

Edwards (BFZ) Aquifer Status Report – May 2023

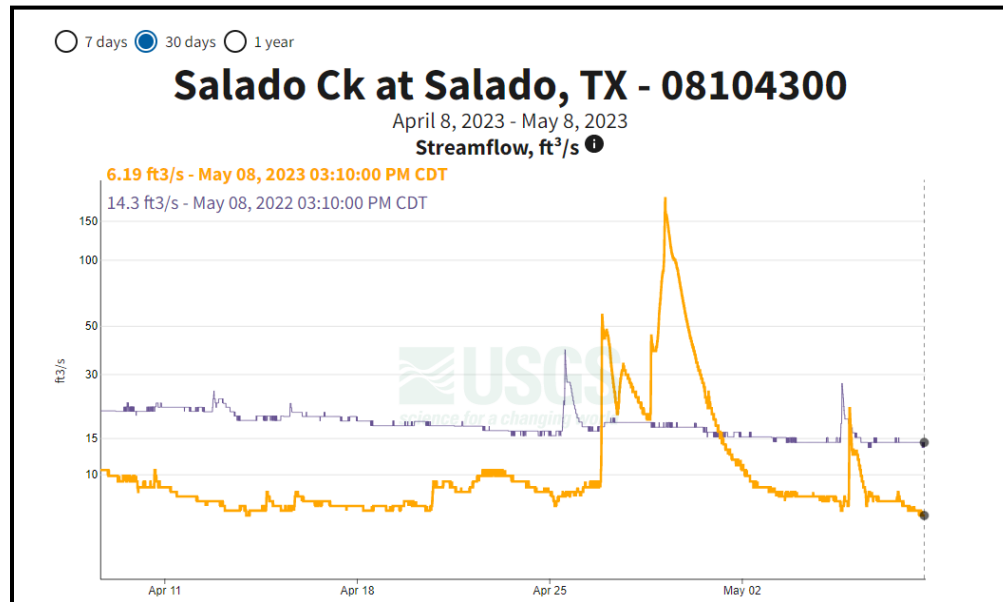
<u>DFC Analysis Over Time</u> (2000-Present) <i>Modeled Available Groundwater</i>			<u>HEUP and OP Permit Analysis</u> <i>Relative to the Modeled Available Groundwater</i>			<u>2023 YTD Prod.</u> <i>Jan - Apr</i> 413.82 Ac-ft 16.83%	<u>Pending Applications</u>		<u>Exempt Well Reservations</u>			
Edwards (BFZ) Aquifer	DFC Adopted * Minimum Spring Flow	Status of DFC ** Current / Low	MAG *** Ac-ft	HEUP Ac-ft	OP Ac-ft	2022 Actual Production	Available for Permitting Ac-ft	Pending Applications Ac-ft	Exempt Well Reservation Ac-ft	Exempt Well Use Estimation Ac-ft	Available Exempt Use Ac-ft	
	100 Ac-ft per month or 1.68 cfs	818.302 Ac-ft 5/8/2023 vs 220 Ac-ft 08/20/2014	6469	2139.20	319.88	2459.08	1995.86 Ac-ft 81.16%	3184.92	500	825	361	464

**Desired Future Conditions (DFC) established by Clearwater UWCD and approved by GMA8 and TWBD, is the description of how the aquifer should look in the future (50 years based on maintaining the Salado Spring Complex discharge during a repeat of drought conditions similar to the drought of record in the 1950's, under drought of record, a five-day average of discharge amounting to 200 ac-ft-month is preferred and 100 ac-ft-/month is the minimum acceptable spring flow. Spring flow is measured and estimated by the USGS Gage in Salado Creek located below the Salado Creek Spring Complex.*

***Status of the DFC is the estimated spring flow over a five-day average from the springs releasing artesian pressure from the Edwards BFZ Aquifer expressed as acre feet per month of spring flow into Salado Creek.*

****The Modeled Available Groundwater (MAG) is the estimated amount of water available for permitting assigned to Clearwater UWCD by the Executive Administrator of TWDB, based on the desired future conditions.*

7KX Investments N2-19-005P (500 ac-ft/yr)



CFS is measured continuously at the downstream gage with USGS developing the rating curve according to industry standards and maintaining the information for public access on the USGS website.

5 - day average for May 3rd – May 8th was 13.752 CFS = 818.302 ac-ft/month

5 - day average for April 5th – April 10th was 11.146 CFS = 663.234 ac-ft/month

Trinity Aquifer Status Report – May 2023

<u>DFC Analysis Over Time</u> (2000-Present) <i>Modeled Available Groundwater</i>			<u>HEUP and OP Permit Analysis</u> <i>Relative to the Modeled Available Groundwater</i>			<u>2023 YTD</u> <u>Total Prod.</u> <i>Jan - Apr</i> 561.35 ac-ft 11.24%		<u>Pending Applications</u>		<u>Exempt Well Reservations</u>		
Trinity Aquifer (by layer)	DFC Adopted * Average Drawdown (by layer)	MAG ** Ac-ft	HEUP Ac-ft (by layer)	OP Ac-ft (by layer)	Total Permitted Ac-ft (by layer)	2022 YTD Prod. (by layer)	2023 YTD Prod. (by layer)	Available for Permitting Ac-ft (by layer)	Pending Applications Ac-ft (by layer)	Exempt Well Reserve Ac-ft (by layer)	2022 Exempt Well Use Estimate Ac-ft (by layer)	Available Exempt Use Ac-ft (by layer)
	Current											
Pawluxy	NA	0	0	0	0	0	0	0	0			0
Glen Rose (upper)	-1.38 ft/yr -83 ft/60 yrs	974	61.9	72.73	134.63	23.79	2.66	146.37	0	693	189	504
Hensell (middle)	-2.28 ft/yr -137 ft/60 yrs	1099	259.3	207.77	467.07	67.06	14.53	73.23	***23.00	548	527	21
Hosston (lower)	-5.50 ft/yr -330 ft/60 yrs	7193	1181.4	3209.21	4390.61	1842.71	544.16	2624.39	0	178	59	119
Total		9266	1502.6	3489.71	4992.31	1933.56 (40.77%)	561.35 (11.24%)	2854.69	23.00	1419	793	626

*Desired Future Conditions (DFC) is the description of how the aquifer should look in the future (60 years).

**The Modeled Available Groundwater (MAG) is the estimated amount of water available for permitting assigned to Clearwater UWCD by the Executive Administrator of TWDB.

***Pending applications

Big Elm RV Resort N2-22-003P (23.00 ac-ft/yr)

Non-exempt Wells--Trinity

File No	State #	Well Name	Acre-Feet			2023 Monthly Production (gallons)												YTD	YTD ac-ft	% Permit
			Hist. Permit	Oper. Permit	Total Permit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
		Armstrong WSC	154.90	333.00	487.90	3,580	70	3,740	2,170									9,560	0.03	0%
N2-02-024G	5805202	Armstrong WSC #1				3,580	70	3,740	2,170									9,560	0.03	0%
N2-10-001P	5805502	Armstrong WSC #2				0	0	0	0									0	0	0%
		Bell Milam Falls WSC	262.20	0	262.20	3,480,500	2,627,300	3,510,800	6,225,800									15,844,400	48.62	19%
N2-02-038G	5806601	Bell-Milam-Falls WSC (Rogers)				577,500	7,300	178,800	2,734,800									3,498,400	10.74	4%
N2-02-046G	5814402	Bell-Milam-Falls WSC (Bartlett)				2,903,000	2,620,000	3,332,000	3,491,000									12,346,000	37.89	14%
		Central Texas WSC	0	1,776.00	1,776.00	8,950,000	11,683,000	12,243,000	10,004,000									42,880,000	131.59	7%
N2-14-004P	5804203	CTWSC Doc Curb				0	0	0	0									0	0	0%
N2-14-005P	5806202	CTWSC System Split Well				8,950,000	11,683,000	12,243,000	10,004,000									42,880,000	131.59	7%
		City of Troy	119.90	350.60	470.50	739,200	817,500	1,131,900	962,900									3,651,500	11.21	2%
N2-02-036G	4054503	City of Troy #1				739,200	817,500	1,131,900	962,900									3,651,500	11.21	2%
N2-15-002P	4054201	City of Troy #2				0	0	0	0									0	0	0%
		East Bell WSC	69.70	114.85	184.55	461,080	547,140	190,820	95,000									1,294,040	3.97	3%
N2-02-034G	4063501	East Bell WSC #1				266,000	418,000	179,000	95,000									958,000	2.94	3%
N2-04-010P	5806301	East Bell WSC #2				195,080	129,140	11,820	0									336,040	1.03	1%
		Leon River Turkey Farms	60.90	0	60.90	15,000	16,400	16,300	15,600									63,300	0.19	0%
N2-02-043G	4053301	Leon River Turkey (East)				6,800	7,100	7,000	6,700									27,600	0.08	0%
N2-02-044G	4053302	Leon River Turkey (West)				1,100	1,300	1,200	1,100									4,700	0.01	0%
N2-02-045G	5805403	Leon River Turkey				7,100	8,000	8,100	7,800									31,000	0.10	0%
		Lhoist	40.00	0	40.00	20,786	22,145	25,374	32,088									100,393	0.31	1%
N2-03-002G	4060101	LHoist #1				20,786	22,145	25,374	32,088									100,393	0.31	1%
N2-03-003G	4060102	LHoist #2																		0%
		Moffat WSC	47.70	157.80	205.50	3,645,000	4,610,000	8,635,000	9,512,000									26,402,000	81.02	39%
N2-02-022G	4053406	Moffat WSC #1				1,135,000	1,168,000	1,282,000	1,453,000									5,038,000	15.46	8%
N2-13-001P	4053507	Moffat WSC #2				2,510,000	3,442,000	7,353,000	8,059,000									21,364,000	65.56	32%
		Pendleton WSC	75.30	36.90	112.20	3,308,100	2,693,800	2,425,900	2,122,600									10,550,400	32.38	29%
N2-02-047G	4054401	Pendleton WSC (#1)				1,688,300	1,318,200	1,877,500	353,600									5,237,600	16.07	14%
N2-02-048G	4054502	Pendleton WSC (#2)				1,619,800	1,375,600	548,400	1,769,000									5,312,800	16.30	15%

Non-exempt Wells--Other

File No	State #	Well Name	Acre-Feet			2023 Monthly Production (gallons)												YTD	YTD ac-ft	% Permit
			Hist. Permit	Oper. Permit	Total Permit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
		Bradley Ware	0	160.00	160.00	1,531,501	1,759,597	1,531,501										4,822,599	14.80	9%
N2-11-001G	5802106	Bradley B. Ware				1,173,065	1,270,820	684,288										3,128,173	9.60	6%
N2-11-002G	5802107	Bradley B. Ware				358,436	488,777	847,213										1,694,426	5.20	3%
		Strasburger Farms	271.80	33.84	305.64	0	0	0	0								0	0	0%	
N2-02-026G		DO NOT USE - Strasburger Farms (#2)																		0%
N2-02-027G	5806801	Strasburger Farms (#4)				0	0	0	0									0	0	0%
N2-02-028G		DO NOT USE-Strasburger Farms (#5)																		0%
N2-02-029G	5806802	Strasburger Farms (#6)				0	0	0	0									0	0	0%
N2-02-030G	5806901	Strasburger Farms (#10)				0	0	0	0									0	0	0%
N2-02-031G	5806902	Strasburger Farms (#11)				0	0	0	0									0	0	0%
N2-02-032G	5806803	Strasburger Farms (#15)				0	0	0	0									0	0	0%
N2-02-033G	5806804	Strasburger Farms (#16)				0	0	0	0									0	0	0%
N2-12-002P	5806805	Strasburger Farms (#5)				0	0	0	0									0	0	0%
N2-18-001P	5806501	Strasburger Farms (#2)				0	0	0	0									0	0	0%
		Not Aggregated																		0%
N1-04-001P	5806701	Stephen Spinn	0	0.56	0.56	15,207	15,207	15,207	15,207									60,828	0.19	33%
N1-11-001P	4060603	Roy Rodriquez	0	0.55	0.55	15,000	15,000	15,000	15,000									60,000	0.18	33%
N1-16-007P	5805903	Wells Fargo Bank	0	0.79	0.79	21,390	21,390	21,390	21,390									85,560	0.26	33%
N1-21-001P	5814101	Kelly Carter	0	0.87	0.87	23,664	23,664	23,664	23,664									94,656	0.29	33%
N2-06-007G	4061903	Misty Creek HOA	0	6.45	6.45	17,050	17,000	17,500	15,500									67,050	0.21	3%
N2-07-013G	5806104	D.R. Dorsey Properties	0	2.47	2.47		17	5	7									29	0.00	0%
N2-07-014P	4061607	Barking Oaks	0	0.62	0.62	5,690		5,760	5,370									16,820	0.05	8%
N2-08-005G	4061511	Lone Star Paving	0	1.07	1.07	63	113											176	0.00	0%
N2-08-007G	4061512	Trio Investments	0	0.18	0.18	100	100	100	100									400	0.00	1%
N2-10-007P	4061715	Goode Towing	0	0.05	0.05	0	0	0	0									0	0	0%
N2-14-001G	5806806	Mikeska	0	100.00	100.00	0	0	0	0									0	0	0%
N2-16-001P	4061410	Strike 3 Bail Bonds	0	0.12	0.12	390	360	270	310									1,330	0.00	3%
Totals:			271.80	307.57	579.37	1,630,055	1,852,448	1,630,397	96,548									5,209,448	15.99	3%