



Aviation Investigation Final Report

Location: McAlpin, Florida **Accident Number:** ERA12CA050

Date & Time: October 24, 2011, 12:10 Local Registration: N3169C

Aircraft: AIR TRACTOR INC AT-301 Aircraft Damage: Substantial

Defining Event: Low altitude operation/event **Injuries:** 1 None

Flight Conducted Under: Part 137: Agricultural

Analysis

According to the pilot, he had successfully completed six aerial application passes below transmission lines that ran diagonally above a rectangular agricultural field. The pilot had also successfully completed 11 or 12 similar application flights over the same field during previous years, including 1 earlier that month. As the pilot turned the airplane toward its seventh pass, sun position and spray residue on the windshield resulted in his briefly losing sight of the transmission lines. The pilot regained sight of the transmission lines and continued the pass; however, the airplane struck the lines, damaging the wing spar. The pilot did not report any preexisting mechanical anomalies with the airplane.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's misjudgment of the airplane's distance from known transmission lines.

Findings

Aircraft Altitude - Incorrect use/operation

Personnel issues Decision making/judgment - Pilot

Environmental issues Wire - Contributed to outcome

Factual Information

History of Flight

Maneuvering-low-alt flying	Low altitude operation/event (Defining event)
Maneuvering-low-alt flying	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Commercial	Age:	60,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Single
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	August 1, 2011
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	March 26, 2011
Flight Time:	17000 hours (Total, all aircraft), 14000 hours (Total, this make and model), 17000 hours (Pilot In Command, all aircraft), 150 hours (Last 90 days, all aircraft), 70 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	AIR TRACTOR INC	Registration:	N3169C
Model/Series:	AT-301	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	301-0568
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	September 15, 2011 Annual	Certified Max Gross Wt.:	7000 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	P&W
ELT:	Not installed	Engine Model/Series:	R1340 SERIES
Registered Owner:	TERRYS AG SERVICE INC	Rated Power:	600 Horsepower
Operator:	TERRYS AG SERVICE INC	Operating Certificate(s) Held:	

Page 2 of 4 ERA12CA050

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	40J,44 ft msl	Distance from Accident Site:	28 Nautical Miles
Observation Time:	11:53 Local	Direction from Accident Site:	270°
Lowest Cloud Condition:	Unknown	Visibility	
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	330°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.15 inches Hg	Temperature/Dew Point:	16°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Branford, FL (0FL1)	Type of Flight Plan Filed:	None
Destination:	Branford, FL (0FL1)	Type of Clearance:	None
Departure Time:		Type of Airspace:	

Airport Information

Airport:	None	Runway Surface Type:
Airport Elevation	:	Runway Surface Condition:
Runway Used:		IFR Approach: None
Runway Length/\	Width:	VFR Approach/Landing: None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	30.1375,-82.889167(est)

Page 3 of 4 ERA12CA050

Administrative Information

Investigator In Charge (IIC):	Cox, Paul
Additional Participating Persons:	Frank Rios; FAA/FSDO; Orlando, FL
Original Publish Date:	March 27, 2012
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=82186

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

Page 4 of 4 ERA12CA050