



Aviation Investigation Final Report

Location:	Kent, Ohio	Accident Number:	GAA18CA150
Date & Time:	March 6, 2018, 19:45 Local	Registration:	N103KS
Aircraft:	Cessna 172	Aircraft Damage:	Substantial
Defining Event:	Wildlife encounter (non-bird)	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The pilot reported that, during a night landing, he saw "a streak of motion" in his peripheral vision, followed by an impact with the empennage. He regained directional control and taxied clear of the runway.

Postaccident examination revealed that a deer struck the horizontal stabilizer, which sustained substantial damage.

The pilot reported that there were no preaccident mechanical failures or malfunctions 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:

A deer collided with aircraft during landing at night.

Findings

Environmental issues	Dark - Effect on personnel
Environmental issues	Animal(s)/bird(s) - Ability to respond/compensate

Factual Information

History of Flight

Landing	Wildlife encounter (non-bird) (Defining event)
Landing	Loss of control on ground

Pilot Information

Certificate:	Private	Age:	39,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	January 26, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 22, 2017
Flight Time:	(Estimated) 193 hours (Total, all aircraft), 193 hours (Total, this make and model), 120 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N103KS
Model/Series:	172 S	Aircraft Category:	Airplane
Year of Manufacture:	2005	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	172S10093
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	January 19, 2018 Continuous airworthiness	Certified Max Gross Wt.:	2558 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4201.3 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	C91A installed, not activated	Engine Model/Series:	IO-360-L2A
Registered Owner:		Rated Power:	180 Horsepower
Operator:		Operating Certificate(s) Held:	Pilot school (141)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night
Observation Facility, Elevation:	KAKR,1101 ft msl	Distance from Accident Site:	7 Nautical Miles
Observation Time:	00:54 Local	Direction from Accident Site:	198°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	100°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.65 inches Hg	Temperature/Dew Point:	6°C / -1°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	AKRON, OH (CAK)	Type of Flight Plan Filed:	None
Destination:	Kent, OH (1G3)	Type of Clearance:	None
Departure Time:	19:30 Local	Type of Airspace:	Class G

Airport Information

Airport:	KENT STATE UNIV 1G3	Runway Surface Type:	Asphalt
Airport Elevation:	1134 ft msl	Runway Surface Condition:	Dry
Runway Used:	01	IFR Approach:	None
Runway Length/Width:	4000 ft / 60 ft	VFR Approach/Landing:	Full stop;Traffic pattern

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:	41.147499,-81.415832(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Arnold Wolfe; FAA; Cleveland, OH
Original Publish Date:	June 14, 2018
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=96832

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](#).