



# Aviation Investigation Final Report

<b>Location:</b>	Madras, Oregon	<b>Accident Number:</b>	GAA19CA169
<b>Date &amp; Time:</b>	March 15, 2019, 13:00 Local	<b>Registration:</b>	N64895
<b>Aircraft:</b>	Cessna 152	<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 - Instructional		

## Analysis

The student pilot reported that, following his first solo flight in the traffic pattern, the airplane's nose was pointed left of the runway centerline during touchdown, and the airplane bounced. The student further reported that the flight school has a "bounce and go" policy, so he applied full throttle and aborted the landing. The airplane continued to the left, the nose landing gear collided with a snow berm on the left side of the runway, and the airplane nosed over.

The airplane sustained substantial damage to the left wing.

The student reported that there were no preaccident mechanical malfunctions or failures 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 student pilot's failure to maintain directional control during the aborted landing, which resulted in a collision with a snow berm and a subsequent nose-over.

## Findings

<b>Personnel issues</b>	Aircraft control - Student/instructed pilot
<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Environmental issues</b>	Snow/ice - Effect on operation

## Factual Information

### History of Flight

<b>Landing</b>	Abnormal runway contact
<b>Landing</b>	Loss of control on ground (Defining event)
<b>Landing</b>	Collision with terr/obj (non-CFIT)
<b>Landing</b>	Nose over/nose down

### Pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	24
<b>Airplane Rating(s):</b>	None	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	3-point
<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 With waivers/limitations	<b>Last FAA Medical Exam:</b>	November 6, 2018
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	(Estimated) 40 hours (Total, all aircraft), 40 hours (Total, this make and model), 27 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N64895
<b>Model/Series:</b>	152 No Series	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1978	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Utility	<b>Serial Number:</b>	15281461
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	February 3, 2019 100 hour	<b>Certified Max Gross Wt.:</b>	1670 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	23022.1 Hrs at time of accident	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	C126 installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-235-L2C
<b>Registered Owner:</b>		<b>Rated Power:</b>	115 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	Pilot school (141)

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KRDM,3084 ft msl	<b>Distance from Accident Site:</b>	25 Nautical Miles
<b>Observation Time:</b>	12:50 Local	<b>Direction from Accident Site:</b>	178°
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	4 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.4 inches Hg	<b>Temperature/Dew Point:</b>	9°C / -2°C
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	Redmond, OR (RDM )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Redmond, OR (RDM )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	11:50 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	Madras Municipal S33	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	2436 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	34	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5089 ft / 75 ft	<b>VFR Approach/Landing:</b>	Touch and go

## 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>	44.670276,-121.155281(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Hicks, Michael
<b>Additional Participating Persons:</b>	Darren Vaughn ; FAA; Portland, OR
<b>Original Publish Date:</b>	November 6, 2019
<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=99125">https://data.nts.gov/Docket?ProjectID=99125</a>

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