



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	Murphysboro, IL	<b>Accident Number:</b>	CEN13CA151
<b>Date &amp; Time:</b>	02/01/2013, 1400 CST	<b>Registration:</b>	N546A
<b>Aircraft:</b>	CESSNA 172	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Runway excursion	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

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## Analysis

The private pilot was attempting a soft field takeoff on a paved runway. He advanced the throttle to the full forward position and applied full back pressure on the flight controls to begin the takeoff roll. However, the airplane veered to the left. The pilot tried to counteract the veer by applying right rudder and when that was unsuccessful, elected to reject the takeoff. The airplane's horizontal stabilizer was substantially damaged when the airplane exited the runway and struck a frangible airport sign. Postaccident examination revealed no mechanical malfunctions or anomalies with the airplane that would have precluded normal operation.

## 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 control of the airplane during the takeoff roll.

## Findings

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<b>Aircraft</b>	Directional control - Not attained/maintained (Cause)
<b>Personnel issues</b>	Incorrect action performance - Pilot (Cause)

## Factual Information

### History of Flight

Takeoff-rejected takeoff	Attempted remediation/recovery Runway excursion (Defining event)
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### Pilot Information

Certificate:	Private	Age:	27, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Without Waivers/Limitations	Last Medical Exam:	02/28/2012
Occupational Pilot:	No	Last Flight Review or Equivalent:	04/25/2012
Flight Time:	167 hours (Total, all aircraft), 38 hours (Total, this make and model), 66 hours (Pilot In Command, all aircraft), 21 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N546A
Model/Series:	172 R	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal; Utility	Serial Number:	17281594
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	12/11/2012, Annual	Certified Max Gross Wt.:	2450 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	213 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O360
Registered Owner:	Southern Illinois University	Rated Power:	160 hp
Operator:	Southern Illinois University	Air Carrier Operating Certificate:	None
Operator Does Business As:		Operator Designator Code:	BNZM

## Meteorological Information and Flight Plan

Observation Facility, Elevation:	kmdh, 411 ft msl	Observation Time:	1352 CST
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:		Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	-2 °C / -16 °C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	5 knots, 290°	Visibility (RVR):	
Altimeter Setting:	30.44 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Precipitation		
Departure Point:	Carbondale, IL (MDH)	Type of Flight Plan Filed:	None
Destination:	Carbondale, IL (MDH)	Type of Clearance:	VFR
Departure Time:	1400 CST	Type of Airspace:	

## Airport Information

Airport:	Southern Illinois Airport (MDH)	Runway Surface Type:	Asphalt
Airport Elevation:	411 ft	Runway Surface Condition:	Dry
Runway Used:	18R	IFR Approach:	None
Runway Length/Width:	3498 ft / 60 ft	VFR Approach/Landing:	None

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None		

## Administrative Information

Investigator In Charge (IIC):	Joshua D Lindberg	Adopted Date:	04/10/2013
Additional Participating Persons:	Stephanie Williams; Federal Aviation Administration; Springfield, IL		
Publish Date:	04/10/2013		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	<a href="http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=86146">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=86146</a>		

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