EDWARDS UNDERGROUND WATER DISTRICT

1619 Tower Life Building San Antonio, Texas

BULLETIN 5

GROUND-WATER DISCHARGE FROM THE EDWARDS AND ASSOCIATED LIMESTONES, SAN ANTONIO AREA, TEXAS, 1963

Compiled by Sergio Garza, Hydraulic Engineer United States Geological Survey

Prepared in cooperation with the Geological Survey,
United States Department of the Interior,
the Texas Water Commission, and
the City of San Antonio

GROUND-WATER DISCHARGE FROM THE EDWARDS AND ASSOCIATED LIMESTONES, 1963, SAN ANTONIO AREA, TEXAS

By

Sergio Garza, Hydraulic Engineer United States Geological Survey August 1964

Records of the ground-water discharge from the Edwards and associated limestones in the San Antonio area are collected as part of the overall hydrologic investigation of the U. S.

Geological Survey in cooperation with the Edwards Underground Water District, the Texas Water Commission, and the city of San Antonio. This investigation has been continued for many years and has resulted in several geologic and hydrologic reports, some of which are listed in the references. This report is one of three basic-data reports published yearly by the Edwards Underground Water District.

The table included in this report represents the discharge from the Edwards and associated limestones during 1963 in each county of the area by use. The spring discharge was from San Marcos Springs in Hays County, Comal Springs in Comal County, San Antonio and San Pedro Springs in Bexar County, and the Leona River Springs in Uvalde County. Most of the discharge for municipal and military use was from wells in Bexar County. More than 38,000 acres was irrigated from wells in Uvalde, Medina, and Bexar Counties in 1963. Most of the remaining well

discharge, (industry, domestic, stock, and miscellaneous) was in Bexar County. Nearly 54 percent of the total discharge from the Edwards and associated limestones during 1963 came from wells, and almost 80 percent of the total discharge from wells was in Bexar County. The well discharge in 1963 was slightly more than in 1962 because of small increases for municipal and irrigation uses. However, springflow in 1963 decreased enough to make the total discharge nearly 73,000 acre-feet less than in 1962.

REFERENCES CITED

Garza, Sergio, 1962, Recharge, discharge, and changes in ground-water storage in the Edwards and associated limestones, San Antonio area, Texas. A progress report on studies, 1955-59: Texas Board Water Engineers Bull. 6201, 42 p.

Garza, Sergio, 1963, Ground-water discharge from the Edwards and associated limestones, 1955-62, San Antonio area, Texas.

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Petitt, B. M. and George, W. O., 1956, Ground-water resources of the San Antonio area, Texas: Texas Board Water Engineers Bull, 5608, v. I, 80 p.

Average discharge, by county and use, from the Edwards and associated limestones in the San Antonio area, 1963, in millions of gallons per day.

 					Domestic	TOTAL	
					Stock &	Million	Thousand
		Municipal			miscel-	gallons	acre-
County	Springs	& military	Irrigation	Industry	laneous	per day	feet'
Kinney	-	-	-	-	0.2	0.2	0.2
Uvalde	8.7	3.8	31.2	-	2.0	45.7	51.2
Medina	-	1.2	6.9	_	0.6	8.7	9.8
Bexar	0.7	124.1	28.9	19.2	21.4	194.3	217.7
Comal	134.2	4.1	-	0.3	0.4	139.0	155.7
Hays	70.3	2.3	0.3	-	0.2	73.1	81.8
Total Million gallons per day	213.9	135.5	67.3	19.5	24.8	461.0	
Total Thousand acre-ft.	239.6	⁻ 151.8	75.4	21.8	27.8		516.4

239.6