



Aviation Investigation Final Report

Location:	Superior, Wisconsin	Accident Number:	GAA19CA157
Date & Time:	March 7, 2019, 17:45 Local	Registration:	N522DN
Aircraft:	Piper PA22	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot of the tailwheel-equipped airplane reported that, during landing on a snow- and ice-covered runway, he was unable to maintain directional control, so he attempted to go around. However, the airplane impacted a snowbank on the right side of the runway and came to rest inverted.

The airplane sustained substantial damage to the right wing lift strut.

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 failure to maintain directional control during landing on a snow- and ice-covered runway, which resulted in impact with a snowbank and a nose-over.

Findings

Aircraft	Directional control - Not attained/maintained
Personnel issues	Aircraft control - Pilot
Environmental issues	Snow/slush/ice covered surface - Effect on operation

Factual Information

History of Flight

Landing	Loss of control on ground (Defining event)
Landing	Collision with terr/obj (non-CFIT)
Landing	Roll over

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	31, Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	November 1, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	May 15, 2017
Flight Time:	(Estimated) 840 hours (Total, all aircraft), 153 hours (Total, this make and model), 785 hours (Pilot In Command, all aircraft), 81 hours (Last 90 days, all aircraft), 58 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N522DN
Model/Series:	PA22 150	Aircraft Category:	Airplane
Year of Manufacture:	1959	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	226587
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	April 12, 2018 Annual	Certified Max Gross Wt.:	2000 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3441 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	C126 installed, not activated	Engine Model/Series:	O-320-B2B
Registered Owner:		Rated Power:	160 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:	KSUW, 674 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	23:35 Local	Direction from Accident Site:	173°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	270°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.23 inches Hg	Temperature/Dew Point:	-6°C / -17°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Superior, WI (SUW)	Type of Flight Plan Filed:	None
Destination:	Superior, WI (SUW)	Type of Clearance:	None
Departure Time:	17:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	RICHARD I BONG SUW	Runway Surface Type:	Asphalt;Ice;Snow
Airport Elevation:	674 ft msl	Runway Surface Condition:	Ice;Snow
Runway Used:	22	IFR Approach:	None
Runway Length/Width:	5100 ft / 75 ft	VFR Approach/Landing:	Full stop;Straight-in

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	Latitude, Longitude:	46.694999,-92.095001(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Edward Martin; FAA; Milwaukee, WI
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.nts.gov/Docket?ProjectID=99082

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](#).