



Aviation Investigation Final Report

Location:	Oshkosh, Wisconsin	Accident Number:	CEN18CA291
Date & Time:	July 23, 2018, 09:50 Local	Registration:	N1666R
Aircraft:	Quad City Challenger	Aircraft Damage:	Substantial
Defining Event:	Loss of control in flight	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The airplane was landing on the ultralight field when the accident occurred. The pilot stated that she made a wide base to final turn because she was unsure about the placement of the runway. Although the pilot added power, the airplane entered a left descending turn until the left wing contacted the ground near the beginning of the runway's displaced threshold. The airplane then spun left and slid rearward on the ground until it contacted a chain-link fence.

The pilot reported that there were no mechanical anomalies with the airplane that would have precluded normal operation. The pilot's statement, along with a ground-based video of the accident, revealed that the pilot failed to maintain adequate airspeed and exceeded the airplane's critical angle of attack during the base to final turn, which resulted in an aerodynamic stall.

Probable Cause and Findings

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

The pilot's failure to maintain adequate airspeed during the base to final turn and his exceedance of the airplane's critical angle of attack, which resulted in an aerodynamic stall.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	(general) - Not attained/maintained
Environmental issues	Fence/fence post - Contributed to outcome

Factual Information

History of Flight

Approach-VFR pattern final	Loss of control in flight (Defining event)
Uncontrolled descent	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Flight instructor; Private	Age:	50,Female
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	Sport pilot	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	September 27, 2016
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 11, 2016
Flight Time:	874 hours (Total, all aircraft), 299 hours (Total, this make and model), 798 hours (Pilot In Command, all aircraft), 50 hours (Last 90 days, all aircraft), 18 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Quad City	Registration:	N1666R
Model/Series:	Challenger II	Aircraft Category:	Airplane
Year of Manufacture:	2008	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	CH2-0899-1897
Landing Gear Type:		Seats:	
Date/Type of Last Inspection:	July 15, 2018 Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	
Airframe Total Time:	348 Hrs	Engine Manufacturer:	
ELT:	Installed, not activated	Engine Model/Series:	
Registered Owner:		Rated Power:	
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KOSH, 782 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	09:53 Local	Direction from Accident Site:	9°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	Broken / 5000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.96 inches Hg	Temperature/Dew Point:	22°C / 17°C
Precipitation and Obscuration:			
Departure Point:	Wautoma, WI (Y50)	Type of Flight Plan Filed:	None
Destination:	Oshkosh, WI (OSH)	Type of Clearance:	None
Departure Time:	09:15 Local	Type of Airspace:	

Airport Information

Airport:	Wittman Rgnl OSH	Runway Surface Type:	Grass/turf
Airport Elevation:	808 ft msl	Runway Surface Condition:	Dry
Runway Used:	33	IFR Approach:	None
Runway Length/Width:	1200 ft / 100 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	43.966945,-88.560836

Administrative Information

Investigator In Charge (IIC): Sullivan, Pamela

Additional Participating Persons:

Original Publish Date: March 18, 2019

Note: This accident report documents the factual circumstances of this accident as described to the NTSB.

Investigation Docket: <https://data.nts.gov/Docket?ProjectID=97856>

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](#).