



National Transportation Safety Board Aviation Accident Final Report

Location:	Fairview, TN	Accident Number:	NYC08CA002
Date & Time:	10/03/2007, 1248 CDT	Registration:	N7751N
Aircraft:	Piper PA-28-180	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot of the Piper PA-28-180 had been flying for about 3 hours 35 minutes when the engine lost power due to fuel exhaustion, and he performed a forced landing to trees. The airplane impacted 50-foot tall trees prior to striking the ground. The pilot reported that he had topped-off the airplane's fuel tanks, which had a total capacity of 44 gallons of usable fuel prior to the flight. He leaned the fuel mixture during the flight, and expected the airplane to have an endurance of 4.6 hours. Examination of the wreckage and accident site did not reveal any evidence that either fuel tank contained an appreciable amount of fuel at impact. The pilot reported 94 hours of total flight experience; which included about 13 hours in the same make and model as the accident airplane.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A loss of engine power due to fuel exhaustion.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL
Phase of Operation: CRUISE - NORMAL

Findings

1. (C) FLUID,FUEL - EXHAUSTION

Occurrence #2: FORCED LANDING
Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: EMERGENCY LANDING

Findings

2. OBJECT - TREE(S)

Factual Information

Pilot Information

Certificate:	Private	Age:	42, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With Waivers/Limitations	Last Medical Exam:	04/01/2007
Occupational Pilot:		Last Flight Review or Equivalent:	05/01/2007
Flight Time:	94 hours (Total, all aircraft), 13 hours (Total, this make and model), 31 hours (Pilot In Command, all aircraft), 13 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Piper	Registration:	N7751N
Model/Series:	PA-28-180	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	28-5196
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	02/01/2007, Annual	Certified Max Gross Wt.:	2440 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3350 Hours	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O-360
Registered Owner:	Robert J. Krause	Rated Power:	180 hp
Operator:	Stephen R. Pomeroy	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	BNA, 599 ft msl	Observation Time:	1253 CDT
Distance from Accident Site:	25 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	75°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Scattered / 4600 ft agl	Temperature/Dew Point:	28° C / 17° C
Lowest Ceiling:	Broken / 20000 ft agl	Visibility	10 Miles
Wind Speed/Gusts, Direction:	5 knots, 200°	Visibility (RVR):	
Altimeter Setting:	30.04 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Shreveport, LA (DTN)	Type of Flight Plan Filed:	VFR
Destination:	Gallatin, TN (M33)	Type of Clearance:	None
Departure Time:	0913 CDT	Type of Airspace:	

Airport Information

Airport:	Gallatin (M33)	Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:	NA	IFR Approach:	Unknown
Runway Length/Width:		VFR Approach/Landing:	Unknown

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	Luke Schiada	Adopted Date:	12/20/2007
Additional Participating Persons:	Charles W Jones; FAA/FSDO; Nashville, TN		
Publish Date:			
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	NTSB accident and incident docket serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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