



# Aviation Investigation Final Report

<b>Location:</b>	Alliance, Nebraska	<b>Accident Number:</b>	DFW08CA189
<b>Date &amp; Time:</b>	July 11, 2008, 19:15 Local	<b>Registration:</b>	N97484
<b>Aircraft:</b>	Stinson 108-1	<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

The 67-hour private pilot lost control of the single engine tailwheel airplane on the initial take-off roll on runway 08 during a planned training flight in the traffic pattern. The pilot stated that as the airplane accelerated, the tailwheel raised off the ground, and the airplane began to weather vane to the left. He then reduced engine power in an attempt to abort the takeoff, but the airplane continued to move to the left side of the runway. The pilot applied full right rudder and used differential braking in an attempt to stay on the runway. The airplane departed the left side of the runway and encountered a ditch in the grass. The propeller contacted the ground, abruptly stopped the engine, and the airplane nosed over coming to rest in the inverted position. The pilot was not injured and was able to egress unassisted. Winds at the time were reported to be 030 degrees at 18 knots with gusts to 24 knots.

## 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 directional control on takeoff. Contributing to the accident was a lack of total experience.

## Findings

<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Personnel issues</b>	Total experience - Pilot



## Factual Information

### History of Flight

<b>Takeoff</b>	Loss of control on ground (Defining event)
<b>Takeoff</b>	Runway excursion

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	30, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<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 2 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	January 1, 2006
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	November 1, 2007
<b>Flight Time:</b>	67 hours (Total, all aircraft), 9 hours (Total, this make and model), 36 hours (Pilot In Command, all aircraft), 4 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Stinson	<b>Registration:</b>	N97484
<b>Model/Series:</b>	108-1	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	108-484
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	July 1, 2008 Annual	<b>Certified Max Gross Wt.:</b>	2150 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	Franklin
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	64A-165-133
<b>Registered Owner:</b>	Last Pass Aviation	<b>Rated Power:</b>	165 Horsepower
<b>Operator:</b>	Cory L. Huber	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>	Personal Flight	<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KAIA,3931 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	18:53 Local	<b>Direction from Accident Site:</b>	0°
<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>	18 knots / 24 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	30°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.02 inches Hg	<b>Temperature/Dew Point:</b>	24°C / 2°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Alliance, NE (KAIA)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Alliance, NE	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	19:00 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	Alliance Municipal Airport KAIA	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	3931 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	08	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	6200 ft / 75 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>		<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>	42.036945,-102.786941

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Gamble, William
<b>Additional Participating Persons:</b>	James Sazama; FAA FSDO; Lincoln, NE
<b>Original Publish Date:</b>	September 26, 2008
<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=68460">https://data.nts.gov/Docket?ProjectID=68460</a>

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