



Aviation Investigation Final Report

Location: Ambler, Alaska Accident Number: GAA18CA492

Date & Time: August 15, 2018, 12:00 Local Registration: N9949N

Aircraft: Cessna 180 Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 2 None

Flight Conducted Under: Part 135: Air taxi & commuter - Non-scheduled - Sightseeing

Analysis

The pilot in the tailwheel-equipped airplane reported that he landed the airplane on an upsloping, uneven sand bar. During the landing roll, the airplane's nose pivoted to the right, and the left wing and horizontal stabilizer struck the ground.

The left-wing spar, the left aileron, and the left side of the vertical stabilizer and elevator sustained substantial damage.

The pilot reported that there were no 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 pilot's selection of unsuitable terrain for landing, which resulted in the left wing and horizontal stabilizer striking the ground.

Findings

Personnel issues	Decision making/judgment - Pilot
Personner issues	Decision making/judgment - Phot

Environmental issues Sloped/uneven terrain - Effect on operation

Page 2 of 5 GAA18CA492

Factual Information

History of Flight

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

Pilot Information

Certificate:	Airline transport; Commercial	Age:	58,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	April 10, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	June 21, 2018
Flight Time:	(Estimated) 5573 hours (Total, all aircraft), 1565 hours (Total, this make and model), 5474 hours (Pilot In Command, all aircraft), 238 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N9949N
Model/Series:	180 J	Aircraft Category:	Airplane
Year of Manufacture:	1975	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18052604
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	100 hour	Certified Max Gross Wt.:	3190 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	0-470
Registered Owner:		Rated Power:	
Operator:		Operating Certificate(s) Held:	On-demand air taxi (135)

Page 3 of 5 GAA18CA492

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	PAFM,289 ft msl	Distance from Accident Site:	25 Nautical Miles
Observation Time:	19:56 Local	Direction from Accident Site:	83°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.92 inches Hg	Temperature/Dew Point:	9°C / -1°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Bettles, AK (BTT)	Type of Flight Plan Filed:	Company VFR
Destination:	Bettles, AK (BTT)	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class E

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:	67.050003,-158.910003(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	FAA; Fairbanks, AK
Original Publish Date:	September 26, 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=98082

Page 4 of 5 GAA18CA492

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 GAA18CA492