



Aviation Investigation Final Report

Location: Sugar Creek, Ohio Accident Number: CEN11CA660

Date & Time: August 30, 2011, 20:48 Local Registration: N7103M

Aircraft: Cessna 175 Aircraft Damage: Substantial

Defining Event: Loss of engine power (partial) **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that the airplane's engine began to run rough during level flight, with about a 70 percent power setting. He switched fuel tanks and applied carburetor heat, but the airplane's engine continued to run rough. The pilot initiated a forced landing to a cornfield during night light conditions. Postaccident examinations of the airplane revealed that the firewall was buckled. No anomalies were found with regard to the airplane, engine, or systems during the postaccident examinations. According to the Federal Aviation Administration icing probability chart, the airplane was operating in conditions conducive to carburetor icing at the time of the accident.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's delayed application of carburetor heat while operating in conditions conducive to carburetor icing.

Findings

Environmental issues Conducive to carburetor icing - Contributed to outcome

Personnel issues Delayed action - Pilot

Factual Information

History of Flight

Enroute-cruise	Loss of engine power (partial) (Defining event)
Landing	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	25,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	March 26, 2010
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 21, 2011
Flight Time:	79 hours (Total, all aircraft), 79 hours (Total, this make and model), 23 hours (Pilot In Command, all aircraft), 9 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N7103M
Model/Series:	175	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	55403
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	March 18, 2011 Annual	Certified Max Gross Wt.:	2350 lbs
Time Since Last Inspection:	36 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1955 Hrs as of last inspection	Engine Manufacturer:	CONT MOTOR
ELT:	Installed, not activated	Engine Model/Series:	GO-300 SERIES
Registered Owner:	On file	Rated Power:	175 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Visual (VMC)	Condition of Light:	Night
PHD,894 ft msl	Distance from Accident Site:	25 Nautical Miles
20:53 Local	Direction from Accident Site:	140°
Clear	Visibility	10 miles
None	Visibility (RVR):	
/	Turbulence Type Forecast/Actual:	/
	Turbulence Severity Forecast/Actual:	/
30.12 inches Hg	Temperature/Dew Point:	18°C / 16°C
No Obscuration; No Precipitation		
New Philadelphi, OH (PHD)	Type of Flight Plan Filed:	Unknown
New Philadelphi, OH (PHD)	Type of Clearance:	None
19:40 Local	Type of Airspace:	
	PHD,894 ft msl 20:53 Local Clear None / 30.12 inches Hg No Obscuration; No Precipital New Philadelphi, OH (PHD) New Philadelphi, OH (PHD)	PHD,894 ft msl Distance from Accident Site: 20:53 Local Direction from Accident Site: Clear Visibility None Visibility (RVR): / Turbulence Type Forecast/Actual: Turbulence Severity Forecast/Actual: 30.12 inches Hg Temperature/Dew Point: No Obscuration; No Precipitation New Philadelphi, OH (PHD) Type of Flight Plan Filed: New Philadelphi, OH (PHD) Type of Clearance:

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:	40.761943,-81.713058

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Administrative Information

Investigator In Charge (IIC):	Brannen, John	
Additional Participating Persons:	Kevin Abbuhl; FAA - Ceveland FSDO; Cleveland, OH	
Original Publish Date:	November 22, 2011	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=81854	

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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