



Aviation Investigation Final Report

Location: Mount Pleasant, Michigan Accident Nun

Date & Time: March 10, 2018, 18:45 Local

Aircraft: LEARJET INC 31

Defining Event: Wildlife encounter (non-bird)

Flight Conducted Under: Part 91: General aviation

Accident Number: GAA18CA155

Registration: N500MP

Aircraft Damage: Substantial

Injuries: 9 None

Analysis

The pilot reported that during the landing roll, the airplane collided with two deer.

The airplane sustained substantial damage to the leading edge of the left wing.

According to the Federal Aviation Administration, Airport/Facility Directory for the accident airport, deer may be located on, and in vicinity of the airport.

The pilot reported that there were no mechanical malfunctions or failures with the airplane 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:

The airplane's collision with deer during the landing roll.

Findings

Environmental issues

Animal(s)/bird(s) - Effect on equipment

Factual Information

History of Flight

Landing-landing roll Wildlife encounter (non-bird) (Defining event)	Landing-landing roll	Wildlife encounter (non-bird) (Defining event)
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Pilot Information

Certificate:	Airline transport; Flight instructor	Age:	57,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
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 2 With waivers/limitations	Last FAA Medical Exam:	May 17, 2017
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	September 1, 2017
Flight Time:	(Estimated) 9100 hours (Total, all aircraft), 3000 hours (Total, this make and model), 6500 hours (Pilot In Command, all aircraft), 120 hours (Last 90 days, all aircraft), 47 hours (Last 30 days, all aircraft)		

Co-pilot Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	55,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	5-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	October 5, 2017
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	October 6, 2017
Flight Time:	(Estimated) 12000 hours (Total, all aircraft), 300 hours (Total, this make and model), 75 hours (Last 90 days, all aircraft), 35 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	LEARJET INC	Registration:	N500MP
Model/Series:	31 A	Aircraft Category:	Airplane
Year of Manufacture:	2000	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	198
Landing Gear Type:	Tricycle	Seats:	10
Date/Type of Last Inspection:	Continuous airworthiness	Certified Max Gross Wt.:	15500 lbs
Time Since Last Inspection:		Engines:	2 Turbo jet
Airframe Total Time:		Engine Manufacturer:	Honeywell
ELT:	Installed, not activated	Engine Model/Series:	TFE731
Registered Owner:		Rated Power:	3500 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KMOP,755 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	01:35 Local	Direction from Accident Site:	26°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	Overcast / 5500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/ None
Wind Direction:		Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.13 inches Hg	Temperature/Dew Point:	-2°C / -7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	ULYSSES, KS (ULS)	Type of Flight Plan Filed:	IFR
Destination:	Mt. Pleasant, MI (MOP)	Type of Clearance:	IFR
Departure Time:	18:00 Local	Type of Airspace:	Class G

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Airport Information

Airport:	MOUNT PLEASANT MUNI MOP	Runway Surface Type:	Asphalt
Airport Elevation:	754 ft msl	Runway Surface Condition:	Dry
Runway Used:	27	IFR Approach:	RNAV
Runway Length/Width:	5000 ft / 100 ft	VFR Approach/Landing:	Full stop:Traffic pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	7 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	9 None	Latitude, Longitude:	43.621665,-84.73722(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Michael Matthews; FAA; Grand Rapids, MI
Original Publish Date:	August 27, 2018
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=96853

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. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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