



National Transportation Safety Board Aviation Accident Final Report

Location:	Monroeville, AL	Accident Number:	GAA16CA078
Date & Time:	11/06/2015, 1545 CST	Registration:	N525DY
Aircraft:	CESSNA 525	Aircraft Damage:	Substantial
Defining Event:	Birdstrike	Injuries:	3 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that while climbing through 3000 feet mean sea level (MSL), a flock of birds was seen immediately in front of the airplane. The pilot reported that about 1 second after seeing the flock of birds, a single bird impacted the leading edge of the right wing. The pilot returned to the departure airfield and landed without further incident.

A post-accident examination of the wreckage revealed substantial damage to the right wing.

The pilot reported that there were no pre-impact mechanical failures or malfunctions with the airframe or engine that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: An inadvertent collision with a bird during takeoff enroute climb, which resulted in substantial damage to the right wing.

Findings

Environmental issues	Animal(s)/bird(s) - Effect on equipment (Cause)
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Factual Information

History of Flight

Enroute-climb to cruise	Birdstrike (Defining event)
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Pilot Information

Certificate:	Airline Transport; Commercial	Age:	41, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Without Waivers/Limitations	Last Medical Exam:	08/06/2015
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	05/20/2015
Flight Time:	(Estimated) 10000 hours (Total, all aircraft), 1400 hours (Total, this make and model), 7500 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 15 hours (Last 30 days, all aircraft)		

Co-Pilot Information

Certificate:	Commercial	Age:	44, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With Waivers/Limitations	Last Medical Exam:	12/08/2015
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	05/20/2015
Flight Time:	(Estimated) 3000 hours (Total, all aircraft), 1400 hours (Total, this make and model), 1000 hours (Pilot In Command, all aircraft), 12 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N525DY
Model/Series:	525 A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	306
Landing Gear Type:	Retractable - Tricycle	Seats:	8
Date/Type of Last Inspection:	Continuous Airworthiness	Certified Max Gross Wt.:	10400 lbs
Time Since Last Inspection:		Engines:	2 Turbo Fan
Airframe Total Time:	3100 Hours	Engine Manufacturer:	WILLIAMS
ELT:	C126 installed, not activated	Engine Model/Series:	FJ-44-1A
Registered Owner:	EXECUFLIGHT LLC.	Rated Power:	1900 lbs
Operator:	EXECUFLIGHT LLC.	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	KGZH, 258 ft msl	Observation Time:	2153 UTC
Distance from Accident Site:	16 Nautical Miles	Direction from Accident Site:	99°
Lowest Cloud Condition:	Few / 5000 ft agl	Temperature/Dew Point:	21 °C / 10 °C
Lowest Ceiling:		Visibility	10 Miles
Wind Speed/Gusts, Direction:	5 knots, 80°	Visibility (RVR):	
Altimeter Setting:	30.28 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Monroeville, AL (MVC)	Type of Flight Plan Filed:	IFR
Destination:	ALEXANDER CITY, AL (ALX)	Type of Clearance:	IFR
Departure Time:	1540 CST	Type of Airspace:	Class G

Airport Information

Airport:	MONROE COUNTY (MVC)	Runway Surface Type:	Asphalt
Airport Elevation:	419 ft	Runway Surface Condition:	Dry
Runway Used:	21	IFR Approach:	None
Runway Length/Width:	6028 ft / 100 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	31.458611, -87.350556 (est)

Administrative Information

Investigator In Charge (IIC):	Jackie L Vanover	Adopted Date:	03/14/2016
Additional Participating Persons:	Kevin Atkins; FAA; Vestavia Hills, AL		
Publish Date:	03/14/2016		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=92443		

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report.