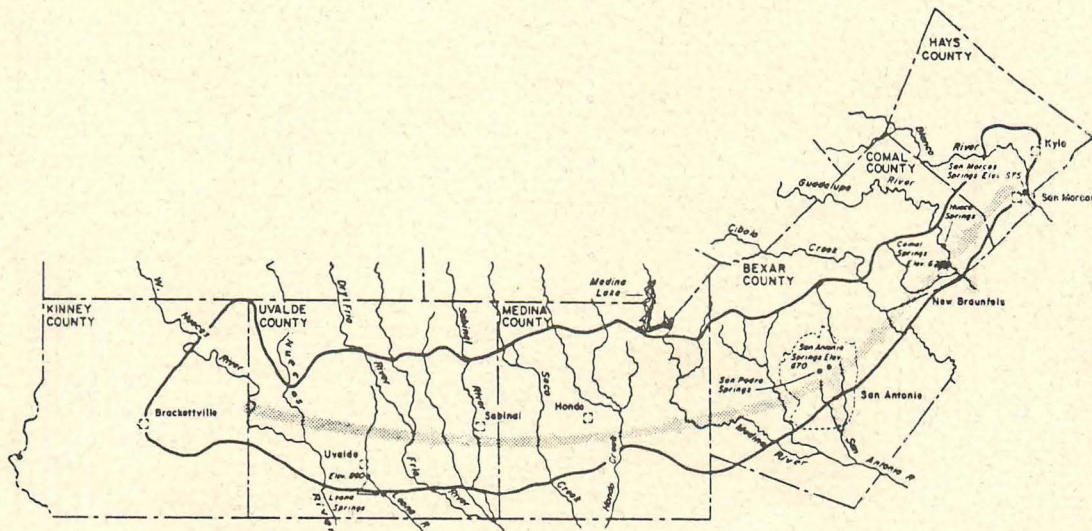


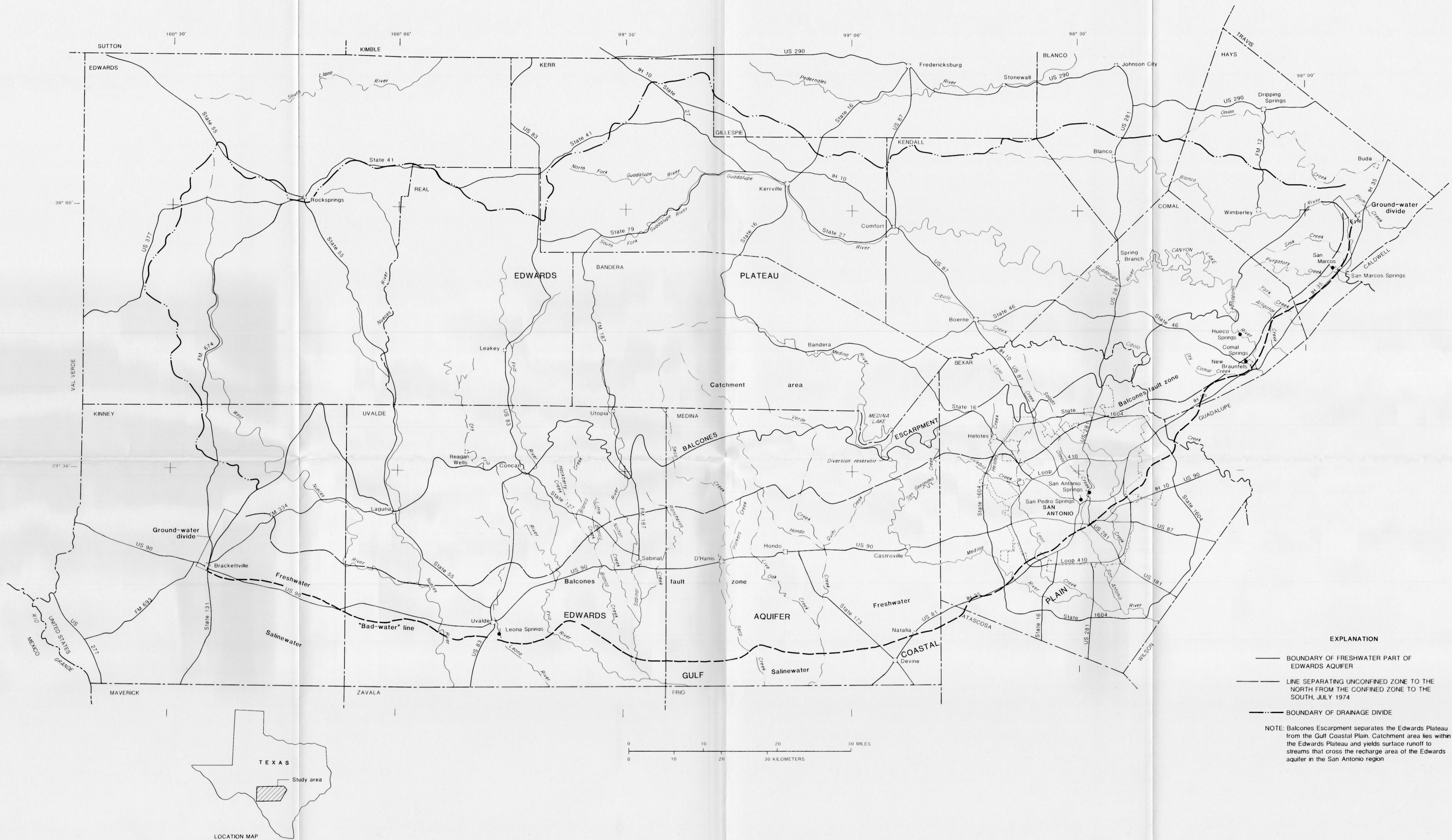
COMPILATION OF HYDROLOGIC DATA FOR THE
EDWARDS AQUIFER, SAN ANTONIO AREA, TEXAS,
1988, WITH 1934-88 SUMMARY

Bulletin 48
Edwards Underground Water District
San Antonio, Texas

PLATES



Prepared by the U.S. Geological Survey in cooperation
with the Edwards Underground Water District

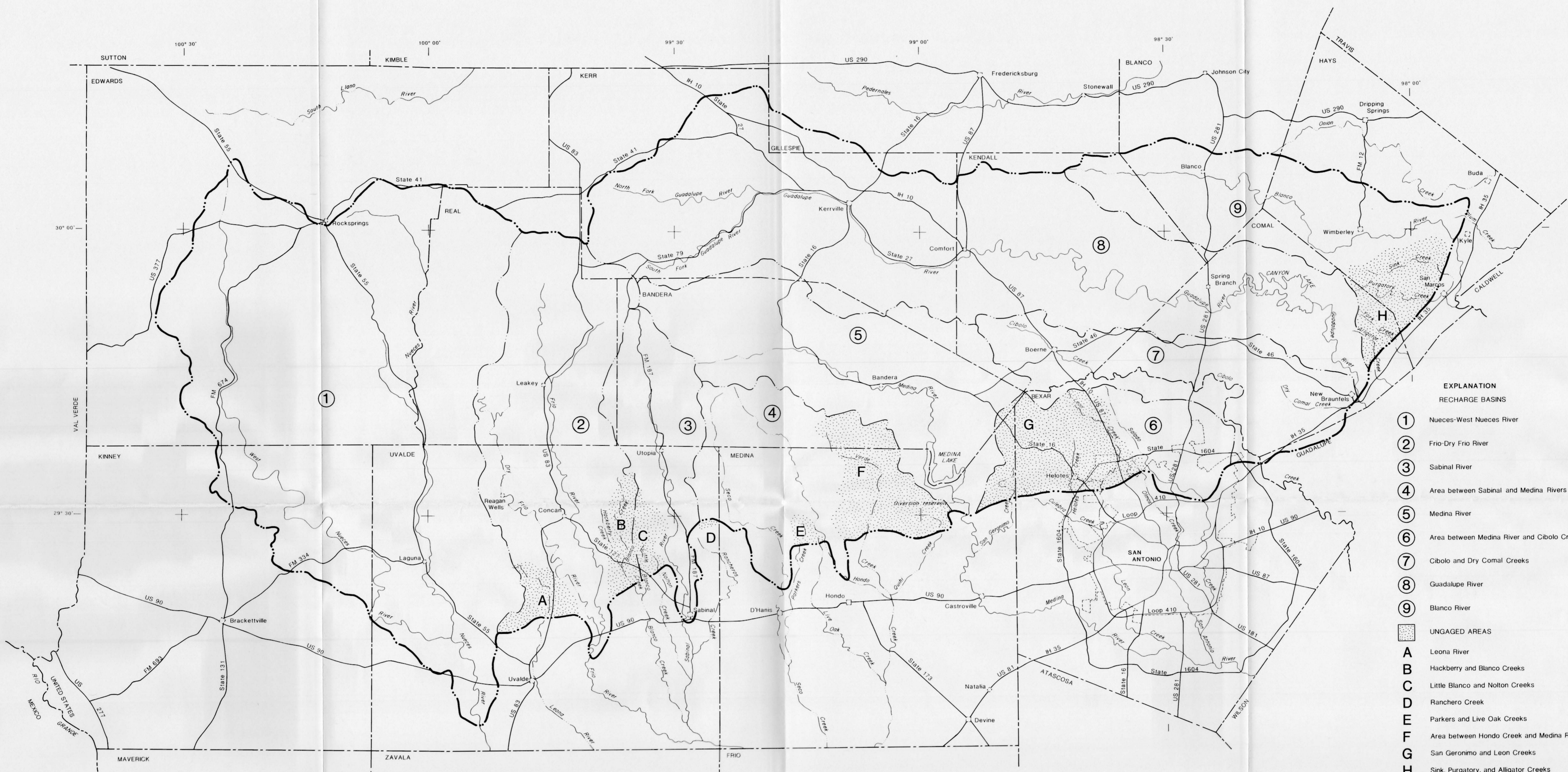


EXPLANATION

- BOUNDARY OF FRESHWATER PART OF EDWARDS AQUIFER
- LINE SEPARATING UNCONFINED ZONE TO THE NORTH FROM THE CONFINED ZONE TO THE SOUTH, JULY 1974
- BOUNDARY OF DRAINAGE DIVIDE

NOTE: Balcones Escarpment separates the Edwards Plateau from the Gulf Coastal Plain. Catchment area lies within the Edwards Plateau and yields surface runoff to streams that cross the recharge area of the Edwards aquifer in the San Antonio region.

Plate 1.--Location of the Edwards aquifer and physiographic regions in the San Antonio region.



- EXPLANATION**
- RECHARGE BASINS**
- ① Nueces-West Nueces River
 - ② Frio-Dry Frio River
 - ③ Sabinal River
 - ④ Area between Sabinal and Medina Rivers
 - ⑤ Medina River
 - ⑥ Area between Medina River and Cibola Creek
 - ⑦ Cibola and Dry Comal Creeks
 - ⑧ Guadalupe River
 - ⑨ Blanco River
- UNGAGED AREAS**
- A Leona River
 - B Hackberry and Blanco Creeks
 - C Little Blanco and Nolton Creeks
 - D Ranchero Creek
 - E Parkers and Live Oak Creeks
 - F Area between Hondo Creek and Medina River
 - G San Geronimo and Leon Creeks
 - H Sink, Purgatory, and Alligator Creeks
- BASIN BOUNDARY
- - - SUBBASIN DIVIDE

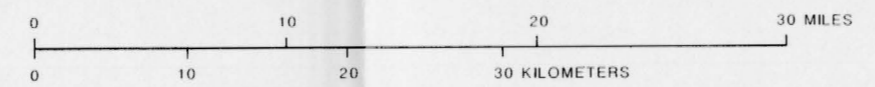
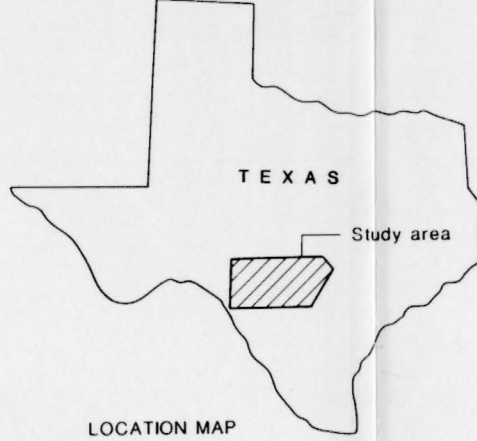
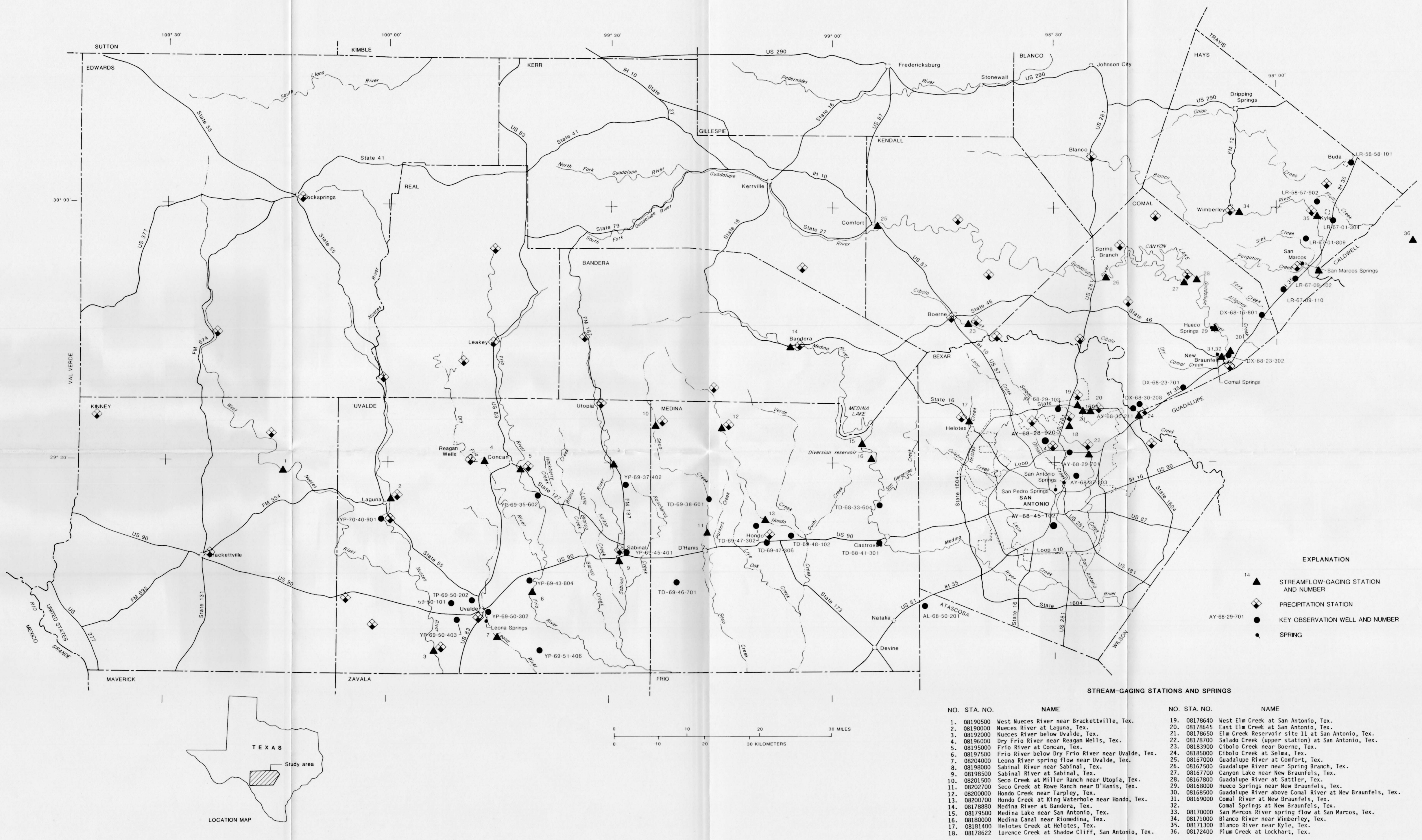


Plate 2.--Location of drainage basins and ungaged areas.



STREAM-GAGING STATIONS AND SPRINGS

NO.	STA. NO.	NAME	NO.	STA. NO.	NAME
1.	08190500	West Nueces River near Brackettville, Tex.	19.	08178640	West Elm Creek at San Antonio, Tex.
2.	08190000	Nueces River at Laguna, Tex.	20.	08178645	East Elm Creek at San Antonio, Tex.
3.	08192000	Nueces River below Uvalde, Tex.	21.	08178650	Elm Creek Reservoir site 11 at San Antonio, Tex.
4.	08196000	Dry Frio River near Reagan Wells, Tex.	22.	08178700	Salado Creek (upper station) at San Antonio, Tex.
5.	08195000	Frio River at Concan, Tex.	23.	08183900	Cibolo Creek near Boerne, Tex.
6.	08197500	Frio River below Dry Frio River near Uvalde, Tex.	24.	08185000	Cibolo Creek at Selma, Tex.
7.	08204000	Leona River spring flow near Uvalde, Tex.	25.	08167000	Guadalupe River at Comfort, Tex.
8.	08198000	Sabinal River near Sabinal, Tex.	26.	08167500	Guadalupe River near Spring Branch, Tex.
9.	08198500	Sabinal River at Sabinal, Tex.	27.	08167700	Canyon Lake near New Braunfels, Tex.
10.	08201500	Seco Creek at Miller Ranch near Utopia, Tex.	28.	08167800	Guadalupe River at Sattler, Tex.
11.	08202700	Seco Creek at Howe Ranch near D'Hanis, Tex.	29.	08168000	Huaco Springs near New Braunfels, Tex.
12.	08200000	Hondo Creek near Tarpley, Tex.	30.	08168500	Guadalupe River above Conal River at New Braunfels, Tex.
13.	08200700	Hondo Creek at King Waterhole near Hondo, Tex.	31.	08169000	Comal River at New Braunfels, Tex.
14.	08178800	Medina River at Bandera, Tex.	32.	08169500	Comal Springs at New Braunfels, Tex.
15.	08179500	Medina Lake near San Antonio, Tex.	33.	08170000	San Marcos River spring flow at San Marcos, Tex.
16.	08180000	Medina Canal near Riomedina, Tex.	34.	08171000	Blanco River near Wimberley, Tex.
17.	08181400	Helotes Creek at Helotes, Tex.	35.	08171300	Blanco River near Kyle, Tex.
18.	08178622	Lorence Creek at Shadow Cliff, San Antonio, Tex.	36.	08172400	Plum Creek at Lockhart, Tex.

Plate 3.--Location of data-collection sites for streamflow, precipitation, and observation wells, 1988.

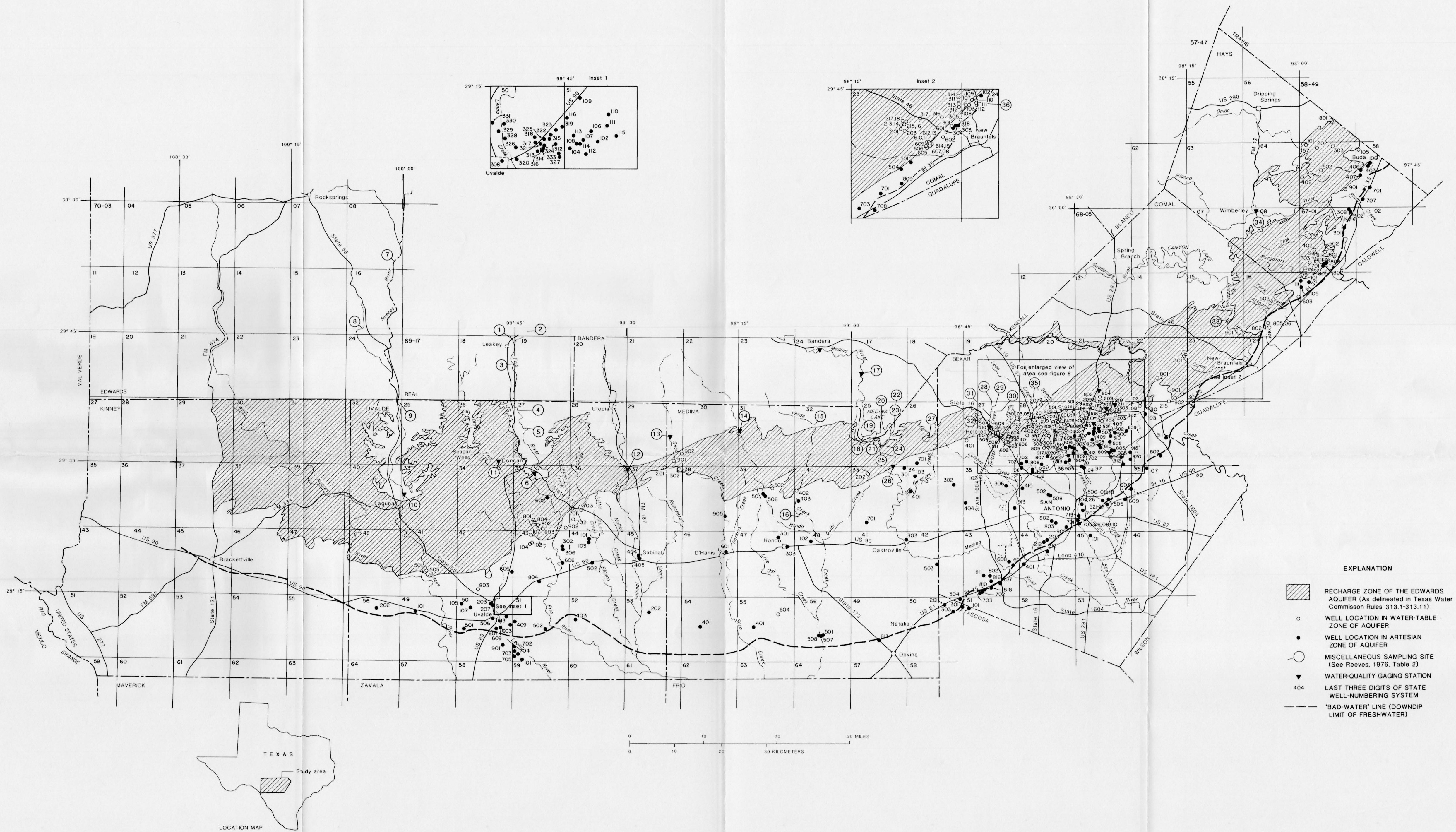


Plate 5.--Location of water-quality data -collection sites for wells, springs, and streams sampled within the period 1972-88.

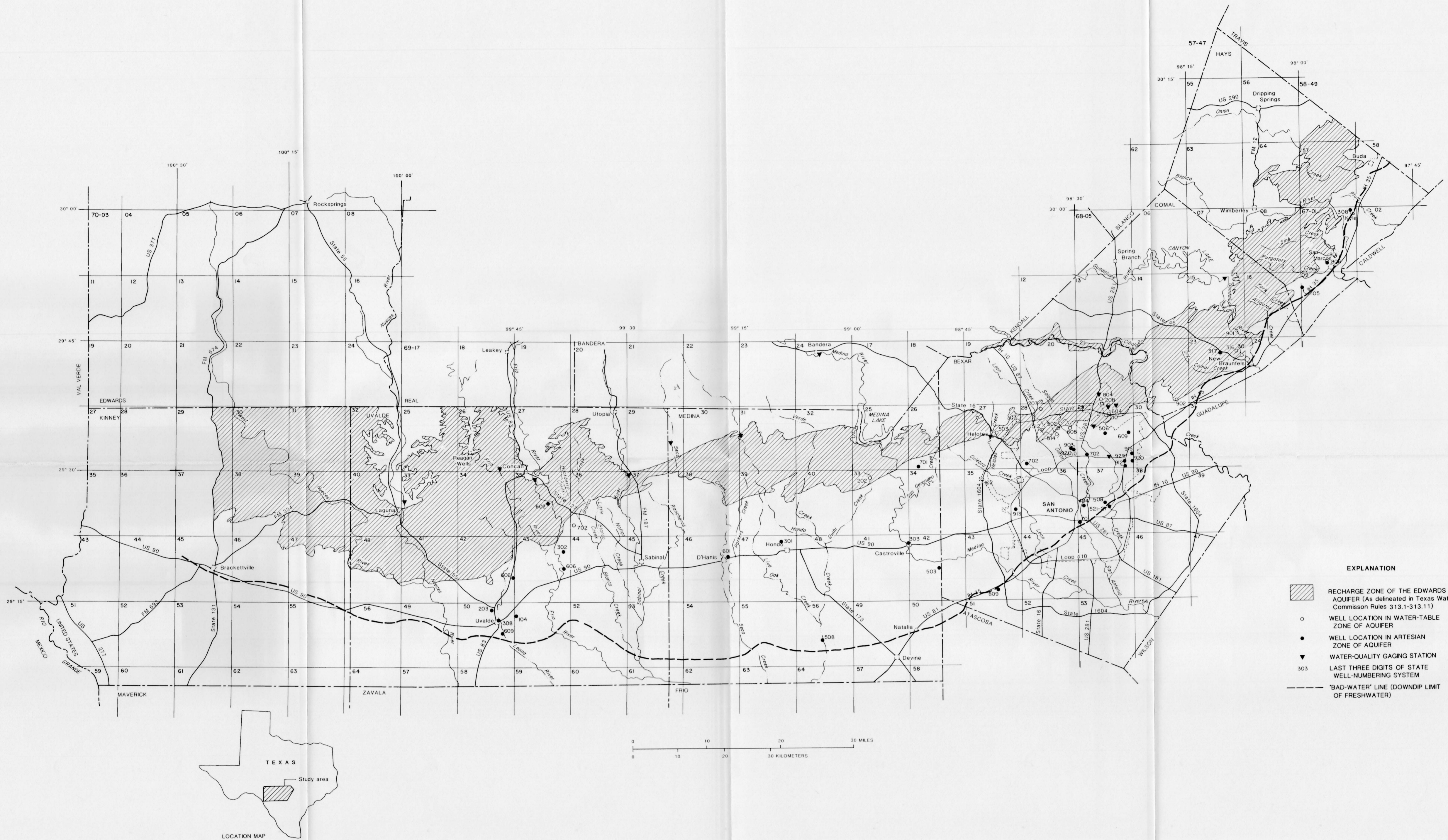
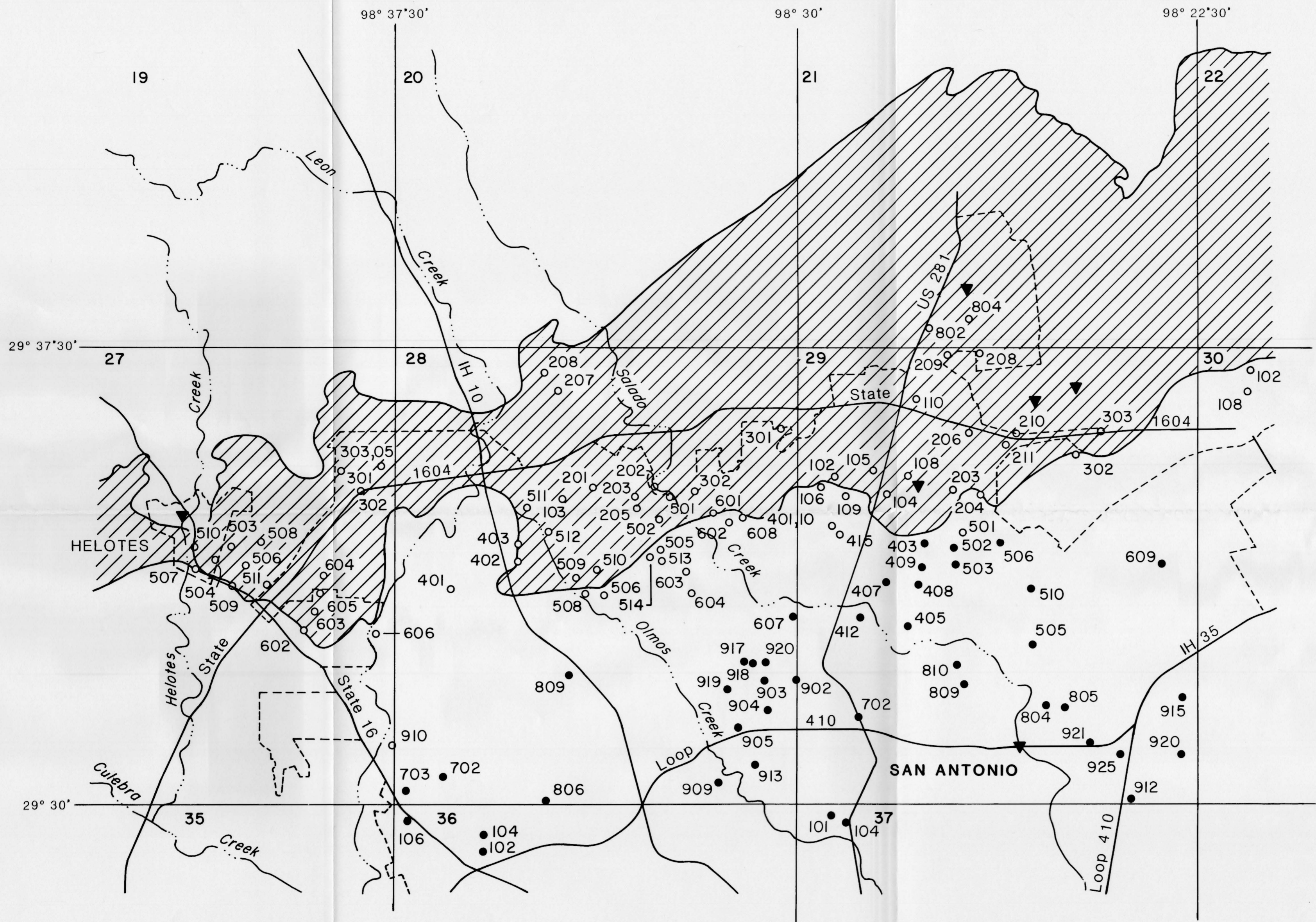




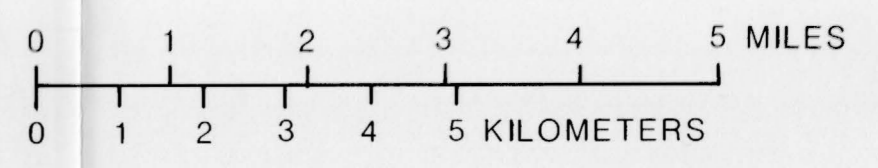


Plate 4.--Location of water-quality data-collection sites for wells, springs, and streams sampled in 1988.



EXPLANATION

-  RECHARGE ZONE OF THE EDWARDS AQUIFER (As delineated in Texas Water Commission Rules 313.1-313.11)
-  WELL LOCATION IN WATER-TABLE ZONE OF AQUIFER
-  WELL LOCATION IN ARTESIAN ZONE OF AQUIFER
-  WATER-QUALITY GAGING STATIONS
- 202 LAST THREE DIGITS OF STATE WELL-NUMBERING SYSTEM



For location of map see Figure 7

Plate 6 --Location of water-quality data-collection sites for wells, springs, and streams in the vicinity of San Antonio sampled within the period 1972-88.