



# National Transportation Safety Board Aviation Accident Data Summary

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<b>Location:</b>	McMinnville, OR	<b>Accident Number:</b>	GAA16CA011
<b>Date &amp; Time:</b>	10/01/2015, 2010 PDT	<b>Registration:</b>	N20488
<b>Aircraft:</b>	CESSNA 172M	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

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## Analysis

The student pilot reported that on his first night training flight he was practicing takeoffs and landings. He stated that during his third approach, as he was turning from base to final, the precision approach path indicator (PAPI) displayed four red lights, indicating that he was below the recommended approach path. The flight instructor told him that he was too low and to add power. The student pilot added power and the far left PAPI light started to turn from red to white. He reported that on short final, he reduced engine power to idle and that during touchdown, the airplane collided with a runway threshold light. The airplane sustained substantial damage to horizontal stabilizer spar.

The flight instructor reported no preimpact mechanical failures or malfunctions with the airframe or engine that would have precluded normal operation.

## Flight Events

Approach-VFR pattern final - Altitude deviation  
Landing-flare/touchdown - Collision during takeoff/land

## Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The flight instructor's failure to correct the student pilot's approach path during the final approach, which resulted in a collision with runway threshold lights. Contributing to the accident was the student pilot's failure to attain and maintain the recommended approach path.

## Findings

Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Descent/approach/glide path-Not attained/maintained - C  
Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Descent/approach/glide path-Not attained/maintained - F  
Personnel issues-Action/decision-Action-Lack of action-Instructor/check pilot - C  
Personnel issues-Task performance-Use of equip/info-Aircraft control-Student/instructed pilot - F  
Personnel issues-Action/decision-Info processing/decision-Decision making/judgment-Instructor/check pilot

## Student Pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	42
<b>Airplane Rating(s):</b>	None	<b>Instrument Rating(s):</b>	None
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	(Estimated) 43 hours (Total, all aircraft), 3.8 hours (Total, this make and model), 3.7 hours (Pilot In Command, all aircraft)		

## Flight Instructor Information

<b>Certificate:</b>	Flight Instructor; Commercial	<b>Age:</b>	63
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	Glider	<b>Instructor Rating(s):</b>	Airplane Single-engine; Instrument Airplane
<b>Flight Time:</b>	(Estimated) 1520 hours (Total, all aircraft), 522 hours (Total, this make and model), 1445 hours (Pilot In Command, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Manufacturer:</b>	CESSNA	<b>Registration:</b>	N20488
<b>Model/Series:</b>	172M	<b>Engines:</b>	1 Reciprocating
<b>Operator:</b>	DAVID F WAGGONER	<b>Engine Manufacturer:</b>	LYCOMING
<b>Air Carrier Operating Certificate:</b>	None	<b>Engine Model/Series:</b>	O-320-E2D
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

## Meteorological Information and Flight Plan

<b>Observation Facility, Elevation:</b>	KMMV, 159 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Lowest Ceiling:</b>	None
<b>Condition of Light:</b>	Night	<b>Wind Speed/Gusts, Direction:</b>	5 knots, 220°
<b>Temperature:</b>	17° C / 12° C	<b>Visibility</b>	10 Miles
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	AURORA, OR (UAO)	<b>Destination:</b>	McMinnville, OR (MMV)

## Airport Information

<b>Airport:</b>	MC MINNVILLE MUNI (MMV)	<b>Runway Surface Type:</b>	Asphalt
<b>Runway Used:</b>	22	<b>Runway Surface Condition:</b>	Dry
<b>Runway Length/Width:</b>	5420 ft / 150 ft		

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None

## Administrative Information

Investigator In Charge (IIC):	Bradley M Bigelow	Adopted Date:	11/05/2015
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=92147">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=92147</a>		

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