



# Panhandle Groundwater Conservation District

## Monthly Operations Report

### August 2025 Operations Report

The month of August contained 8 seeding missions over 7 days.

| Date         | Flares           | Counties seeded            |
|--------------|------------------|----------------------------|
| 10           | 12 + 1H          | Armstrong                  |
| 11           | 20 + 2H          | Carson, Roberts            |
| 12           | 2 + 1H           | Donley                     |
| 17           | 34 + 2H          | Armstrong, Donley, Roberts |
| 18           | 18 + 2H          | Gray, White                |
| 19           | 2                | Donley                     |
| 24           | 14 + 1H          | Gray                       |
| <b>TOTAL</b> | <b>102 + 10H</b> |                            |

The beginning of August started off with an overnight system on the 2<sup>nd</sup> before high pressure dominated, bringing four consecutive days of 100°F plus temperatures from the 6<sup>th</sup>-9<sup>th</sup>. Along with the heat came a cold front which moved through on the 10<sup>th</sup>. This allowed seeding to take place on the 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> with high temperatures cooling into the 80s. Upper-level ridging then reestablished itself near the Panhandle with calm conditions for a few days. By the 17<sup>th</sup>, the monsoonal high formed over the Southwest. This brought an increase in moisture and better flow for shortwaves to progress through. With optimal conditions, seeding occurred during the period of 17<sup>th</sup>-19<sup>th</sup>. The next few days were dry until the 24<sup>th</sup> when the last seeding mission of the month was conducted. After this, a potent system came through on the 30<sup>th</sup>, but widespread flood watches prompted suspension of operations.

For the month, 102 glaciogenic flares and 10 hygroscopic flares were used during 16.89 flight hours. So far, 35 total flights (25 seeding) covering 55.59 hours have been conducted with 367 glaciogenic flares and 30 hygroscopic flares.

Most locations saw below average precipitation totals for the month, except for portions of northern Potter and southern Gray Counties. Totals at three reporting stations were 1.95 in. (Amarillo), 2.06 in. (Pampa), and 0.63 in. (Clarendon). Year-to-date, all stations are near to above average. Temperatures this month were near normal with average high temperatures of - 0.2°F in Amarillo.

Looking ahead, September appears to produce above average precipitation and temperatures. Climate models and the Climate Prediction Center continue to suggest below average precipitation with above average temperatures through November.



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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.

### August 2025 (Normals of 2.86" from Amarillo to 3.09" in Pampa)

| Potter County      |      | Wheeler County           |      | Donley County               |      |
|--------------------|------|--------------------------|------|-----------------------------|------|
| Amarillo 15 NNW    | 1.83 | Wheeler 13.3 SSE         | 2.69 | Clarendon 2WSW              | 0.63 |
| Amarillo (NWS)     | 1.95 | Armstrong County         |      |                             |      |
| Amarillo 9 NNE     | 3.85 | Claude 12SW              | 1.39 |                             |      |
| Carson County      |      | Goodnight                | 2.24 | Out of Target Area          |      |
| Panhandle 1 SSW    | 5.18 | Palo Duro Floor          | 1.65 | Borger 7E<br>(Hutchinson)   | 3.39 |
| Pantex 1 ESE       | 2.17 | AREA AVERAGE<br><br>2.35 |      | Fritch 1 WNW<br>(Moore)     | 2.27 |
| Gray County        |      |                          |      | Umbarger 3 NNE<br>(Randall) | 1.04 |
| Pampa 2E           | 2.06 |                          |      | Vega 4E (Oldham)            | 2.51 |
| Lake McClellan 2NW | 3.15 |                          |      | Tulia 2 ENE<br>(Swisher)    | 1.21 |
| Mclean 1E          | 3.19 |                          |      |                             |      |

### Year to Date (Normals of 14.22" from Amarillo to 16.71" in Pampa)

| Potter County      |       | Wheeler County            |       | Donley County               |       |
|--------------------|-------|---------------------------|-------|-----------------------------|-------|
| Amarillo 15 NNW    | 18.74 | Wheeler 13.3 SSE          | 14.79 | Clarendon 2WSW              | 15.32 |
| Amarillo (NWS)     | 18.80 | Armstrong County          |       |                             |       |
| Amarillo 9 NNE     | 19.97 | Claude 12SW               | 14.94 |                             |       |
| Carson County      |       | Goodnight                 | 18.54 | Out of Target Area          |       |
| Panhandle 1SSW     | 27.15 | Palo Duro Floor           | 20.27 | Borger 7E<br>(Hutchinson)   | 23.29 |
| Pantex 1 ESE       | 18.07 | AREA AVERAGE<br><br>17.87 |       | Fritch 1 WNW<br>(Moore)     | 19.03 |
| Gray County        |       |                           |       | Umbarger 3 NNE<br>(Randall) | 22.81 |
| Pampa 2E           | 16.34 |                           |       | Vega 4E (Oldham)            | 20.14 |
| Lake McClellan 2NW | 18.18 |                           |       | Tulia 2 ENE<br>(Swisher)    | 18.16 |
| Mclean 1E          | 17.74 |                           |       |                             |       |