



National Transportation Safety Board Aviation Accident Factual Report

Location:	Dumas, AR	Accident Number:	DFW05CA079
Date & Time:	03/02/2005, 1100 CST	Registration:	N1518Z
Aircraft:	Air Tractor AT-402	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 137: Agricultural		

On March 2, 2005, approximately 1100 central standard time, an Air Tractor AT-402 single-engine tailwheel-equipped agricultural airplane, N15182, registered to a private individual and operated by Moss Flying Service, of Tillar, Arkansas, was substantially damaged when it struck a power line during an aerial application flight near Dumas, Arkansas. The commercial pilot, sole occupant of the airplane, was not injured. Visual meteorological conditions prevailed, and a flight plan was not filed for the 14 Code of Federal Regulations Part 137 aerial application flight. The local flight originated from a private airstrip near Tillar, Arkansas, at time unknown.

The 5,090-hour pilot reported in the Pilot/Operator Aircraft Accident Report (NTSB Form 6120.1/2) that while performing a "trim pass" during an aerial application flight on the eastern portion of a cultivated field, he observed a set of power lines in the flight path of the airplane. In order to avoid colliding with the power lines, the pilot elected to fly underneath the power lines. While maneuvering under the power lines, the tail of the airplane struck one of the power lines. The pilot added that after the collision with the power lines, he "lost directional control" of the airplane; however, he was able to execute a forced landing in an adjacent open field.

Examination of the airplane by the pilot revealed that the top three-quarters of the vertical stabilizer and rudder were sheered-off and the left main landing gear was folded upward.

Pilot Information

Certificate:	Commercial	Age:	39, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Center
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	03/22/2004
Occupational Pilot:		Last Flight Review or Equivalent:	01/28/2005
Flight Time:	5095 hours (Total, all aircraft), 290 hours (Total, this make and model), 5000 hours (Pilot In Command, all aircraft), 50 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 10 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Air Tractor	Registration:	N1518Z
Model/Series:	AT-402	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Restricted	Serial Number:	402-837
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Turbo Prop
Airframe Total Time:		Engine Manufacturer:	Pratt & Whitney
ELT:	Not installed	Engine Model/Series:	PT6-27
Registered Owner:	On file	Rated Power:	680 hp
Operator:	On file	Operating Certificate(s) Held:	
Operator Does Business As:	Moss Flying Service	Operator Designator Code:	M11G

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Thin Overcast / 5000 ft agl	Visibility	7 Miles
Lowest Ceiling:	Overcast / 6000 ft agl	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	110°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	Dumas, AR	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	33.925000, -91.511111

Administrative Information

Investigator In Charge (IIC):	Alexander Lemishko
Additional Participating Persons:	Rick D D'angelo; Federal Aviation Administration; Little Rock, AR
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .