

Table 1.--Geologic units and their water-bearing properties, Brazos River Basin--Continued

Era	System	Series and Group	Unit	Thickness (feet)	Lithology	Water-bearing properties	Occurrence		
Cenozoic	Tertiary	Eocene Series	Carrizo Sand and Wilcox Formation, undifferentiated	0- 4,300+	Alternating beds of fine to medium sand, silt, clay, sandy clay, and shale. Contains beds of lignite, glauconite, ferruginous concretions, and conglomerate.	Yields small to large quantities of water to domestic, public-supply, irrigation, and industrial wells.	Region III.		
				0- 900±	Glauconitic sand, silt, calcareous and gypsiferous clay, and limestone.	Yields small to moderate quantities of water chiefly from limestone lentils.	Do.		
		Paleocene Series	Midway Group	Rocks of Taylor age, undifferentiated	0- 550±	Sandy marl and clay, locally gypsiferous and glauconitic; fine sand, in places lime cemented.	Locally yields small quantities of fresh to moderately saline water to wells, except the Eagle Ford Shale, which is not known to yield water to wells in the Brazos River Basin.	Do.	
					0- 1,100±	Marl, sandy marl, chalky limestone, and calcareous sandstone.			
		Gulf Series	Navarro Group	Austin Chalk	0- 600±	Chalky and marly limestone and limy shale.			
					0- 200±	Shale, thinly-bedded sandstone and limestone.			
					0- 185±	Gross-bedded ferruginous sandstone, shale, clay, sandy clay, lignite, and gypsiferous clay.	Yields small to moderate quantities of fresh to slightly saline water to domestic and public-supply wells.	Do.	
					0- 580+	Fossiliferous limestone and marl; some shale, clay, sand, and shell agglomerate.	The Edwards Limestone yields small to large quantities of water to public-supply, domestic, and livestock wells, and springs in McLennan, Bell, and Williamson Counties.	Regions I, II, and III.	
		Mesozoic	Cretaceous	Washita and Fredericksburg Groups, undifferentiated	Paluxy Sand	0- 190	Fine to medium sand, interbedded calcareous shale, and some clay and ferruginous material.	Furnishes small to moderate quantities of fresh to slightly saline water to public-supply, domestic, and livestock wells.	Regions II and III.
						0- 1,200±	Alternating beds of limestone, marl, clay, sand, and anhydrite.	Locally yields small quantities of fresh water to shallow wells in the outcrop. Yields small to moderate quantities of slightly saline water to a few widely scattered wells in the downdip part of the aquifer.	Do.
Comanche Series	Trinity Group			Travis Peak Formation	0- 1,600±	Fine to coarse sand and conglomerate, interbedded with red and green shale and calcite.	Yields small to large quantities of fresh to moderately saline water to flowing and non-flowing wells for domestic, industrial, irrigation, and municipal supplies.	Do.	
					0- 1,000±	Clay, shale, and sandy shale, cross-bedded sandstone, conglomerate, gypsum, and anhydrite.	On high plains west of escarpment, exploratory work indicates that only small yields of slightly to very saline water can be expected. East of the escarpment, the Triassic yields small to moderate quantities of water for irrigation, public supply, industry, and domestic and livestock.	Regions I and II.	
					0- 900±	Shale, gypsum, dolomite, anhydrite, limestone, and sandstone.	Yields small quantities of water to domestic and livestock wells. Locally may yield moderate quantities of fresh to saline water from solution channels in gypsum.	Do.	
					0- 1,800±	Chiefly shale and thin beds of limestone, marl, dolomite, anhydrite, gypsum, and sandstone.	Yields small quantities of slightly to moderately saline water.	Do.	
Permian	Leonard Series			Pease River Group	Clear Fork Group	0- 1,800±	Chiefly gray and red shale; minor amounts of limestone, sandstone, siltstone, conglomerate, and coal.	Yields only very small quantities of saline water to a few wells.	Regions II and III.
						0- 1,200±	Shale, sandstone, conglomerate, and limestone, and a few beds of coal.	Yields small quantities of water to domestic and livestock wells, and to a few public-supply and industrial wells.	Do.
Paleozoic	Pennsylvanian			Cisco Group	Canyon Group	0- 1,000	Chiefly limestone and shale; minor amounts of sandstone and conglomerate.	Yields small quantities of fresh to slightly saline water in and near the outcrop.	Do.
						3,000±	Alternating beds of shale, conglomerate, and sandstone; minor amounts of limestone and coal.	Yields small quantities of fresh to slightly saline water from sandstones and conglomerate in and near the outcrop.	Do.
		Bend Group	Marble Falls Limestone	450±	Fossiliferous limestone, and black shale.	Yields small supplies of fresh to slightly saline water to wells and large quantities to some springs.	Region III.		
				2,000±	Fine, medium, and coarse crystalline dolomite, and dense fine-grained limestone; some chert.	Yields small quantities of fresh to slightly saline water to wells and springs.	Do.		
Ordovician	Paleozoic rocks, undifferentiated	Ellenburger Group	14,000±	Shale, limestone, dolomite, sandstone, and evaporites.	Does not yield potable water to wells in the Brazos River Basin.	--			