



# Aviation Investigation Final Report

<b>Location:</b>	Cambridge, Minnesota	<b>Accident Number:</b>	CEN20CA298
<b>Date &amp; Time:</b>	July 21, 2020, 16:20 Local	<b>Registration:</b>	N2943C
<b>Aircraft:</b>	Cessna 180	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

## Analysis

The pilot and flight instructor conducted an instructional flight in a single-engine tailwheel airplane. The pilot had recently purchased the airplane and needed a tailwheel endorsement. After some ground instruction, they performed taxi and high-speed taxi operations in the airplane. They then flew to another airport, where they performed six take-off and landings to a full stop on a grass runway. En route back to their original airport, they stopped at another airport which had a grass runway and performed another seven takeoffs and landings. They then returned to the original airport, where the pilot completed a landing and takeoff from an asphalt runway. During the final landing to runway 34, the airplane bounced, and bounced a second time, before the airplane ground looped. The airplane came to rest inverted beside the runway, and substantial damage was noted to the airplane's empennage and wing. A review of the weather conditions about the time of the accident noted wind at 220 deg; at 5 kts. Using runway 34, the airplane would have experienced a slight quartering tailwind condition during landing.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's loss of directional control while landing a tailwheel airplane with a slight left quartering a tailwind. Contributing to the accident was the flight instructor's delayed remedial action.

## Findings

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<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot
<b>Personnel issues</b>	Aircraft control - Instructor/check pilot
<b>Personnel issues</b>	Delayed action - Instructor/check pilot

## Factual Information

### History of Flight

<b>Landing-flare/touchdown</b>	Loss of control on ground (Defining event)
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### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	48
<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>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	May 14, 2019
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	June 24, 2020
<b>Flight Time:</b>	529 hours (Total, all aircraft), 17.2 hours (Total, this make and model), 480 hours (Pilot In Command, all aircraft), 72 hours (Last 90 days, all aircraft), 13 hours (Last 30 days, all aircraft), 2.2 hours (Last 24 hours, all aircraft)		

### Flight instructor Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	70
<b>Airplane Rating(s):</b>	Single-engine land; Single-engine sea	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	3-point
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane single-engine	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	July 31, 2019
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	July 7, 2020
<b>Flight Time:</b>	6200 hours (Total, all aircraft), 45 hours (Total, this make and model), 5933 hours (Pilot In Command, all aircraft), 70 hours (Last 90 days, all aircraft), 46 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N2943C
<b>Model/Series:</b>	180 Undesignat	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1954	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	30843
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	
<b>Date/Type of Last Inspection:</b>	October 1, 2019 Annual	<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	3800 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-470 SERIES
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KCBG	<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>	15:55 Local	<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Scattered / 3300 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	220°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29.86 inches Hg	<b>Temperature/Dew Point:</b>	26°C / 18°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Cambridge, MN (CBG )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Cambridge, MN (CBG )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>		<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	Cambridge Municipal CBG	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	945 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	34	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	4001 ft / 75 ft	<b>VFR Approach/Landing:</b>	Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 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>	2 None	<b>Latitude, Longitude:</b>	45.558055,-93.264442(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Hatch, Craig
<b>Additional Participating Persons:</b>	Nick Halatsis ; FAA FSDO; Minneapolis , MN
<b>Original Publish Date:</b>	May 6, 2021
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class 4</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=101650">https://data.nts.gov/Docket?ProjectID=101650</a>

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