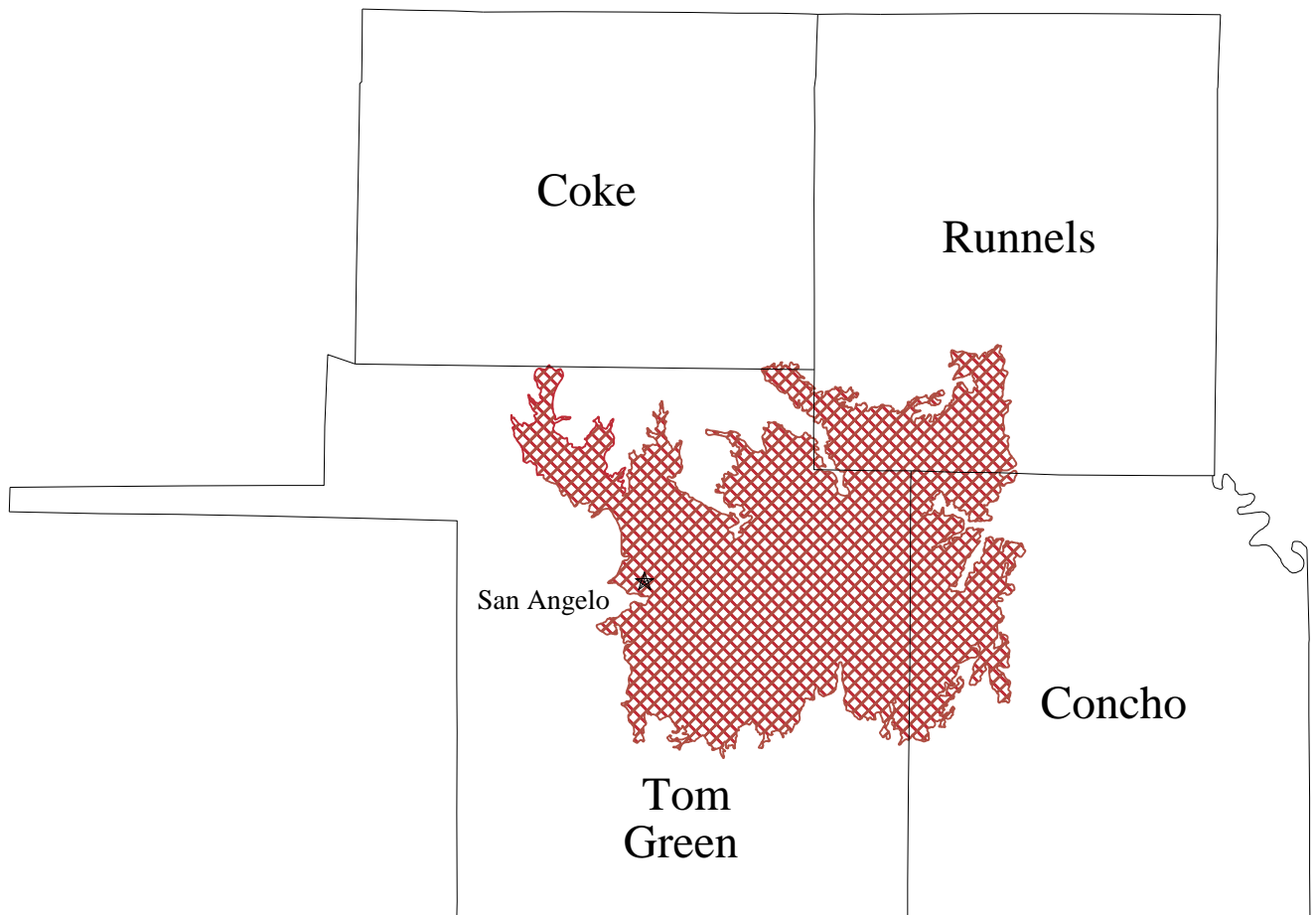


Lipan



Lipan Aquifer

The Lipan aquifer is located in the Lipan Flats area of eastern Tom Green, western Concho, and southern Runnels counties. The water is principally used for irrigation, with limited amounts used for rural domestic and livestock purposes.

The aquifer comprises up to 125 feet of saturated alluvial deposits of the Leona Formation of Quaternary age. Also included in the aquifer are the updip portions of the underlying Choza Formation and Bullwagon Dolomite of Permian age that are hydrologically continuous with the Leona and contain fresh to slightly saline water.

Ground water in the Lipan aquifer naturally discharges by seepage to the Concho River and by evapotranspiration in areas where the water table is at or near land surface. Well yields commonly range from 100 gal/min to more than 1,000 gal/min.

Ground water in the Leona Formation ranges from fresh to slightly saline and is very hard. Water in the underlying updip portions of the Choza and Bullwagon tends to be slightly saline. The chemical quality of ground water in the Lipan aquifer often does not meet drinking water standards; however, it is generally suitable for irrigation.

References

Lee, J.N., 1986, Shallow ground-water conditions, Tom Green County, Texas: U.S. Geological Survey Water-Resources Inv. Rept. 86-4177, 41 p.