



# Panhandle Groundwater Conservation District

## Monthly Operations Report

### May 2024 Operations Report

The month of May contained 1 seeding mission.

<b>Date</b>	<b>Flares</b>	<b>Counties seeded</b>
<b>1</b>	<b>6 + 1H</b>	Armstrong
<b>TOTAL</b>	<b>6 + 1H</b>	

The month of May started off very warm with a high temperature of 90°F reported at AMA. A cold front also moved through with convection along it. This allowed for the first flight of the season and the only flight for the month. Unfortunately, severe thunderstorm warnings were quickly issued. Therefore, high dose seeding was decided upon over southeast Armstrong County before the allotted twenty-minute threshold expired. Shortly after, the pilot reported that the seeded base started to fill in with rain. Relatively quiet conditions then persisted for the next ten days before a recon flight was flown on the 11<sup>th</sup>. During the flight, the pilot reported stratiform activity, likely due to the cool temperatures. On this day, AMA recorded the coolest high of the month with a temperature of 65°F. Highs remained in the 60s the following day with another recon mission being flown. Two more recon missions took place on the 14<sup>th</sup> and 15<sup>th</sup> as additional systems moved through. However, high bases (15 kft) on the 14<sup>th</sup> and severe warnings on the 15<sup>th</sup> prevented seeding. The rest of the month was defined by a series of disturbances, but a combination of strong winds, after sunset activity, and severe storms prohibited flights. Temperatures also warmed to above average with the highest readings occurring on the 20<sup>th</sup>, 23<sup>rd</sup>, and 25<sup>th</sup>. Highs on each of these days peaked at 97°F.

For the month, 6 glaciogenic flares and 1 hygroscopic flare were used during 10.13 flight hours. For the year, 8 total flights covering 11.96 hours have been conducted.

Precipitation totals this month were near to below average for most of the district. Totals at three reporting stations were 1.65 in. (Amarillo), 1.00 in. (Pampa), and 2.56 in. (Clarendon). Year-to-date, all stations are near normal. Temperatures this month were above average with average high temperatures of +2.4°F in Amarillo.

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



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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.

***May 2024 (Normals of 2.27" from Amarillo to 2.84" in Pampa)***

Potter County		Wheeler County		Donley County	
Amarillo 15 NNW	1.20	Wheeler 13.3 SSE	1.95	Clarendon 2WSW	2.56
Amarillo (NWS)	1.65	Armstrong County			
Amarillo 9 NNE	2.60	Claude 12SW	1.46		
Carson County		Goodnight	1.63	Out of Target Area	
Panhandle 1 SSW	1.10	Palo Duro 4E	2.12	Borger 7E (Hutchinson)	1.81
Pantex 1 ESE	1.32	<b>AREA AVERAGE 1.84</b>		Fritch 1 WNW (Moore)	1.57
Gray County				Umberger 3 NNE (Randall)	2.23
Pampa 2E	1.00			Vega 4E (Oldham)	1.27
Lake McClellan 2NW	1.73			Tulia 2 ENE (Swisher)	1.91
Mclean 1E	2.55				

***Year to Date (Normals of 6.23" from Amarillo to 7.93" in Pampa)***

Potter County		Wheeler County		Donley County	
Amarillo 15 NNW	4.32	Wheeler 13.3 SSE	7.56	Clarendon 2WSW	6.70
Amarillo (NWS)	5.64	Armstrong County			
Amarillo 9 NNE	6.14	Claude 12SW	7.48		
Carson County		Goodnight	6.65	Out of Target Area	
Panhandle 1SSW	5.28	Palo Duro 4E	8.38	Borger 7E (Hutchinson)	4.14
Pantex 1 ESE	6.15	<b>AREA AVERAGE 6.49</b>		Fritch 1 WNW (Moore)	4.57
Gray County				Umberger 3 NNE (Randall)	6.28
Pampa 2E	4.18			Vega 4E (Oldham)	4.05
Lake McClellan 2NW	5.74			Tulia 2 ENE (Swisher)	6.56
Mclean 1E	8.27				