



Aviation Investigation Final Report

Location: Vero Beach, Florida Accident Number: GAA18CA204

Date & Time: March 2, 2018, 12:30 Local Registration: N158ND

Aircraft: Piper PA28 Aircraft Damage: Substantial

Defining Event: Loss of control in flight **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

The solo student pilot reported that, during approach, he was above the glideslope after adding full flaps, so he lowered the nose to lose altitude. He added that he "brought a little more speed than intended" into ground effect and the airplane yawed to the left. He overcorrected to the right. The airplane touched down to the right of the runway centerline with the nose pointed 45° to the left. The student attempted to maintain directional control, but the airplane exited the runway to the right and the right wing struck a runway sign. The student pilot taxied back onto the runway and to the parking ramp without further incident.

The airplane sustained substantial damage to the right wing.

The chief flight instructor of the flight school reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

The automated weather observation station located on the airport reported that, about 37 minutes before the accident, the wind was from 360° at 6 knots. The same automated station reported that, about 23 minutes after the accident, the wind was from 030° at 11 knots, gusting to 17 knots. The airplane landed on runway 04.

Probable Cause and Findings

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

The student pilot's failure to maintain a stabilized approach, which resulted in overcorrection with the rudder during the landing, loss of control, and a runway excursion.

Findings

Aircraft Descent/approach/glide path - Not attained/maintained

Aircraft Directional control - Not attained/maintained

Personnel issues Aircraft control - Student/instructed pilot

Environmental issues Sign/marker - Effect on equipment

Environmental issues Sign/marker - Contributed to outcome

Page 2 of 5 GAA18CA204

Factual Information

History of Flight

Landing	Loss of control in flight (Defining event)	
Landing	Attempted remediation/recovery	
Landing-landing roll	Loss of control on ground	
Landing-landing roll	Runway excursion	
Landing-landing roll	Collision with terr/obj (non-CFIT)	

Student pilot Information

Certificate:	Student	Age:	35,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	December 7, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 30 hours (Total, all aircraft), 30 hours (Total, this make and model), 7 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Page 3 of 5 GAA18CA204

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N158ND
Model/Series:	PA28 161	Aircraft Category:	Airplane
Year of Manufacture:	1998	Amateur Built:	
Airworthiness Certificate:	Normal; Utility	Serial Number:	2842030
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	February 27, 2018 AAIP	Certified Max Gross Wt.:	2447 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	11442 Hrs at time of accident	Engine Manufacturer:	LYCOMING
ELT:	C126 installed, not activated	Engine Model/Series:	0-320-D3G
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:	KVRB,28 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	16:53 Local	Direction from Accident Site:	140°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.07 inches Hg	Temperature/Dew Point:	26°C / 15°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	OKEECHOBEE, FL (OBE)	Type of Flight Plan Filed:	VFR
Destination:	Vero Beach, FL (VRB)	Type of Clearance:	None
Departure Time:	12:05 Local	Type of Airspace:	Class D

Page 4 of 5 GAA18CA204

Airport Information

Airport:	VERO BEACH RGNL VRB	Runway Surface Type:	Asphalt
Airport Elevation:	23 ft msl	Runway Surface Condition:	Dry
Runway Used:	04	IFR Approach:	None
Runway Length/Width:	4974 ft / 100 ft	VFR Approach/Landing:	Full stop;Straight-in

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:	27.653888,-80.422775(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Billy J Meadows; FAA; Orlando, FL
Original Publish Date:	July 5, 2018
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=97003

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.

Page 5 of 5 GAA18CA204