

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - June 3, 2018

SYNOPTIC/MESOSCALE CONDITIONS:

A weak cold front that triggered convection yesterday remains stalled out near I-10 this morning. Behind this boundary, breezy northerly surface winds will help keep temperatures below triple digits for the first time in a week. However, areas along and south of the cold front may still have to deal with triple digit heat. However, these areas will be the ones who may see relief in the form of showers and storms this afternoon as peak heating destabilizes that atmosphere. We could see convection fire up at 21Z along and south of a line from Junction to Sonora to Ozona.

LIFTING MECHANISM:

Cold Front

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4848	-15°C Height (m)	7500
Precipitable Water (inches)	1.12	CAPE (J/Kg)	48
LCL	2268	CINH (J/Kg)	705
CCL	4169	LI(°C)	-0.5
MAF ICA	-2.4	PB	0
Cloud Base (meters)	2194	DRT ICA	-0.8
Warm Cloud Depth (meters)	2753	Cloud Base Temp (°C)	25

DISCUSSION:

The cold front remains stalled out just south of I-10 as of 19Z. This boundary is expected to make little to no movement throughout the afternoon, so at peak heating storms should fire up. By 20Z, a few weak showers were trying to organize themselves in southern Sutton County but were struggling to do so. Pilot was still called airborne to investigate and should be up around 2030Z. Minor aircraft issues led us to a later start then hoped as we didn't get launched until 21Z. Most of the convection remained marginal, but we will be late on the main target it appears. Storms continued to develop along and south of I-10 in Sutton and Crockett Counties. Pilot arrive to storm as a severe warning was issued, but we found inflow immediately and began seeding from 2130Z through 22Z. At this point, we wanted to see what was further south where the storm extending towards Edwards County. This area was filled in with virga and unorganized bases. We stayed on the north end, but the edges of this cell were becoming heavily embedded. We will now target a few isolated cells that are extending west off the main cluster of storms into Crockett County. These cells lacked any growth and were not seedable due to the short length of development and unorganized bases. We were also having minor radio issues. We'll check one more isolated cell near Eldorado before we reevaluate what is going on with the radio and the weather conditions as seedable convection was becoming lesser. The potential in Schleicher County never developed. The anvil blow off from the storms to the south is substantial and is blocking any additional heating across all of Schleicher, Sutton and the eastern half of Crockett Counties. With radio issues not allowing us much further west and seedable convection not present, we'll RTB at 2230Z.

WATCHES/WARNINGS:

T-STORM WARNING - SUTTON/CROCKETT

SEEDED CELL ID'S:

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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2100	49P	IN AIR	

2133	49P	183° @ 49 nm	SUTTON
2135	49P	185° @ 50 nm	SUTTON
2138	49P	190° @ 51 nm	SUTTON
2140	49P	188° @ 50 nm	SUTTON
2141	49P	187° @ 50 nm	SUTTON
2143	49P	187° @ 49 nm	SUTTON
2145	49P	190° @ 50 nm	SUTTON
2230	49P	RTB	

Seeding operations were conducted over Sutton (14+1H) County. 14 flares plus 1 hygroscopic flare were burned within 1 cloud. This is the 2nd day for seeding in June and the 6th day for seeding during the season.