



# **Aviation Investigation Final Report**

Location: Galena, Idaho Accident Number: GAA17CA341

Date & Time: June 14, 2017, 11:00 Local Registration: N9912Q

Aircraft: Cessna 172 Aircraft Damage: Substantial

**Defining Event:** Abrupt maneuver **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

The pilot reported that he was attempting to perform a crosswind, soft-field takeoff from a dry, turf airstrip. He set the flaps to 10°, and the airplane was in a nose-high attitude until the stall warning horn sounded. He then relaxed pressure on the yoke until the stall warning horn stopped. Shortly after liftoff, the airplane entered a power-on stall, and the pilot lost airplane control, and the airplane then began to descend to the runway. The airplane subsequently departed the runway and impacted a barbed wire fence.

The airplane sustained substantial damage to the right wing strut.

The pilot reported that there were no preaccident 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 pilot's exceedance of the airplane's critical angle of attack, which resulted in a power-on stall and subsequent loss of airplane control.

### **Findings**

Aircraft Pitch control - Not attained/maintained

Personnel issues Aircraft control - Pilot

**Environmental issues** Fence/fence post - Contributed to outcome

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## **Factual Information**

## **History of Flight**

**Takeoff** Abrupt maneuver (Defining event)

**Takeoff** Aerodynamic stall/spin

Uncontrolled descent Collision with terr/obj (non-CFIT)

After landing Runway excursion

#### **Pilot Information**

Certificate:	Private	Age:	65,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	December 16, 2016
Occupational Pilot:	No	Last Flight Review or Equivalent:	May 24, 2017
Flight Time:	(Estimated) 369 hours (Total, all aircraft), 150 hours (Total, this make and model), 327 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

### **Passenger Information**

Certificate:		Age:	Male
Airplane Rating(s):		Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	3-point
Instrument Rating(s):		Second Pilot Present:	Yes
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

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## **Aircraft and Owner/Operator Information**

Aircraft Make:	Cessna	Registration:	N9912Q
Model/Series:	172 M	Aircraft Category:	Airplane
Year of Manufacture:	1975	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	17265856
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	June 2, 2017 100 hour	Certified Max Gross Wt.:	2550 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	9660.5 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	C91 installed, not activated	Engine Model/Series:	0-360
Registered Owner:		Rated Power:	180 Horsepower
Operator:		Operating Certificate(s) Held:	On-demand air taxi (135)

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KSNT,6495 ft msl	Distance from Accident Site:	17 Nautical Miles
Observation Time:	16:51 Local	Direction from Accident Site:	340°
<b>Lowest Cloud Condition:</b>		Visibility	
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:		Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.13 inches Hg	Temperature/Dew Point:	9°C / 4°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	Boise, ID (KBOI)	Type of Flight Plan Filed:	VFR
Destination:	Smiley Creek, ID (U87)	Type of Clearance:	VFR
Departure Time:	09:00 Local	Type of Airspace:	Class E

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#### **Airport Information**

Airport:	SMILEY CREEK U87	Runway Surface Type:	Grass/turf
Airport Elevation:	7206 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	32	IFR Approach:	None
Runway Length/Width:	4900 ft / 150 ft	VFR Approach/Landing:	None

#### **Wreckage and Impact Information**

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	43.912223,-114.796112(est)

#### **Administrative Information**

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Dan Fransdon; FAA; Boise, ID
Original Publish Date:	June 10, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=95376

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.

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