



Aviation Investigation Final Report

Location: Anchorage, Alaska Accident Number: ANC23LA040

Date & Time: June 4, 2023, 10:30 Local Registration: N83330

Aircraft: Piper PA-18-150 Aircraft Damage: Substantial

Defining Event: Nose over/nose down **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot of the tailwheel-equipped airplane reported that, while conducting an off airport landing to a sand bar, the airplane landed beyond the intended landing point. During the landing roll on soft terrain, the pilot applied heavy braking and the airplane nosed over.

The airplane sustained substantial damage to the right wing, right-wing lift strut and rudder.

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 excessive braking during landing on a sand bar, which resulted in a nose-over.

Findings

Personnel issues	Use of equip/system - Pilot
Aircraft	Brake - Incorrect use/operation
Environmental issues	Soft surface - Effect on operation

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Factual Information

History of Flight

Landing-landing roll	Nose over/nose down (Defining event)	
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Pilot Information

Certificate:	Private	Age:	79,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	BasicMed Without waivers/limitations	Last FAA Medical Exam:	August 1, 2022
Occupational Pilot:	No	Last Flight Review or Equivalent:	June 22, 2021
Flight Time:	(Estimated) 883.1 hours (Total, all aircraft), 883.1 hours (Pilot In Command, all aircraft), 8.6 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N83330
Model/Series:	PA-18-150	Aircraft Category:	Airplane
Year of Manufacture:	1976	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18-7609080
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	July 12, 2022 Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	435 Hrs at time of accident	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	0-360
Registered Owner:	On file	Rated Power:	180 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	PANC,132 ft msl	Distance from Accident Site:	20 Nautical Miles
Observation Time:	10:53 Local	Direction from Accident Site:	135°
Lowest Cloud Condition:	Few / 4000 ft AGL	Visibility	10 miles
Lowest Ceiling:	Broken / 7000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	330°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.22 inches Hg	Temperature/Dew Point:	12°C / 6°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Wasilla, AK (AK89)	Type of Flight Plan Filed:	None
Destination:	Anchorage, AK	Type of Clearance:	None
Departure Time:	10:20 Local	Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	61.3,-150.6(est)

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Administrative Information

Investigator In Charge (IIC):	Gutierrez, Eric
Additional Participating Persons:	Luis E. Trujillo-Martinez; Federal Aviation Administration; Anchorage , AK
Original Publish Date:	August 31, 2023
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=192329

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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