

NAAA Aerial Application Press Room Photo Captions

https://www.dropbox.com/sh/iavjki7vvr3nzt/AADt6G_PdbIKDbU7nWaUWnxwa?dl=0

1 First Aerial Application.jpg:

View of the first aerial application and aerial crop dusting flight flown by Army test pilot Lt. John A. Macready on Aug. 3, 1921. The application was made upwind of a grove of catalpa trees infested by sphinx moth larvae. The arrow is pointed at the catalpa grove.

2 First Aerial Application end-of-pass.jpg:

Wind blowing in the direction indicated by the arrow carried the lead arsenate dust from the first crop dusting test flight over and through the catalpa grove, completely covering the trees. The Catalpa sphinx moths were successfully eradicated by the maiden aerial application.

3 EtienneDormoy_and_JohnMacready_in_front_of_1st_crop_duster_aircraft.jpg:

Etienne Dormoy and Lt. John A. Macready (right) teamed up on the first crop dusting flight, with Macready piloting the plane while Dormoy dispensed the lead arsenate.

4 JohnMacready.jpg:

John Macready's pioneering feats extended far beyond the first crop dusting flight. He is the only three-time recipient of the Air Force's Mackay Trophy, starting in 1921, when he was at the controls for a simple but revolutionary low-flying crop dusting test flight.

5 Huff-Daland-Dusters.jpg:

Huff Daland Dusters was the world's first commercial aerial crop dusting company and the precursor to Delta Air Lines.

Ag plane with built-in crash protection.jpg:

Ag planes are designed with built-in crash protection features.

Ag-Cat prototype.jpg:

A prototype of an early Ag-Cat. The Grumman Ag-Cat was the first aircraft specifically designed by a major aircraft company for agricultural aviation.

Ag-Cat spraying corn.jpg:

An aerial applicator flying a radial-engine Ag-Cat sprays corn.

Ag-Cats tandem spraying.jpg:

A pair of Ag-Cats "buddy-flying" on cotton.

AT-401.jpg:

Inclement weather conditions ground an Air Tractor AT-401 ag plane. Aerial applicators operate at the mercy of the weather.

AT-502A tandem spraying-1.jpg:

A pair of Air Tractor AT-502As make a preemergent application.

AT-502A tandem spraying-2.jpg:

Two Air Tractor At-502A turbine ag planes spray a preemergent application.

AT-502 sprays rice.jpg:

An Air Tractor AT-502B sprays a rice field. Rice growers are extremely reliant on aerial applicators.

AT-502B rice spraying.jpg:

An Air Tractor AT-502B sprays a rice field.

AT-602.jpg:

A 600-gallon Air Tractor AT-602 sprays a field.

AT-802F firefighting-water-drop.jpg:

Small Single Engine Air Tankers are a key cog in suppressing wildfires both in the initial attack and large fire support arenas.

Cessna A-188B Ag Truck.jpg:

A Cessna A-188B Ag Truck sprays a field.

Cessna A-188B Ag Truck-2.jpg:

A Cessna A-188B Ag Truck with a 300-horsepower horizontally-opposed piston engine. Cessna ag aircraft were popular options for ag pilots in the mid-'60s and '70s.

Cessna Ag Plane Line.jpg:

Cessna's line of ag planes. From front to back, a Cessna Ag Wagon, Cessna Ag Truck and Cessna Ag Carryall perform a demo flight across a field.

Cessna Carryall.jpg:

A Cessna Carryall sprays a field.

Cessna corn application.jpg:

A Cessna ag plane sprays corn.

Dromader ag plane.jpg:

A Dromader ag plane enters a field.

Dusty-Crophopper-in-flight_EricDumigan.jpg:

Rusty Lindeman flew the live action version of Dusty Crophopper at the Waterloo Air Show in Ontario in June 2013 to promote the Disney animated film *Planes* in theaters that summer. *(Photo by Eric Dumigan Photography, www.airic.ca)*

Dusty-Crophopper-on-ground_EricDumigan.jpg:

A live action version of Dusty Crophopper will get a new home in August 2021: the Smithsonian National Air and Space Museum's Udvar-Hazy Center in Chantilly, Virginia. Rusty and Lea Lindeman of D'Hanis, Texas, donated the plane. Rusty Lindeman transformed his Air Tractor 301 into a turbine-powered AT-400A with the Dusty paint scheme to promote Disney's movie *Planes* on the summer airshow circuit in 2013. *(Photo by Eric Dumigan Photography, www.airic.ca)*

Early Bell spray helicopter.jpg:

An early version of Bell Helicopter's spray helicopter.

Helicopter Application.jpg:

Helicopters make up 16% of the ag aviation fleet in the United States.

Helicopter bucket work.jpg:

For helicopter seeding services, the pilot incorporates a sling bucket or a grain hopper mounted on the aircraft. This is a helicopter seeding job from the 1960s.

Helicopter field surveillance.jpg:

A Bell 206 helicopter surveys a field.

Helicopter herbicide application.jpg:

A helicopter with spray boom attached to it makes a herbicide application.

Pawnee 3.jpg:

A Piper PA-25 Pawnee with a spreader attached applying dry material to a field.

Soybean spraying.jpg:

An ag pilot soars above a soybean field.

Stearman being dry-loaded.jpg:

Crew members load dry material into a 450-horsepower Stearman ag plane.

Sunflower spraying.jpg:

A Canadian radial-engine ag plane sprays sunflowers.

Thrush 510G aerial water drop 8x12.jpg:

The Thrush 510G Switchback can switch from a fire gate to a dry gate box used for fertilizer and seeding operations in less than a day. *(Photo courtesy of Thrush Aircraft)*

Thrush 510G Switchback Firefighting Aircraft.jpg:

The Thrush 510G Switchback air tanker is designed for use in normal ag operations and as an initial attack air tanker for wildfire suppression. *(Photo courtesy of Thrush Aircraft)*

Thrush 510G cockpit.jpg:

View from the cockpit of a state-of-the-art ag plane. Today's ag aircraft can cost as much as \$1.5 million, depending on hopper size, engine type and other add-ons. *(Photo courtesy of Thrush Aircraft)*

Thrush 510G spraying.jpg:

A Thrush Aircraft makes a spray pass across a field. *(Photo courtesy of Thrush Aircraft)*

Turbine Conversion Ag-Cat.jpg:

An Ag-Cat with a PT6 turbine engine conversion.

Turbine-powered ag plane spray pass.jpg:

The agricultural aviation industry treats 127 million acres of cropland aurally each year. Corn, small grains such as wheat and barley, soybeans, pastures and rangeland, and alfalfa are the five most commonly treated crops.

Weatherly 620B ag plane.jpg:

A Weatherly 620B ag plane with a Pratt & Whitney R-985 450-hp radial engine.