

## WESTERN KANSAS WEATHER MODIFICATION PROGRAM

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### WEEKLY NEWSLETTER

No. 2013-10

For the period June 15 – June 21, 2013

**General Interest:** No general interest this week.

**Weather:** The week started out during an active weather pattern with widespread severe storms occurring Saturday, Sunday, and Monday across much of western Kansas. Widespread storms occurred again Tuesday during the late afternoon on into the overnight hours across much of western Kansas. Tranquil conditions prevailed across much of the area Wednesday through Thursday afternoon with temperatures climbing back into the 90's Thursday. A few strong to even severe storms formed over west-central Kansas Thursday evening. Hot and humid conditions finished out the remainder of the week.

**Operations:** There were three operational days this week. Seeding for hail suppression occurred each day. Also, two observation flights occurred on June 18<sup>th</sup>.

#### June 15<sup>th</sup>, Program Operations Day #13

Two planes were launched at 8:38 p.m. to investigate a small area of storm development over Hamilton and Lane counties. Seeding for hail suppression began at 9:08 over extreme southwestern Lane. Also, seeding for hail suppression began at 9:10 over northeastern Hamilton. Seeding was terminated at 9:26 over southern Lane. The plane working there then moved to aid in seeding efforts over northern Hamilton and northern Kearny. Seeding continued over northern Kearny through 10:30 as well as a brief period of hail suppression over western Scott from 10:35 to 10:40. All seeding stopped at 10:40 with the planes turning for base.

#### June 16<sup>th</sup>, Program Operations Day #14

All WKWMP aircraft were launched at 6:16 p.m. to investigate very slow moving severe storms traveling east across northern Greeley. Radar indicated this storm would eventually travel into Wichita County. Also, a squall-line was developing over eastern Colorado and would eventually impact western Kansas. Seeding for hail suppression began over central Greeley County at 6:43 as this storm was traveling in a southeastern direction. Seeding continued over southern Greeley County through 7:18 on an area of intense updraft within an area of high convergence on colliding storms. Seeding was extended into northern Hamilton and northwestern Kearny at 7:29 as new storm development there was in the process of merging into the main storm cell over Greeley. Seeding was terminated at 8:32 on the portion of the line over Kearny County. Planes then moved to Scott County where the northern portion of the line was pushing east. In Scott, radar indicated this area was less intense in terms of hail but perhaps as strong for wind threat. Seeding was carried out over portions of southern Scott County for a few minutes before the updrafts became filled in with precipitation. All seeding stopped around 8:50. The line continued to push east into central Kansas overnight.

#### June 17<sup>th</sup>, Program Operations Day #15

All WKWMP aircraft were launched at 7:14 p.m. to investigate several storm cells either moving towards or developing along the Colorado border near Hamilton and Greeley counties. Radar indicated these storms were severe with the potential for large hail and even a small tornado or two. Most of these storms were driven by gust front interactions which tended to cause multi-directional movement depending on which way the gust fronts were traveling. Seeding for hail suppression began at 8:01 over southwestern Greeley County. All seeding stopped at 8:15 over Greeley after the gust fronts collided and diminished the updraft zones under the storms.

**Acknowledgement:** The Western Kansas Weather Modification Program is funded, in part, through the State Water Plan, administered by the Kansas Water Office.

**Walter Geiger, Meteorologist**  
**Western Kansas Weather Modification Program**