FOURTH ANNUAL CONFERENCE ON AERIAL CROP DUSTING AND SPRAYING SET AT FARGO, N. DAK.
(At North Dakota Agricultural College, April 23 & 24, 1954)

The Fourth Annual Conference on Aerial Crop Dusting and Spraying will be held at the North Dakota Agricultural College, Fargo, North Dakota on April 23 & 24, 1954, it was announced today by Harold G. Yavva, Director of the North Dakota Aeronautics Commission.

Jointly sponsored by the North Dakota Agricultural College and the North Dakota Aeronautics Commission, the conference will be held on the NDAAC campus at the College Library Building.

Commercial Aerial Crop Sprayers, Flying Farmers, interested private pilots and farmers are cordially invited to attend. Bring yourself, your neighbor and your County Agent. Over 750 programs are being mailed this week throughout North Dakota and neighboring areas.

The program this year features several important panel discussions, which you as an applicator cannot afford to miss. "Progress in cereal rust control with fungicides" is one of the subjects on the program of top interest to aerial sprayers and farmers. The program includes demonstration of new aircraft and two-way radio equipment suitable for installation in aerial crop spraying aircraft.

Registration will take place from 10 to 12 noon on Friday, April 23rd at the College Library Building. No registration fee.

FRIDAY MORNING, APRIL 23, 1954
10 to 12 A.M. - Registration - No Registration Fee

FRIDAY AFTERNOON, APRIL 23, 1954

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
<th>Speaker</th>
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<tr>
<td>1:30 PM</td>
<td>Welcome to the North Dakota Agricultural College - Dr. Fred S. Hults, Pres.</td>
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<td>1:45 PM</td>
<td>North Dakota Agricultural Research - - - - - - - - - - Dr. Glenn C. Holm</td>
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<td>2:00 PM</td>
<td>Potato Insect and Grasshopper Control - - - - - - - - Wayne Colberg</td>
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<td>2:30 PM</td>
<td>Progress in Cereal Rust Control with Fungicides - - - - W. E. Brentzel</td>
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<td>3:00 PM</td>
<td>What's New in Weedicides for 147 - - - - - - - - Dr. E. A. Helgeson</td>
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<tr>
<td>3:30 PM</td>
<td>Panel Discussion -- Chairman Harold G. Yavva</td>
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<td>Subjects;</td>
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<td></td>
<td>1. General comparison of oil vs. water carrier</td>
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<td>2. MCP vs. amine on flax spraying</td>
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<td>3. Potato spraying and use of toxaphene</td>
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<td>4. Comparison of Malathion, DDT, Aldrin, Toxaphene</td>
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<td>5. PCA uses on pigeon grass and flax</td>
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<td></td>
<td>(Panel members to be selected by Chairman)</td>
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<td>4:30 PM</td>
<td>Moving Picture</td>
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<td>Aerial Spraying of Spruce Balsam in New Brunswick Timber,</td>
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<td>a 35 minute film produced by Central Aircraft, Yakima,</td>
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<td>Washington, utilizing 77 airplanes in spraying 2,000,000 acres in Canada.</td>
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<td>5:00 PM</td>
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<td>North Dakota Premier Showing of the &quot;Flying Businessman&quot; in sound and technicolor (Produced by the National Association of State Aviation Officials).</td>
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<td>5:15 PM</td>
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SATURDAY - APRIL 24, 1954
(Morning)

Time       Subject                                                                                           Speaker
9:00 AM    Chemical Weed Control Recommendations for 1954                                           Russell Widdifield
9:20 AM    A Display of Literature on the Results of Experimental                                   Dr. Richard L. Post
            Insecticides in North Dakota
9:30 AM    24/7 Damage to Susceptible Crops and Trees                  Dr. J. H. Schultz
10:00 AM   Panel Discussion - Chairman Harold G. Vavra                                          (Panel Members to be selected by Chairman)
            Subject: Airplane Spray Equipment for Most Effective Results.
            1. Nozzles
            2. Droplet Size
            3. Toxicity
            4. Residue
            5. Effect of Temperature
            6. Activity of Insects at Various Temperatures
11:00 AM   Mosquito Control                                                           Dr. John Callenbach
11:30 AM   Soils and Fertilizers                                                      Dr. E. B. Norum
12:00 AM   Luncheon at Ceres Hall Cafeteria

SATURDAY AFTERNOON, APRIL 24, 1954

1:30 PM    Proceed to Hector Airport for demonstration of new aircraft and two-way     
            radio equipment suitable for installation in aerial crop spraying 
            aircraft.

TWENTY YEARS AGO

Les Elliott, Valley City, North Dakota sent a card to the Editor with some 
interesting figures about North Dakota Aviation twenty years back. Les said that 
the Valley City Postmaster found an old Gulf Oil Aviation Annual for 1933–1934 
among some old records. According to the Official Gulf Oil Aviation Annual of 1933–
34 North Dakota had:

<table>
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<tr>
<th>Aircraft</th>
<th>Pilots</th>
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<tbody>
<tr>
<td>46 licensed aircraft</td>
<td>35 Transport Pilots</td>
</tr>
<tr>
<td>36 unlicensed aircraft</td>
<td>5 Limited Commercial Pilots</td>
</tr>
<tr>
<td>80 Total</td>
<td>74 Private Pilots</td>
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</table>

Gulf Oil also listed 11 Municipal Airport, 5 Commercial Airports for a total 
of 16 airports in North Dakota. A transport pilot rating at that time was equiva-

tent to a "Commercial Pilot" rating of today.

Twenty Years later the Aeronautics Commission’s Records Show:
(For 1954)

933 - Licensed airplanes in North Dakota
1,041 - Active Pilots in North Dakota
120 - Municipal and Commercial Airports in North Dakota
700 - Flying Farmer and Farm type landing strips

CAA OFFERS NEW WRITTEN COMMERCIAL EXAMINATION

Robert Bockler, CAA Safety Agent at Bismarck announced that his office is pre-
pared to offer effective April 1st, 1954, the new "Open Book" type of commercial 
pi lot examination. The new written exam provides for a maximum of five hours for 
its completion compared with 8 hours for the old commercial test. The examination 
is based on a hypothetical 1,000 mile cross country flight. Instead of working from 
memory, pilots are provided with weather maps, aeronautical charts, copies of the 
Airmans Guide and other material. The examination, which can be machine graded, 
consists of 100 multiple choice questions.
Tribute to the North Dakota Wing of Civil Air Patrol for its assistance to the U.S. Air Force in search and rescue missions in its annual tests on search missions was paid by Lt. Col. William L. Gibson at the annual wing convention held at Fargo, Saturday, March 27, 1994.

Colonel Gibson presented to Col. Paul S. Roel, wing commander, a citation for outstanding achievement in the search and rescue mission staged at Minot last fall and an individual award to Lt. Col. John M. Kurke, deputy wing commander, who was in charge of the mission.

Another individual award was made to Lt. Col. Stan Cowan, wing public information officer, for his work in enlisting public cooperation in locating the wreckage of a crashed civilian aircraft in which Eugene Nelson, Moorhead businessman, was killed near Bernserville, Minn. last January.

Colonel Gibson, commander of the 44th Air Rescue Squadron, 4th Air Rescue Group, Denver, Colorado flew to Fargo with members of his staff. The ARS commander said the purpose of his group is to perform a mission of mercy, finding, aiding and returning to safety, members of Air Force and civilian air crews. He said that in the United States, Civil Air Patrol is the very backbone of ARS which depends upon civilian pilots to help in emergencies.

Lt. Col. Wendell Crooms, Minneapolis, regional USAF-CAP liaison officer, also paid tribute to the North Dakota wing of CAP and pointed to the many activities in which CAP participates to train young people in aviation.

CAP SELECTIONS STATE CANDIDATES FOR CAP FLIGHTS OVERSEAS

Nine Civil Air Patrol cadets, six boys and three girls, who attended the annual CAP convention at Fargo, March 27th are candidates for trips to foreign lands as guests of the U.S. Air Force this summer.

More than 100 CAP cadets in the U.S. make the trip each year and a similar number of boys from foreign countries are flown to the United States. North Dakota CAP will be host to several cadets from Greece this year.

The six North Dakota candidates are Robert B. Stone and Walter Jonas, Fargo-Northern Squadrons No. 1; Kenneth Ennec, Minot; Gordon Benrud, Minot; Richard Klundt, Jamestown; and Harold Shattuck, Bismarck.

The three girls cadets, who will be candidates for trips to Hawaii or Puerto Rico, are D'Arlene Halvorson and Marjorie Hinkel, Bismarck, and Patricia Daly, Grand Forks.

AVIATION OPERATORS TO MEET AT FARGO DURING AERIAL CROP SPRAYING CONFERENCE

(April 23 and 24th, 1994)

Bart O. Sogard, Minot, President of the North Dakota Aviation Operators Association announced this week that the Aviation Operators will hold a meeting Friday, April 23, 1994 at 8:00 a.m. at the Gardner Hotel in Fargo. A meeting room is being arranged for at the hotel. Sogard said all commercial pilots that do aerial spraying are invited along with private pilots who are licensed to spray on their own land.

NEW AGRICULTURAL AVIATION MAGAZINE PUBLISHED

A new agricultural aviation magazine called "The Swath" published its first issue in March 1994. According to the publisher the magazine is dedicated to the interests of agricultural aviation and in the industry's first exclusive publication. William D. Austin, Loma Linda, Calif., is the editor and publisher. "The Swath" is a monthly, published on slick magazine paper. According to the magazine's statement, it is: "circulation subscription free to members of the Agricultural Aviation Industry, A. W. Colleges, Government agencies and others in 46 states, the Territories, Canada and many foreign countries throughout the world". The April issue of "The Swath" states that: "Your name and address on a postcard will bring The Swath to you every month. Please state occupation". The address of the publication is "The Swath", 167 Gardena Avenue, Loma Linda, California.
MOST OF NORTH DAKOTA AVIATION AIDS TO AIR NAVIGATION TO BE RETAINED

The Federal Air Coordinating Committee, Washington, D.C., has rejected a proposal to decommission three low frequency radio ranges in North Dakota.

The decision followed a hearing in Washington, D.C., on March 16, 1954 at which the committee studied the question of dropping 12 federal aids to air navigation in North Dakota.

According to Harold G. Vavra, director of the State Aeronautics Commission, who was present at the hearing, the low frequency radio ranges at Minot, Grand Forks and Pembina will be retained. Other representatives attending the hearing from North Dakota were E. J. Hanson, Manager of the Grand Forks Chamber of Commerce and State Senator Carroll Day, Grand Forks.

Vavra said decisions on the nine other air navigational facilities were as follows:

The Barnesville and Glyndon, Minn., fan markers and the West Fargo fan markers used in connection with Hector Airport, Fargo will be retained. The Wheatland, N.D., fan marker was voted to be discontinued.

The committee voted to defer consideration of the Driscoll and Judson fan markers used in connection with the Bismarck Airport until some future date so the Air Force may make a study of air traffic control requirements in relation to the proposed air base to be constructed at Bismarck.

The committee voted to decommission the Ashley CAA emergency landing field although voted to retain the Ashley radio "H" marker.

The committee deferred action for 30 days on the proposed decommissioning of the Washburn CAA emergency field to permit the Army committee member to further investigate whether there is a requirement for this facility.

AERIAL CROP SPRAYERS APPLICATION FORMS TO BE MAILED IN MID-APRIL

The Aeronautics Commission will mail aerial applicator application forms to aerial crop sprayers in the middle of April. The 1954 aluminum license plates issued to aerial applicators will be on hand this week. The Commercial License plate is painted green with aluminum letters and the Private Permit for Spraying on own land only is painted blue with aluminum letters.

NEWS FLASH - TELEVISION OUTMODES CONCRETE AND IRON "BEAM" NAVIGATION

For many years, one of the most common and accepted methods of navigation by both experienced and inexperienced pilots is that of following the highway or rail-road track to the desired destination. This is particularly true when the visibility is poor and the ceiling low, and the worse the weather becomes, the closer the road or tracks are followed. TODAY, THIS IS AN INVITATION TO DISASTER.

Hundreds of television stations throughout the country are erecting towers that range in height from 500 to 1,500 feet above ground, and there are some presently contemplated for 2,000 feet above ground. These towers are guyed with cable extending down at an angle of about 45°, resulting in a first class booby trap for the low flying, unwary pilot. Add to this the fact that the towers for the most part will be along the major or secondary highways leading into town, and incidentally to the airport, and it can be readily seen that the pilot attempting to "break" home under marginal VFR conditions is simply playing an aviation version of "Russian roulette".

To illustrate the necessity for increasing caution at low altitudes, consider this. In Minnesota alone, there are permits presently issued for about 60 radio towers 300 feet high OR HIGHER.

Normal: If you are caught in marginal flying weather, stay at least a mile away from major roads.

(Courtesy Minnesota Department of Aeronautics)

AIRPORT AID

The U.S. Department of Commerce has recommended to the Bureau of the Budget that $33 million dollars be appropriated for federal aid to airports.