



Aviation Investigation Final Report

Location: Wyndmere, North Dakota Accident Number: GAA19CA158

Date & Time: March 7, 2019, 08:35 Local Registration: N726

Aircraft: Piper PA18 Aircraft Damage: Substantial

Defining Event: Loss of control in flight **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Other work use

Analysis

The pilot reported that he was hired to conduct a predator control flight. He added that, after completing a right turn to the west, he initiated a climbing left turn to the east, and about 75 ft above ground level, the airplane "banked violently to the right and back to the left about two-three times," descended, and then impacted snow-covered ground.

The airplane sustained substantial damage to the right wing.

The pilot reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

The hiring agency check pilot reported that, during a postaccident flight review with the accident pilot, the pilot did not apply rudder inputs during turns, which resulted in uncoordinated turns, similar to what occurred in this accident.

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 during an uncoordinated turn while maneuvering at low altitude, which resulted in an aerodynamic stall.

Findings

Personnel issues Aircraft control - Pilot

Aircraft Angle of attack - Capability exceeded

Personnel issues Attention - Pilot

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Factual Information

History of Flight

Maneuvering-low-alt flying	Aerodynamic stall/spin
Maneuvering-low-alt flying	Loss of control in flight (Defining event)
Maneuvering-low-alt flying	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	66,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	February 1, 2019
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	October 19, 2018
Flight Time:	(Estimated) 19850 hours (Total, all a	ircraft), 14500 hours (Total, this make	and model)

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N726
Model/Series:	PA18 150	Aircraft Category:	Airplane
Year of Manufacture:	1982	Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	18-8309021
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	February 1, 2019 Annual	Certified Max Gross Wt.:	1750 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	14208.6 Hrs	Engine Manufacturer:	Lycoming
ELT:	C91 installed, activated, did not aid in locating accident	Engine Model/Series:	0-320
Registered Owner:		Rated Power:	180
Operator:		Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KGWR,1267 ft msl	Distance from Accident Site:	24 Nautical Miles
Observation Time:	14:35 Local	Direction from Accident Site:	232°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.29 inches Hg	Temperature/Dew Point:	-21°C / -23°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Oaks, ND	Type of Flight Plan Filed:	VFR
Destination:		Type of Clearance:	None
Departure Time:	06:30 Local	Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	46.459167,-97.185279(est)

Administrative Information

Investigator In Charge (IIC):	Nepomuceno, Eleazar
Additional Participating Persons:	David Winjum; FAA; Fargo, ND
Original Publish Date:	November 6, 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=99089

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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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