



# Aviation Investigation Final Report

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<b>Location:</b>	Blairesville, Georgia	<b>Accident Number:</b>	GAA19CA373
<b>Date &amp; Time:</b>	May 19, 2019, 13:00 Local	<b>Registration:</b>	N153SW
<b>Aircraft:</b>	Flight Design CTSW	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control in flight	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

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## Analysis

The pilot reported that, while on approach for landing on runway 26, the wind was reported to be from 240° at 8 knots. One second later, the wind shifted and was from 180° at 6 knots. The pilot flew the final approach with a left crosswind and crossed the threshold at 50 knots. As he leveled the airplane and was about to touch down at 45 knots, the airplane lifted about 7 ft, and the nose pitched up 20°. The pilot pushed the control stick forward and began to add power, but the airplane "violently slammed" onto the runway, and the left main landing gear collapsed. He added full right rudder and aileron to keep the airplane on the runway, but it veered left into tall grass. The airplane sustained substantial damage to the firewall and engine mount.

## 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 airplane control during landing in gusting crosswind conditions, which resulted in a hard landing and landing gear collapse.

## Findings

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<b>Personnel issues</b>	Aircraft control - Pilot
<b>Aircraft</b>	(general) - Not attained/maintained
<b>Environmental issues</b>	Gusts - Effect on operation
<b>Environmental issues</b>	Crosswind - Effect on operation

## Factual Information

### History of Flight

<b>Approach-VFR pattern final</b>	Other weather encounter
<b>Landing-flare/touchdown</b>	Loss of control in flight (Defining event)
<b>Landing-flare/touchdown</b>	Attempted remediation/recovery
<b>Landing-flare/touchdown</b>	Hard landing
<b>Landing-flare/touchdown</b>	Landing gear collapse
<b>Landing-flare/touchdown</b>	Loss of control on ground
<b>Landing-flare/touchdown</b>	Runway excursion

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	70, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Unknown
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 With waivers/limitations	<b>Last FAA Medical Exam:</b>	August 1, 2010
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	(Estimated)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Flight Design	<b>Registration:</b>	N153SW
<b>Model/Series:</b>	CTSW No Series	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	2007	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Experimental light sport (Special)	<b>Serial Number:</b>	07-06-10
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	Unknown	<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	Rotax
<b>ELT:</b>		<b>Engine Model/Series:</b>	912 ULS
<b>Registered Owner:</b>	White Falcon LLC	<b>Rated Power:</b>	
<b>Operator:</b>	White Falcon LLC	<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>	KDZJ, 1909 ft msl	<b>Distance from Accident Site:</b>	1 Nautical Miles
<b>Observation Time:</b>	16:55 Local	<b>Direction from Accident Site:</b>	111°
<b>Lowest Cloud Condition:</b>	Scattered / 5000 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	9 knots / 14 knots	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	200°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	30.09 inches Hg	<b>Temperature/Dew Point:</b>	26°C / 15°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Sanford, NC (TTA )	<b>Type of Flight Plan Filed:</b>	VFR
<b>Destination:</b>	Hazel Green, AL (M38 )	<b>Type of Clearance:</b>	VFR flight following
<b>Departure Time:</b>		<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	Blairsville DZJ	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	1907 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	26	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5004 ft / 100 ft	<b>VFR Approach/Landing:</b>	Full stop

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None	<b>Latitude, Longitude:</b>	34.854442,-83.997222(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Nepomuceno, Eleazar
<b>Additional Participating Persons:</b>	Danny Cox; FAA; Atlanta, GA
<b>Original Publish Date:</b>	September 21, 2020
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<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=99713">https://data.nts.gov/Docket?ProjectID=99713</a>

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