



# Aviation Investigation Final Report

<b>Location:</b>	Larimore, North Dakota	<b>Accident Number:</b>	CHI07CA019
<b>Date &amp; Time:</b>	October 29, 2006, 15:00 Local	<b>Registration:</b>	N149TM
<b>Aircraft:</b>	Aviat S2B	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The airplane nosed over after contacting soft terrain while landing. The pilot stated that he was landing on his private grass airstrip when the accident happened. He stated that he misjudged the runway and the right main gear contacted "very soft" dirt on the south edge of the runway during the landing roll. The pilot reported the airplane was traveling between 5 and 10 miles per hour when it nosed over.

## 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 proper alignment with the runway which resulted in the airplane nosing over. A factor associated with the accident was the soft terrain encountered.

## Findings

Occurrence #1: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER  
Phase of Operation: LANDING - ROLL

### Findings

1. (F) TERRAIN CONDITION - SOFT
  2. (C) PROPER ALIGNMENT - NOT MAINTAINED - PILOT IN COMMAND
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Occurrence #2: NOSE OVER  
Phase of Operation: LANDING - ROLL

## Factual Information

The airplane nosed over after contacting soft terrain while landing. The pilot stated that he was landing on his private grass airstrip when the accident happened. He stated that he misjudged the runway and the right main gear contacted "very soft" dirt on the south edge of the runway during the landing roll. The pilot reported the airplane was traveling between 5 and 10 miles per hour when it nosed over. The vertical stabilizer, rudder, one propeller blade, and a wing rib were damaged during the landing.

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	50, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	
<b>Instructor Rating(s):</b>		<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2	<b>Last FAA Medical Exam:</b>	April 1, 2005
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	3000 hours (Total, all aircraft), 80 hours (Total, this make and model), 150 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Aviat	<b>Registration:</b>	N149TM
<b>Model/Series:</b>	S2B	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Aerobatic	<b>Serial Number:</b>	5165
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	
<b>Date/Type of Last Inspection:</b>		<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>		<b>Engine Model/Series:</b>	AEIO-540
<b>Registered Owner:</b>	Roger A. Thompson	<b>Rated Power:</b>	
<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>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	
<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>		<b>Temperature/Dew Point:</b>	
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	Larimore, ND (PVT)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Larimore, ND	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>		<b>Type of Airspace:</b>	

## 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>	
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	47.906944,-97.640556

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Sullivan, Pamela
<b>Additional Participating Persons:</b>	Les Ellington; Fargo, ND FSDO
<b>Original Publish Date:</b>	February 26, 2007
<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=64968">https://data.nts.gov/Docket?ProjectID=64968</a>

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