



Aviation Investigation Final Report

Location: Pembroke Pines, Florida Accident Number: ERA12CA348

Date & Time: May 19, 2012, 12:20 Local Registration: N2610W

Aircraft: Mooney M20C Aircraft Damage: Substantial

Defining Event: Fuel exhaustion **Injuries:** 1 Minor, 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that the airplane had flown about 4 hours, 25 minutes, including two takeoffs and climbs, since its last fueling. When the airplane was about 3 miles from the destination airport at 1,200 feet above ground level, the engine lost all power. The fuel selector was positioned to the left main fuel tank when the power loss occurred. The pilot moved the selector to the right main fuel tank, but the engine did not regain power. The pilot then performed a forced landing to a road. During the landing, he veered left to avoid an automobile and the left wing impacted a median. The airplane spun 180 degrees and came to rest upright. Postaccident examination of the wreckage revealed no evidence of mechanical malfunctions or failure that would have precluded normal operation; however, there was impact-related damage to both wings. The left main fuel tank was intact and did not contain any fuel. Although the top of the right main fuel tank had been compromised, there was no evidence that fuel had leaked from that tank. About 1/2 gallon of fuel was found in the right main fuel tank.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's improper fuel management, which resulted in a total loss of engine power during approach due to fuel exhaustion.

Findings

Personnel issues	Fuel planning - Pilot
Aircraft	Fuel - Fluid management

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Factual Information

History of Flight

Approach-VFR pattern downwind	Fuel exhaustion (Defining event)
Approach-VFR pattern downwind	Loss of engine power (total)
Emergency descent	Off-field or emergency landing
Emergency descent	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Commercial	Age:	68,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	March 23, 2012
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 24, 2010
Flight Time:	4000 hours (Total, all aircraft), 200 hours (Total, this make and model), 3000 hours (Pilot In Command, all aircraft), 5 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N2610W
Model/Series:	M20C	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	3290
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	May 18, 2012 Annual	Certified Max Gross Wt.:	2575 lbs
Time Since Last Inspection:	5 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2904 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, aided in locating accident	Engine Model/Series:	O-360
Registered Owner:	MCCONNELL WILLIAM R	Rated Power:	180 Horsepower
Operator:	MCCONNELL WILLIAM R	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	HWO,8 ft msl	Distance from Accident Site:	3 Nautical Miles
Observation Time:	11:53 Local	Direction from Accident Site:	180°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	Broken / 3000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.95 inches Hg	Temperature/Dew Point:	28°C / 21°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Athens, GA (AHN)	Type of Flight Plan Filed:	None
Destination:	Pembroke Pines, FL (HWO)	Type of Clearance:	None
Departure Time:	08:10 Local	Type of Airspace:	

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Airport Information

Airport:	North Perry Airport HWO	Runway Surface Type:	
Airport Elevation:	8 ft msl	Runway Surface Condition:	
Runway Used:		IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 1 None	Latitude, Longitude:	26.001111,-80.240554(est)

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Administrative Information

Investigator In Charge (IIC):	Gretz, Robert
Additional Participating Persons:	Frank Donovan; FAA/FSDO; Miramar, FL
Original Publish Date:	October 15, 2012
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=83709

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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