

# **Aviation Investigation Final Report**

Location: Petersville, Alaska Accident Number: GAA17CA544

Date & Time: September 13, 2017, 17:30 Local Registration: N4741M

Aircraft: Piper PA 11 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 performing a wheel landing on an unimproved gravel airstrip, a wind gust lifted the "weight off of [the] tires and initiated a skid." He added that, as the airplane settled back on the airstrip, the tail rose rapidly due to the brakes being applied, and the airplane nosed over.

The airplane sustained substantial damage to the left wing lift strut 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 overapplication of brakes, which resulted in a nose-over.

# **Findings**

**Aircraft** 

Aircraft Surface speed/braking - Capability exceeded

Brake - Incorrect use/operation

**Personnel issues** Use of equip/system - Pilot

**Environmental issues** Gusts - Effect on operation

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# **Factual Information**

# History of Flight

Landing	Nose over/nose down (Defining event)

#### **Pilot Information**

Certificate:	Private	Age:	25,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	January 6, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	February 15, 2017
Flight Time:	(Estimated) 149.3 hours (Total, all aircraft), 74 hours (Total, this make and model), 95.6 hours (Pilot In Command, all aircraft), 27.5 hours (Last 90 days, all aircraft), 20.6 hours (Last 30 days, all aircraft), 1.1 hours (Last 24 hours, all aircraft)		

# **Aircraft and Owner/Operator Information**

Aircraft Make:	Piper	Registration:	N4741M
Model/Series:	PA 11 NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	1947	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	11-254
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	July 13, 2017 Annual	Certified Max Gross Wt.:	1220 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1377.4 Hrs at time of accident	Engine Manufacturer:	CONT MOTOR
ELT:	C126 installed, not activated	Engine Model/Series:	0-200-A
Registered Owner:		Rated Power:	100 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

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# Meteorological Information and Flight Plan

Visual (VMC)	Condition of Light:	Day
PATK,356 ft msl	Distance from Accident Site:	51 Nautical Miles
01:53 Local	Direction from Accident Site:	93°
	Visibility	10 miles
Broken / 4500 ft AGL	Visibility (RVR):	
3 knots /	Turbulence Type Forecast/Actual:	/ None
300°	Turbulence Severity Forecast/Actual:	/ N/A
30.05 inches Hg	Temperature/Dew Point:	10°C / 9°C
No Obscuration; No Precipitation		
Petersville, AK	Type of Flight Plan Filed:	None
Petersville, AK	Type of Clearance:	None
	Type of Airspace:	Class G
	PATK,356 ft msl 01:53 Local  Broken / 4500 ft AGL 3 knots /  300°  30.05 inches Hg No Obscuration; No Precipital Petersville, AK	PATK,356 ft msl Distance from Accident Site:  01:53 Local Direction from Accident Site:  Visibility  Broken / 4500 ft AGL Visibility (RVR):  3 knots / Turbulence Type Forecast/Actual:  300° Turbulence Severity Forecast/Actual:  30.05 inches Hg Temperature/Dew Point:  No Obscuration; No Precipitation  Petersville, AK Type of Flight Plan Filed:  Petersville, AK Type of Clearance:

# Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	62.380554,-151.908615(est)

### **Administrative Information**

Investigator In Charge (IIC):	Swenson, Eric
Additional Participating Persons:	Spencer T Leonard; FAA; Anchorage, AK
Original Publish Date:	November 27, 2017
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=96053

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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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