

Airplane Joins Plow as Major Farm Implement for American Farmers

By OVID A. MARTIN
WASHINGTON (AP) — The airplane is rapidly becoming a major implement of agriculture.
While looked upon principally as a weapon of war and as a means of transportation, it is finding wide and expanding use in fertilizing crops, planting seeds, spraying for insects and plant diseases and killing weeds.
The number of aircraft used in farming now exceeds 7,000, or nearly five times the size of the commercial plane fleet.
One cultivated acre out of every six in the United States is being treated by aircraft with dust, spray, fertilizer or other chemicals.
Government agencies estimate aerial pest control, weed control and fertilizing add more than three billion dollars annually to farm income.
Each year more than 644 million pounds of dust-type chemicals are applied by air and 80 million gallons of liquid sprays. These materials would more than fill 1,000 freight trains, each 50 cars long.
Used on Many Crops
Officials say that aerial crop control work is done on more than 200 types of crops.
But extensive as these aerial farm activities are, they are regarded by agricultural engineers to be small in relation to what the next five or ten years will bring.
The use of the airplane and the

helicopter is growing at such a rate that the Agriculture Department is being urged to name a qualified man to coordinate all research being carried on by federal, state and other agencies in aerial farming.
Agricultural aviation is 38 years old. Its infancy can be traced back to 1919 when the Ohio Agricultural Experiment Station dusted trees infested with a caterpillar insect.

A few far-sighted individuals in aviation took notice of these experiments and agricultural aviation began to develop.
Aerial spraying has grown largely around the use of war surplus training planes, easily converted for such use. Chemical companies

have helped by manufacturing new types of chemicals suitable for use from the air.
Hiring Out Service
Those engaged in agricultural aviation usually hire out their services to farmers. Few farmers themselves engage in the work. Aerial dusting and spraying has been a pioneering job, full of drama and hardship as well as danger.
Here is the way a Civil Aeronautics Administration specialist described the aerial applicator in a recent speech:
"He is not a wealthy person. He does not have access to unlimited funds or subsidies to promote the welfare of his business. He has earned everything he has in the good old American competitive way. He is a portion of grass-roots aviation — an industry that has become one of the biggest segments of our aviation industry. He believes the airplane can do aerial application jobs faster, better and more efficiently than any other type of machinery. He has made a lot of faces turn red by doing what was once considered impossible with an airplane."

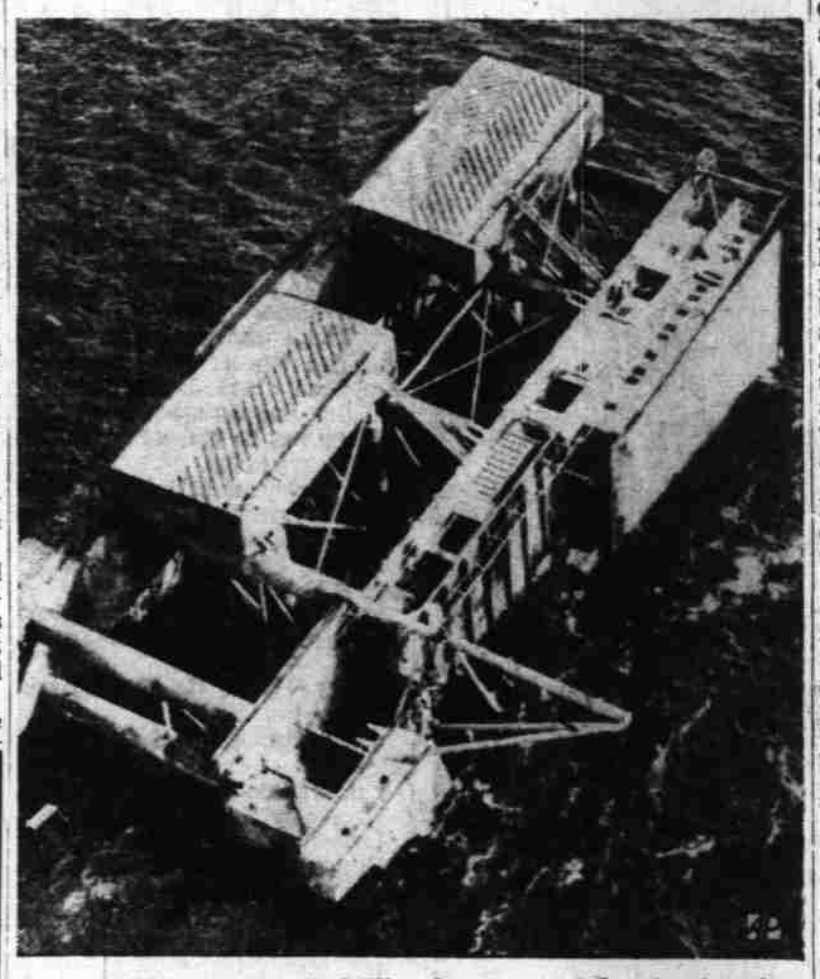
The CAA specialist — Gale F. Hanson — added if aerial applicators suddenly ceased operations, the result would be a food shortage that might well create a panic.
But agriculture is finding uses for the airplane other than caring for crops. More and more farmers are acquiring airplanes for transportation. The airplane is being used to count cattle in Western range areas, for patrolling fences and for planning erosion control work. The Agriculture Department uses the airplane to check on farmer compliance with crop controls.
Sow Tree Seed
In some regions, operators of big tree farms use airplanes to drop new tree seed into cut-over areas. Planes are widely used to help fight forest fires.
Those engaged in agricultural aviation generally agree their industry's greatest need is an airplane designed specially for the work.
Virtually every plane was designed for other purposes—then converted. Individual aerial applicators do not have the finances to design and build an aircraft specifically for their purposes.
However, several aircraft manufacturers have been exploring the

possibility of producing such a plane. Furthermore, several educational institutions — particularly Texas A. and M. College — have been working on better agricultural aircraft.
In the minds of some, aerial spraying and dusting is associated with the aerial circus and its "dare-devil" risk-taking. But leaders of the industry say this is an inaccurate comparison. It is true that the aerial applicators fly close to the ground, but few take unnecessary chances.
Aerial dusting and spraying has its difficulties and hazards, notwithstanding.

There is the problem, for instance, of limiting spread of materials to crops for which they were intended. There have been cases when weed killers, for example, have carried beyond the intended area to crops where they caused heavy losses.
Agriculture experts say one of the biggest opportunities for aerial aviation is the elimination of weeds from the nation's croplands.
They estimate weeds now cause farm losses running around four billion dollars a year. To this must be added another billion dollar loss on non-agricultural lands.
Research work has shown the possibility of using the airplane in seeding such crops as clover, alfalfa, wheat, rye, peas and soybeans.
The increasing importance of protecting forests against insect

loss requires more extensive surveys to determine the location and intensity of infestation.
The airplane offers the most effective, cheapest and quickest way to make such surveys.
Growth of agricultural aviation has led to an increasing amount of legislation by states to restrict in one way or another the sale, use and application of chemicals for pest control. This is designed to prevent uses that would be destructive and establish responsibility for losses from unauthorized applications.

Drilling Barge Snafu



NEW ORLEANS—An oil drilling barge owned by the American Tidelands Company is shown on its side after it succumbed to the rough waters of the Gulf of Mexico about 45 miles south of New Orleans. All 43 workmen aboard escaped injury and were picked up by Coast Guard rescue vessels. Cause of the capsizing was not immediately known. (AP Wirephoto)

Indian-Eskimo Lives Saved

TORONTO (AP) — A multi-million dollar health and welfare program is saving the lives of hundreds of Canada's Indian-Eskimo population, reports Dr. P.E. Moore, director of the Indian Health service in Ottawa.
Since 1952, he says, the program has reduced the death rate from tuberculosis among Canada's 143,000 Indians and 8,500 Eskimos to fewer than 60 in every 100,000. The rate formerly was 579 out of 100,000.

Indian-Eskimo Lives Saved

TORONTO (AP) — A multi-million dollar health and welfare program is saving the lives of hundreds of Canada's Indian-Eskimo population, reports Dr. P.E. Moore, director of the Indian Health service in Ottawa.
Since 1952, he says, the program has reduced the death rate from tuberculosis among Canada's 143,000 Indians and 8,500 Eskimos to fewer than 60 in every 100,000. The rate formerly was 579 out of 100,000.

Indian-Eskimo Lives Saved

TORONTO (AP) — A multi-million dollar health and welfare program is saving the lives of hundreds of Canada's Indian-Eskimo population, reports Dr. P.E. Moore, director of the Indian Health service in Ottawa.
Since 1952, he says, the program has reduced the death rate from tuberculosis among Canada's 143,000 Indians and 8,500 Eskimos to fewer than 60 in every 100,000. The rate formerly was 579 out of 100,000.

BASEBALL TODAY
DOUBLEHEADER
Salem "Senators"
vs.
Coos Bay "Lumberjacks"
Waters Park, 2 p. m.
Grandstand Admission
Adults 50c
(Bring the Whole Family)

SALEM
Roseland Add'n. at Market St.
ONE DAY ONLY
AFT. & NITE
Thurs. JUNE 23
Spon. Jr. Chm. of Chamber

CLYDE BEATTY
GIGANTIC 3 RING RAILROAD CIRCUS
ALL NEW THIS YEAR
CLYDE BEATTY in Person
WORLD'S GREATEST WILD ANIMAL TRAINER
Astounding New Features Including
HANNEFORDS Greatest Riding Family of all Time
Shot From the Mouth of a Flaming Cannon
ZACCHINI 400 ARENIC PERFORMERS
Twice Daily 2:30 & 8 P.M. / Popular
Doors Open 1:30 & 7 P.M. / Prices
2000 Good Seats each Performance
75c for Child — \$1.35 for Adults
Prices include all taxes
General Admission and Reserved
Chair Tickets on sale Circus Day
only at Stevens & Sons, 324 State
Extra Added Attraction — Doug
Avery, "Singing Cowboy," and his
Congress of Riders and Ropers.

Father, Child Drown in Car

UNIONTOWN, Pa. (AP) — An auto, carrying a father and his 8-year-old daughter, rolled into a pool of water at a strip coal mine Saturday and both occupants drowned before rescuers could reach them.
The victims were Arnes Anderson, 31, and his daughter, Sherry. Witnesses told police Anderson was washing the car on the banks of the pool. He jumped inside trying to halt it, but was unable to do so.
There are about 150 species of maple trees.

Woodburn Drive-in
SUN. — MON. — TUES.
"AFFAIR IN TRINIDAD"
Rita Hayworth - Glenn Ford
plus
"TERROR SHIP"
William Lundigan

PIX THEATRE
WOODBURN, OREGON
SUN., MON., TUES.
in Color and Cinemascope
"BAD DAY AT BLACK ROCK"
with Spencer Tracy,
Robert Ryan
ALSO
"Queen Elizabeth Tour"

CHOP SUEY
TEA GARDEN
Chinese American Food
162 1/2 N. Commercial
You walking up
over paint store.

CAPITOL Starts Wednesday
The Great Adventure of the Northwest!
THE TREMENDOUS STORY OF LEWIS AND CLARK
... And of the Indian Girl Who Found the Path for the Great Trail-Blazers!
FRED MacMURRAY · HESTON · REED · HALE
CHARLTON DONNA BARBARA
in **"THE FAR HORIZONS"**
COLOR BY TECHNICOLOR
with WILLIAM DEMAREST · ALAN REID
EDUARDO NORRICA · Production by WILLIAM A. FINE
and WILLIAM C. THOMAS · Directed by RUDOLPH MATTE
From the Screen by WILSON MILLER · EDWARD L. MORTON
From the Novel "Sagas of the Shoshones"
A PARAMOUNT PICTURE
ADVENTURE CO-HIT
Terrific Western Action Hit!
WILD BILL ELLIOTT
"BITTER CREEK"

CAPITOL HELD OVER!
TWO MORTALS TRAPPED IN OUTER SPACE
CHALLENGING THE UNEARTHLY FURIES
OF AN OUTLAW PLANET GONE MAD!
Jeff Morrow
Faith Domergue
Rex Reason
Lance Fuller
— In —

THIS ISLAND EARTH
THE SUPREME EXCITEMENT OF OUR TIME!
in color and Cinemascope
A NEW HIGH IN HAREM HILARITY!
LEO GORCEY — HUNTZ HALL
— In —
"BOWERY TO BAGDAD"

GRAND OVER! HELD
CONTINUOUS FROM 1 P. M. REGULAR PRICES
UNCHAINED
CINEMASCOPE
CARMEN JONES
Dorothy Dandridge
Harry Belafonte
Elroy Hirsch
Barbara Hale
Chestnut Morris

North Salem DRIVE-IN THEATRE
2 MILES NORTH ON HIGHWAY 99
GATES OPEN 6:45 — SHOW AT DUSK
STARTS TONIGHT!
ONE OF THE YEAR'S BEST TECHNICOLOR HITS!
CLIFTON WEBB
DOROTHY McGUIRE — JEAN PETERS
LOUIS JOURDAN — MAGGIE McNAMARA
IN
"THREE COINS IN THE FOUNTAIN"
2ND TECHNICOLOR HIT
BLAZING FRONTIER WARFARE!
"SEMINOLE UPRISING"
Starring
GEORGE MONTGOMERY

EL SINORE STARTS TODAY!
THE NOSTALGIC MUSICAL ROMANCE OF THE ROARING 20'S. THE LIFE OF RUTH ETTLING!
Doris DAY · James CAGNEY
You'll LOVE IT!
The Musical Masterpiece of the Year!
LOVE ME OR LEAVE ME
CINEMASCOPE
Photographed in EASTMAN COLOR
co-starring CAMERON MITCHELL
ROBERT KEITH
TOM TULLY

THE MARAUDERS
Photographed in EASTMAN COLOR · Print by TECHNICOLOR
starring
DAN DURYEA · JEFF RICHARDS
KEENAN WYNN · JARMA LEWIS
A NEW COLOR WITH MATTE PICTURE
THURSDAY NIGHT!
Important Major Sneak Preview!
One of the Top Hits of the Current Year!
FRIDAY NIGHT
On Our Stage!
MISS UNIVERSE CONTEST
15 Gorgeous Girls!

SALEM'S Dining Guide
CHERRY'S
2 1/2 Miles So. on 99E
SALEM'S FINEST
Family Dinners 125 Up
WE'RE SPECIALISTS IN
• PAN FRIED CHICKEN
• CHOICE STEAKS AND CHOPS (Broiled)
• DELICIOUS BAKED HAM
Open 7 A.M.-2 P.M. — 4:30 P.M. 10 P.M.
Sundays Noon-9 P.M. — Closed Mondays

We're Proud of Our Swiss
Steak with Home Baked Rolls,
Butter, Potatoes, Slaw or
Salad . . . 75c
Or Sunday—Wonderful Baked Ham
Or Turkey and Dressing, etc. 95c
THE SAN SHOP The Ore. Home of Sloppy Joe
A GREAT SANDWICH!
Portland Road at the North City Limits
For Orders to Go — Phone 2-6798

STEAK SPECIAL FOR ALL DADS!
TOP Baked Potato
Tossed Salad Bowl
Hot Rolls— \$1.00
12 Noon to 8 p. m. Strawberry Jam
SIRLOIN STEAK
Nohlgren's
440 STATE SALEM
AIR-CONDITIONED

MURIELS GRAND OPENING
WE FEATURE
Fried Chicken to Travel
Fish & Chips Sandwiches To Go
Soft Ice Cream Milk Shakes
THIS WEEK'S SPECIALTY
Fresh Strawberry Sundies
OPEN 11: A.M. TO 10: P.M.
MURIELS
4225 Dallas Rd.
Next to Holman Park
2-2277

FATHER'S DAY DINNER ENTREES
12 NOON TO 8 P. M.
SWISS STEAK OR ROAST TURKEY
✓ 30 salads and relishes to serve yourself at the Buffet Bar!
✓ Choice of hot entrees with all the fixin's!
✓ Coffee by the Silen-Full, or Iced Tea, Orange or Lemonade!
✓ Choice of desserts

ALL YOU CAN EAT 99¢
Nohlgren's DOWNTOWN STATE ST.
AIR-CONDITIONED FOR YOUR COMFORT!

SUNDAY DINNER
Roast Oregon Turkey
Dressing Cranberry Sauce
Sour Cream Cole Slaw
Whipped Potatoes and Gribet
Gravy Hot Rolls and Butter
Prime Rib Roast of Beef
Sour Cream Cole Slaw
Mashed Potatoes and Brown Gravy—Hot Rolls and Butter
95¢ \$1.10
AIR-CONDITIONED DINING ROOM
North's
In the Capitol Shopping Center

Something New Has Been Added!
Available for Picnics, Store Openings, Birthdays, Advertising of All Kinds.
Open Saturday and Sunday, 2:00 P. M. Weekdays, 6:30 P. M.
PALMER'S KIDDIE RIDES
2234 Fairgrounds Rd.