



# National Transportation Safety Board Aviation Accident Final Report

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

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## Analysis

The pilot of the agricultural airplane collided with power lines while maneuvering during an aerial application flight. One of the power lines took out a large portion of the vertical stabilizer and the rudder. Under minimal control, the 5,090-hour pilot managed to execute a forced landing to an adjacent open field.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to maintain clearance from the power lines.

## Findings

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Occurrence #1: IN FLIGHT COLLISION WITH OBJECT  
Phase of Operation: MANEUVERING - AERIAL APPLICATION

### Findings

1. OBJECT - WIRE, TRANSMISSION
  2. (C) CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND
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Occurrence #2: FORCED LANDING  
Phase of Operation: EMERGENCY DESCENT/LANDING

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation:

### Findings

3. TERRAIN CONDITION - CROP
4. TERRAIN CONDITION - GROUND

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	39, Male
<b>Airplane Rating(s):</b>	Single-engine Land	<b>Seat Occupied:</b>	Center
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical--no waivers/lim.	<b>Last Medical Exam:</b>	03/22/2004
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	01/28/2005
<b>Flight Time:</b>	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

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

## Meteorological Information and Flight Plan

Observation Facility, Elevation:		Observation Time:	
Distance from Accident Site:		Condition of Light:	Day
Direction from Accident Site:		Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Thin Overcast / 5000 ft agl	Temperature/Dew Point:	
Lowest Ceiling:	Overcast / 6000 ft agl	Visibility	7 Miles
Wind Speed/Gusts, Direction:	5 knots, 110°	Visibility (RVR):	
Altimeter Setting:		Visibility (RVV):	
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		

## Administrative Information

Investigator In Charge (IIC):	Alexander Lemishko	Adopted Date:	04/28/2005
Additional Participating Persons:	Rick D D'angelo; Federal Aviation Administration; Little Rock, AR		
Publish Date:			
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 <a href="mailto:pubinq@ntsb.gov">pubinq@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .		

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