



Aviation Investigation Final Report

Location: Lewiston, Illinois Accident Number: GAA18CA397

Date & Time: July 4, 2018, 08:35 Local Registration: N11VW

Aircraft: ROBERT MILES Smith Trike Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that, during cruise flight into "wispy clouds," the biplane's engine started to "run rough" then lost all power. About 800 ft above ground level, he restarted the engine, but it quit again. He attempted to restart the engine multiple times but was unsuccessful, so he selected a gravel road for landing. During the landing, the airplane ground looped into a ditch. The biplane sustained substantial damage to the right wing.

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

The automated weather observation station located 25 nautical miles away from the accident site reported that, about the time of the accident, the wind was from 170° at 5 knots, visibility 7 statute miles, clouds broken at 4,800 ft above ground level, temperature 77°F, and dew point 75°F.

The pilot stated that he did not apply carburetor heat during the accident flight. The atmospheric conditions were conducive to serious icing at glide power settings. It is likely that the engine lost power due to carburetor icing and the pilot's failure to apply carburetor heat.

Probable Cause and Findings

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

A total loss of engine power due to the pilot's failure to apply carburetor heat in conditions conducive to carburetor icing and his subsequent failure to maintain directional control during a forced landing.

Findings

Aircraft Directional control - Not attained/maintained

Personnel issues Aircraft control - Pilot
Personnel issues Lack of action - Pilot

Aircraft Intake anti-ice, deice - Not used/operated

Environmental issues Conducive to carburetor icing - Effect on operation

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Factual Information

History of Flight

Enroute	Loss of engine power (total)
Landing	Attempted remediation/recovery
Landing	Off-field or emergency landing
Landing-landing roll	Loss of control on ground (Defining event)

Pilot Information

Certificate:	Private	Age:	72,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Single
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 With waivers/limitations	Last FAA Medical Exam:	December 1, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 20, 2018
Flight Time:	(Estimated) 770 hours (Total, all aircraft), 73 hours (Total, this make and model), 750 hours (Pilot In Command, all aircraft), 5.5 hours (Last 90 days, all aircraft), 4.5 hours (Last 30 days, all aircraft), 0.8 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	ROBERT MILES	Registration:	N11VW
Model/Series:	Smith Trike	Aircraft Category:	Airplane
Year of Manufacture:	1991	Amateur Built:	Yes
Airworthiness Certificate:	Aerobatic; Experimental (Special)	Serial Number:	001RM
Landing Gear Type:	Tricycle	Seats:	1
Date/Type of Last Inspection:	May 7, 2018 Condition	Certified Max Gross Wt.:	940 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	72.8 Hrs at time of accident	Engine Manufacturer:	Continental
ELT:	Not installed	Engine Model/Series:	A&C65 SERIES
Registered Owner:		Rated Power:	80 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KMQB,707 ft msl	Distance from Accident Site:	25 Nautical Miles
Observation Time:	13:35 Local	Direction from Accident Site:	295°
Lowest Cloud Condition:		Visibility	7 miles
Lowest Ceiling:	Broken / 4800 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.22 inches Hg	Temperature/Dew Point:	25°C / 24°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	Springfield, IL (SPI)	Type of Flight Plan Filed:	VFR
Destination:	Monmouth, IL (C66)	Type of Clearance:	None
Departure Time:	06:15 Local	Type of Airspace:	Class G

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Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	40.346111,-90.168052(est)

Administrative Information

Investigator In Charge (IIC):	Nepomuceno, Eleazar
Additional Participating Persons:	Curt Lindauer; FAA; Springfield, IL Nicholas Loftus; FAA; Springfield, IL
Original Publish Date:	June 10, 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=97711

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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