

**Panhandle Groundwater Conservation District**

**SEEDING REPORT - May 26, 2025**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Another damp, dreary day is in store for the Panhandle. Currently, a line of showers and storms is moving into Potter County with additional showers developing in the central part of the district. Scattered showers will continue off and on throughout the afternoon with another wave of precipitation moving through this evening. Some of this activity may become strong to severe with large hail being the main threat. As far as seeding potential, seeding does not appear likely as ceilings are already low at 700 ft. TAFs do not show much improvement with ceilings only rising to 2,500 ft by the evening.

**LIFTING MECHANISM:**

Shortwave

**THERMODYNAMIC INDICES (12Z NAM valid at 21Z KAMA)**

Freezing Level (m,MSL)	4054	LCL (m,MSL)	2256
-5°C Height (m,MSL)	4602	CCL (m,MSL)	2256
-10°C Height (m,MSL)	5212	ML CAPE (J/kg)	1691
Cloud Base (m,MSL)	1539	SB CAPE (J/kg)	2015
Warm Cloud Depth (m)	2515	CINH (J/kg)	0
Cloud Base Temp (°C)	15	LI (°C)	-7
Precipitable Water (in)	0.90	Shear 0-6 km	37

**Seeding Operations:**

N5359P was put on standby at 2204Z as activity started developing in Carson County. The plane was then airborne at 2244Z from TDW en route to the White Deer area. Right around takeoff, a severe thunderstorm warning was issued for the targeted cell. However, the cell started developing outside of the warning to the southwest, so the pilot was directed to that area. At 2259Z, seeding commenced with two AgI bips. Four more AgI bips and one hygro were used over the next 5 minutes before bases started to drop below 4 kft MSL. This was too low for operations, so the pilot switched to recon mode. Another quickly growing cell was investigated at 2335Z near Clarendon, but bases were reported to be only a few hundred feet above ground level. Due to continuous warnings and low bases, the aircraft RTB at 0011Z and landed at 0020Z.

**WATCHES/WARNINGS:**

Severe Thunderstorm Warning- Carson, Gray, Roberts.  
Tornado Warning- Carson, Gray, Armstrong, Donley.

**SEEDED CELL IDS:**

1490/1576	1490/1589	1490/1602	1490/1616	1490/1688	1490/1731
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
2244	N5359P	IN AIR	
2259	N5359P	52° @ 24 nm	Carson
2300	N5359P	52° @ 27 nm	Carson
2301	N5359P	52° @ 25 nm	Carson
2304	N5359P	54° @ 27 nm	Carson
0011	N5359P	RTB	