



# Aviation Investigation Final Report

<b>Location:</b>	Sallisaw, Oklahoma	<b>Accident Number:</b>	GAA18CA485
<b>Date &amp; Time:</b>	August 4, 2018, 11:00 Local	<b>Registration:</b>	N707TM
<b>Aircraft:</b>	Cessna 172	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

According to the student pilot, during a solo flight in the traffic pattern, the airplane encountered a wind gust from the left during the landing roll. The airplane exited the left side of the runway and collided with a drainage culvert located about 100 ft east of the runway. The airplane's ground speed at the time of the collision was about 15 mph.

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

The airplane sustained substantial damage to the right-wing spar.

The METAR for the airport reported that, about the time of the accident, the wind was from 150° at 3 knots, and the skies were clear. No gusts were reported.

## Probable Cause and Findings

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

The student pilot's loss of directional control during the landing roll.

## Findings

<b>Personnel issues</b>	Aircraft control - Student/instructed pilot
<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Environmental issues</b>	Airport structure - Contributed to outcome

## Factual Information

### History of Flight

Landing-landing roll	Other weather encounter
Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Runway excursion
Landing-landing roll	Collision with terr/obj (non-CFIT)

### Pilot Information

Certificate:	Student	Age:	39,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 3 None	Last FAA Medical Exam:	April 17, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 25 hours (Total, all aircraft), 25 hours (Total, this make and model), 25 hours (Last 90 days, all aircraft), 12 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N707TM
Model/Series:	172 H	Aircraft Category:	Airplane
Year of Manufacture:	1966	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	17255665
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	July 31, 2018 Annual	Certified Max Gross Wt.:	2300 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	2881 Hrs at time of accident	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	O-300
Registered Owner:		Rated Power:	145 Horsepower
Operator:		Operating Certificate(s) Held:	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>	KJSV, 528 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	18:35 Local	<b>Direction from Accident Site:</b>	172°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	3 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	150°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.04 inches Hg	<b>Temperature/Dew Point:</b>	33°C / 17°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Fort Smith, AR (FSM )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Sallisaw, OK (JSV )	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	10:30 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	Sallisaw Muni JSV	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	527 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	17	<b>IFR Approach:</b>	Global positioning system;RNAV
<b>Runway Length/Width:</b>	4006 ft / 75 ft	<b>VFR Approach/Landing:</b>	Touch and go;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<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 None	<b>Latitude, Longitude:</b>	35.438331,-94.803054(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Hicks, Michael
<b>Additional Participating Persons:</b>	Renee Almond ; FAA; Oklahoma City, OK
<b>Original Publish Date:</b>	September 26, 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=98058">https://data.nts.gov/Docket?ProjectID=98058</a>

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