



Aviation Investigation Final Report

Location: Rushville, Nebraska Accident Number: GAA19CA160

Date & Time: March 8, 2019, 11:45 Local Registration: N8566D

Aircraft: Piper PA18 Aircraft Damage: Substantial

Defining Event: Fuel related **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that, during flight, the engine lost partial power. He applied carburetor heat and adjusted the mixture, but the engine did not respond. The engine continued to lose power, and the pilot conducted a forced landing on rough terrain, during which the right wing struck the ground.

The airplane sustained substantial damage to the right wing spar.

The pilot reported that there were no preaccident mechanical malfunctions or failures with the airplane that would have precluded normal operation.

The pilot reported that the temperature about the time of the accident was 30°F and that the dew point was 34°F. The atmospheric conditions at the time of the accident were conducive to the accumulation of serious carburetor icing at cruise or climb power settings. The pilot stated that the accident could have been prevented if he had "checked for carb ice sooner."

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The partial loss of engine power due to the accumulation of carburetor ice, which resulted in a forced landing on rough terrain.

Findings

Environmental issues	Conducive to carburetor icing - Effect on equipment
Environmental issues	Rough terrain - Effect on operation

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Factual Information

History of Flight

Enroute	Fuel related (Defining event)
Enroute	Loss of engine power (partial)
Enroute	Attempted remediation/recovery
Landing	Off-field or emergency landing
Landing	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	39,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 None	Last FAA Medical Exam:	April 25, 2016
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 29, 2017
Flight Time:	(Estimated) 598 hours (Total, all aircraft), 123 hours (Total, this make and model), 598 hours (Pilot In Command, all aircraft), 61 hours (Last 90 days, all aircraft), 17 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N8566D
Model/Series:	PA18 150	Aircraft Category:	Airplane
Year of Manufacture:	1957	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18-6220
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	January 6, 2019 Annual	Certified Max Gross Wt.:	1750 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	6645 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	0-320
Registered Owner:		Rated Power:	150 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None
Operator Does Business As:	Stateline Auto Service	Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KGRN,3562 ft msl	Distance from Accident Site:	25 Nautical Miles
Observation Time:		Direction from Accident Site:	35°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-1°C / 1°C
Precipitation and Obscuration:			
Departure Point:	Rushville, NE (9V5)	Type of Flight Plan Filed:	None
Destination:	Rushville, NE (9V5)	Type of Clearance:	None
Departure Time:	10:45 Local	Type of Airspace:	Class G

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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:	42.459167,-102.501113(est)

Administrative Information

Investigator In Charge (IIC): Hicks, Michael

Additional Participating Persons: Craig Brumley; FAA; Lincoln, NE

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.ntsb.gov/Docket?ProjectID=99091

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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