



Aviation Investigation Final Report

Location: Sisters, Oregon Accident Number: GAA19CA202

Date & Time: April 10, 2019, 10:30 Local Registration: N92798

Aircraft: Piper PA 12 Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 1 Minor, 1 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

The pilot in the tailwheel-equipped airplane reported that, during the approach, the wind speed increased and became turbulent. He recalled that, during the landing roll, "I immediately applied a slight amount of forward stick," but when the tailwheel contacted the surface, "the wind suddenly changed to a tailwind," and the airplane nosed over.

The airplane sustained substantial damage to the rudder, both wing lift struts, and the engine mounts.

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

The nearest METAR, located at an airport 1 mile away from the accident site, reported that, about the time of the accident, the wind was from 290° at 10 knots, visibility was 10 statute miles, and the clouds were broken at 6,500 ft mean sea level and deteriorating. The pilot landed the airplane on runway 20.

Probable Cause and Findings

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

The pilot's failure to maintain pitch control during the landing roll, which resulted in a nose-over.

Findings

Personnel issues	Aircraft control - Pilot
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Aircraft Pitch control - Not attained/maintained

Environmental issues Sudden wind shift - Contributed to outcome

Page 2 of 5 GAA19CA202

Factual Information

History of Flight

Landing-landing roll	Other weather encounter
Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Attempted remediation/recovery
Landing-landing roll	Nose over/nose down

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	73,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Rear
Other Aircraft Rating(s):	Balloon; Glider	Restraint Used:	Unknown
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine; Glider	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	October 6, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	November 28, 2018
Flight Time:	(Estimated) 8000 hours (Total, all aircraft), 100 hours (Total, this make and model)		

Student pilot Information

Certificate:	Airline transport; Commercial	Age:	88,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	Glider	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	None With waivers/limitations	Last FAA Medical Exam:	October 1, 2003
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 17, 2017
Flight Time:			

Page 3 of 5 GAA19CA202

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N92798
Model/Series:	PA 12 No Series	Aircraft Category:	Airplane
Year of Manufacture:	1946	Amateur Built:	
Airworthiness Certificate:	Other	Serial Number:	12-244
Landing Gear Type:	Tailwheel	Seats:	3
Date/Type of Last Inspection:	100 hour	Certified Max Gross Wt.:	1771 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:	C91 installed, activated, did not aid in locating accident	Engine Model/Series:	O-320
Registered Owner:		Rated Power:	150 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KPDX,107 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	03:53 Local	Direction from Accident Site:	311°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	Broken / 5500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	290°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.42 inches Hg	Temperature/Dew Point:	10°C / 5°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Madras, OR (S33)	Type of Flight Plan Filed:	None
Destination:	Sisters, OR (65K)	Type of Clearance:	None
Departure Time:	10:00 Local	Type of Airspace:	Class G

Page 4 of 5 GAA19CA202

Airport Information

Airport:	Sisters Eagle Air 6K5	Runway Surface Type:	Grass/turf
Airport Elevation:	3168 ft msl	Runway Surface Condition:	Dry
Runway Used:	20	IFR Approach:	None
Runway Length/Width:	3560 ft / 60 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 Minor, 1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 1 None	Latitude, Longitude:	45.588611,-122.596946(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Erik Ramseyer; FAA; FAA, OR
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=99238

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.

Page 5 of 5 GAA19CA202