

WEST TEXAS WEATHER MODIFICATION ASSOCIATION - SAN ANGELO, TEXAS

SEEDING REPORT - June 03, 2017

SYNOPTIC/MESOSCALE CONDITIONS:

Strong dynamics aloft should spread across the region this afternoon. With peak heating, we should see CAPE values push well into the 1-2k J/KG range allowing for convection to take place. With limited capping in place, we could see a few premature storms develop, but it'll be up to the dynamics aloft to help sustain storms.

LIFTING MECHANISM:

Sufficient Surface Heating, Upper Level Dynamics

THERMODYNAMIC INDICES (12Z KMAF)

Freezing Level (m)	4236	CAPE (J/Kg)	544
Precipitable Water (inches)	1.26	CINH (J/Kg)	98
LCL	933	LI(°C)	-3.2
CCL	2329	PB	3
MAF ICA	0.76	DRT ICA	-1.96
Cloud Base (meters)	1970	Cloud Base Temp (°C)	19
Warm Cloud Depth (meters)	2266		

DISCUSSION:

A FEW SHOWERS/STORMS WERE BEGINNING TO DEVELOP BY 1730Z. HOWEVER, PEAK HEATING IS STILL FAR AWAY SO IT WAS UNKNOWN WHAT THESE SHOWERS/STORMS WOULD DO. WITH THAT SAID, DYNAMICS ALOFT PROVED TO BE STRONG ENOUGH TO SUSTAIN STORMS. THEREFORE, PILOT WAS CALLED AIRBORNE AT 1745Z AND SHOULD BE UP SHORTLY AFTER 18Z. WE'LL HEAD INTO IRION COUNTY WHERE STORMS APPEARS TO BE HOLDING TOGETHER BEST, BUT RADAR TRENDS ARE SHOWING ADDITIONAL DEVELOPMENT INTO CROCKETT COUNTY AS WELL. STORMS WERE HEAVILY SEEDED IN IRION COUNTY THROUGH THE 18Z HOUR. DEVELOPMENT WAS WIDESPREAD ACROSS IRION/TOM GREEN COUNTY AND WAS BEGINNING TO SPREAD SOUTHWEST INTO REAGAN/CROCKETT COUNTIES. WE'LL MANAGE EACH STORM CAREFULLY AND SEED EFFICIENTLY. THE CELLS ALONG IR/TG COUNTY WERE VERY EFFICIENT AND WERE HEAVILY SEEDED. BASES FELL BELOW 3KFT SO WE DECIDED TO PULL OFF AND HEAD WEST TOWARDS BARNHART. STORM IN BARNHART PROVIDED ONE PATCH OF INFLOW, BUT PILOT REPORTED PLENTY OF HEAVY RAIN BUT VERY SMOOTH FLYING AND NO INFLOW. WE'LL PUSH BACK EAST AND SEE IF THE OUTFLOW BOUNDARY WHICH IS EXTENDING STORMS INTO SCHLEICHER COUNTY MAY PROVIDE ANY OPPORTUNITY FOR SEEDING. THIS SYSTEM IS TURNING MORE INTO A HEAVY RAIN EVENT THEN A CONVECTIVE EVENT. STILL, WE'LL STAY SOUTH OF THE OUTFLOW BOUNDARIES AND WORK ANY NEW DEVELOPMENT AS IT POPS UP. THIS AREA OF THE STORM SYSTEM IS SIMPLY TOO LOW TO SEED (BASES < 3KFT). WE PUSHED BACK TO THE WEST AND GOT BACK NORTH INTO THE CLEAR. WE'LL LOOK AT CELLS IN TOM GREEN/STERLING COUNTY. PILOT APPROACHED THE AREA OF STORMS IN IRION/TOM GREEN/STERLING COUNTIES BUT REPORTED EMBEDDED DEVELOPMENT WITH VIRGA AND DOWNDRAFTS ONLY. WITH STORMS FROM SCHLEICHER COUNTY WEST TOWARDS BARNHART BEING BASED TOO LOW AND THIS CONVECTION OUTFLOW DOMINATE, WE'LL HEAD BACK TO BASE AND REGROUP. IF A RELAUNCH IS NEEDED, WE'LL BE PREPARED, BUT TEMPERATURES AREA WIDE BEHIND THE MAIN AREA OF CONVECTION HAVE FALLEN TO THE LOW 60'S. WE TRIED TO RELAUNCH PILOT BUT HE COULD NOT GET AIRBORNE UNTIL CLOUDS LIFTED MORE. FINALLY, BY 2130Z, CLOUDS LIFTED ENOUGH TO GET GOING AGAIN. WE'LL HEAD N TO STERLING COUNTY AND THEN WEST IN IRION/REAGAN COUNTY BEFORE TRACKING SOUTH TO CROCKETT. STORM IN STERLING FELL APART AS WE GOT AIRBORNE, SO WE'LL WORK WEST INTO THE TOM GREEN COUNTY PANHANDLE/NORTHERN IRION COUNTY BEFORE DIVING SOUTH. WE DID FIND A FEW BATCHES OF INFLOW, BUT OVERALL STORM SYSTEM WAS VERY INACTIVE AND DID NOT PRODUCE MUCH INFLOW. BY 2245Z, RAIN WAS JUST ABUNDANT AND INFLOW WAS JUST NOT AROUND. AT THIS POINT, WE DECIDED TO CALL IT.

WATCHES/WARNINGS:

NONE

SEEDED CELL ID'S:

2493	2724	3570						
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FLIGHT INFORMATION:

TIME (Z)	Plane	Flare Location	County
1815	49P	IN AIR	
1824	49P	290° @ 16 nm	IRION
1930	49P	281° @ 26 nm	IRION
1831	49P	281° @ 23 nm	IRION
1833	49P	278° @ 24 nm	IRION
1842	49P	258° @ 17 nm	IRION
1843	49P	258° @ 19 nm	IRION
1849	49P	241° @ 18 nm	IRION
1850	49P	241° @ 18 nm	IRION
1851	49P	237° @ 14 nm	IRION
1852	49P	230° @ 14 nm	IRION
1915	49P	233° @ 35 nm	CROCKETT
2015	49P	RTB	
2145	49P	IN AIR	
2213	49P	255° @ 55 nm	REAGAN
2214	49P	256° @ 57 nm	REAGAN
2234	49P	236° @ 68 nm	CROCKETT
2245	49P	RTB	

Seeding operations were conducted over Irion (18+1H) and Reagan (4) Crockett (4) Counties. 26 flares plus 1 hygroscopic flare were burned within 2 clouds. This is the 2nd day for seeding in June and the 5th day for seeding during the season.