



# Aviation Investigation Final Report

<b>Location:</b>	Saratoga, Wyoming	<b>Accident Number:</b>	DEN06CA093
<b>Date &amp; Time:</b>	July 6, 2006, 07:20 Local	<b>Registration:</b>	N542EZ
<b>Aircraft:</b>	Cessna 305A	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

According to the pilot, during the takeoff roll the airplane "started veering to the left." The pilot reported that he "applied full right rudder and did not have any response to the directional control." The airplane departed runway 23 to the right. The right main landing gear assembly folded under the airplane fuselage and right wing impacted the ground resulting in substantial damage. An examination of the airplane's systems revealed no anomalies.

## 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 direction control during the takeoff roll.

## Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER  
Phase of Operation: TAKEOFF - ROLL/RUN

### Findings

1. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND  
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Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER  
Phase of Operation: TAKEOFF - ROLL/RUN

Findings

2. TERRAIN CONDITION - GROUND

## Factual Information

According to the Pilot Operator Aircraft Accident Report Form (6120.1/2) submitted by the pilot, during the takeoff roll the airplane "started veering to the left." The pilot reported that he "applied full right rudder and did not have any response to the directional control." The airplane departed runway 23 (8,800 feet by 100 feet, asphalt) to the right. The right main landing gear assembly folded under the airplane fuselage and right wing impacted the ground. The fuselage was wrinkled, and the right wing was crushed and bent aft. An examination of the airplane's systems revealed no anomalies.

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	57, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Front
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<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>	May 1, 2005
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	January 1, 2005
<b>Flight Time:</b>	900 hours (Total, all aircraft), 325 hours (Total, this make and model), 870 hours (Pilot In Command, all aircraft), 28 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft), 10 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N542EZ
<b>Model/Series:</b>	305A	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Utility	<b>Serial Number:</b>	22169
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	October 1, 2005 Annual	<b>Certified Max Gross Wt.:</b>	2100 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4978.4 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-470
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	230 Horsepower
<b>Operator:</b>	On file	<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>	RWL,6813 ft msl	<b>Distance from Accident Site:</b>	27 Nautical Miles
<b>Observation Time:</b>	06:53 Local	<b>Direction from Accident Site:</b>	330°
<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>	8 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	230°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.26 inches Hg	<b>Temperature/Dew Point:</b>	18°C / 8°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Saratoga, WY (SAA)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	GLENWOOD SPRING, CO (GWS)	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	07:20 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	SHIVELY FIELD SAA	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	7012 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	23	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	8800 ft / 100 ft	<b>VFR Approach/Landing:</b>	None

## 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>	41.434444,-106.817222

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Kaiser, Jennifer
<b>Additional Participating Persons:</b>	Bruce Hanson; FAA Flight Standards District Office; Casper, WY
<b>Original Publish Date:</b>	October 3, 2006
<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=64053">https://data.nts.gov/Docket?ProjectID=64053</a>

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