



# Aviation Investigation Final Report

<b>Location:</b>	Boise, Idaho	<b>Accident Number:</b>	GAA19CA054
<b>Date &amp; Time:</b>	November 9, 2018, 23:35 Local	<b>Registration:</b>	N16HT
<b>Aircraft:</b>	Cessna 206	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Birdstrike	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

## Analysis

The flight instructor reported that he and the student pilot were conducting a training flight using night vision goggles. While the airplane was in the traffic pattern, he saw a small flock of geese. Shortly after, he felt a thump. The student reconfigured the rudder and flap setting and was able to land the airplane without further incident.

The airplane sustained substantial damage to the left wing.

The instructor 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:

The airplane's impact with a bird during the approach.

## Findings

<b>Environmental issues</b>	Animal(s)/bird(s) - Effect on equipment
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## Factual Information

### History of Flight

Approach-VFR pattern crosswind	Birdstrike (Defining event)
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### Pilot Information

Certificate:	Airline transport; Commercial	Age:	39,Female
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	Yes
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:	October 10, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	May 10, 2018
Flight Time:	(Estimated) 4400 hours (Total, all aircraft), 4.8 hours (Total, this make and model), 4220 hours (Pilot In Command, all aircraft), 7.5 hours (Last 90 days, all aircraft), 5.5 hours (Last 30 days, all aircraft)		

### Flight instructor Information

Certificate:	Airline transport; Flight instructor	Age:	62,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	Helicopter	Restraint Used:	4-point
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Helicopter; Instrument airplane; Instrument helicopter	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	July 15, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	July 15, 2018
Flight Time:	(Estimated) 10845 hours (Total, all aircraft), 98 hours (Total, this make and model), 10623 hours (Pilot In Command, all aircraft), 37 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N16HT
<b>Model/Series:</b>	206 Undesignat	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1964	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	2060134
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	June 7, 2018 Annual	<b>Certified Max Gross Wt.:</b>	3296 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	3317.89 Hrs at time of accident	<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>	C126 installed, not activated	<b>Engine Model/Series:</b>	IO 520 SERIES
<b>Registered Owner:</b>		<b>Rated Power:</b>	285 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	On-demand air taxi (135)

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Night
<b>Observation Facility, Elevation:</b>	KEUL, 2429 ft msl	<b>Distance from Accident Site:</b>	12 Nautical Miles
<b>Observation Time:</b>	06:56 Local	<b>Direction from Accident Site:</b>	201°
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	Overcast / 7000 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	230°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	30.15 inches Hg	<b>Temperature/Dew Point:</b>	3°C / -4°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Caldwell, ID (EUL)	<b>Type of Flight Plan Filed:</b>	Company VFR
<b>Destination:</b>	Boise, ID (S78)	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	23:30 Local	<b>Type of Airspace:</b>	Class E

## Airport Information

<b>Airport:</b>	Emmett Muni S78	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	2354 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	28	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3307 ft / 55 ft	<b>VFR Approach/Landing:</b>	Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None	<b>Latitude, Longitude:</b>	43.840278,-116.529441(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Nepomuceno, Eleazar
<b>Additional Participating Persons:</b>	Rudy Rossi; FAA; Boise, ID
<b>Original Publish Date:</b>	March 20, 2020
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=98622">https://data.nts.gov/Docket?ProjectID=98622</a>

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