



Aviation Investigation Final Report

Location:	Inverness, Florida	Accident Number:	GAA19CA081
Date & Time:	November 12, 2018, 14:00 Local	Registration:	N4642J
Aircraft:	Cessna 172	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The flight instructor reported that, with the pilot receiving instruction at the flight controls, the airplane veered left during the landing roll and that he then took the flight controls. He added full power and reduced flaps, but the airplane continued to veer left and exited the runway. Subsequently, the airplane impacted a ditch, the nose landing gear collapsed, and the airplane then came to rest inverted.

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.

The instructor reported that the wind was from 170° at 8 knots. The airport's automated weather observation station reported that, about 15 minutes after the accident, the wind was from 140° at 4 knots. The pilot landed the airplane on runway 19.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot receiving instruction's failure to maintain directional control during landing.

Findings

Aircraft	Directional control - Not attained/maintained
Personnel issues	Aircraft control - Student/instructed pilot
Environmental issues	Sloped/uneven terrain - Contributed to outcome
Personnel issues	Delayed action - Instructor/check pilot

Factual Information

History of Flight

Landing	Loss of control on ground (Defining event)
Landing	Attempted remediation/recovery
Landing	Runway excursion
Landing	Collision with terr/obj (non-CFIT)
Landing	Landing gear collapse
Landing	Nose over/nose down

Pilot Information

Certificate:	Commercial	Age:	62,Female
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	December 10, 2016
Occupational Pilot:	No	Last Flight Review or Equivalent:	January 25, 2017
Flight Time:	(Estimated) 3776 hours (Total, all aircraft), 74 hours (Total, this make and model), 9.6 hours (Last 90 days, all aircraft), 9.6 hours (Last 30 days, all aircraft), 1.2 hours (Last 24 hours, all aircraft)		

Flight instructor Information

Certificate:	Commercial; Flight instructor	Age:	53,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	March 9, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	September 7, 2017
Flight Time:	(Estimated) 2000 hours (Total, all aircraft), 1800 hours (Total, this make and model), 1800 hours (Pilot In Command, all aircraft), 59 hours (Last 90 days, all aircraft), 7 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N4642J
Model/Series:	172 N	Aircraft Category:	Airplane
Year of Manufacture:	1979	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	17273658
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	October 3, 2018 Annual	Certified Max Gross Wt.:	2300 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	14880 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	O-320 SERIES
Registered Owner:		Rated Power:	160 Horsepower
Operator:		Operating Certificate(s) Held:	Pilot school (141)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KINF, 50 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	19:15 Local	Direction from Accident Site:	5°
Lowest Cloud Condition:	Scattered / 4200 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	140°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.98 inches Hg	Temperature/Dew Point:	31°C / 20°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Crystal River, FL (CGC)	Type of Flight Plan Filed:	None
Destination:	Inverness, FL (INF)	Type of Clearance:	None
Departure Time:	13:25 Local	Type of Airspace:	Class G

Airport Information

Airport:	INVERNESS INF	Runway Surface Type:	Asphalt
Airport Elevation:	64 ft msl	Runway Surface Condition:	Dry
Runway Used:	19	IFR Approach:	None
Runway Length/Width:	5001 ft / 75 ft	VFR Approach/Landing:	Full stop;Traffic pattern

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:	28.806388,-82.318054(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Scott Olson; FAA; Tampa, FL
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.nts.gov/Docket?ProjectID=98703

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