



Aviation Investigation Final Report

Location: Hood River, Oregon Accident Number: GAA17CA331

Date & Time: June 11, 2017, 16:30 Local Registration: N8578L

Aircraft: Piper PA25 Aircraft Damage: Substantial

Defining Event: Fuel exhaustion **Injuries:** 1 Minor

Flight Conducted Under: Part 91: General aviation - Glider tow

Analysis

The glider tow pilot reported that, during preflight, the fuel indicator read "2/3 full" and he had a "brief discussion" with the previous pilot who had just completed numerous glider tow flights without refueling. He added that a fuel dipstick was not available, and a visual check of the fuel quantity was not completed during preflight. He further added that on the 10th glider tow flight, which was about 2 hours of flight time, he noted a "low fuel indication in flight just prior to glider release." Subsequently, the glider released and during the return to the airport, about 2 nautical miles from the runway and about 1,900 above ground, the engine lost power.

The pilot reported that due to the quartering headwind aloft he did not believe he could make the runway, so he attempted to land on an open pasture, but struck trees and impacted terrain about "50 yards short of [the] pasture."

The fuselage, elevator, and both wings sustained substantial damage.

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

Probable Cause and Findings

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

The pilot's failure to visually check the fuel level prior to takeoff and subsequent mismanagement of the available fuel supply during numerous glider tow flights.

Findings

Personnel issues Preflight inspection - Pilot

Personnel issues Fuel planning - Pilot

Aircraft Fuel - Inadequate inspection

Aircraft Fuel - Fluid level

Environmental issues Tree(s) - Contributed to outcome

Page 2 of 5 GAA17CA331

Factual Information

History of Flight

Prior to flight	Aircraft inspection event	
Enroute-descent	Fuel exhaustion (Defining event)	
Enroute-descent	Other weather encounter	
Enroute-descent	Collision with terr/obj (non-CFIT)	

Pilot Information

Certificate:	Commercial	Age:	55,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Single
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	September 15, 2016
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	June 30, 2016
Flight Time:	(Estimated) 317.6 hours (Total, all aircraft), 7.6 hours (Total, this make and model), 255.8 hours (Pilot In Command, all aircraft), 18.7 hours (Last 90 days, all aircraft), 9.6 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Page 3 of 5 GAA17CA331

Aircraft and Owner/Operator Information

Piper	Registration:	N8578L
PA25 260	Aircraft Category:	Airplane
1969	Amateur Built:	
Normal	Serial Number:	25-5004
Tailwheel	Seats:	1
June 9, 2017 Annual	Certified Max Gross Wt.:	2900 lbs
	Engines:	1 Reciprocating
13229.82 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
Not installed	Engine Model/Series:	O-540-G1A5
	Rated Power:	260 Horsepower
	Operating Certificate(s) Held:	None
	PA25 260 1969 Normal Tailwheel June 9, 2017 Annual 13229.82 Hrs as of last inspection	PA25 260 Aircraft Category: 1969 Amateur Built: Normal Serial Number: Tailwheel Seats: June 9, 2017 Annual Certified Max Gross Wt.: Engines: 13229.82 Hrs as of last inspection Not installed Engine Model/Series: Rated Power: Operating Certificate(s)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	K4S2,638 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	23:35 Local	Direction from Accident Site:	140°
Lowest Cloud Condition:	Scattered / 11000 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	7 knots / 15 knots	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	280°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.9 inches Hg	Temperature/Dew Point:	20°C / 8°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Hood River, OR (4S2)	Type of Flight Plan Filed:	None
Destination:	Hood River, OR (4S2)	Type of Clearance:	None
Departure Time:	16:30 Local	Type of Airspace:	Class G

Page 4 of 5 GAA17CA331

Airport Information

Airport: KEN JERNSTEDT AIRFIELD 4S2 Runway Surface Type:

Airport Elevation:638 ft mslRunway Surface Condition:DryRunway Used:IFR Approach:None

Runway Length/Width: VFR Approach/Landing: Forced landing

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:	45.665,-121.52111(est)

Administrative Information

Investigator In Charge (IIC):	Gerhardt, Adam
Additional Participating Persons:	Bruce Stephanson; FAA/ FSDO; Portland, OR
Original Publish Date:	September 10, 2018
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=95350

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.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

Page 5 of 5 GAA17CA331