

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

**SEEDING REPORT - June 02, 2017**

**SYNOPTIC/MESOSCALE CONDITIONS:**

Strong ascent aloft later this afternoon should interact with sufficient surface moisture to allow more storms over the higher terrain. Once these storms become vertical enough, southwesterly flow aloft should steer these storms over the adjacent plains later this afternoon. Good instability should be present to keep storms together long enough to warrant seeding operations. HRRR model seems to be on the same page as this thinking while also developing a large rain making system which will progress east through the evening hours. We may have a small window to seed before storms become heavily embedded, so aggressive action will be taken once storms move over the plains.

**LIFTING MECHANISM:**

Topographic Lift, Sufficient Surface Heating

**THERMODYNAMIC INDICES (12Z KMAF)**

Freezing Level (m)	4167	CAPE (J/Kg)	1202
Precipitable Water (inches)	1.28	CINH (J/Kg)	11
LCL	996	LI(°C)	-4.7
CCL	1775	PB	5
MAF ICA	1.2	DRT ICA	-
Cloud Base (meters)	3418	Cloud Base Temp (°C)	3
Warm Cloud Depth (meters)	749		

**DISCUSSION:**

STORMS OVER THE HIGHER TERRAIN AREAS OF THE DAVIS MOUNTAINS WERE ONGOING FOR THE MAJORITY OF THE AFTERNOON. HOWEVER, BY 2050Z, ONE CELL WAS PROGRESSING FURTHER NORTH AND EAST AND BEGAN TO ENTER THE TARGET AREA. ADDITIONALLY, RADAR WAS SUGGESTING SOME STORMS FIRING JUST AHEAD OF THIS SYSTEM. PILOT WAS CALLED AIRBORNE AT THIS TIME TO CHECK OUT THE STORM BEFORE IT BECOMES WARNED LIKE YESTERDAY. PILOT APPROACHED STORM AND BEGAN SEEDING IN WESTERN PECOS COUNTY. THIS STORM WAS SEEDED EFFICIENTLY THROUGH 2130Z AND CONTINUED INTO THE SECOND HALF OF THE HOUSE. STORM HAS CALMED DOWN A BIT, BUT HAS GROWN IN AREA SPREAD FURTHER NORTH ACROSS PECOS COUNTY. WE'LL STAY ON THIS STORM UNTIL WE SEE NEGATIVE TREND IN CLOUD PARAMETERS. CLOUD #3931 WAS SEEDED THROUGH THE 21Z HOUR, HOWEVER BASES BEGAN TO LIFT ON US AND TEMPS GOT PRETTY COOL. ADDITIONALLY, CLOUD PARAMETERS ON TITAN WERE SHOWING THE CLOUD ON THE END OF ITS LIFE CYCLE. WE PULLED OFF OF THIS CLOUD AND WILL HEAD BACK TO THE WEST TO SEE IF ANYTHING ELSE WAS MOVING OFF OF THE MOUNTAINS NEAR BALMORHEA. THIS DIDN'T DEVELOP BUT THE LAST STORM WE SEEDED DID POP UP ANOTHER STORM TO THE NORTH. WE HEADED BACK THERE AND SEEDED THIS CELL BEFORE IT BEGAN TO RAIN OUT. WITH THAT SAID, BACK TO THE WEST TO THE SW OF PECOS NEAR I-20, A NEW CELL WAS DEVELOPING. WE'LL NOW HEAD THAT WAY AND INVESTIGATE. WE ATTEMPTED SEEDING THIS CELL BUT IT QUICKLY RAINED ITSELF OUT. WITH NO MORE TARGETS AND NEAR USE OF ALL FLARES, WE DECIDED TO RTB AND RELAUNCH IF NEEDED.

**WATCHES/WARNINGS:**

NONE

**SEEDED CELL ID'S:**

3931	5522							
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**FLIGHT INFORMATION:**

TIME (Z)	Plane	Flare Location	County
2100	26P	IN AIR	
2116	26P	168° @ 31 nm	PECOS
2124	26P	163° @ 35 nm	PECOS
2126	26P	161° @ 37 nm	PECOS

2130	26P	158° @ 38 nm	PECOS
2131	26P	158° @ 38 nm	PECOS
2135	26P	155° @ 42 nm	PECOS
2144	26P	147° @ 26 nm	PECOS
2146	26P	151° @ 25 nm	PECOS
2149	26P	151° @ 25 nm	PECOS
2148	26P	151° @ 27 nm	PECOS
2149	26P	146° @ 27 nm	PECOS
2150	26P	146° @ 27 nm	PECOS
2211	26P	150° @ 20 nm	REEVES
2212	26P	148° @ 17 nm	REEVES
2215	26P	142° @ 19 nm	REEVES
2216	26P	142° @ 19 nm	REEVES
2230	26P	240° @ 14 nm	REEVES
2232	26P	239° @ 13 nm	REEVES
2240	26P	RTB	

Seeding operations were conducted over Pecos (24) and Reeves (12) Counties. 36 flares were burned within 2 clouds. This is the 1<sup>st</sup> day for seeding in June and the 2<sup>nd</sup> day for seeding during the season.