

# **Aviation Investigation Final Report**

Location: WATKINS, Colorado Accident Number: DEN88LA173

Date & Time: August 3, 1988, 12:28 Local Registration: N195RC

Aircraft: CESSNA 195B Aircraft Damage: Substantial

**Defining Event:** 1 Serious, 1 None

Flight Conducted Under: Part 91: General aviation - Instructional

### **Analysis**

THE NEW OWNER OF THE ACFT WAS RECEIVING FLT TRAINING FROM AN INSTRUCTOR (CFI) & THEY WERE PRACTICING LANDINGS. DRG A LANDING ROLL-OUT, THE ACFT BEGAN TO VEER TO THE RIGHT. THE CFI TOOK THE CONTROLS TO AVOID RUNNING OFF THE RWY, THEN TOOK OFF & FLEW ANOTHER PATTERN. ON FINAL APCH, THE STUDENT TOOK THE CONTROLS AGAIN TO MAKE THE NEXT LANDING. DURING THE ROLL-OUT, THE AIRPLANE AGAIN STARTED A SHARP RIGHT TURN. THE CFI RPRTD THAT FULL LEFT RUDDER & BRAKE DID NOT STOP THE TURN & THE ACFT DEPARTED THE RUNWAY TO THE RIGHT. THE LEFT MAIN GEAR COLLAPSED AS THE ACFT WENT OFF THE RWY. ALSO, THE LEFT WING, ELEVATOR, FUSELAGE & CABIN AREA WERE DAMAGED. THE CFI NOTED THAT THE OWNER WAS OF SMALL STATURE & THE SEAT HEIGHT WAS NOT ADJUSTABLE. THE CFI HAD WARNED THE OWNER THAT THE 'CLEVELAND BRAKES' WERE VERY POWERFUL & EFFICIENT.HE BELIEVED THE OWNER MAY HAVE INADVERTENTLY APPLIED RGT BRAKE WHILE APPLYING LEFT RUDDER.

### **Probable Cause and Findings**

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

#### **Findings**

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

### **Findings**

- 1. (C) DIRECTIONAL CONTROL NOT MAINTAINED DUAL STUDENT
- 2. (C) GROUND LOOP/SWERVE INADVERTENT DUAL STUDENT
- 3. (F) LACK OF FAMILIARITY WITH AIRCRAFT DUAL STUDENT
- 4. (C) SUPERVISION INADEQUATE PILOT IN COMMAND(CFI)

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Occurrence #2: MAIN GEAR COLLAPSED Phase of Operation: LANDING - ROLL

### **Findings**

5. (F) TERRAIN CONDITION - SOFT

6. LANDING GEAR, MAIN GEAR - OVERLOAD

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## **Factual Information**

### **Pilot Information**

Certificate:	Airline transport; Commercial; Flight engineer; Flight instructor	Age:	71,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical-w/ waivers/lim	Last FAA Medical Exam:	April 1, 1988
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	9391 hours (Total, all aircraft), 571 hours (Total, this make and model), 7341 hours (Pilot In Command, all aircraft), 35 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

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## **Aircraft and Owner/Operator Information**

Aircraft Make:	CESSNA	Registration:	N195RC
Model/Series:	195B 195B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	16102
Landing Gear Type:	Tailwheel	Seats:	5
Date/Type of Last Inspection:	January 29, 1988 Annual	Certified Max Gross Wt.:	3350 lbs
Time Since Last Inspection:	32 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3701 Hrs	Engine Manufacturer:	JACOBS
ELT:	Installed, not activated	Engine Model/Series:	R-755-B2
Registered Owner:	SAULS, NORRIS J., JR.	Rated Power:	275 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	DEN	Distance from Accident Site:	
Observation Time:	12:31 Local	Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Scattered / 8000 ft AGL	Visibility	25 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	27°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	(1W1)	Type of Flight Plan Filed:	None
Destination:	(APA)	Type of Clearance:	None
Departure Time:	11:55 Local	Type of Airspace:	Class G

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## **Airport Information**

Airport:	FRONT RANGE 1W1	Runway Surface Type:	Asphalt
Airport Elevation:	5486 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	26	IFR Approach:	None
Runway Length/Width:	8000 ft / 100 ft	VFR Approach/Landing:	Traffic pattern

### **Wreckage and Impact Information**

Crew Injuries:	1 Serious, 1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious, 1 None	Latitude, Longitude:	39.750766,-104.600959(est)

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#### **Administrative Information**

Investigator In Charge (IIC):	Collins, Robert	
Additional Participating Persons:	HERBERT F WILSON; AURORA , CO	
Original Publish Date:	July 3, 1989	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=17517	

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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