



# Aviation Investigation Final Report

<b>Location:</b>	Akron, Colorado	<b>Accident Number:</b>	GAA19CA165
<b>Date &amp; Time:</b>	March 12, 2019, 16:00 Local	<b>Registration:</b>	N418DE
<b>Aircraft:</b>	Cirrus SR20	<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 - Instructional		

## Analysis

The student pilot reported that, during his first solo flight in the pattern, he aborted the first landing because he was uncomfortable with the airplane's runway alignment. During the subsequent approach, the airplane was crabbed slightly to the right. He recalled that, just before the airplane touched down, he applied left rudder, and that, upon touchdown, the airplane bounced. The airplane exited the left side of the runway and collided with a drainage culvert and nosed over.

The airplane sustained substantial damage to the empennage.

The student reported that there were no preaccident mechanical malfunctions or failures with the airplane that would have precluded normal operation. He added that the wind at the time of the accident was calm.

## Probable Cause and Findings

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

The student pilot's failure to maintain directional control during landing, which resulted in a runway excursion and collision with a drainage culvert.

## Findings

<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Student/instructed pilot
<b>Environmental issues</b>	Airport structure - Effect on operation

## Factual Information

### History of Flight

<b>Landing-flare/touchdown</b>	Abnormal runway contact
<b>Landing-landing roll</b>	Loss of control on ground (Defining event)
<b>Landing-flare/touchdown</b>	Runway excursion
<b>Landing-landing roll</b>	Collision with terr/obj (non-CFIT)
<b>Landing-landing roll</b>	Nose over/nose down

### Student pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	61,Male
<b>Airplane Rating(s):</b>	None	<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 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	October 12, 2018
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	(Estimated) 65.4 hours (Total, all aircraft), 42.7 hours (Total, this make and model), 1 hours (Pilot In Command, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cirrus	<b>Registration:</b>	N418DE
<b>Model/Series:</b>	SR20 No Series	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	2018	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	2428
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	5
<b>Date/Type of Last Inspection:</b>	February 8, 2019 Annual	<b>Certified Max Gross Wt.:</b>	3150 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	456.8 Hrs at time of accident	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	C126 installed, activated, aided in locating accident	<b>Engine Model/Series:</b>	IO-390-C3B6
<b>Registered Owner:</b>		<b>Rated Power:</b>	215 Horsepower
<b>Operator:</b>		<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>	KAKO, 4621 ft msl	<b>Distance from Accident Site:</b>	1 Nautical Miles
<b>Observation Time:</b>	15:53 Local	<b>Direction from Accident Site:</b>	156°
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29.59 inches Hg	<b>Temperature/Dew Point:</b>	18°C / 3°C
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	Denver, CO (APA )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Akron, CO (AKO )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	15:30 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	Colorado Plains Rgnl AKO	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	4715 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	29	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	7001 ft / 100 ft	<b>VFR Approach/Landing:</b>	Full stop;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>	40.175556,-103.221946(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Hicks, Michael
<b>Additional Participating Persons:</b>	Michael Aubry; FAA; Denver, CA
<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=99103">https://data.nts.gov/Docket?ProjectID=99103</a>

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