



National Transportation Safety Board Aviation Accident Final Report

Location:	Chiloquin, OR	Accident Number:	WPR13CA079
Date & Time:	01/01/2013, 1500 PST	Registration:	N58677
Aircraft:	CESSNA 182P	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

After the private pilot and flight instructor conducted a low pass over a snow-covered runway, the private pilot proposed returning to their home airport. However, the flight instructor elected to demonstrate a soft field touch-and-go landing on the snow-covered runway before the return flight. When the airplane touched down, the snow was deeper than the flight instructor anticipated, and the airplane slowed faster than he expected. The pilots added full power and increased back pressure on the control yoke; however, the airplane pitched forward on its nosewheel and then rolled right and left, striking both wings and substantially damaging both main wing spars. The pilots reported no preimpact 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 flight instructor's failure to maintain airplane control during a landing on a snow-covered runway.

Findings

Aircraft	Performance/control parameters - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Instructor/check pilot (Cause)
Environmental issues	Snow/slush/ice covered surface - Effect on operation

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
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Flight Instructor Information

Certificate:	Flight Instructor; Commercial	Age:	32, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 1 Without Waivers/Limitations	Last Medical Exam:	09/27/2012
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	07/25/2012
Flight Time:	6450 hours (Total, all aircraft), 125 hours (Total, this make and model), 5900 hours (Pilot In Command, all aircraft), 79 hours (Last 90 days, all aircraft), 24 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Pilot Information

Certificate:	Private	Age:	35, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	08/11/2011
Occupational Pilot:	No	Last Flight Review or Equivalent:	02/26/2012
Flight Time:	65 hours (Total, all aircraft), 13 hours (Total, this make and model), 32 hours (Pilot In Command, all aircraft), 3 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N58677
Model/Series:	182P	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	18262228
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	09/28/2012, Annual	Certified Max Gross Wt.:	2950 lbs
Time Since Last Inspection:	18 Hours	Engines:	1 Reciprocating
Airframe Total Time:	3997 Hours	Engine Manufacturer:	CONT MOTOR
ELT:	Installed, not activated	Engine Model/Series:	O-470 SERIES
Registered Owner:	Robert Watson	Rated Power:	230 hp
Operator:	Pacific Aviation Northwest Inc	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	LMT, 4095 ft msl	Observation Time:	1453 PST
Distance from Accident Site:	26 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	166°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	-4° C / -9° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	Calm	Visibility (RVR):	
Altimeter Setting:	30.35 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Grants Pass, OR (3S8)	Type of Flight Plan Filed:	None
Destination:	Chiloquin, OR (2S7)	Type of Clearance:	None
Departure Time:	1400 PST	Type of Airspace:	

Airport Information

Airport:	Chiloquin State Airport (2S7)	Runway Surface Type:	Asphalt; Snow
Airport Elevation:	4221 ft	Runway Surface Condition:	Snow
Runway Used:	35	IFR Approach:	None
Runway Length/Width:	3749 ft / 60 ft	VFR Approach/Landing:	Traffic Pattern

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		

Administrative Information

Investigator In Charge (IIC):	Debra J Eckrote	Adopted Date:	04/10/2013
Additional Participating Persons:	Marty G Conroy; Federal Aviation Administration; Hillsboro, OR		
Publish Date:	04/10/2013		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=85920		

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