

TRANS-PECOS WEATHER MODIFICATION ASSOCIATION - PECOS/BARSTOW, TEXAS

SEEDING REPORT - June 23, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

A cold front is on its way through the Texas Panhandle this morning. This boundary will cause havoc across much of the state for the duration of the weekend. Ahead of this boundary is a moist atmosphere which will quickly warm up due to a potent H85 thermal ridge. Temperatures will soar into the 106-111°F range across both target areas. Additionally, a dryline has redeveloped over Far West Texas. Where the dryline intercepts with the cold front (triple point) could be problematic later today as strong instability takes over the region. The expectation is that storms initiate around I-20 by 3PM and making in into the both target areas by 6PM. We could see some strong to severe storms along what will likely be a squall line. However, at the triple point of the dryline/cold front, we could see a few rotating super cells. Likely rain chances will be added for both target areas with strong possibility of operations.

LIFTING MECHANISM:

Sufficient Surface Heating, Cold Front

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	5126	CAPE (J/Kg)	599
Precipitable Water (inches)	1.26	CINH (J/Kg)	445
LCL	2546	LI(°C)	-2.6
CCL	4347	PB	3
MAF ICA	4.76	DRT ICA	-4.40
Cloud Base (meters)	4267	Cloud Base Temp (°C)	4.8
Warm Cloud Depth (meters)	858		

DISCUSSION:

KMAF RADAR IS DOWN YET AGAIN. HOWEVER, SAT IMAGERY AND PILOT OBSERVATION WILL DO GOOD FOR NOW. STORMS OFF TO THE NE IN THE PERMIAN BASIN ARE SEVERE, BUT ADDITIONAL STORMS MOVING INTO LOVING COUNTY ARE NOT. WE'LL HEAD UP THERE AND CHECK OUT CLOUD BASES FOR POTENTIAL SEEDING. DEW POINT DEPRESSIONS ARE 60°+, BUT OVER AT THE WTWMA TARGET AREA BASES ARE OBSERVED AT 12KFT, SO WE MAY HAVE SOMETHING TO WORK HERE. PILOT WILL LAUNCH AT 2245Z AND HEAD NORTH. WARNINGS HAVE EXTENDED INTO WINK COUNTY, BUT THE DEVELOPMENT IN LOVING COUNTY IS NOT WARNED. WE'LL CONTINUE AS PLANNED AS OF 23Z. PILOT BEGAN SEEDING IN LOVING COUNTY ALONG A LINE OF STORMS THAT DEVELOPED FROM NW MENTONE TO PECOS. WE'LL STAY ALONG THIS LINE THROUGH THE NEXT HOUR UNLESS ANY ADDITIONAL CELLS POP UP FURTHER SOUTH. STORMS CONTINUED TO BE SEEDED NEAR PECOS THROUGH 23Z. OVERALL, CELLS WERE MARGINAL AND THE BEST STUFF WAS IN WARD COUNTY BUT WAS WARNED. WE'LL CONTINUE TO FOCUS ON THE CELLS FROM PECOS TO MENTONE. HOWEVER, THE WARNING WAS EXPECTED AT 2348Z TO INCLUDE PARTS OF REEVES COUNTY. WE'LL PUSH OFF TO THE WEST TOWARDS TOYAH AND WORK UN-WARNED CONVECTION OUT THERE. MAF RADAR, AGAIN, WAS IN AND OUT THROUGHOUT MUCH OF THE FLIGHT.

WATCHES/WARNINGS:

T-STORM WARNING - WARD
T-STORM WARNING - REEVES

SEEDED CELL ID'S:

941	981						
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2245	26P	IN AIR	
2311	26P	327° @ 27 nm	LOVING
2312	26P	327° @ 27 nm	LOVING
2313	26P	329° @ 26 nm	LOVING

2314	26P	327° @ 30 nm	LOVING
2317	26P	330° @ 20 nm	REEVES
2322	26P	334° @ 11 nm	REEVES
2325	26P	336° @ 12 nm	REEVES
2325	26P	336° @ 12 nm	REEVES
2330	26P	340° @ 10 nm	REEVES
2338	26P	313° @ 08 nm	REEVES
2339	26P	313° @ 08 nm	REEVES
2342	26P	050° @ 07 nm	REEVES
2346	26P	049° @ 07 nm	REEVES
2347	26P	049° @ 07 nm	REEVES
0010	26P	RTB	

Seeding operations were conducted over Loving (8) and Reeves (20) Counties. 28 flares were burned within 2 clouds. This is the 6th day for seeding in June and the 7th day for seeding during the season.