

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

SEEDING REPORT - June 12, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Dryline placement will be a deciding factor for convection this afternoon. Regardless, showers and storms are expected to fire up across the Permian Basin where upper dynamics will be most favorable. Also, cannot rule out convection over the higher terrain areas of the Jeff Davis County where easterly winds will be predominant. If these storms get going, there is a good chance the winds aloft will push them north and east into the adjacent plains.

LIFTING MECHANISM:

Topographic Lift, Dryline

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4812	CAPE (J/Kg)	643
Precipitable Water (inches)	1.12	CINH (J/Kg)	496
LCL	1640	LI(°C)	-2.9
CCL	3689	PB	3
MAF ICA	1.76	DRT ICA	-
Cloud Base (meters)	3651	Cloud Base Temp (°C)	7
Warm Cloud Depth (meters)	1160		

DISCUSSION:

MAF RADAR DOWN, SO WE'LL OPERATE BLIND TODAY. BY 19Z, STORMS WERE FIRING OVER THE DAVIS MOUNTAINS AND WERE BEGINNING TO DRIFT TOWARDS SE CORNER OF REEVES COUNTY. THIS WILL BE THE AREA OF INTEREST FOR THE NEXT HOUR. DESPITE RADAR BEING DOWN, LIGHTNING DATA WAS SUGGESTING THAT THE STORMS WERE BEGINNING TO MOVE INTO THE OPERATIONAL AREA BY 1945Z. ADDITIONALLY, SAT IMAGERY WAS LOOKING VERY FAVORABLE. WE'LL LAUNCH AND SEE WHAT'S GOING ON DOWN THERE, BUT A BIG FACTOR IS GOING TO BE DEW POINTS. RIGHT NOW, 100/40 IN PECOS, 101/60 IN FORT STOCKTON. WHAT PART OF THE AIRMASS THESE STORMS ON WILL PROVE TO BE VITAL. STORMS WERE BASED WITHIN WORKING ORDER, SO PILOT QUICKLY GOT FLARES GOING AS THE STORM WAS PRODUCING VERY GOOD INFLOW. STORM WAS SEEDED EFFICIENTLY THROUGH 2030Z BEFORE WE DECIDED TO HEAD WEST TO CHECK OUT MORE DEVELOPMENT NEAR TOYAH. THESE WERE BASED VERY HIGH, THEREFORE WE DECIDED TO LET THOSE GET THEIRSELVES TOGETHER AND HEAD BACK TOWARDS THE INITIAL STORM. UPON CONTACT WITH THE STORM, ONCE AGAIN, THE NWS PUT OUT A WARNING FOR IT SO WE HAD TO PULL OFF. WE'LL GIVE THE CELLS NEAR TOYAH A SHOT ONCE AGAIN. REMINDER, MAF RADAR IS DOWN. OPERATIONS ARE BEING RUN VIA SAT IMAGERY AND PILOT OBSERVATION. DEW POINT DEPRESSIONS ARE ON THE RISE AS OF 21Z. 104/43 IN PECOS. WE WORKED ANOTHER CELL JUST S OF PECOS FROM 2100-2110Z BUT BASES WERE PRETTY HIGH. PILOT OBSERVED STORM GETTING CLOSE TO THE WARNED CELL, SO WE BACKED OFF AND MOVED FURTHER WEST WHERE ADDITIONAL DEVELOPMENT WAS ONGOING, LIKELY HIGH BASED. WE SEEDED A FEW MORE STORMS BUT NEAR 13KFT. AT THIS POINT, MUCH OF THE CONVECTION BEHIND THE LARGER WARNED STORM WAS GETTING ENGULFED BY THE STORM. ADDITIONALLY, SMALLER CELLS WERE SIMPLY TOO HIGH TO SEED. THEREFORE WE RTB'D AT 2130Z.

WATCHES/WARNINGS:

T-STORM WARNING - PECOS/REEVES

SEEDED CELL ID'S:

UNAMED1	UNAMED2	UNNAMED3						
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
2000	26P	IN AIR	
2014	26P	167° @ 20 nm	REEVES
2017	26P	159° @ 21 nm	REEVES

2019	26P	160° @ 22 nm	REEVES
2021	26P	155° @ 19 nm	REEVES
2023	26P	171° @ 16 nm	REEVES
2025	26P	174° @ 15 nm	REEVES
2029	26P	173° @ 13 nm	REEVES
2030	26P	174° @ 13 nm	REEVES
2032	26P	135° @ 13 nm	REEVES
2034	26P	135° @ 13 nm	REEVES
2103	26P	175° @ 15 nm	REEVES
2105	26P	170° @ 15 nm	REEVES
2108	26P	170° @ 16 nm	REEVES
2111	26P	195° @ 15 nm	REEVES
2118	26P	210° @ 10 nm	REEVES
2119	26P	210° @ 11 nm	REEVES
2130	26P	RTB	

Seeding operations were conducted over Reeves (32) County. 32 flares were burned within 3 clouds. This is the 3rd day for seeding in June and the 4th day for seeding during the season.