

Groundwater Management Area (GMA) 1
Modeled Available Groundwater for Relevant Aquifers by Groundwater Conservation District (GCD)
2021 Joint Planning

Hemphill County UWCD									
GCD	Aquifer	County	Modeled Available Groundwater (acre-feet per year)						
			2020	2030	2040	2050	2060	2070	2080
Hemphill County UWCD	Ogallala	Hemphill	37,259	45,816	52,208	55,621	58,039	59,257	60,177

Values from [GAM Run 21-007 MAG: Modeled Available Groundwater for the High Plains Aquifer System in Groundwater Management Area 1.](#)

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High Plains UWCD No. 1

GCD	Aquifer	County	Modeled Available Groundwater (acre-feet per year)						
			2020	2030	2040	2050	2060	2070	2080
High Plains UWCD No.1	Dockum	Armstrong	1,853	835	221	221	221	221	221
High Plains UWCD No.1	Dockum	Potter	2,663	2,657	2,406	2,315	2,281	2,248	2,172
High Plains UWCD No.1	Dockum	Randall	6,997	8,736	9,703	8,428	7,698	7,610	7,782
High Plains UWCD No.1	Ogallala	Armstrong	5,679	4,713	3,007	1,877	1,181	968	786
High Plains UWCD No.1	Ogallala	Potter	2,348	2,538	2,362	2,049	1,634	1,075	802
High Plains UWCD No.1	Ogallala	Randall	36,992	34,674	29,709	24,585	20,385	17,088	14,559
High Plains UWCD No. 1 Totals									
	Dockum Aquifer		11,513	12,228	12,330	10,964	10,200	10,079	10,175
	Ogallala Aquifer		45,019	41,925	35,078	28,511	23,200	19,131	16,147

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North Plains GCD									
GCD	Aquifer	County	Modeled Available Groundwater (acre-feet per year)						
			2020	2030	2040	2050	2060	2070	2080
North Plains GCD	Dockum	Dallam	15,969	15,522	14,700	14,019	13,513	12,895	12,415
North Plains GCD	Dockum	Hartley	12,402	11,792	11,051	10,334	9,755	9,234	8,831
North Plains GCD	Dockum	Moore	4,496	5,399	5,409	5,064	4,782	4,474	4,213
North Plains GCD	Dockum	Sherman	445	416	310	288	293	288	291
North Plains GCD	Ogallala	Hansford	297,486	295,700	281,612	264,290	247,744	229,800	211,464
North Plains GCD	Ogallala	Hutchinson	77,920	80,189	77,835	74,461	70,609	67,496	64,083
North Plains GCD	Ogallala	Lipscomb	251,489	270,819	263,478	249,968	235,561	218,975	201,984
North Plains GCD	Ogallala	Moore	140,408	139,745	132,737	121,616	106,134	88,165	73,128
North Plains GCD	Ogallala	Ochiltree	259,676	259,973	247,274	231,502	215,617	199,324	181,295
North Plains GCD	Ogallala	Sherman	290,148	287,657	261,521	226,142	198,338	166,675	145,399
North Plains GCD	Ogallala*	Dallam	319,988	269,575	228,726	194,888	165,787	144,360	128,259
North Plains GCD	Ogallala*	Hartley	355,646	270,230	207,754	169,890	144,564	124,366	108,352
North Plains GCD Totals									
Dockum Aquifer			33,312	33,129	31,470	29,705	28,343	26,891	25,750
Ogallala Aquifer			1,992,761	1,873,888	1,700,937	1,532,757	1,384,354	1,239,161	1,113,964
* The Ogallala Aquifer in Dallam and Hartley counties also include the Rita Blanca Aquifer where they are both spatially coincident.									

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Panhandle GCD									
GCD	Aquifer	County	Modeled Available Groundwater (acre-feet per year)						
			2020	2030	2040	2050	2060	2070	2080
Panhandle GCD	Dockum	Armstrong	5,313	7,102	8,122	8,601	8,849	8,904	8,914
Panhandle GCD	Dockum	Carson	6	6	6	6	6	6	6
Panhandle GCD	Dockum	Potter	30,160	37,699	37,853	36,963	35,881	34,685	33,571
Panhandle GCD	Ogallala	Armstrong	56,940	51,726	45,757	40,241	35,089	30,685	27,137
Panhandle GCD	Ogallala	Carson	163,315	166,024	159,756	149,768	141,251	134,365	121,774
Panhandle GCD	Ogallala	Donley	72,747	78,267	77,157	72,601	67,032	60,915	53,337
Panhandle GCD	Ogallala	Gray	177,633	181,648	173,602	160,382	147,045	133,802	121,936
Panhandle GCD	Ogallala	Hutchinson	8,524	10,589	11,798	11,784	11,427	10,775	9,606
Panhandle GCD	Ogallala	Potter	24,022	22,245	19,590	16,477	13,607	10,990	8,821
Panhandle GCD	Ogallala	Roberts	358,704	409,300	394,930	369,335	344,109	317,529	286,594
Panhandle GCD	Ogallala	Wheeler	119,602	132,615	132,787	128,472	121,852	114,269	106,929
South Plains UWCD Totals									
	Dockum Aquifer		35,479	44,807	45,981	45,570	44,736	43,595	42,491
	Ogallala Aquifer		981,487	1,052,414	1,015,377	949,060	881,412	813,330	736,134

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No District – County									
GCD	Aquifer	County	Modeled Available Groundwater (acre-feet per year)						
			2020	2030	2040	2050	2060	2070	2080
No District-County	Dockum	Hartley	44,260	52,799	53,096	50,432	46,907	42,974	39,311
No District-County	Dockum	Moore	241	560	594	616	643	645	625
No District-County	Dockum	Oldham	144,234	153,787	145,925	135,393	124,861	114,569	105,341
No District-County	Dockum	Randall	19,013	29,231	32,057	31,502	28,550	21,149	17,394
No District-County	Ogallala	Hartley	15,555	16,380	15,634	14,309	12,989	11,646	10,434
No District-County	Ogallala	Hutchinson	33,955	32,967	28,372	24,059	20,978	18,576	17,204
No District-County	Ogallala	Moore	8,703	9,681	9,415	8,245	7,122	6,198	5,517
No District-County	Ogallala	Oldham	40,496	39,067	36,192	31,219	26,044	21,393	18,041
No District-County	Ogallala	Randall	37,728	35,877	30,800	25,725	20,992	17,103	13,488
No District-County Totals									
Dockum Aquifer			207,748	236,377	231,672	217,943	200,961	179,337	162,671
Ogallala and Edwards-Trinity (High Plains) aquifers			136,437	133,972	120,413	103,557	88,125	74,916	64,684
* The Ogallala Aquifer in Dallam and Hartley counties also include the Rita Blanca Aquifer where they are both spatially coincident.									