



Aviation Investigation Final Report

Location: Aberdeen, South Dakota Accident Number: GAA19CA147

Date & Time: February 23, 2019, 14:30 Local Registration: N37716

Aircraft: Porterfield CP 65 Aircraft Damage: Substantial

Defining Event: Collision during takeoff/land **Injuries:** 1 Minor, 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that, during a touch-and-go landing on a frozen lake, the airplane struck a "drift of deep snow" and came to rest inverted. He added that he did not see the snow drift before landing.

The airplane sustained substantial damage to the right wing and empennage.

The pilot reported that there were no preaccident mechanical failures or malfunctions 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 pilot's selection of unsuitable terrain for landing, which resulted in a nose-over.

Findings

Personnel issues Decision making/judgment - Pilot

Environmental issues Snow/slush/ice covered surface - Effect on operation

Factual Information

History of Flight

Landing	Collision during takeoff/land (Defining event)
Landing	Roll over

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	65,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	May 1, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	June 17, 2017
Flight Time:	(Estimated) 10375 hours (Total, all aircraft), 150 hours (Total, this make and model), 10275 hours (Pilot In Command, all aircraft), 45 hours (Last 90 days, all aircraft), 15 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Porterfield	Registration:	N37716
Model/Series:	CP 65 No Series	Aircraft Category:	Airplane
Year of Manufacture:	1941	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	945
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	October 23, 2018 Annual	Certified Max Gross Wt.:	1200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3609 Hrs as of last inspection	Engine Manufacturer:	Continental
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	A65-8
Registered Owner:		Rated Power:	65 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KABR,1300 ft msl	Distance from Accident Site:	10 Nautical Miles
Observation Time:	20:53 Local	Direction from Accident Site:	123°
Lowest Cloud Condition:	Clear	Visibility	
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.87 inches Hg	Temperature/Dew Point:	-7°C / -11°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Aberdeen, SD (ABR)	Type of Flight Plan Filed:	None
Destination:	Aberdeen, SD (ABR)	Type of Clearance:	None
Departure Time:	14:00 Local	Type of Airspace:	Class G

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Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 1 None	Latitude, Longitude:	45.534721,-98.613052(est)

Administrative Information

Investigator In Charge (IIC):Benhoff, KathrynAdditional Participating Persons:Dwight Pladson; FAA; Rapid City, SDOriginal Publish Date:November 6, 2019Note:This accident report documents the factual circumstances of this accident as described to the NTSB.Investigation Docket:https://data.ntsb.gov/Docket?ProjectID=99019

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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