



Aviation Investigation Final Report

Location: DOUGLAS, Wyoming Accident Number: FTW98LA391

Date & Time: September 11, 1998, 05:58 Local Registration: N4612U

Aircraft: Cessna 180F Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot was taking off from Converse County Airport's runway 28 (6,750 feet x 100 feet, asphalt) in the predawn darkness, en route to Casper, Wyoming, about 47 miles to the west. As the airplane lifted off the runway, a small deer (weighing an estimated 75 pounds) struck the rear of the airplane. Because the airplane remained under control at all times, the pilot elected to continue to Casper, where he landed without incident. Examination of the airplane disclosed the leading edge of the left horizontal stabilizer was crushed inward and bent.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A collision with a deer during take-off.

Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) OBJECT - ANIMAL(S)

Factual Information

On September 11, 1998, at 0558 mountain daylight time, a Cessna 180F, N4612U, registered to and operated by the pilot, was substantially damaged when it collided with a deer during the takeoff roll at Douglas, Wyoming. The airline transport-rated pilot, the sole occupant aboard, was not injured. Visual meteorological conditions prevailed, and no flight plan had been filed for the personal flight being operated under Title 14 CFR Part 91. The flight was originating at the time of the accident.

According to the pilot, he was taking off from Converse County Airport's runway 28 (6,750 feet x 100 feet, asphalt) in the predawn darkness, en route to Casper, Wyoming, about 47 miles to the west. As the airplane lifted off the runway, a small deer, weighing an estimated 75 pounds, struck the rear of the airplane. Because the airplane remained under control at all times, the pilot elected to continue to Casper, where he landed without incident. Examination of the airplane disclosed the leading edge of the left horizontal stabilizer was crushed inward and bent.

Pilot Information

Certificate:	Airline transport	Age:	59,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical-w/ waivers/lim	Last FAA Medical Exam:	March 9, 1998
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:		0 hours (Total, this make and model), st 90 days, all aircraft), 38 hours (Last	

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Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N4612U
Model/Series:	180F 180F	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18051312
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	September 16, 1997 Annual	Certified Max Gross Wt.:	2650 lbs
Time Since Last Inspection:	31 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2668 Hrs	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	O-470-R
Registered Owner:	ROBERT W. DUNCAN	Rated Power:	230 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night/dark
Observation Facility, Elevation:	DGW ,4929 ft msl	Distance from Accident Site:	
Observation Time:	05:53 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	300°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	13°C / 10°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	(DGW)	Type of Flight Plan Filed:	None
Destination:	CASPER , WY (CPR)	Type of Clearance:	None
Departure Time:	05:58 Local	Type of Airspace:	Class E

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Airport Information

Airport:	CONVERSE COUNTY DGW	Runway Surface Type:	Asphalt
Airport Elevation:	4929 ft msl	Runway Surface Condition:	Dry
Runway Used:	28	IFR Approach:	
Runway Length/Width:	6750 ft / 100 ft	VFR Approach/Landing:	

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:	42.749362,-105.389663(est)

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Administrative Information

Investigator In Charge (IIC): Scott, Arnold

Additional Participating Persons:

Original Publish Date: February 15, 2001

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=43972

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.

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