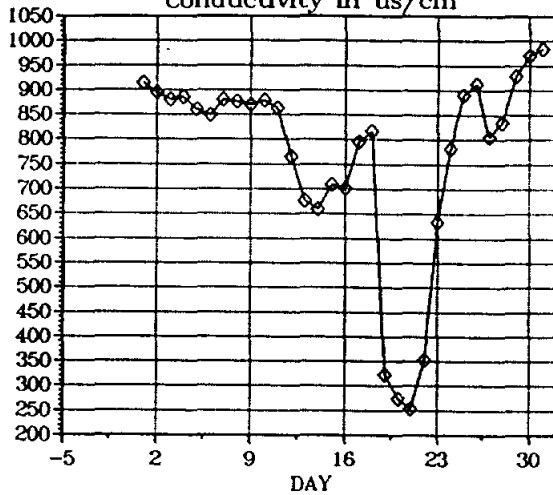
DECEMBER 1991

FIGURE 5-4

Medio Creek
@ Pearsall Rd.

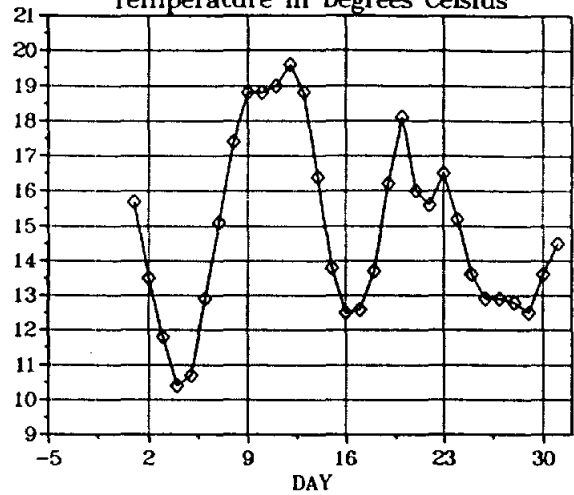
CONDUCTIVITY

Medio @ Pearsall Rd. - December 1991
Conductivity in us/cm



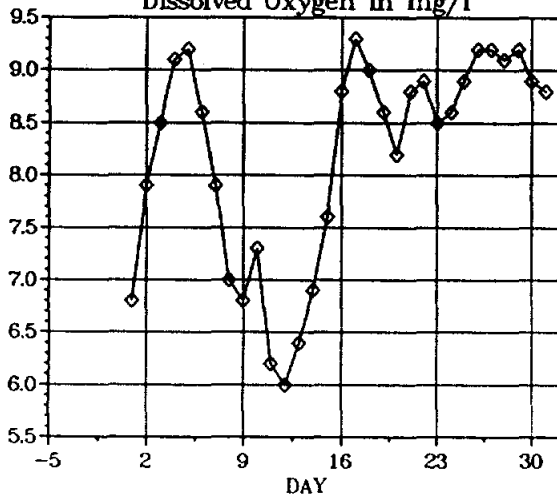
TEMPERATURE

Medio @ Pearsall Rd. - December 1991
Temperature in Degrees Celsius



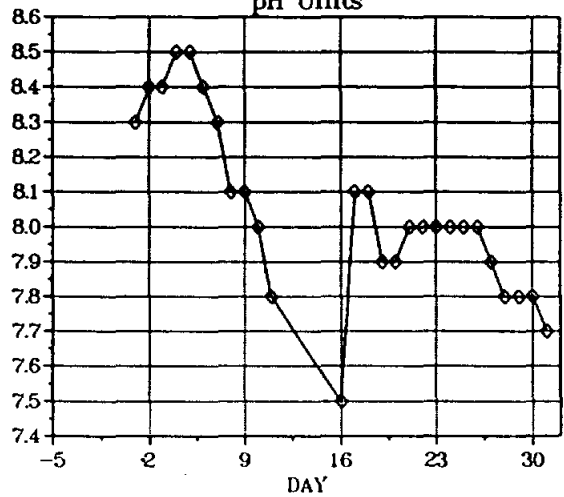
DISSOLVED OXYGEN

Medio @ Pearsall Rd. - December 1991
Dissolved Oxygen in mg/l



pH UNITS

Medio @ Pearsall Rd. - December 1991
pH Units



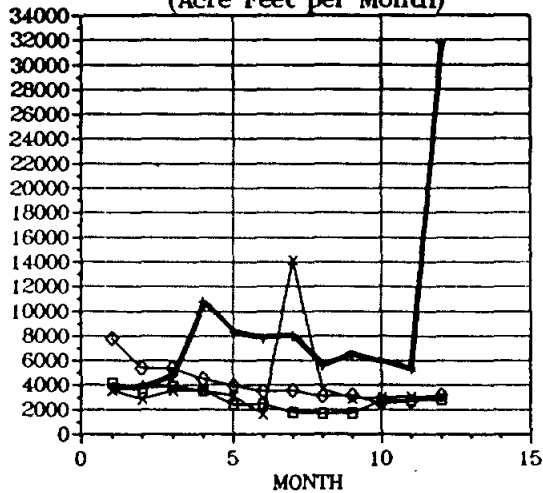
DECEMBER 1991

FIGURE 5-5

Medio Creek
@ Pearsall Rd.

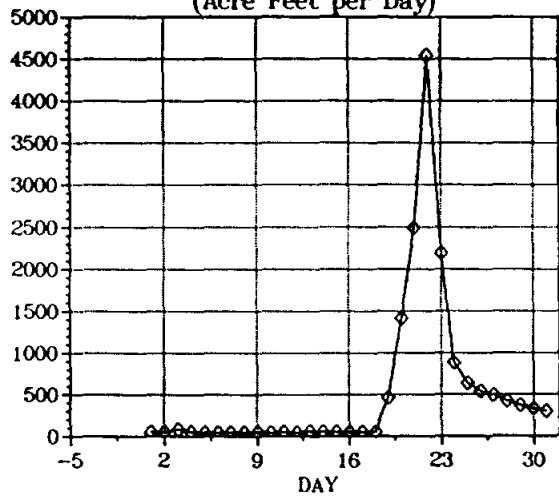
C. THOMAS KOCH, INC.
LAND AND WATER RESOURCES CONSULTANT

Medina R. @ Hwy. 16
(Acre Feet per Month)

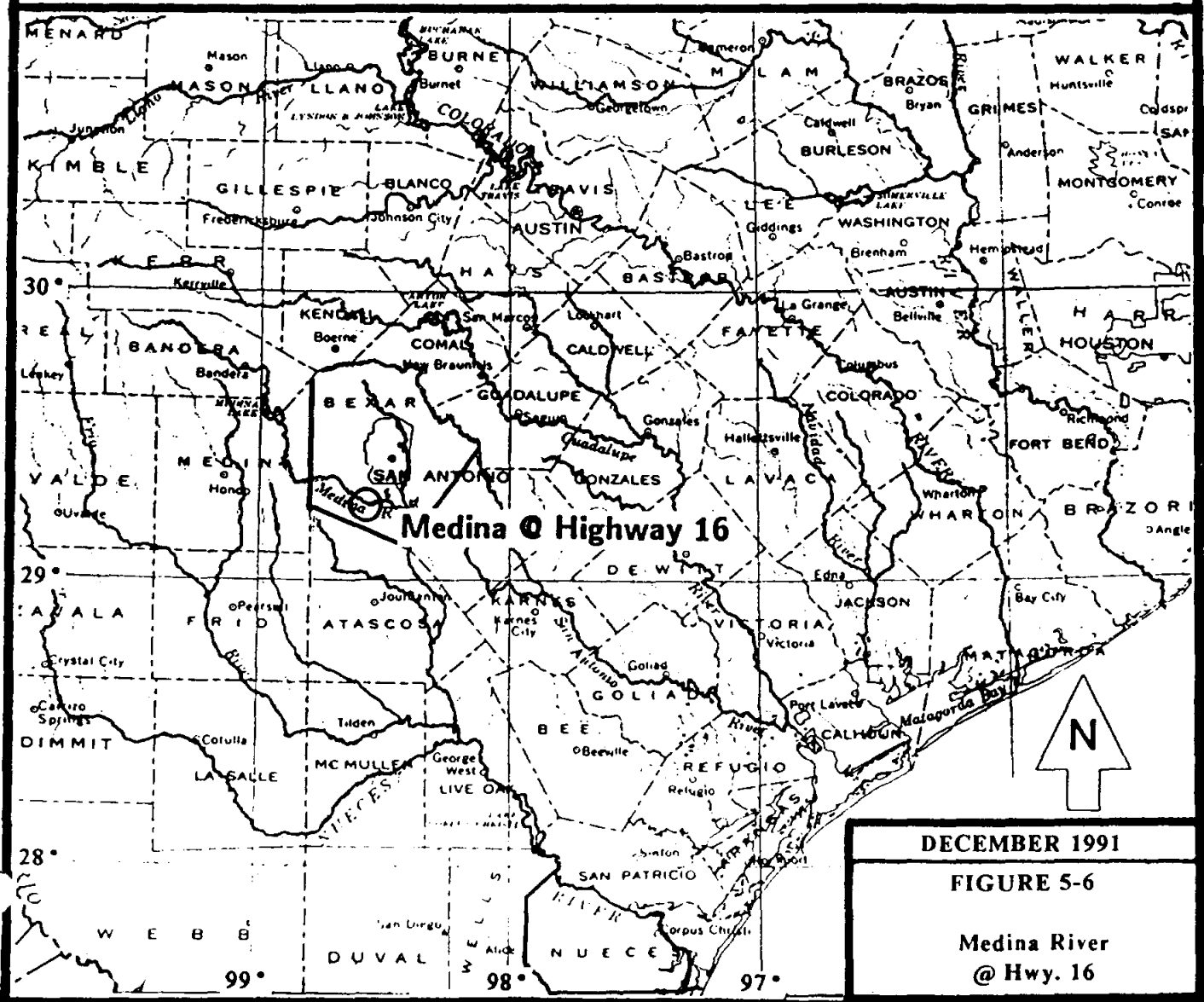
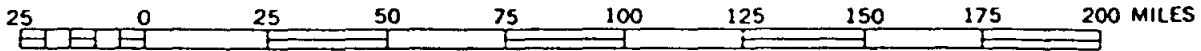


Each YEAR: ◊ 88 ◻ 89 × 90 + 91

Medina R. @ Hwy. 16
(Acre Feet per Day)

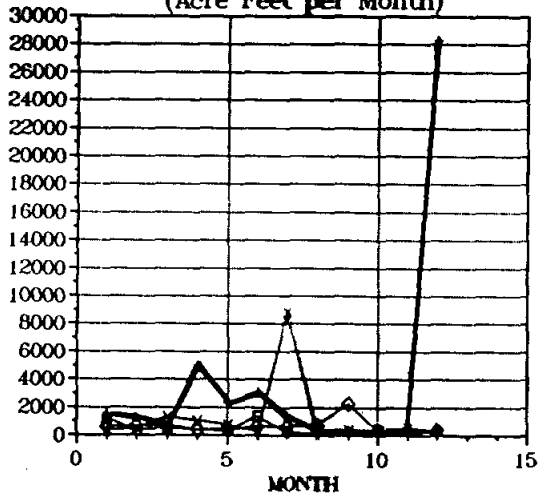


ALL DATA PROVISIONAL (subject to change upon final review)

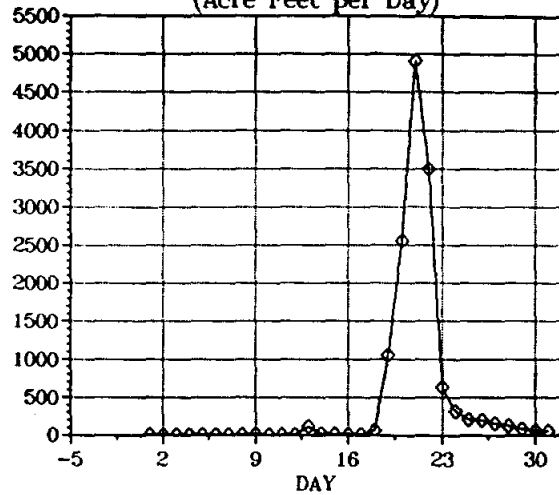


DECEMBER 1991
FIGURE 5-6
Medina River
@ Hwy. 16

Leon Creek @ IH 35
(Acre Feet per Month)

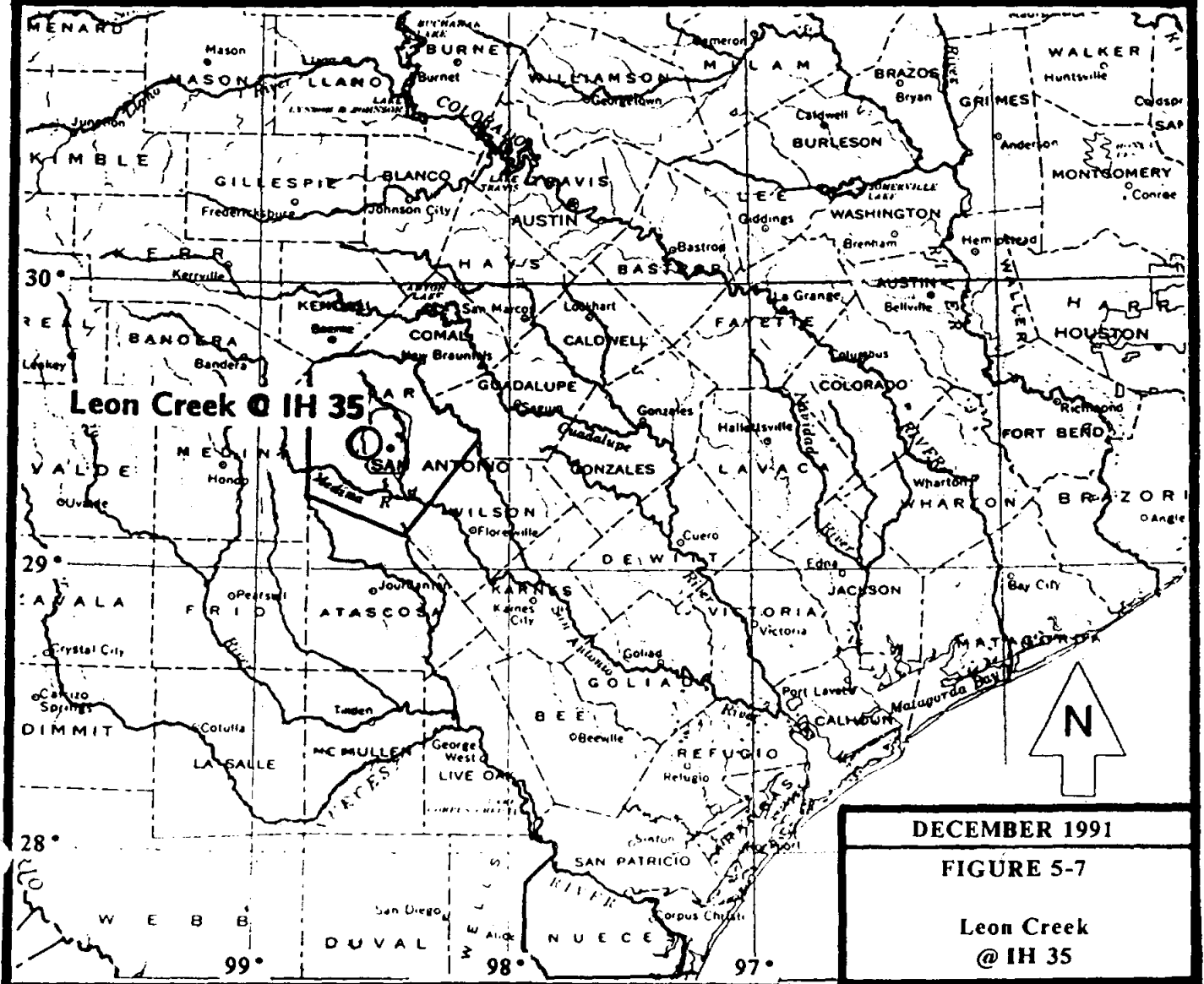
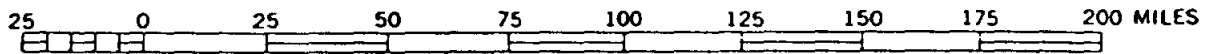


Leon Creek @ IH 35
(Acre Feet per Day)



Each YEAR: ◊ 88 ◻ 89 × 90 + 91

ALL DATA PROVISIONAL (subject to change upon final review)



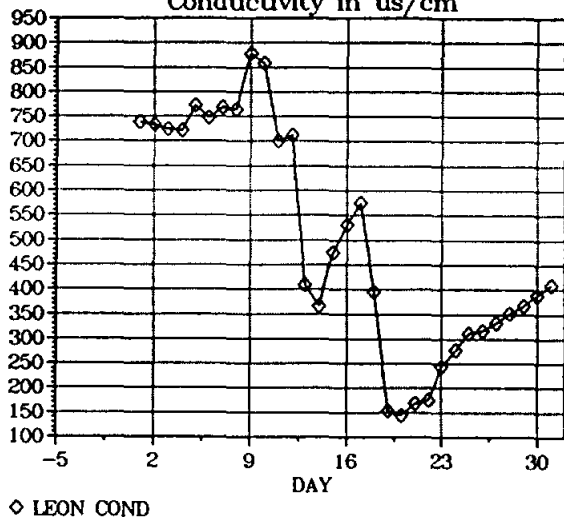
DECEMBER 1991

FIGURE 5-7

Leon Creek
@ IH 35

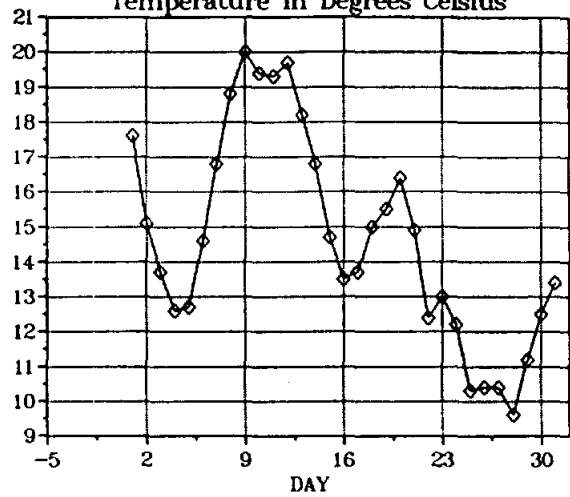
CONDUCTIVITY

Leon Creek @ IH 35 - December 1991
Conductivity in us/cm



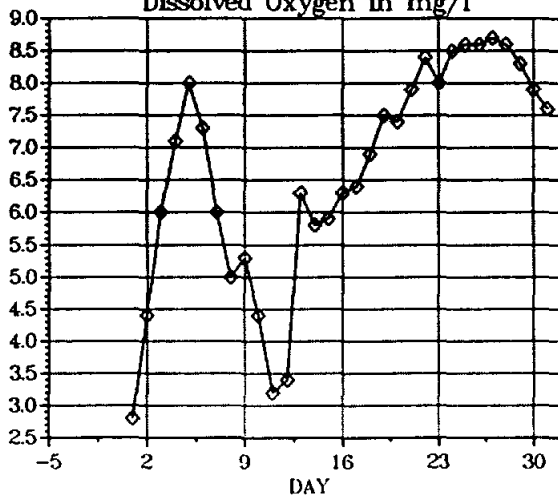
TEMPERATURE

Leon Creek @ IH 35 - December 1991
Temperature in Degrees Celsius



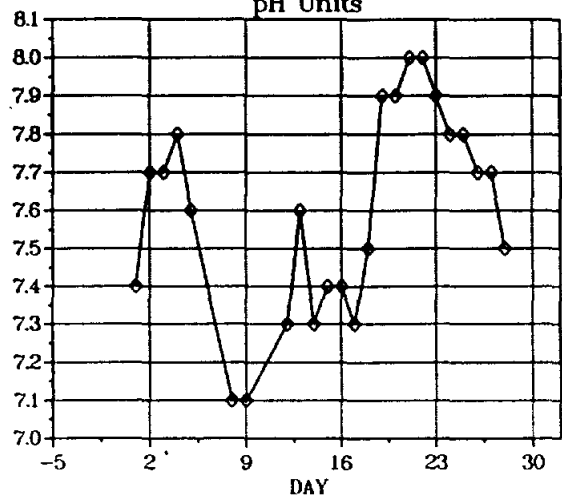
DISSOLVED OXYGEN

Leon Creek @ IH 35 - December 1991
Dissolved Oxygen in mg/l



pH UNITS

Leon Creek @ IH 35 - December 1991
pH Units

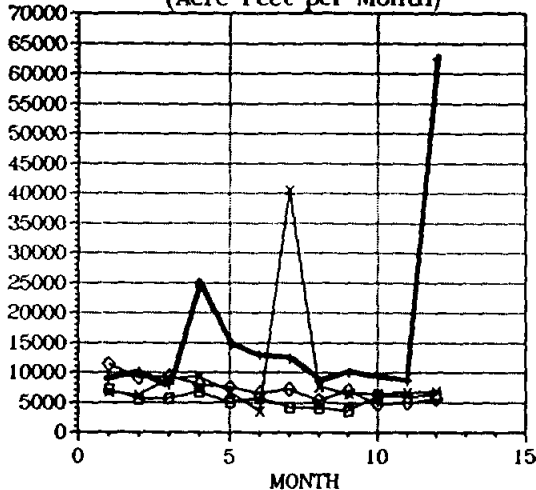


DECEMBER 1991

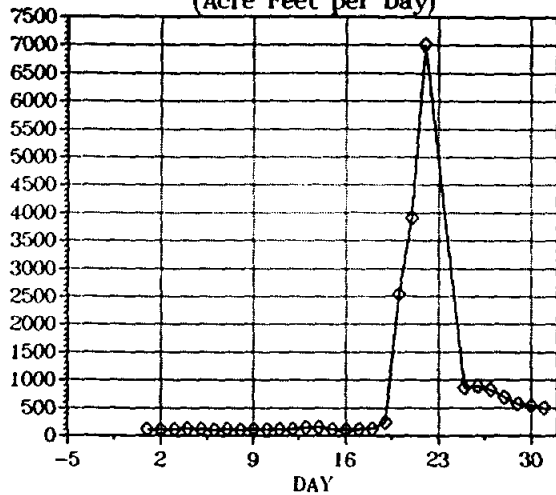
FIGURE 5-8

Leon Creek
@ IH 35

Medina R @ Hwy. 281
(Acre Feet per Month)

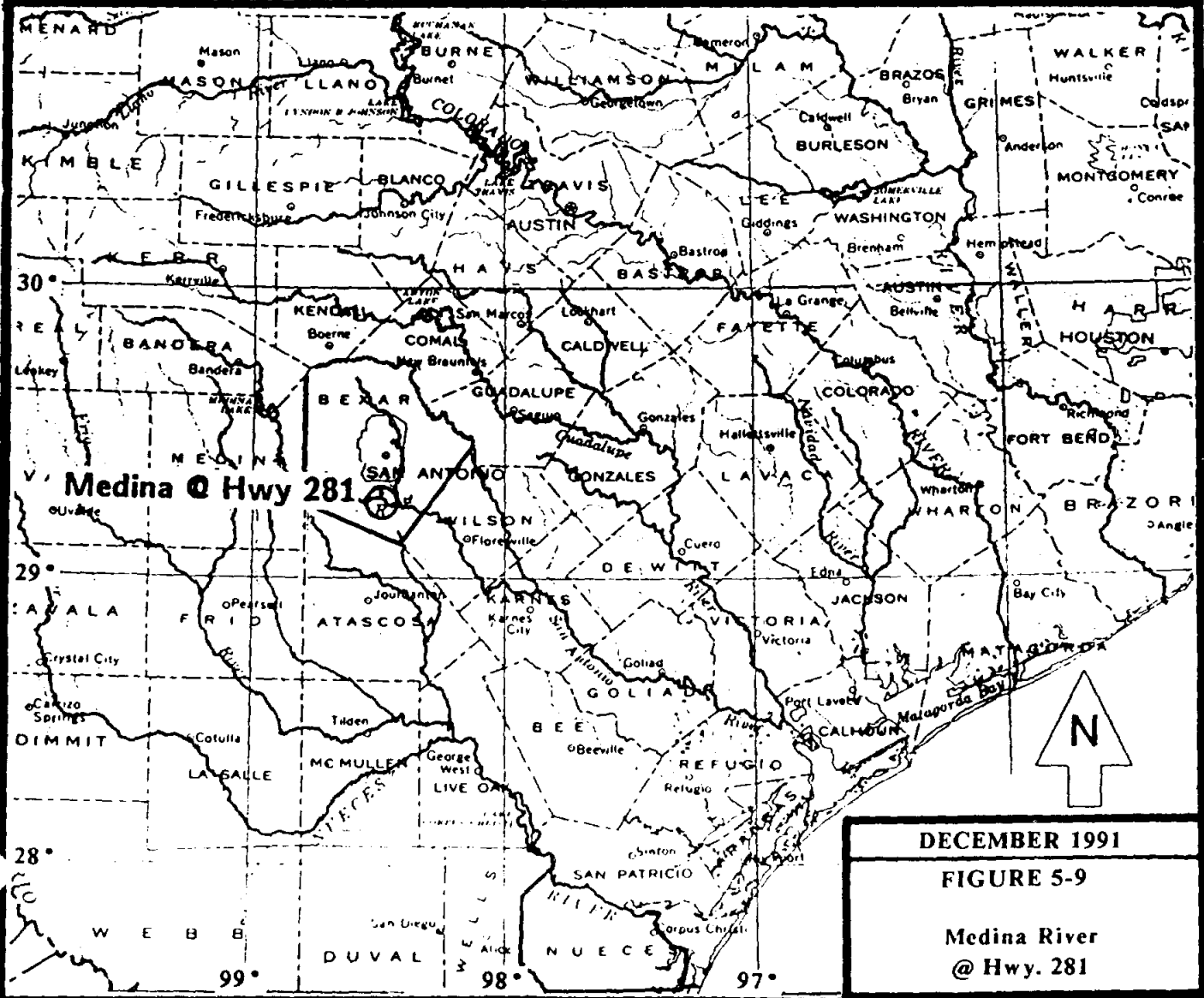
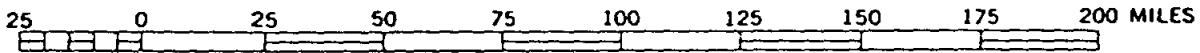


Medina R @ Hwy. 281
(Acre Feet per Day)



Each YEAR: ◇ 88 □ 89 × 90 + 91

ALL DATA PROVISIONAL (subject to change upon final review)

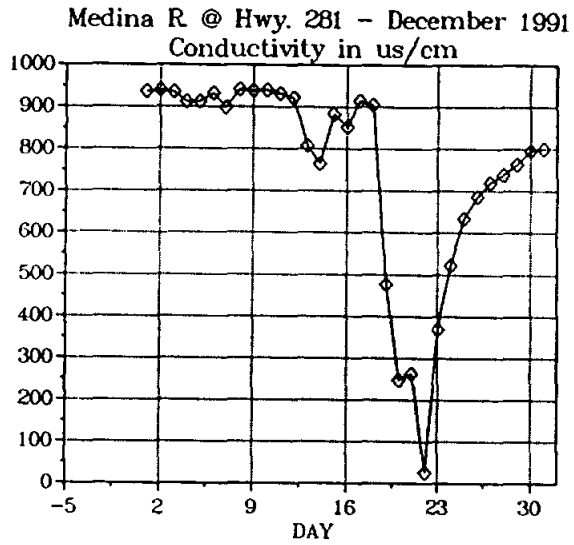


DECEMBER 1991

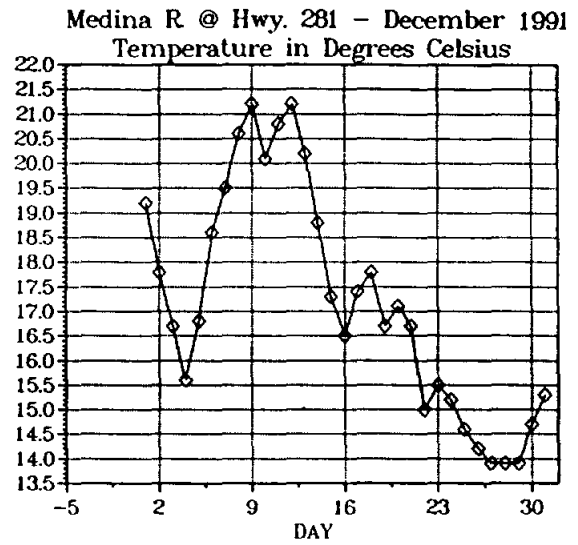
FIGURE 5-9

Medina River
@ Hwy. 281

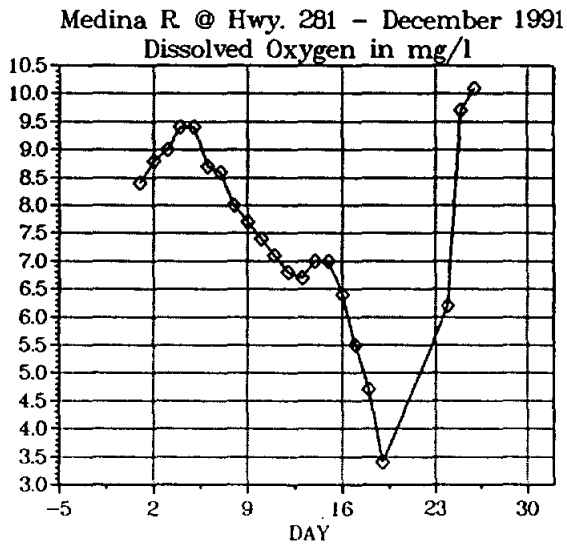
CONDUCTIVITY



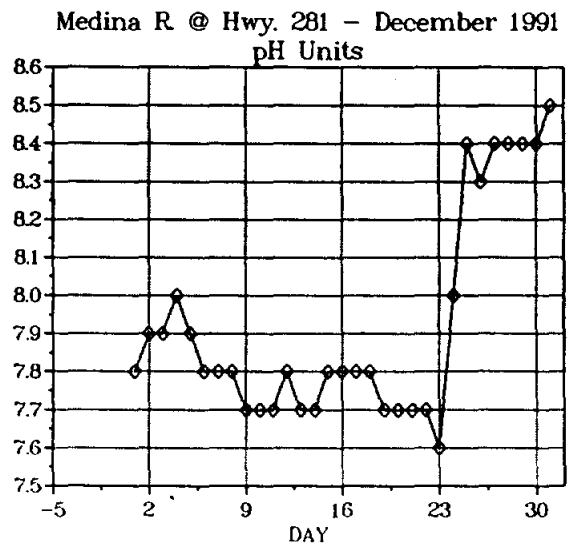
TEMPERATURE



DISSOLVED OXYGEN



pH UNITS



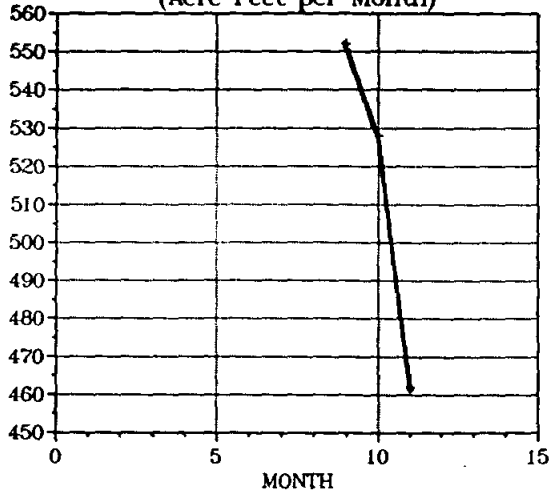
DECEMBER 1991

FIGURE 5-10

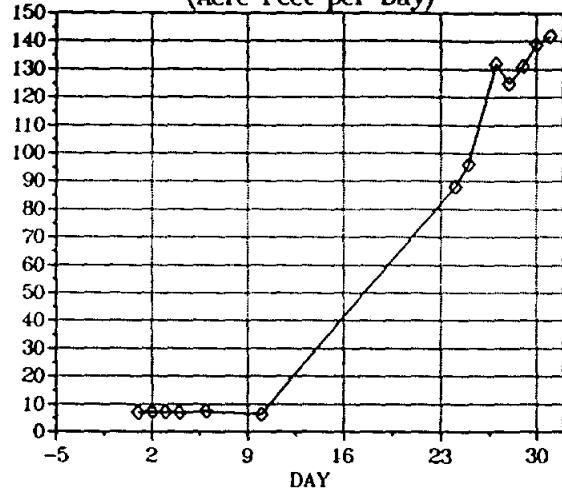
Medina @ Highway 281
(San Antonio)

C. THOMAS KOCH, INC.
LAND AND WATER RESOURCES CONSULTANT

San Antonio R @ Woodlawn Ave.
(Acre Feet per Month)

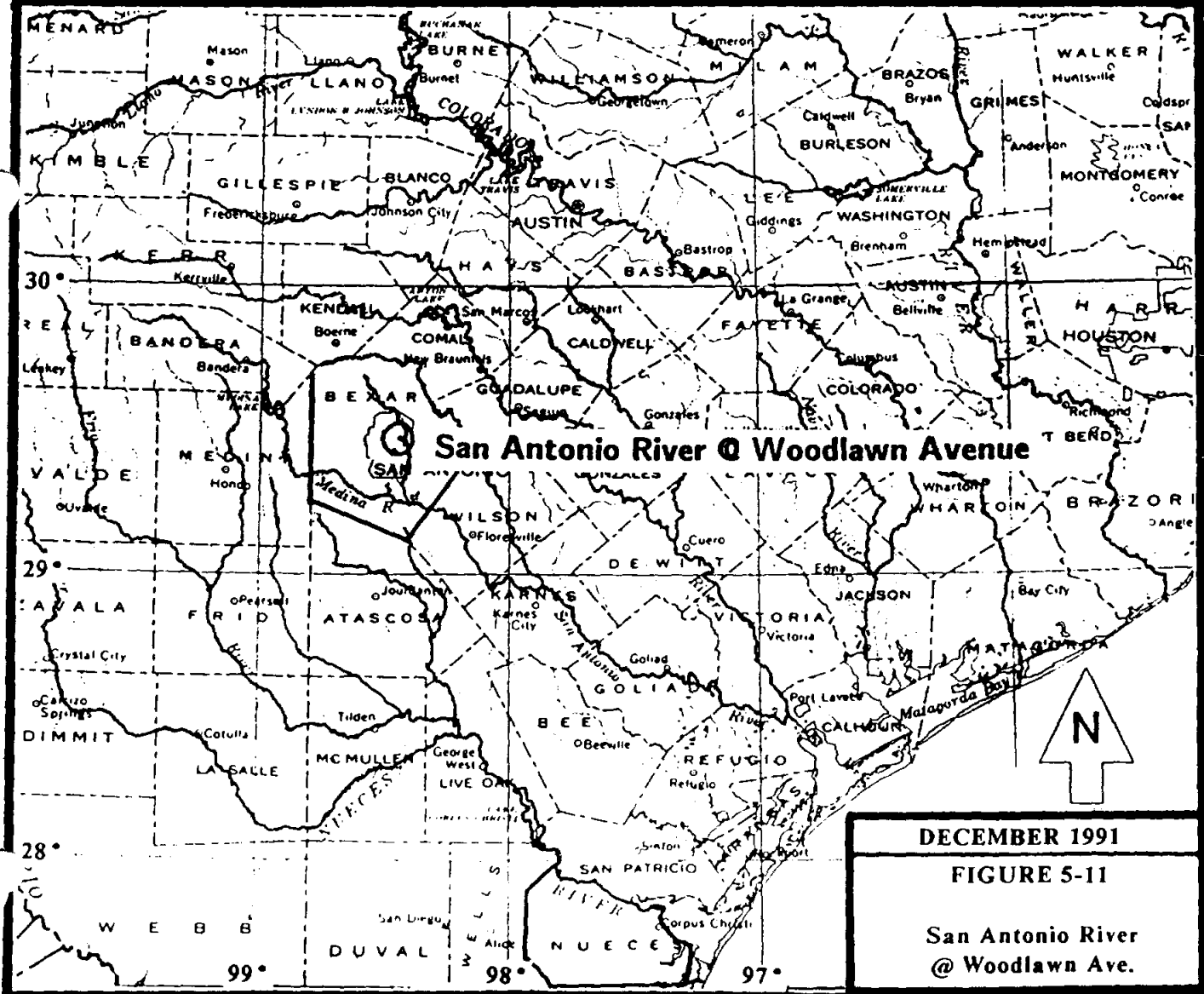
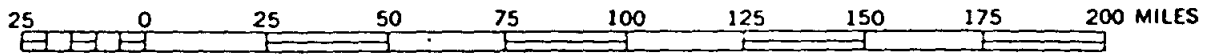


San Antonio R @ Woodlawn Ave.
(Acre Feet per Day)

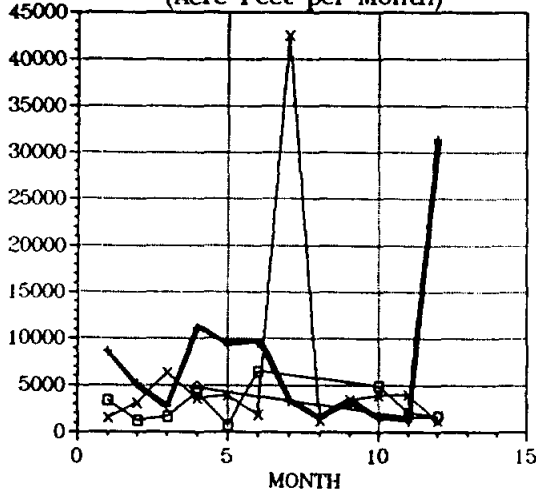


Each YEAR ◊ 88 ◻ 89 × 90 + 91

ALL DATA PROVISIONAL (subject to change upon final review)

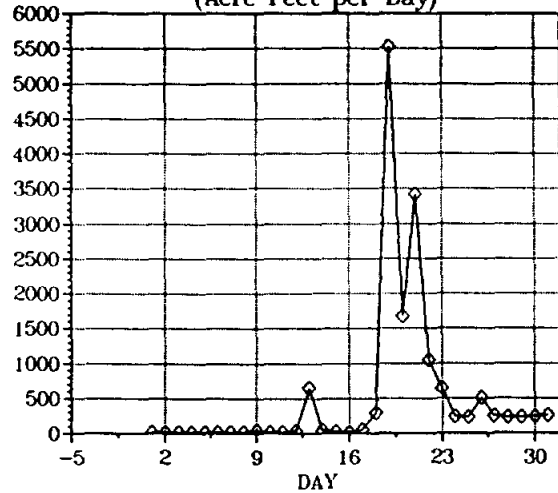


San Antonio R @ Loop 410
(Acre Feet per Month)

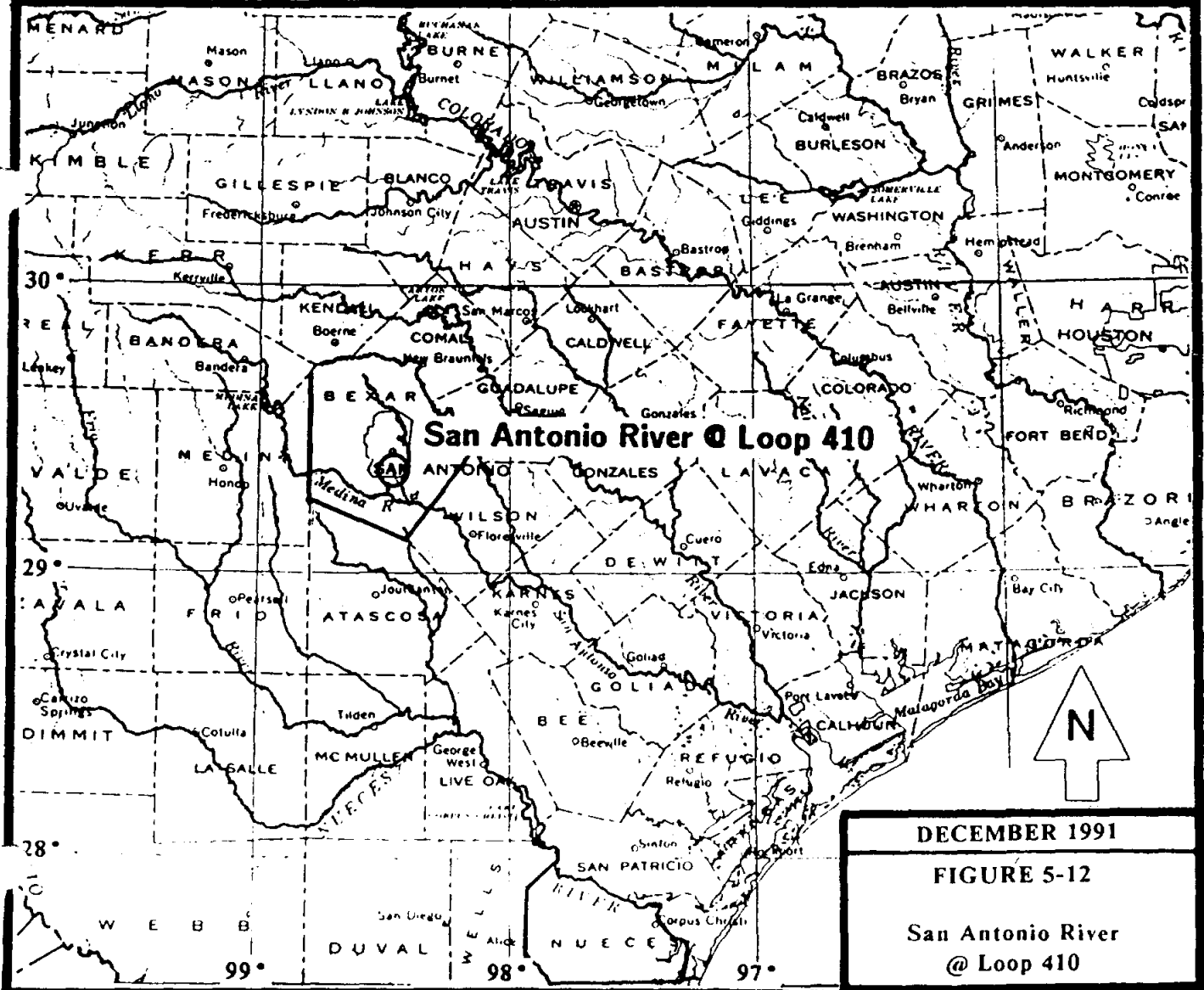
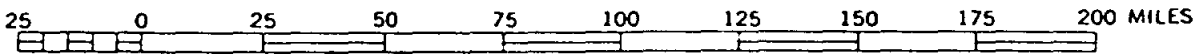


Each YEAR: ◊ 88 ◻ 89 × 90 + 91

San Antonio R @ Loop 410
(Acre Feet per Day)

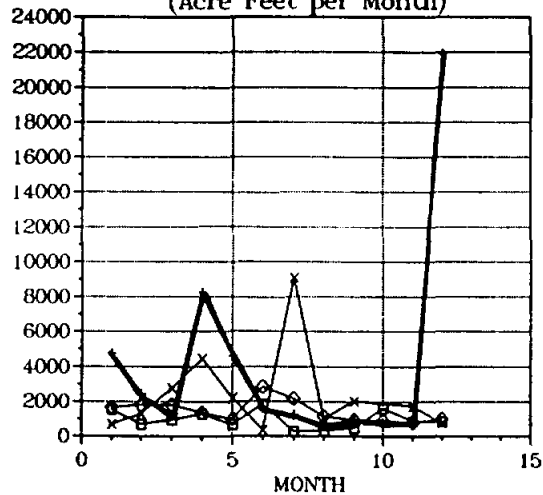


ALL DATA PROVISIONAL (subject to change upon final review)

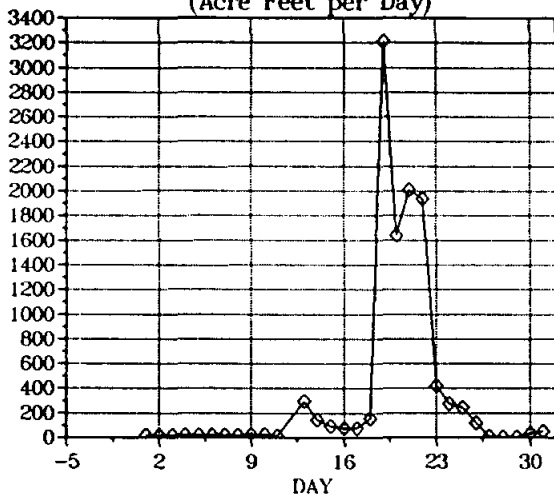


DECEMBER 1991
FIGURE 5-12
San Antonio River
@ Loop 410

Salado Creek @ Loop 13
(Acre Feet per Month)

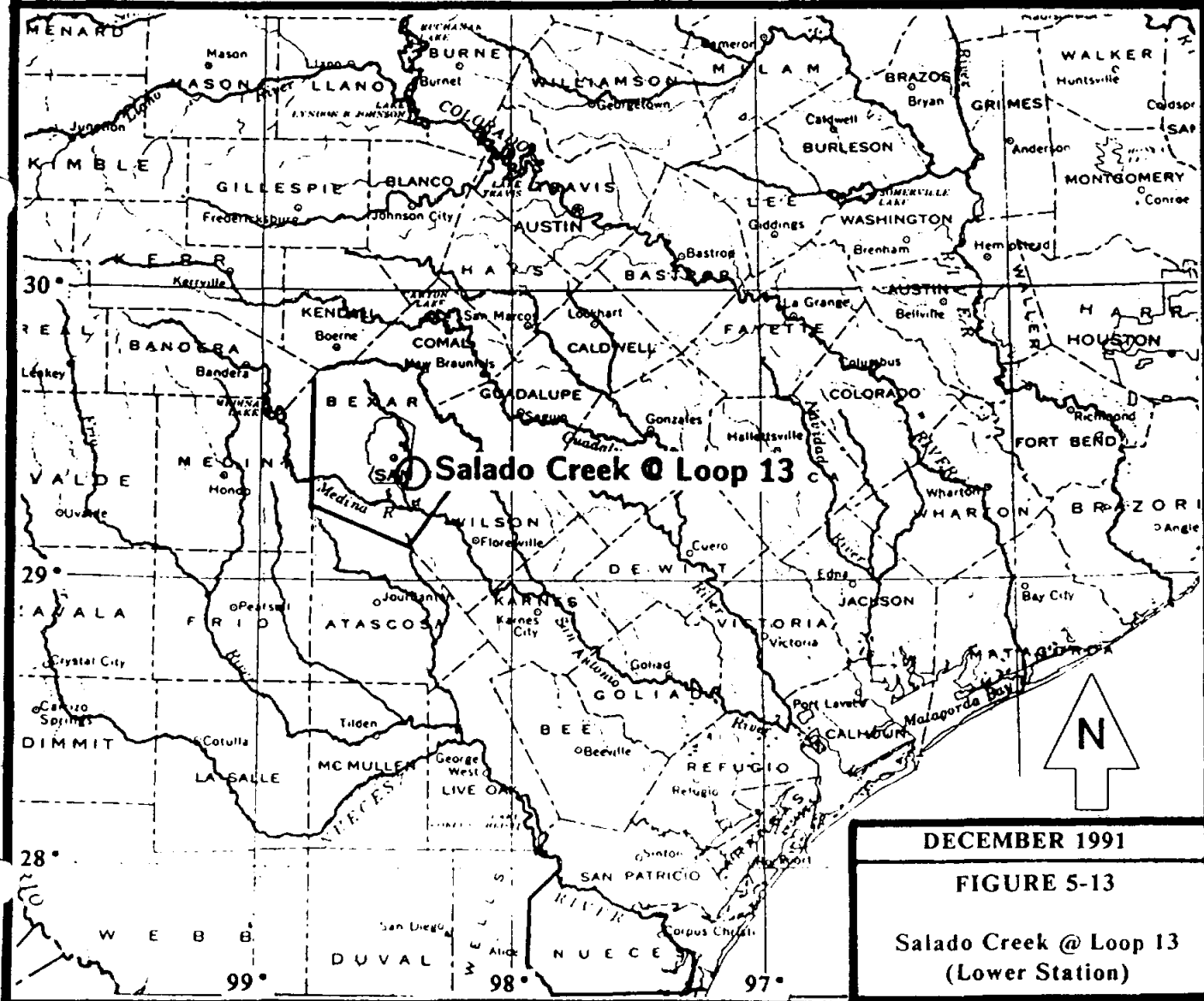
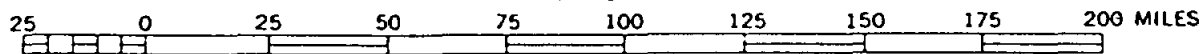


Salado Creek @ Loop 13
(Acre Feet per Day)

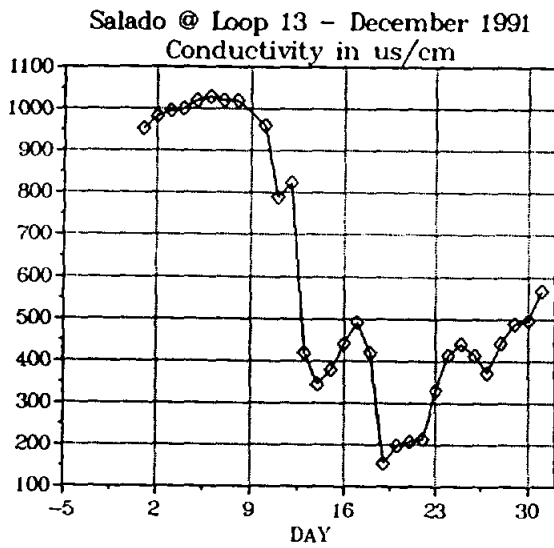


Each YEAR: ◇ 88 □ 89 × 90 + 91

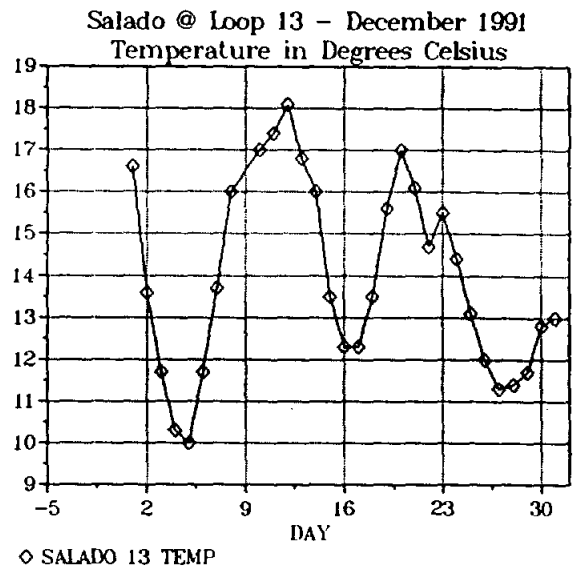
ALL DATA PROVISIONAL (subject to change upon final review)



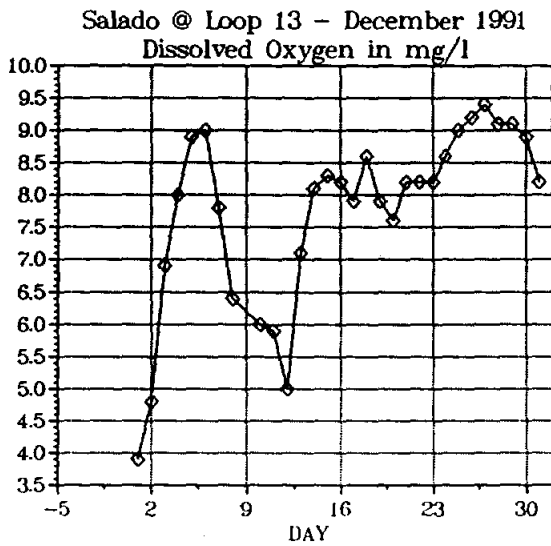
CONDUCTIVITY



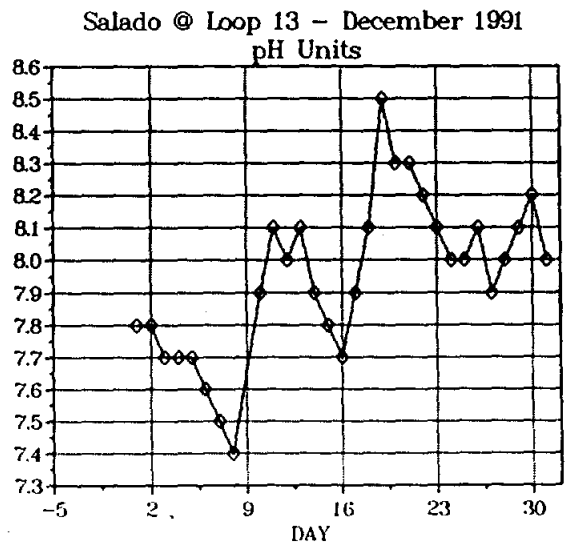
TEMPERATURE



DISSOLVED OXYGEN



pH UNITS

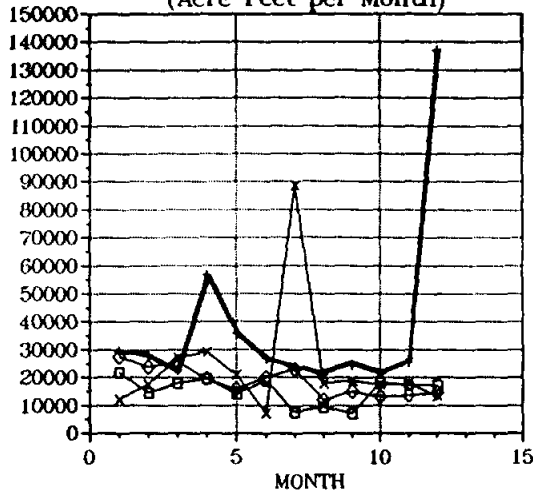


DECEMBER 1991

FIGURE 5-14

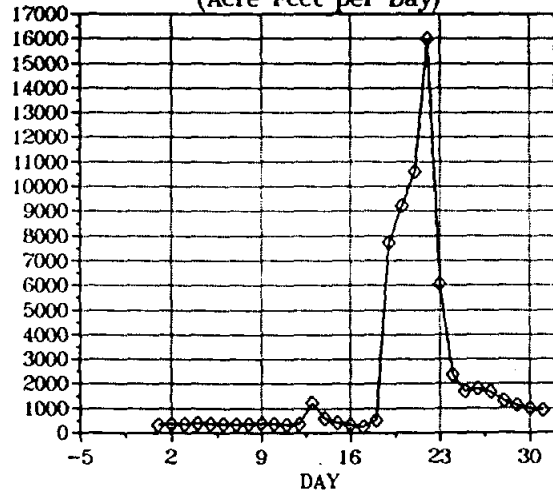
Salado Creek @ Loop 13
(Lower Station)

San Antonio R @ Elmendorf
(Acre Feet per Month)

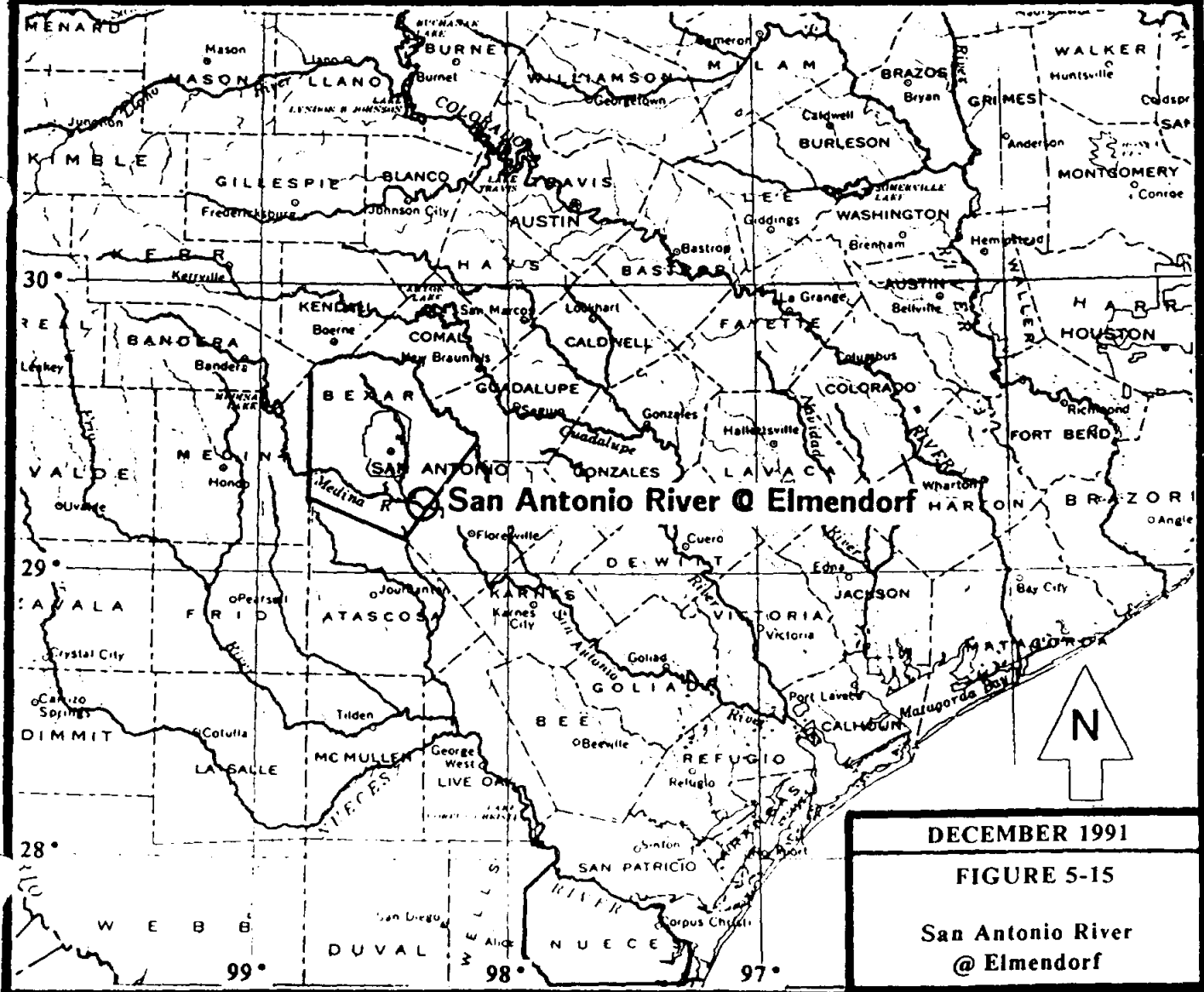
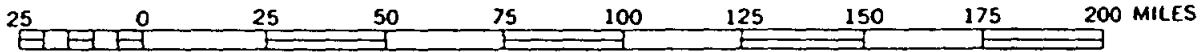


Each YEAR: ◇ 88 □ 89 × 90 + 91

San Antonio R @ Elmendorf
(Acre Feet per Day)

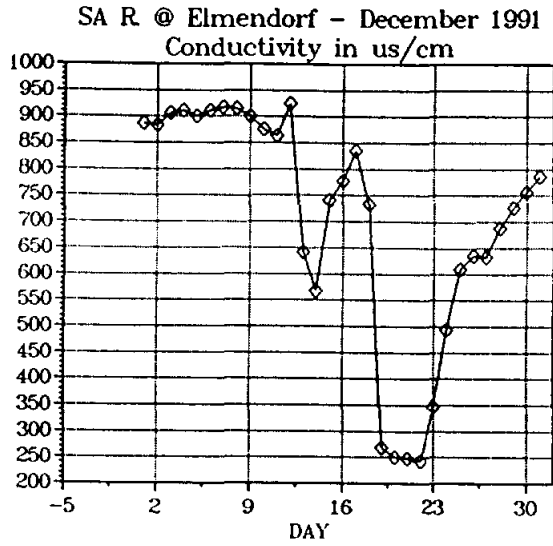


ALL DATA PROVISIONAL (subject to change upon final review)

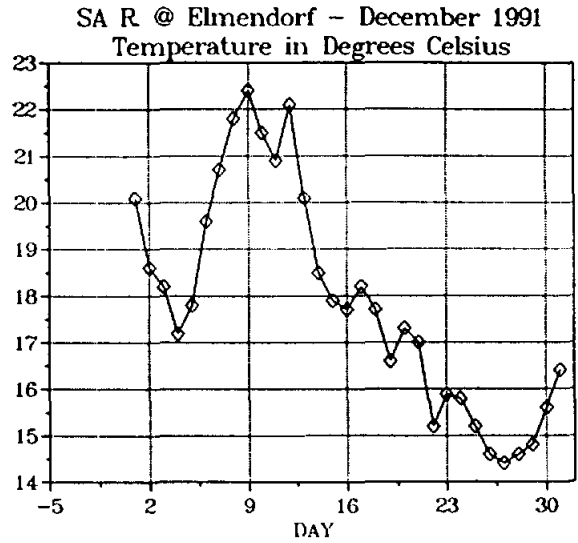


DECEMBER 1991
FIGURE 5-15
San Antonio River
@ Elmendorf

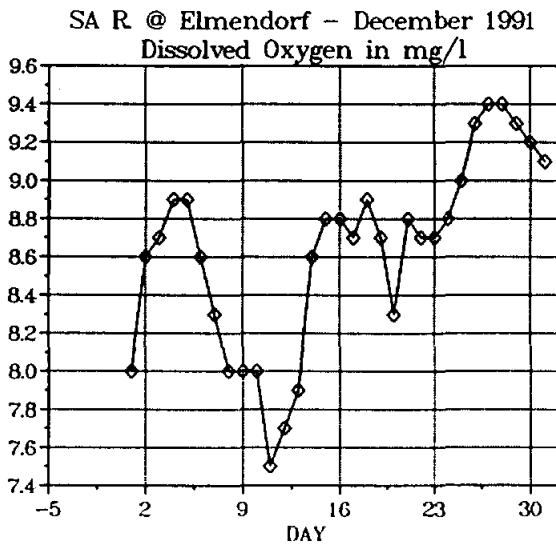
CONDUCTIVITY



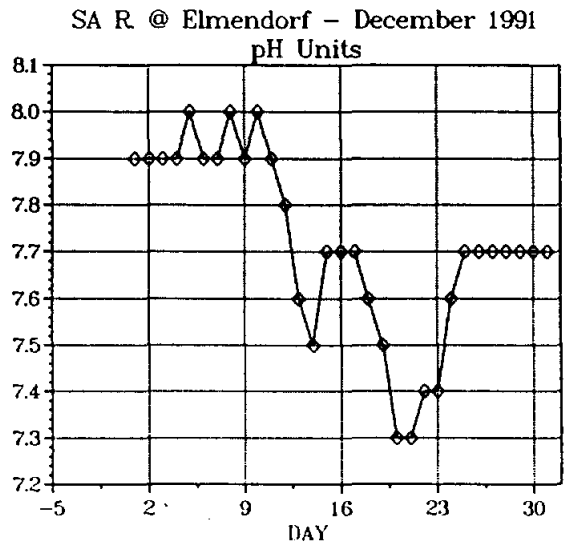
TEMPERATURE



DISSOLVED OXYGEN



pH UNITS

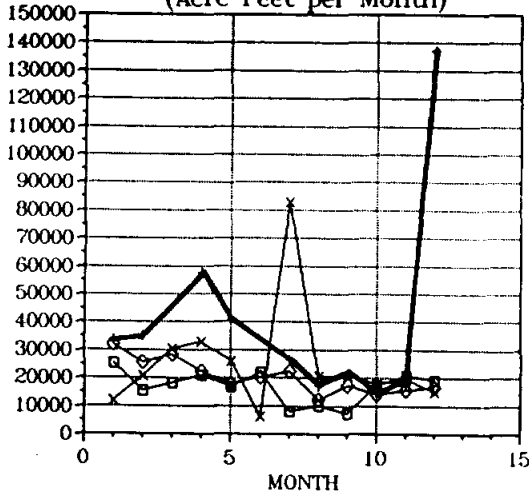


DECEMBER 1991

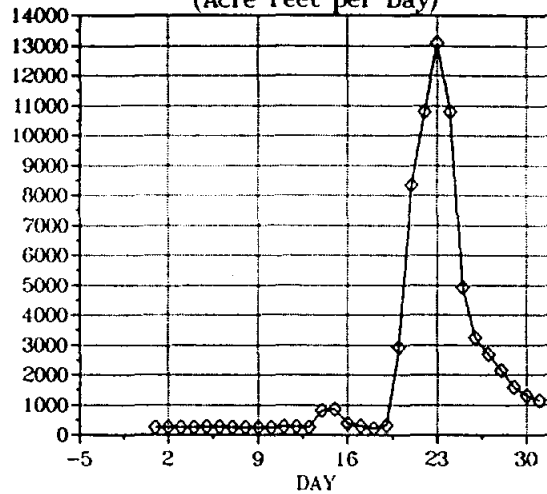
FIGURE 5-16

San Antonio River
@ Elmendorf

San Antonio R @ Falls City
(Acre Feet per Month)

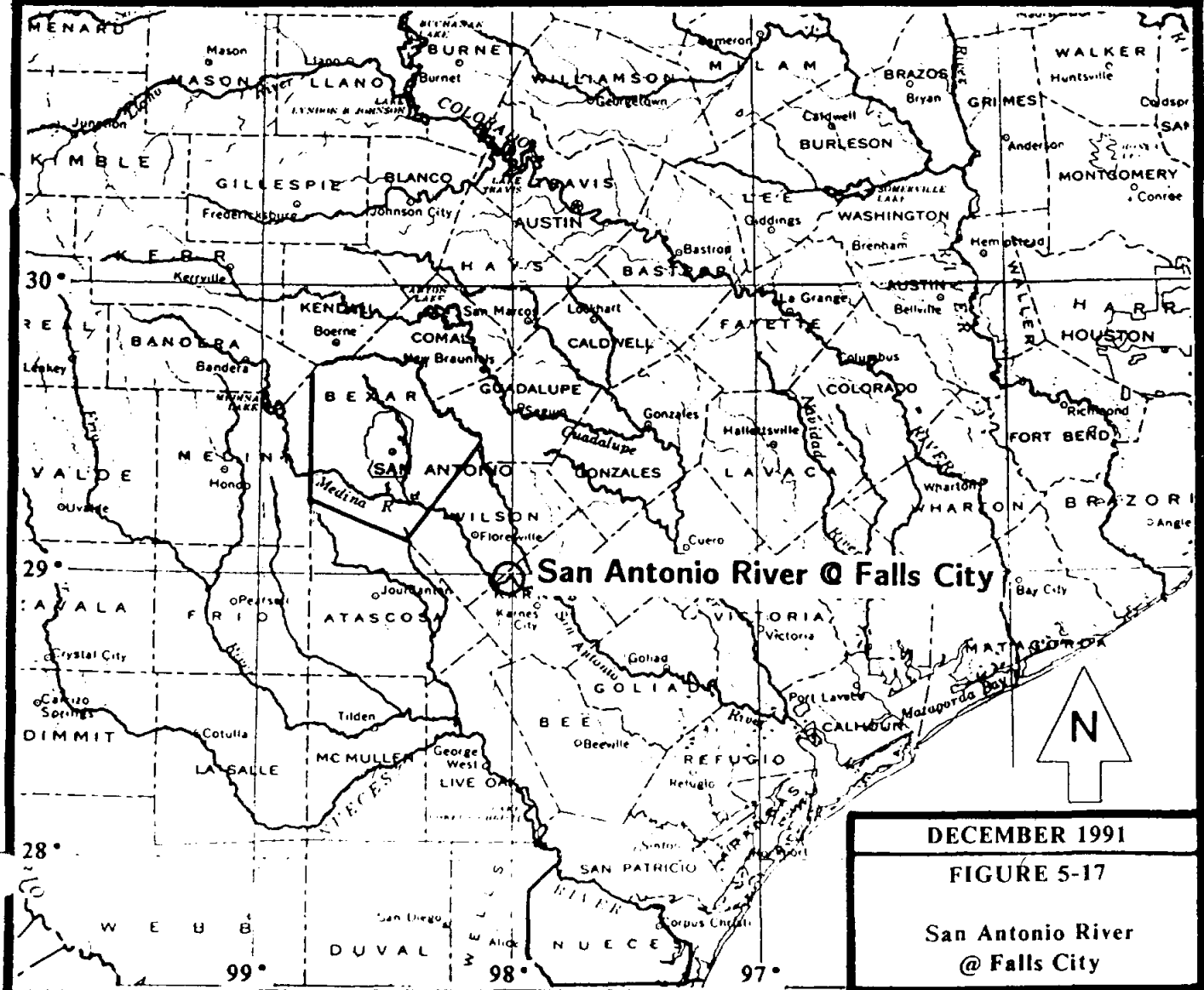
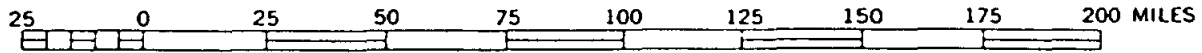


San Antonio R @ Falls City
(Acre Feet per Day)



Each YEAR: ◇ 88 □ 89 × 90 + 91

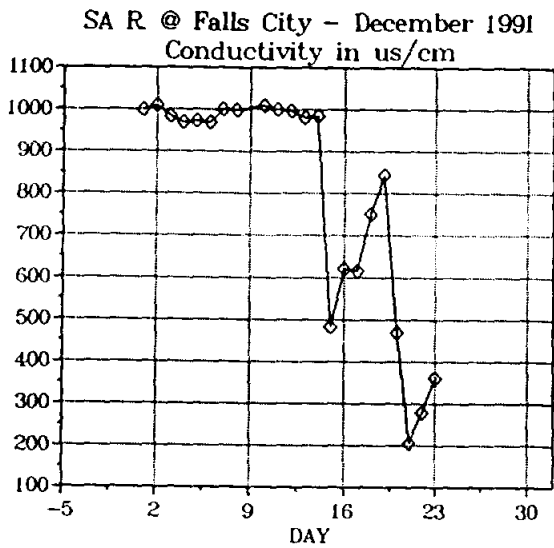
ALL DATA PROVISIONAL (subject to change upon final review)



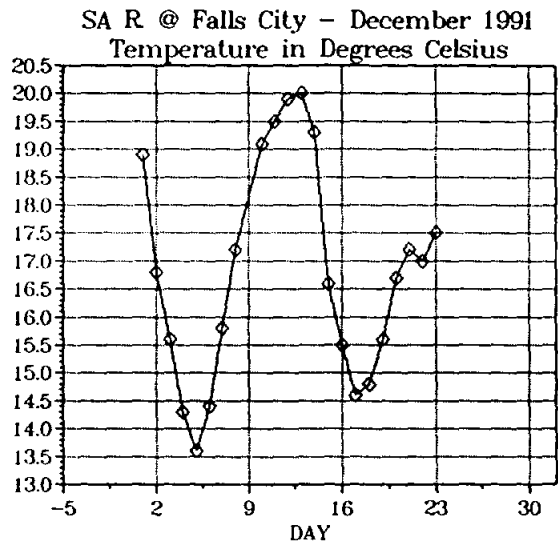
San Antonio River @ Falls City

DECEMBER 1991
FIGURE 5-17
San Antonio River
@ Falls City

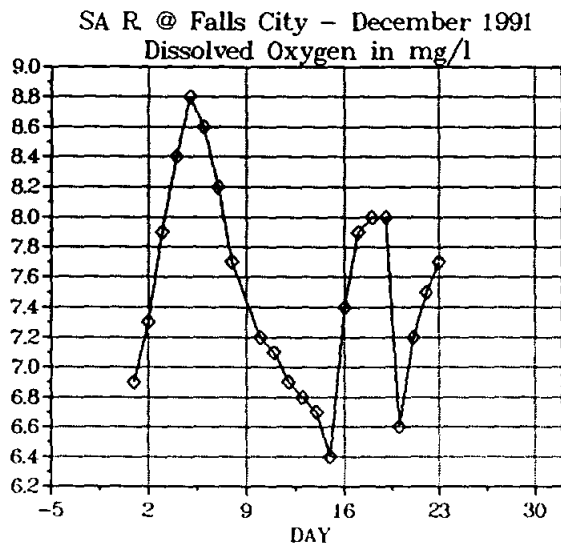
CONDUCTIVITY



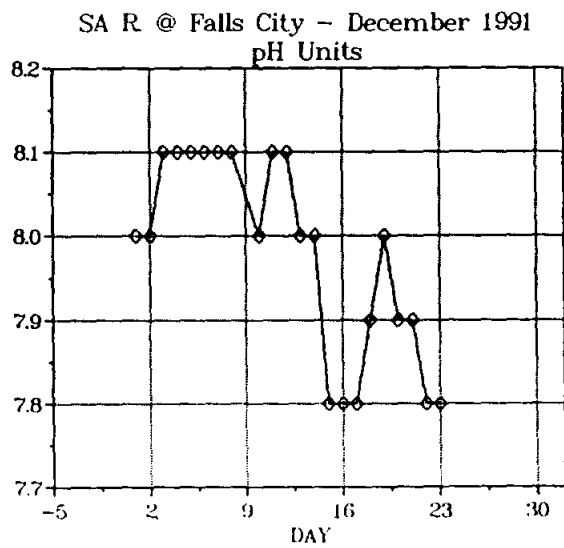
TEMPERATURE



DISSOLVED OXYGEN



pH UNITS

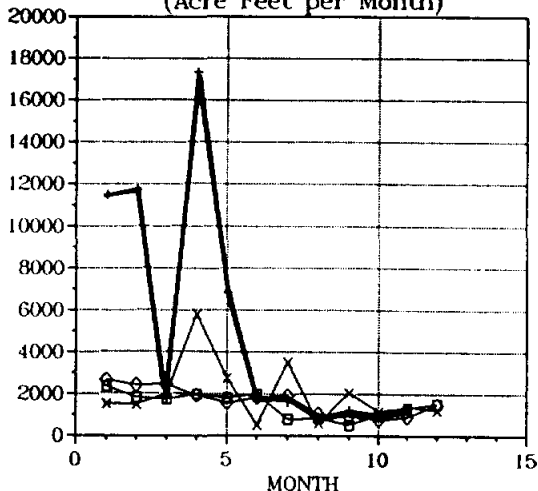


DECEMBER 1991

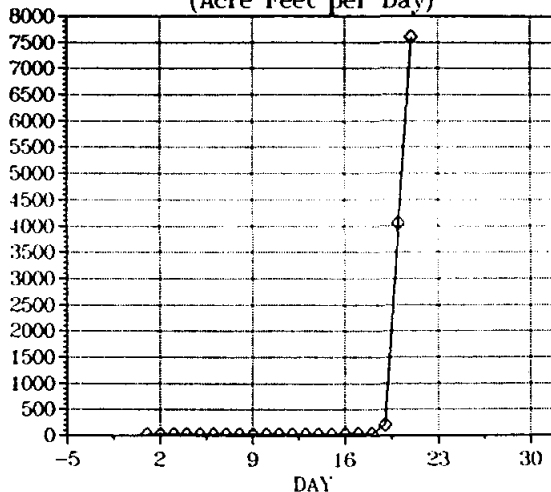
FIGURE 5-18

San Antonio River
@ Falls City

Cibolo Creek @ Falls City
(Acre Feet per Month)

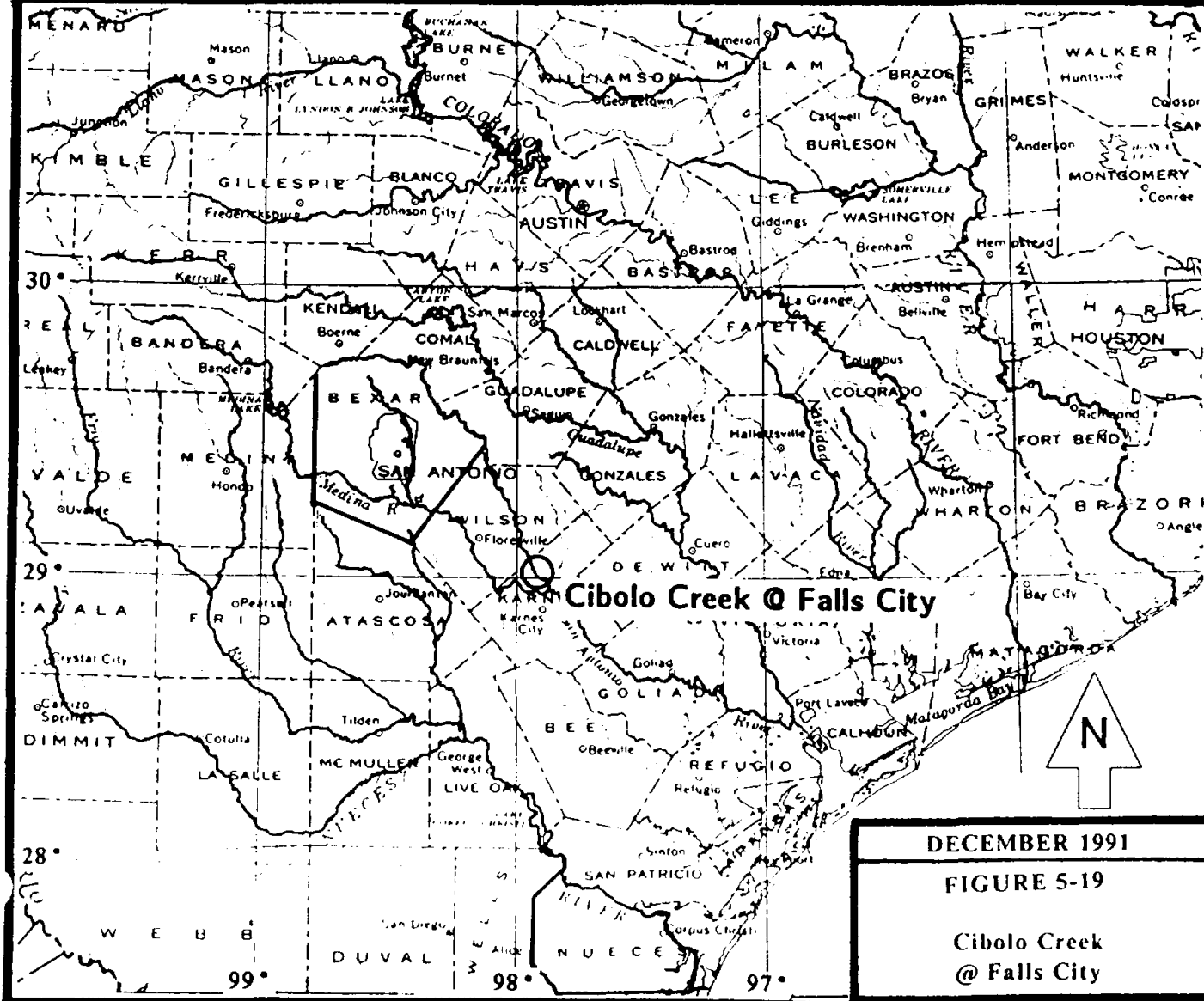
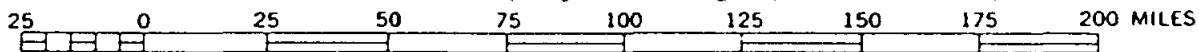


Cibolo Creek @ Falls City
(Acre Feet per Day)



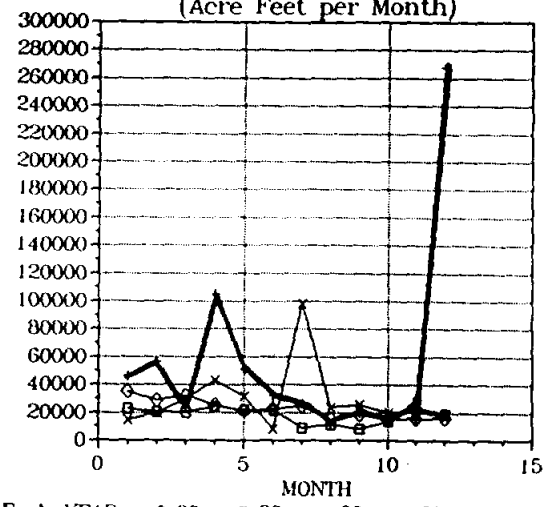
Each YEAR: ◊ 88 ◻ 89 × 90 + 91

ALL DATA PROVISIONAL (subject to change upon final review)

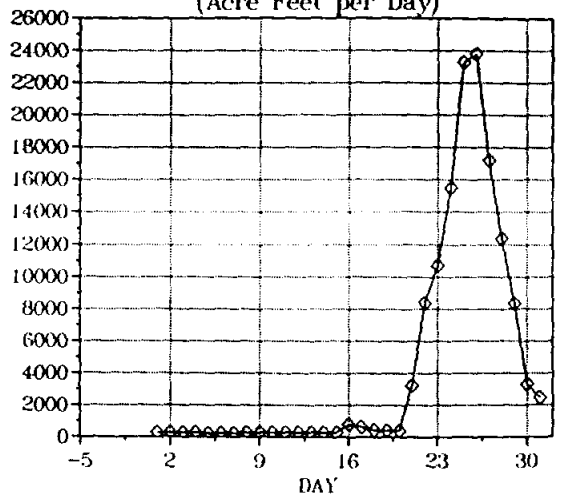


DECEMBER 1991
FIGURE 5-19
Cibolo Creek @ Falls City

San Antonio R @ Goliad
(Acre Feet per Month)

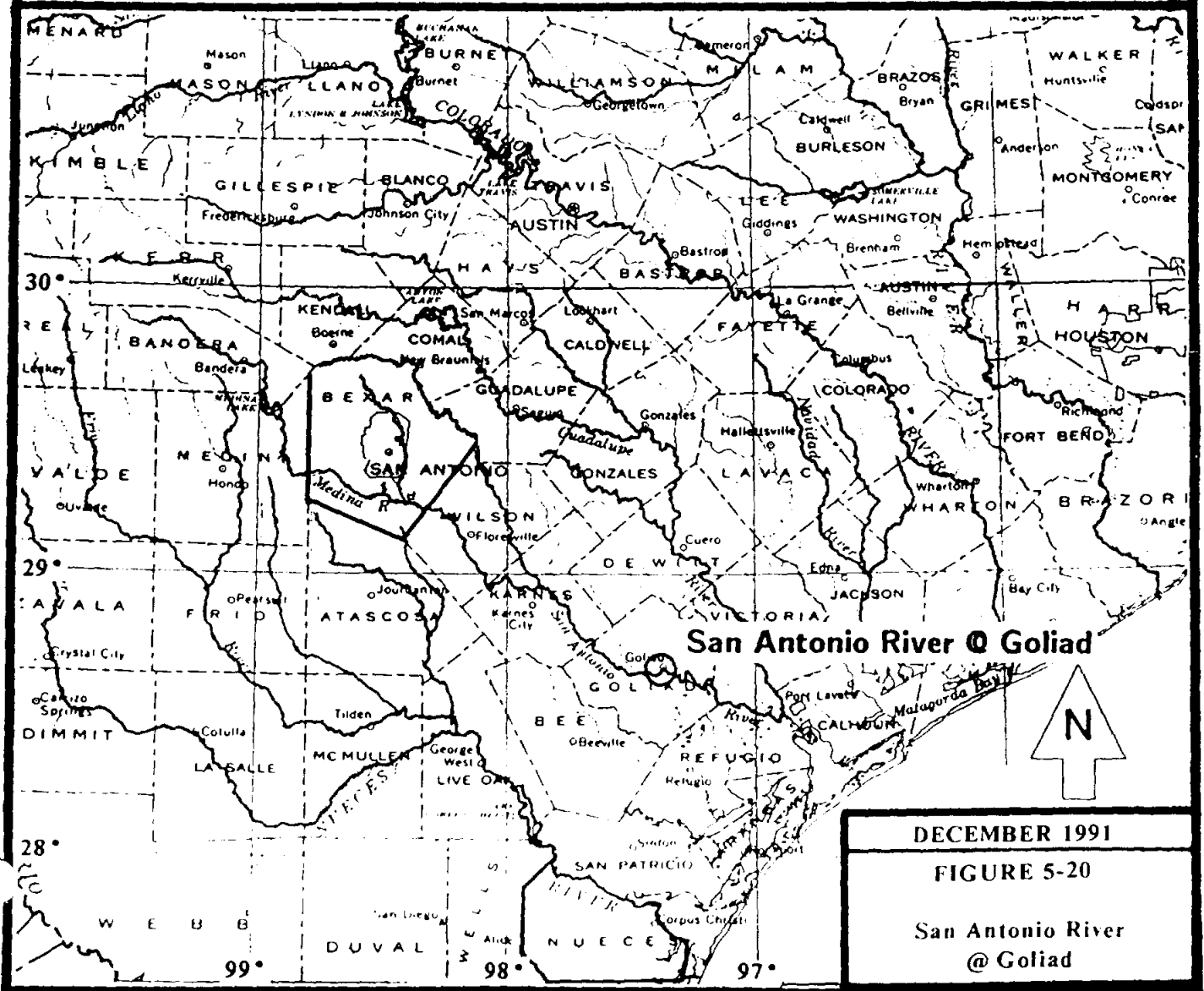
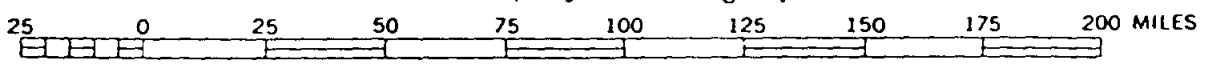


San Antonio R @ Goliad
(Acre Feet per Day)



Each YEAR: ◇ 88 □ 89 × 90 + 91

ALL DATA PROVISIONAL (subject to change upon final review)



San Antonio River @ Goliad

DECEMBER 1991
FIGURE 5-20
San Antonio River
@ Goliad

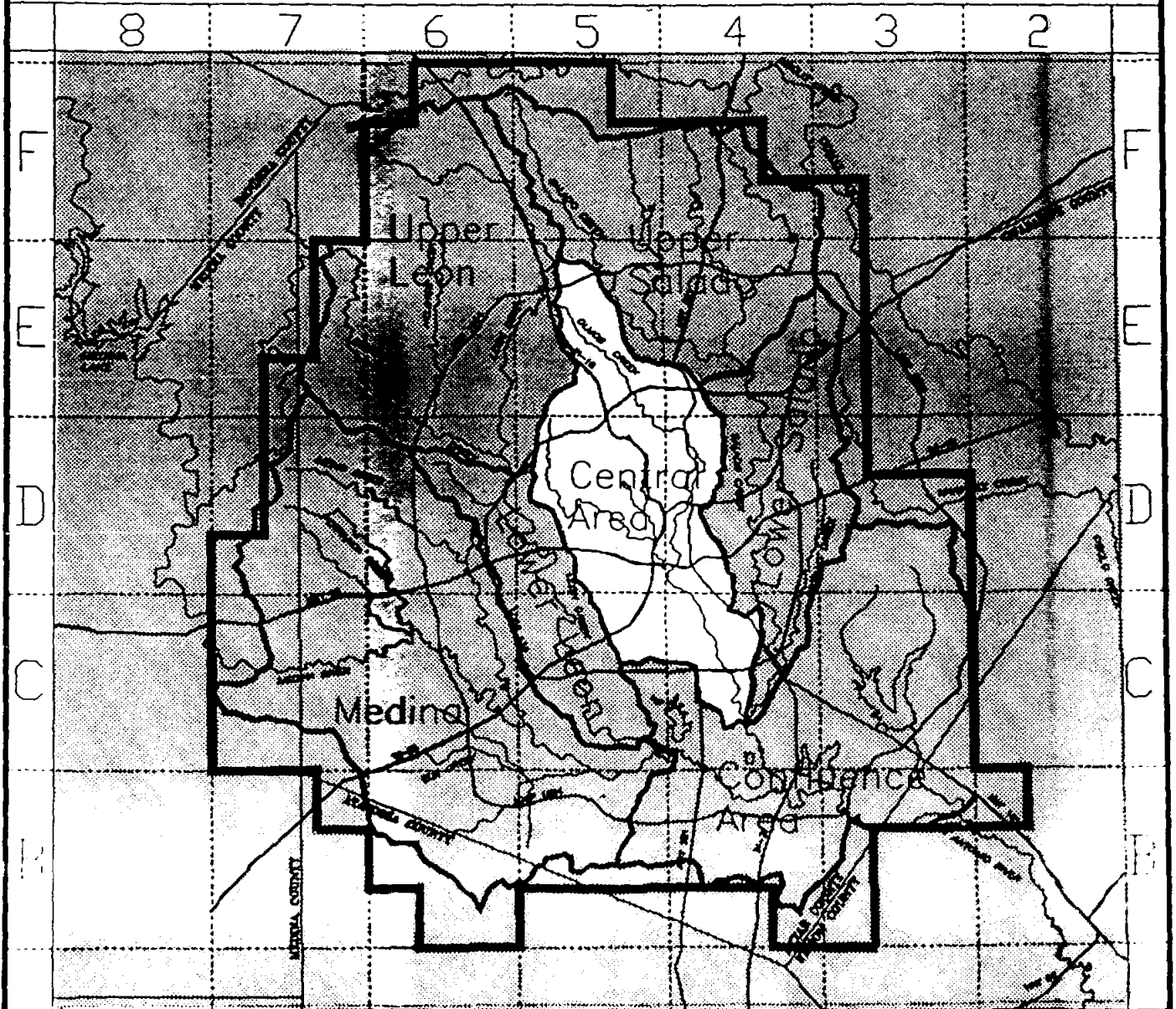
Central

EXISTING WATER USE

YEAR 1990

Watershed CENTRAL
Year 1990

BEXAR COUNTY (acre feet per year)		SAWS PLANNING REGION (acre feet per year)		WATERSHED PLANNING AREA (WPA) (acre feet per year)	
Annual Increase	6,200	Percent Capture	94.0	Percent Capture	27.0
1990 Total Use	300,000	1990 Percent Use	95.0	1990 Percent Use	51.0
Gain (1990-1990)	0	1990 Total Use	285,000	1990 Total Use	145,350
	-----	Gain (1990-1990)	0	Gain (1990-1990)	0
1990 Total Use	300,000	1990 Total Use	285,000	1990 Total Use	145,350



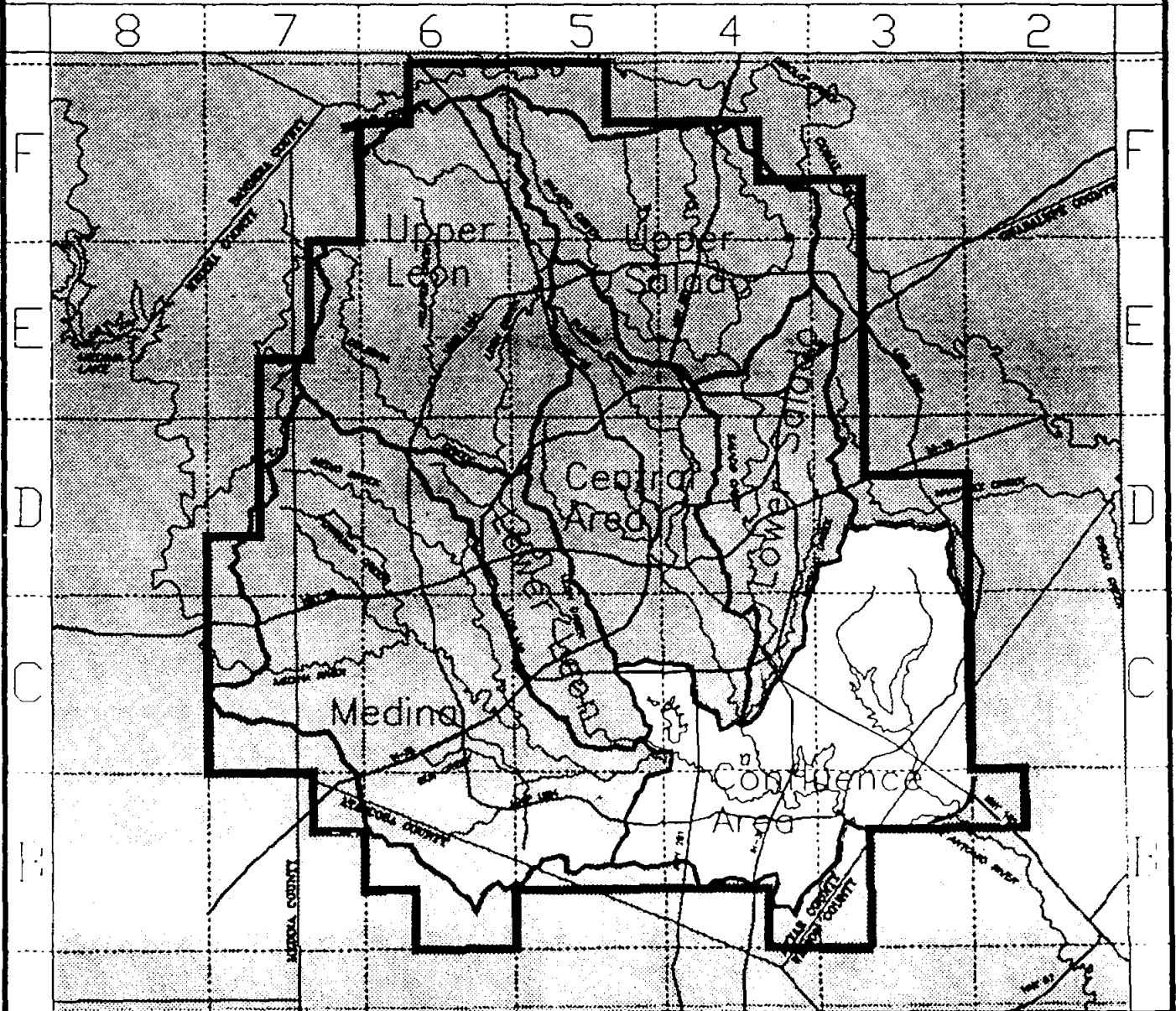
Confluence

EXISTING WATER USE

YEAR 1990

Watershed CONFLUENCE
Year 1990

BEXAR COUNTY (acre feet per year)		SAMS PLANNING REGION (acre feet per year)		WATERSHED PLANNING AREA (WPA) (acre feet per year)	
Annual Increase	6,200	Percent Capture	94.0	Percent Capture	1.0
1990 Total Use	300,000	1990 Percent Use	95.0	1990 Percent Use	1.0
Gain (1990-1990)	0	1990 Total Use	285,000	1990 Total Use	2,850
		Gain (1990-1990)	0	Gain (1990-1990)	0
1990 Total Use	300,000	1990 Total Use	285,000	1990 Total Use	2,850



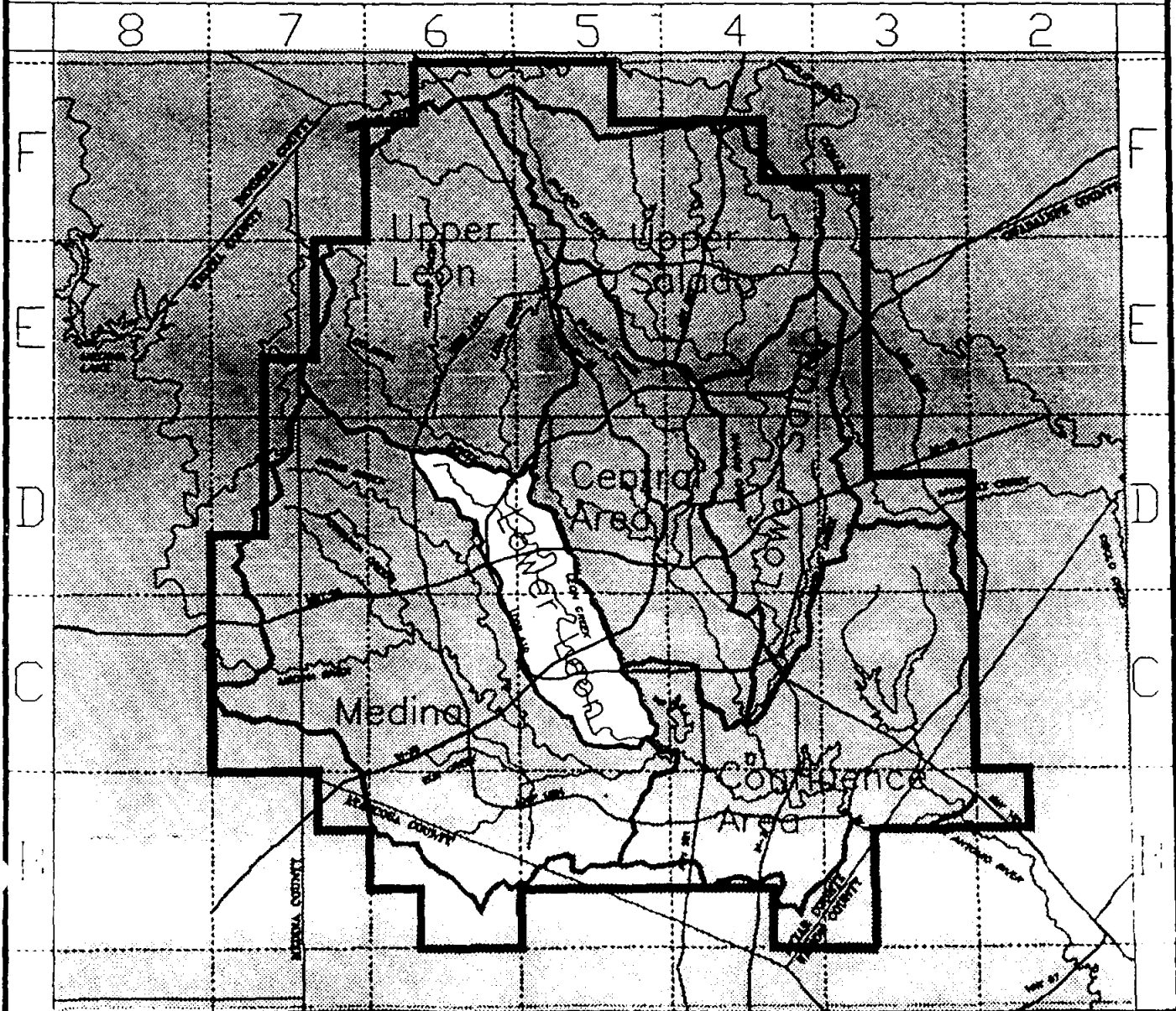
Lower Leon

EXISTING WATER USE

YEAR 1990

Watershed LOWER LEON
Year 1990

BEXAR COUNTY (acre feet per year)		SAWS PLANNING REGION (acre feet per year)		WATERSHED PLANNING AREA (WPA) (acre feet per year)	
Annual Increase	6,200	Percent Capture	94.0	Percent Capture	5.0
1990 Total Use	300,000	1990 Percent Use	95.0	1990 Percent Use	6.0
Gain (1990-1990)	0	1990 Total Use	285,000	1990 Total Use	17,100
		Gain (1990-1990)	0	Gain (1990-1990)	0
1990 Total Use	300,000	1990 Total Use	285,000	1990 Total Use	17,100



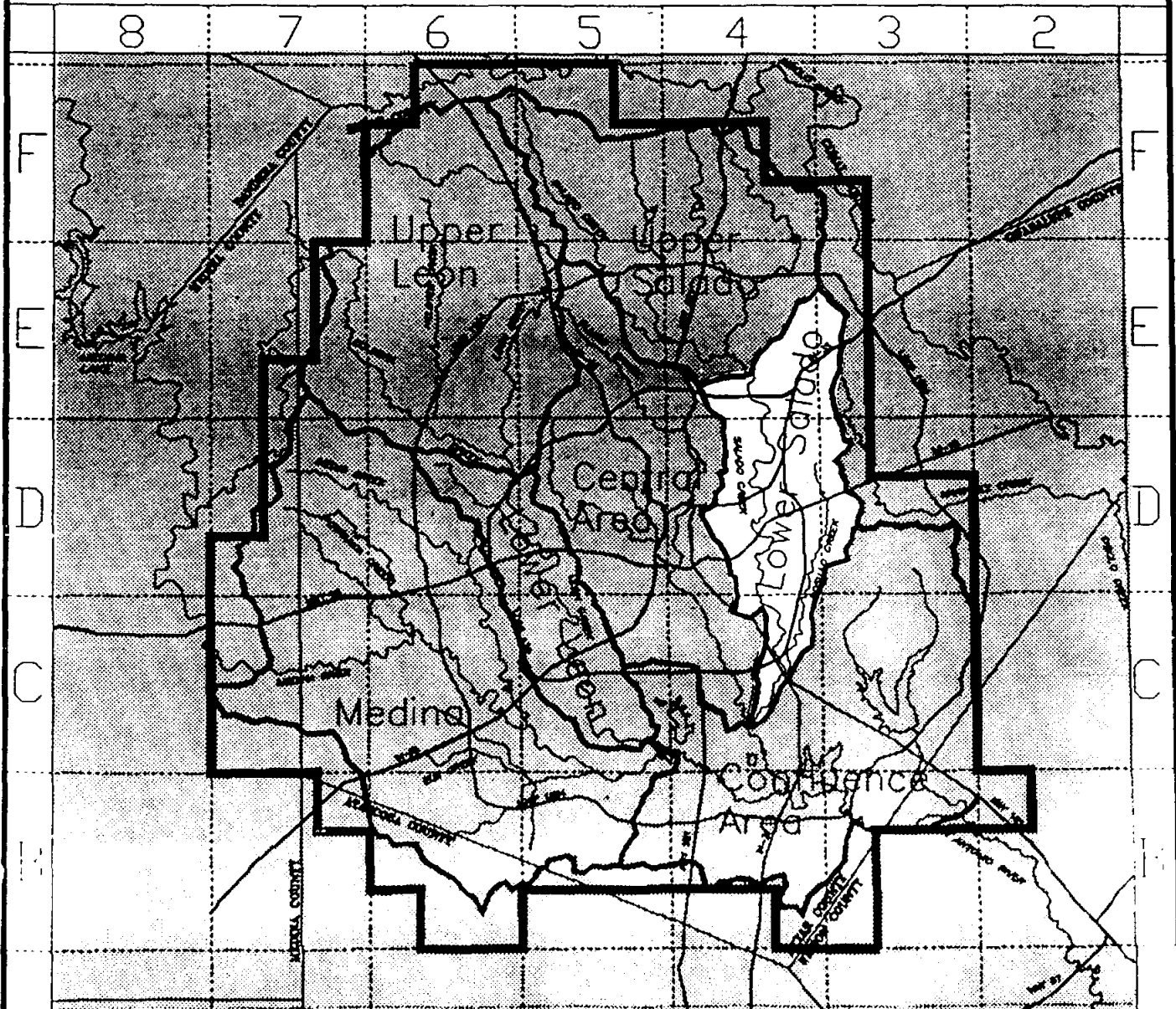
Lower Salado

EXISTING WATER USE

YEAR 1990

Watershed LOWER SALADO
Year 1990

BEXAR COUNTY (acre feet per year)		SAWS PLANNING REGION (acre feet per year)		WATERSHED PLANNING AREA (WPA) (acre feet per year)	
Annual Increase	6,200	Percent Capture	94.0	Percent Capture	17.0
1990 Total Use	300,000	1990 Percent Use	95.0	1990 Percent Use	16.0
Gain (1990-1990)	0	1990 Total Use	285,000	1990 Total Use	45,600
		Gain (1990-1990)	0	Gain (1990-1990)	0
1990 Total Use	300,000	1990 Total Use	285,000	1990 Total Use	45,600



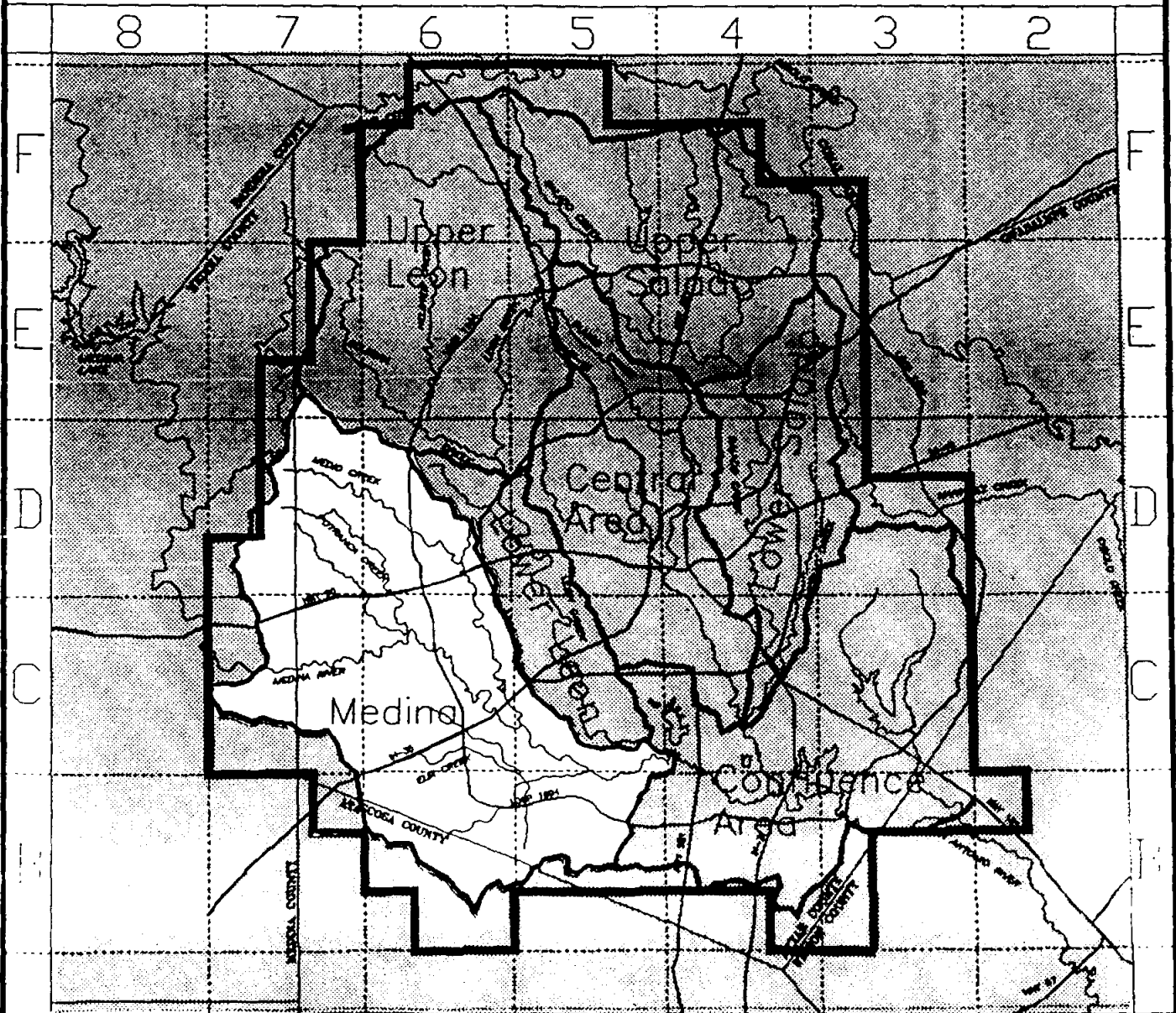
Medina

EXISTING WATER USE

YEAR 1990

Watershed MEDINA
Year 1990

BEXAR COUNTY (acre feet per year)		SAWS PLANNING REGION (acre feet per year)		WATERSHED PLANNING AREA (WPA) (acre feet per year)	
Annual Increase	6,200	Percent Capture	94.0	Percent Capture	6.0
1990 Total Use	300,000	1990 Percent Use	95.0	1990 Percent Use	4.0
Gain (1990-1990)	0	1990 Total Use	285,000	1990 Total Use	11,400
		Gain (1990-1990)	0	Gain (1990-1990)	0
1990 Total Use	300,000	1990 Total Use	285,000	1990 Total Use	11,400



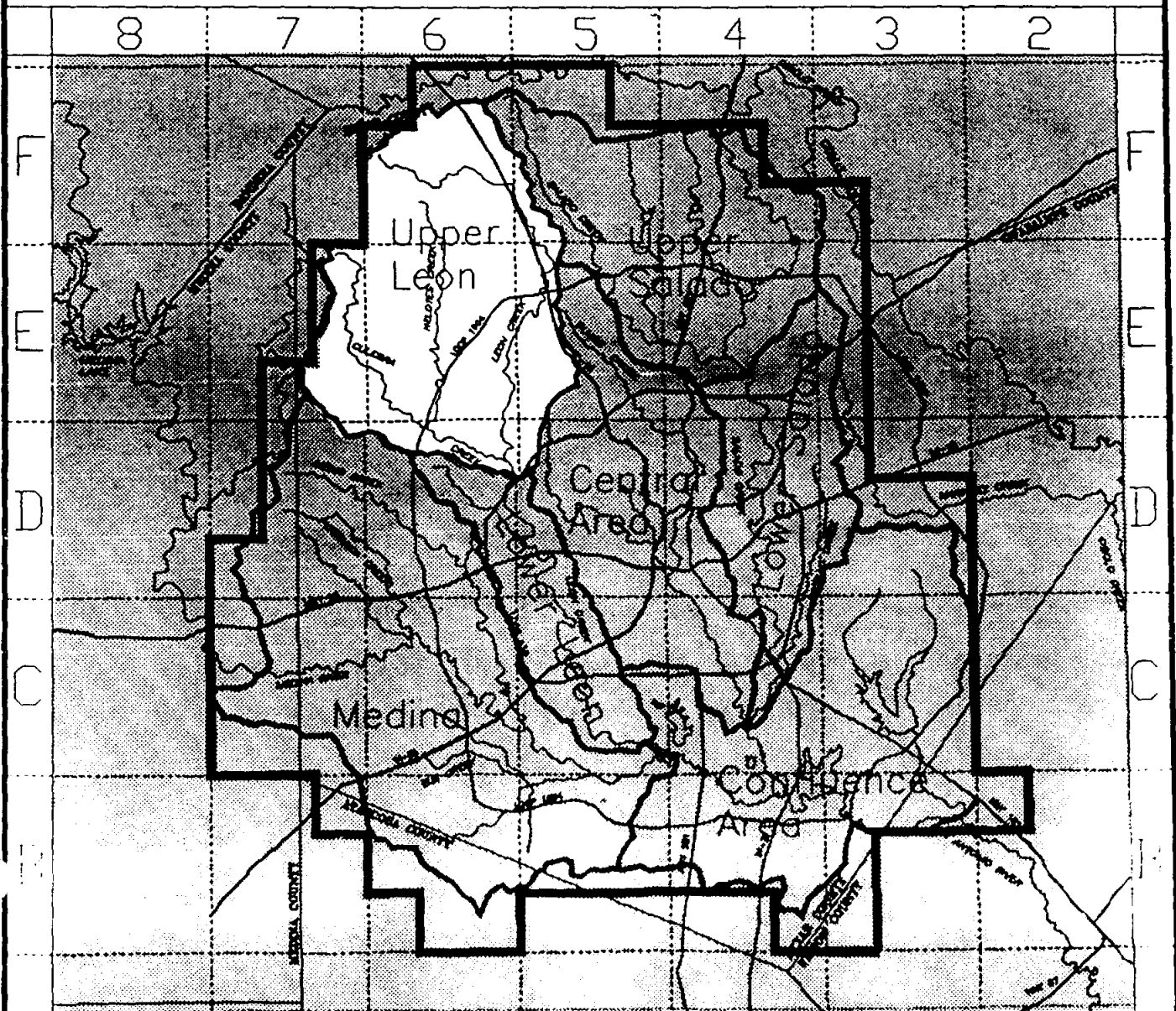
Upper Leon

EXISTING WATER USE

YEAR 1990

Watershed UPPER LEON
Year 1990

BEXAR COUNTY (acre feet per year)		SAWS PLANNING REGION (acre feet per year)		WATERSHED PLANNING AREA (WPA) (acre feet per year)	
Annual Increase	6,200	Percent Capture	94.0	Percent Capture	23.0
1990 Total Use	300,000	1990 Percent Use	95.0	1990 Percent Use	11.0
Gain (1990-1990)	0	1990 Total Use	285,000	1990 Total Use	31,350
		Gain (1990-1990)	0	Gain (1990-1990)	0
1990 Total Use	300,000	1990 Total Use	285,000	1990 Total Use	31,350



Upper Salado

EXISTING WATER USE

YEAR 1990

Watershed UPPER SALADO
Year 1990

BEXAR COUNTY (acre feet per year)		SAWS PLANNING REGION (acre feet per year)		WATERSHED PLANNING AREA (WPA) (acre feet per year)	
Annual Increase	6,200	Percent Capture	94.0	Percent Capture	21.0
1990 Total Use	300,000	1990 Percent Use	95.0	1990 Percent Use	10.0
Gain (1990-1990)	0	1990 Total Use	285,000	1990 Total Use	28,500
		Gain (1990-1990)	0	Gain (1990-1990)	0
1990 Total Use	300,000	1990 Total Use	285,000	1990 Total Use	28,500

