



# Aviation Investigation Final Report

<b>Location:</b>	Fayetteville, Arkansas	<b>Accident Number:</b>	GAA19CA177
<b>Date &amp; Time:</b>	March 24, 2019, 10:30 Local	<b>Registration:</b>	N815PB
<b>Aircraft:</b>	Champion 7EC	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Aerodynamic stall/spin	<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot of the float-equipped airplane reported that, during takeoff from a private lake, the float plane did not "climb as the day before." Upon reaching the end of the lake, he "pulled up hard" on the yoke to avoid power lines, but the "left wing [stalled]," and the float plane impacted the ground.

The float plane sustained substantial damage to both wings and the fuselage.

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

The pilot added that, about the time of the accident, the wind was from 190° at 12 knots, gusting to 21 knots. An automated weather observation station about 5 nautical miles from the accident site reported that, about the time of the accident, the wind was from 190° at 11 knots. The airplane departed the lake with a 180° heading.

## Probable Cause and Findings

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

The pilot's exceedance of the airplane's critical angle of attack during takeoff as he attempted to avoid power lines, which resulted in an aerodynamic stall.

## Findings

<b>Aircraft</b>	Angle of attack - Capability exceeded
<b>Personnel issues</b>	Aircraft control - Pilot
<b>Environmental issues</b>	Wire - Contributed to outcome

## Factual Information

### History of Flight

Initial climb	Abrupt maneuver
Initial climb	Aerodynamic stall/spin (Defining event)
Initial climb	Collision with terr/obj (non-CFIT)

### Pilot Information

Certificate:	Private	Age:	55,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	October 5, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 8, 2019
Flight Time:	(Estimated) 1250 hours (Total, all aircraft), 25 hours (Total, this make and model), 1250 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Champion	<b>Registration:</b>	N815PB
<b>Model/Series:</b>	7EC 453	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1956	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	7EC453
<b>Landing Gear Type:</b>	Tricycle; Float	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	March 16, 2018 Annual	<b>Certified Max Gross Wt.:</b>	1474 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	6700 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	C91 installed, not activated	<b>Engine Model/Series:</b>	N235-C1
<b>Registered Owner:</b>		<b>Rated Power:</b>	115 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KFYV, 1259 ft msl	<b>Distance from Accident Site:</b>	5 Nautical Miles
<b>Observation Time:</b>	15:53 Local	<b>Direction from Accident Site:</b>	291°
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	Broken / 12 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	11 knots /	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	190°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	30.04 inches Hg	<b>Temperature/Dew Point:</b>	16°C / 13°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Fayetteville, AR	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Fayetteville, AR	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	10:30 Local	<b>Type of Airspace:</b>	Class G

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Minor	<b>Latitude, Longitude:</b>	35.979999,-94.069999(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Nepomuceno, Eleazar
<b>Additional Participating Persons:</b>	Nathan Bradshaw; FAA; Little Rock, AR
<b>Original Publish Date:</b>	November 6, 2019
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=99166">https://data.nts.gov/Docket?ProjectID=99166</a>

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