



Panhandle Groundwater Conservation District

Monthly Operations Report

May 2021 Operations Report

The month of May contained 5 days of operations.

Date	Flares	Counties seeded
7	22	Hutchinson, Carson, Roberts
16	6+1H	Potter
17	12+1H	Roberts
19	24+1H	Roberts, Donley
25	8+2H	Potter
TOTAL	72+5H	

May 2021 was also a rather wet month with many locations seeing well above normal rainfall. Amarillo saw over 6.5 inches of rainfall which is nearly 4.5 inches above average for the month. A total of 11 missions were flown (6 recon and 5 operational). Several storm systems affected the area with almost daily opportunities for rain. The first operation occurred on the 7th when a shortwave moved through the area. This allowed for storms to develop in Hutchinson and Potter Counties. As storms moved east, seeding took place in Roberts, Carson, and Hutchinson Counties. Another shortwave and associated dry line then impacted the area on May 16th where seeding took place in Potter County. Active weather continued into the next day on the 17th when another shortwave and dry line approached the area. Storms developed in Roberts County during the afternoon and were seeded in this area. After we were unable to seed storms on the 18th due to severe warnings, we were able to get another operation in on the 19th. Storms initiated in Roberts and Donley Counties and were successfully seeded. The last operation took place on the 25th as a cold front and dry line moved through the region. We would have had more operations, but severe warnings kept the pilots grounded on a few days. For the month, 72 glaciogenic flares and 5 hygroscopic flares were used during 14.8 flight hours. Year-to-date, 72 glaciogenic flares and 5 hygroscopic flares have been used. So far, 12 total flights covering 15.2 hours have been conducted.

Precipitation totals this month was much above average. Totals at three reporting stations were 6.67" (Amarillo), 5.25" (Pampa) and 4.80" (Clarendon). Year-to-date, all stations are above normal. Temperatures this month were very cool with average temperatures of -4.3°F in Amarillo.

Looking ahead, June looks to be wet with near normal temperatures. Climate models and the Climate Prediction Center continue to suggest above average rainfall and near normal to slightly below average temperatures through June and then warming into July and August. Drier weather also looks possible as we head into July and August. La Niña has now transitioned into a neutral phase which could bring some added moisture early on in June before we start to dry out a bit.



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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 2021 (Normal's of 2.27" from Amarillo to 2.77" in Pampa)

Potter County		Wheeler County		Donley County	
Amarillo 15 NNW	4.71	Wheeler 13.3 SSE	5.69	Clarendon 2WSW	4.80
Amarillo (NWS)	6.67	Armstrong County			
Amarillo 5.9 WSW	3.72	Claude 12SW	6.17		
Carson County		Goodnight	4.75	Out of Target Area	
Panhandle 1SSW	5.33	Palo Duro 4E	3.66	Borger (Hutchinson)	3.74
Gray County				Fritch (Moore)	4.24
Pampa 2E	5.25			Umbarger (Randall)	3.30
Lake McClellan 2NW	7.08	AREA AVERAGE		Vega (Oldham)	3.40
Mclean 1E	7.44	5.44		Tulia (Swisher)	3.88

Year to Date (Normal's of 6.34" from Amarillo to 7.18" in Pampa)

Potter County		Wheeler County		Donley County	
Amarillo 15 NNW	6.51	Wheeler 13.3 SSE	9.13	Clarendon 2WSW	8.90
Amarillo (NWS)	8.98	Armstrong County			
Amarillo 5.9 WSW	8.00	Claude 12SW	10.11		
Carson County		Goodnight	8.14	Out of Target Area	
Panhandle 1SSW	10.08	Palo Duro 4E	8.15	Borger (Hutchinson)	5.84
Gray County				Fritch (Moore)	7.25
Pampa 2E	8.72			Umbarger (Randall)	5.50
Lake McClellan 2NW	10.39	AREA AVERAGE		Vega (Oldham)	5.03
Mclean 1E	10.26	8.95		Tulia (Swisher)	5.13