



Panhandle Groundwater Conservation District

Monthly Operations Report

June 2021 Operations Report

The month of June contained 1 day of operations.

Date	Flares	Counties seeded
25	3+1H	Armstrong
TOTAL	3+1H	

After a very wet May, June started off much drier and cool. With the exception of June 2nd and 13th, many areas received very little rainfall during the first half of the month. Record heat accompanied the dry period for the middle of the month with record highs in the triple digits. This was in response to an upper-level ridge that built into the region. Due to the ridge, precipitation was mostly suppressed during this time. The ridge finally flattened toward the end of the month which allowed moisture and cool temperatures to return to the Panhandle. The last week of June became quite active. Most areas ended the month, once again, with above average rainfall. Potter County was the only county which saw below average precipitation. Amarillo received 0.94 inches which is far from the 6.67 inches that was seen in May. On the other hand, Palo Duro, in eastern Armstrong County, saw 5.81 inches which is well above the 3.66 amount received in May.

On June 24th, a dry line moved through with an associated shortwave and one of the pilots was launched. Due to the high ground temperatures, bases were too high, so no operations were conducted. The next day, June 25th, a cold front pushed through the area. This was the only operation for the month. Storms quickly initiated within the district and operations were conducted near the city of Groom. Unfortunately, operations were called early due to several gust fronts within the area. This active pattern continued and on June 27th, another mission took place, although no seeding was conducted. This was due to a strong outflow boundary coming off the cells and was deemed too dangerous. For the month, 3 glaciogenic flares and 1 hygroscopic flare were used during 3.35 flight hours. Year-to-date, 75 glaciogenic flares and 6 hygroscopic flares have been used. So far, 16 total flights covering 18.57 flight hours have been conducted.

Precipitation totals this month were near to above average for the whole district, except for portions of Potter County. Totals at three reporting stations were 0.94" (Amarillo), 2.76" (Pampa) and 3.52" (Clarendon). Year-to-date, all stations are near to above normal. Temperatures this month were cool with the average of -1.5°F in Amarillo.

Looking ahead, July seems to be cool with below normal temperatures. Climate models and the Climate Prediction Center continue to suggest above average rainfall and cooler than average temperatures through July and then warming into August and September. Precipitation also appears to be near normal as we head into 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.

June 2021 (Normal's of 2.85" from Amarillo to 2.66" in Pampa)

Potter County		Wheeler County		Donley County	
Amarillo 15 NNW	1.54	Wheeler 13.3 SSE	3.46	Clarendon 2WSW	3.52
Amarillo (NWS)	0.94	Armstrong County			
Amarillo 5.9 WSW	1.06	Claude 12SW	2.09		
Carson County		Goodnight	4.34	Out of Target Area	
Panhandle 1SSW	3.43	Palo Duro 4E	5.81	Borger (Hutchinson)	2.66
Gray County				Fritch (Moore)	2.38
Pampa 2E	2.76			Umbarger (Randall)	1.41
Lake McClellan 2NW	3.29	AREA AVERAGE		Vega (Oldham)	2.09
Mclean 1E	4.69	3.08		Tulia (Swisher)	3.58

Year to Date (Normal's of 9.08" from Amarillo to 9.84" in Pampa)

Potter County		Wheeler County		Donley County	
Amarillo 15 NNW	8.05	Wheeler 13.3 SSE	12.59	Clarendon 2WSW	12.42
Amarillo (NWS)	9.92	Armstrong County			
Amarillo 5.9 WSW	9.06	Claude 12SW	12.20		
Carson County		Goodnight	12.48	Out of Target Area	
Panhandle 1SSW	13.51	Palo Duro 4E	13.96	Borger (Hutchinson)	8.55
Gray County				Fritch (Moore)	9.63
Pampa 2E	11.48			Umbarger (Randall)	6.91
Lake McClellan 2NW	13.68	AREA AVERAGE		Vega (Oldham)	7.12
Mclean 1E	14.86	12.02		Tulia (Swisher)	8.71