

Aviation Investigation Final Report

Location: Sidney, Montana Accident Number: GAA16CA492

Date & Time: September 10, 2016, 13:00 Local Registration: N8335A

Aircraft: Cessna 170 Aircraft Damage: Substantial

Defining Event: Landing gear collapse **Injuries:** 3 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

The flight instructor reported that, during the instructional flight in a tailwheel-equipped airplane, the student pilot bounced the landing. The airplane bounced off the grass airstrip, and the flight instructor took the flight controls, but the airplane drifted to the left and into a drainage ditch. The flight instructor reported that he corrected with right rudder application to ease the airplane out of the ditch, but the left landing gear tire deflated, and the left wing and the tail struck the ground. The airplane yawed to the left, the instructor corrected the yaw, and the airplane rolled onto the runway and stopped. The left wing, left aileron, and the elevator sustained substantial damage.

The flight instructor reported that there were no preaccident mechanical malfunctions or anomalies with the airplane that would have prevented 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 improper landing flare, which resulted in a bounced landing, and the flight instructor's inability to recover the airplane, which resulted in a runway excursion.

Findings

Personnel issues	Aircraft control - Student/instructed pilot	
Personnel issues	Aircraft control - Instructor/check pilot	
Aircraft	Landing flare - Not attained/maintained	
Aircraft	Directional control - Not attained/maintained	

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Factual Information

History of Flight

Landing-flare/touchdown	Runway excursion
Landing-landing roll	Landing gear collapse (Defining event)
Landing-landing roll	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	52,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	October 15, 2014
Occupational Pilot:	No Last Flight Review or Equivalent: November 8, 2014		
Flight Time:	(Estimated) 15000 hours (Total, all aircraft), 50 hours (Total, this make and model), 13000 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

Student pilot Information

Certificate:	Student	Age:	44,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	February 16, 2016
Occupational Pilot:	No Last Flight Review or Equivalent:		
Flight Time:	(Estimated) 60 hours (Total, all aircraft), 6 hours (Total, this make and model), 18 hours (Pilot In Command, all aircraft), 40 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft)		

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Passenger Information

Certificate:		Age:	Male
Airplane Rating(s):		Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	Lap only
Instrument Rating(s):		Second Pilot Present:	Yes
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N8335A
Model/Series:	170 B	Aircraft Category:	Airplane
Year of Manufacture:	1952	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	25187
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	July 26, 2016 Annual	Certified Max Gross Wt.:	2200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3089 Hrs as of last inspection	Engine Manufacturer:	CONTINENTAL
ELT:	C91 installed, not activated	Engine Model/Series:	C-145-2
Registered Owner:		Rated Power:	145 Horsepower
Operator:		Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KSDY,1980 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	18:56 Local	Direction from Accident Site:	32°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	14 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	190°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.95 inches Hg	Temperature/Dew Point:	22°C / 7°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	Poplar, MT (P01)	Type of Flight Plan Filed:	None
Destination:	Sidney, MT (SDY)	Type of Clearance:	VFR
Departure Time:	12:10 Local	Type of Airspace:	Class G

Airport Information

Airport:	SIDNEY-RICHLAND MUNICIPAL AIRP SDY	Runway Surface Type:	Grass/turf
Airport Elevation:	1985 ft msl	Runway Surface Condition:	Dry;Rough
Runway Used:	29	IFR Approach:	None
Runway Length/Width:	4024 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	47.706943,-104.192497(est)

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Administrative Information

Investigator In Charge (IIC): Hicks, Michael

Additional Participating Persons: Troy Meskimen; FAA; Helena, MT

Original Publish Date: April 4, 2017

Note: This accident report documents the factual circumstances of this accident as described to

the NTSB.

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=94031

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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