

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

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NATIONAL HAIL RESEARCH EXPERIMENT NEWSLETTER

July 16, 1975

Although no cloud seeding is being done during this year's National Hail Research Experiment field program, some field research on hailstorms is being conducted during the month of July.

One research aircraft, a T-28 from the South Dakota School of Mines and Technology, is being used to penetrate storm clouds to gather data from the interior of the storm. The T-28, which is armored in critical areas to protect it from hail damage, is instrumented to measure the size spectrum of cloud particles and the relative amounts of ice and liquid water in the cloud, both important factors in hail formation. It has flown several research missions since the NHRE field work began on July 1, and will continue to operate during the remainder of the month. The T-28 is based at Cheyenne.

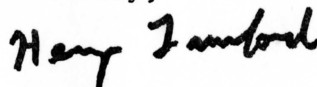
NHRE's radar at the field headquarters at Grover, Colorado, is being used to observe storms that occur in the region, and tests of our disdrometers, ground-based devices for sensing and measuring hail electronically, are continuing in the Grover area.

The volunteer network of hail-damage reporting by farmers in northeastern Colorado and southwestern Nebraska is continuing to supply valuable information that is being used to relate hail characteristics to crop damage. This is part of NCAR's effort to study the potential usefulness of hail suppression to agricultural productivity at the same time that the technical feasibility of hail suppression is being examined.

These activities will continue through the month of July, but no cloud seeding will be done this year. The hail researchers expect to resume a full-scale field research program in 1976.

Please let us know if we can provide you with more information about the National Hail Research Experiment.

Cordially,



Henry Lansford
Information Officer