



National Transportation Safety Board Aviation Accident Data Summary

Location:	Marshalltown, IA	Accident Number:	CEN14LA472
Date & Time:	09/01/2014, 1740 CST	Registration:	N419B
Aircraft:	OHLGREN BRENT E RV-6A	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot said he visually checked and verified that the right wing fuel tank was just under half full and that the left wing fuel tank was just over half full prior to takeoff. As the airplane approached the destination, about 190 nm from the departure airport, the pilot decided to conduct a practice visual approach. Shortly after turning onto final approach, the engine lost power. After employing emergency procedures, the pilot was able to restore power and climbed the airplane to 3,100 feet. He then checked the fuel gauges, which both indicated one-eighth full. The engine then lost power a second time. The pilot made a forced landing in a bean field, and the airplane nosed over. During postaccident examination, no fuel sloshing could be heard when the wings were rocked; both wing fuel caps were then removed from the inverted airplane and no fuel leaked out. The airplane was righted, and when the master switch was turned on, the left fuel gauge was one needle-width above empty and the right fuel gauge indicated empty. The integrity of the fuel tanks appeared to be intact, and no fuel leaked from the tanks. No fuel was visible in either fuel tank. No fuel was recovered when the left and right wing fuel sump drains were removed. After adding fuel, the engine was started and ran at idle power until it was shut down.

Flight Events

Maneuvering - Fuel exhaustion
Emergency descent - Off-field or emergency landing
Landing - Nose over/nose down

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:
A loss of engine power due to fuel exhaustion as a result of the pilot's misjudgment of the amount of fuel onboard prior to flight.

Findings

Aircraft-Fluids/misc hardware-Fluids-Fuel-Not serviced/maintained - C
Personnel issues-Action/decision-Info processing/decision-Decision making/judgment-Pilot - C
Personnel issues-Task performance-Inspection-Preflight inspection-Pilot - C

Pilot Information

Certificate:	Private	Age:	31
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	(Estimated) 164 hours (Total, all aircraft), 36 hours (Total, this make and model), 116 hours (Pilot In Command, all aircraft), 17 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	OHLGREN BRENT E	Registration:	N419B
Model/Series:	RV-6A	Engines:	1 Reciprocating
Operator:	STONE JASON M	Engine Manufacturer:	LYCOMING
Air Carrier Operating Certificate:	None	Engine Model/Series:	O-360-C1G
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KMIW, 975 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	
Condition of Light:	Day	Wind Speed/Gusts, Direction:	14 knots, 290°
Temperature:	25°C / 17°C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	Tea, SD (Y14)	Destination:	Marshalltown, IA (KMIW)

Airport Information

Airport:	Marshalltown Municipal (LMIW)	Runway Surface Type:	N/A
Runway Used:	N/A	Runway Surface Condition:	Unknown
Runway Length/Width:			

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	Arnold W Scott	Adopted Date:	02/11/2015
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=90003		

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