



National Transportation Safety Board Aviation Accident Final Report

Location:	Wabash, IN	Accident Number:	CEN11CA004
Date & Time:	10/01/2010, 1830 EDT	Registration:	N2140E
Aircraft:	CESSNA 172N	Aircraft Damage:	Substantial
Defining Event:	Landing area overshoot	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

The certificated flight instructor (CFI) and student had been practicing touch-and-go landings and were planning a full-stop landing. The airplane touched down on the grass airstrip slightly faster than normal and approximately 100 feet beyond the approach end of the runway. The CFI took authority of the airplane's controls and applied brakes. As the airplane approached the end of the runway, the CFI applied left rudder to avoid a ditch in front of the airplane. Subsequently, the right main landing gear went into the ditch and the airplane flipped over. Postaccident examination of the airplane revealed that the vertical stabilizer and rudder were bent. The CFI reported that there were no preimpact mechanical anomalies with the airplane. He further stated that they should have landed on the adjacent asphalt runway or performed a go-around after overshooting the final approach leg during the landing.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The student pilot's failure to maintain proper airspeed during the landing and certificated flight instructor's failure to execute a go-around.

Findings

Aircraft	Airspeed - Not attained/maintained (Cause)
Personnel issues	Decision making/judgment - Instructor/check pilot (Cause)

Factual Information

History of Flight

Landing	Landing area overshoot (Defining event)
Landing-landing roll	Collision with terr/obj (non-CFIT)

Flight Instructor Information

Certificate:	Flight Instructor; Commercial	Age:	74, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Single-engine; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	12/01/2009
Occupational Pilot:		Last Flight Review or Equivalent:	09/25/2009
Flight Time:	9240 hours (Total, all aircraft), 3000 hours (Total, this make and model), 8925 hours (Pilot In Command, all aircraft), 50 hours (Last 90 days, all aircraft), 16 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Student Pilot Information

Certificate:	Student	Age:	60, Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With Waivers/Limitations	Last Medical Exam:	09/23/2010
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	7 hours (Total, all aircraft), 7 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N2140E
Model/Series:	172N	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	17271168
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	01/12/2010, 100 Hour	Certified Max Gross Wt.:	2300 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	12701 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-320 SERIES
Registered Owner:	NORTHERN INDIANA AVIATION LLC	Rated Power:	180 hp
Operator:	On file	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:		Observation Time:	
Distance from Accident Site:		Condition of Light:	Day
Direction from Accident Site:		Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	18° C / 13° C
Lowest Ceiling:	None	Visibility	30 Miles
Wind Speed/Gusts, Direction:	12 knots, 350°	Visibility (RVR):	
Altimeter Setting:	30 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Wabash, IN (IWH)	Type of Flight Plan Filed:	None
Destination:	Wabash, IN (IWH)	Type of Clearance:	None
Departure Time:	1800 EDT	Type of Airspace:	

Airport Information

Airport:	Wabash Municipal Airport (IWH)	Runway Surface Type:	Grass/turf
Airport Elevation:	796 ft	Runway Surface Condition:	Dry
Runway Used:	36	IFR Approach:	Visual
Runway Length/Width:	1938 ft / 50 ft	VFR Approach/Landing:	Full Stop

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None		

Administrative Information

Investigator In Charge (IIC):	Aaron M Sauer	Adopted Date:	03/16/2011
Additional Participating Persons:	Daniel T Sedberry; Federal Aviation Administration; Indianapolis, IN		
Publish Date:	03/16/2011		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=77493		

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