



Panhandle Groundwater Conservation District

Monthly Operations Report

September 2024 Operations Report

The month of September contained 4 seeding missions over 3 days.

Date	Flares	Counties seeded
5	15 + 1H	Armstrong, Donley, Gray
14	28 + 1H	Carson, Roberts, Wheeler
18	10 + 1H	Gray
TOTAL	53 + 3H	

After a busy August, September started off quietly as post frontal conditions allowed for calm conditions with temperatures in the 80s. However, by the 5th, a cold front moved in, giving way to our first seeding mission of the month. Benign conditions then entered with several days of pleasant weather. After this period, record heat plagued the Panhandle with 100°F + being recorded over much of the area. Amarillo reported a high of 101°F on the 13th and 100°F on the 14th. Fortunately, a storm system brought much needed rainfall over a good portion of the district with two seeding flights being conducted on the 14th. Temperatures managed to cool down a few degrees with the passage of this system with the last seeding mission of the year being flown on the 18th. One last push of triple digit heat then occurred with Amarillo reporting a scorching 100°F on the 19th which set the record for the latest 100-degree day for the city of Amarillo. A drastic change was seen on the 22nd as temperatures remained in the 50s and 60s area wide. Temperatures then rebounded nicely with readings warming into the 80s. The month ended with high pressure moving back in, promoting hot and dry conditions. Temperatures approached recorded territory once again on the 30th with low to mid 90s in many locations.

For the month, 53 glaciogenic flares and 3 hygroscopic flares were used during 10.25 flight hours. Total flight hours for the year added up to 100 with 62 flights being conducted. For the season, 724 glaciogenic flares and 46 hygroscopic flares were used.

Precipitation totals this month were near average for much of the district. Totals at three reporting stations were 0.46 in. (Amarillo), 1.65 in. (Pampa), and 2.97 in. (Clarendon). Year-to-date, most stations are near normal. Temperatures this month were well above average with average high temperatures of +5.4°F in Amarillo.

Looking ahead, October appears to have above normal precipitation and temperatures. Climate models and the Climate Prediction Center continue to suggest below average rainfall and temperatures through December.

Monthly rain gauge measurements from nearest locations inside and out of the target area recorded either by the National Weather Service, Texas Tech University, Mesowest as well as CoCoRaHS.

Reports are issued and owned by the Panhandle Groundwater Conservation District



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Potter County		Wheeler County		Donley County			
Amarillo 15 NNW	2.16	Wheeler 13.3 SSE	3.32	Clarendon 2WSW	2.97		
Amarillo (NWS)	0.46	Armstrong County					
Amarillo 9 NNE	1.97	Claude 12SW	1.22				
Carson County		Goodnight	1.85	Out of Target Area			
Panhandle 1 SSW	2.79	Palo Duro Floor	0.87	Borger 7E (Hutchinson)	1.73		
Pantex 1 ESE	0.81	AREA AVERAGE		Fritch 1 WNW (Moore)	1.53		
Gray County				2.12		Umberger 3 NNE (Randall)	0.94
Pampa 2E	1.65					Vega 4E (Oldham)	2.32
Lake McClellan 2NW	1.63					Tulia 2 ENE (Swisher)	2.01
Mclean 1E	2.10						

Year to Date (Normals of 15.91" from Amarillo to 18.46" in Pampa)

Potter County		Wheeler County		Donley County			
Amarillo 15 NNW	12.06	Wheeler 13.3 SSE	17.91	Clarendon 2WSW	16.81		
Amarillo (NWS)	14.73	Armstrong County					
Amarillo 9 NNE	16.32	Claude 12SW	13.81				
Carson County		Goodnight	16.31	Out of Target Area			
Panhandle 1SSW	16.32	Palo Duro Floor	18.97	Borger 7E (Hutchinson)	12.21		
Pantex 1 ESE	15.61	AREA AVERAGE		Fritch 1 WNW (Moore)	13.66		
Gray County				16.26		Umberger 3 NNE (Randall)	15.19
Pampa 2E	14.53					Vega 4E (Oldham)	15.21
Lake McClellan 2NW	16.95					Tulia 2 ENE (Swisher)	14.66
Mclean 1E	16.96						