



Aviation Investigation Final Report

Location: Colorado Springs, Colorado Accident Number: GAA18CA433

Date & Time: July 22, 2018, 11:30 Local Registration: N99243

Aircraft: Cessna 172 Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

The student pilot reported that, during a check ride and a short-field landing in gusting crosswind conditions, the touchdown was normal, but the airplane quickly veered right. He added that he and the designated pilot examiner applied left rudder to no avail. The airplane exited the runway to the right, the right main landing gear struck a taxiway sign, and the airplane came to rest in the grass adjacent to the taxiway.

The airplane sustained substantial damage to the right horizontal stabilizer.

The Federal Aviation Administration inspector conducted a postaccident examination. He reported that the rudder system appeared normal and functioned properly. He added that there were no pre-existing mechanical conditions that could have caused the accident.

The automated weather observation station located on the airport reported that, about the time of the accident, the wind was from 50° at 11 knots, gusting to 21 knots. The airplane landed on runway 33.

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 landing in gusting crosswind conditions.

Findings

Aircraft Directional control - Not attained/maintained

Personnel issues Aircraft control - Student/instructed pilot

Environmental issues Gusts - Effect on operation

Environmental issues Crosswind - Effect on operation

Environmental issues Sign/marker - Contributed to outcome

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Factual Information

History of Flight

Landing	Other weather encounter
Landing	Loss of control on ground (Defining event)
Landing	Attempted remediation/recovery
Landing	Runway excursion
Landing	Collision with terr/obj (non-CFIT)

Student pilot Information

Certificate:	Student	Age:	65,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	March 16, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 130 hours (Total, all aircraft), 108 hours (Total, this make and model), 36 hours (Pilot In Command, all aircraft), 21 hours (Last 90 days, all aircraft), 11 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Check pilot Information

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Certificate:	Airline transport; Commercial; Flight instructor	Age:	74,Female
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 With waivers/limitations	Last FAA Medical Exam:	March 7, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:			

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Aircraft and Owner/Operator Information

Cessna	Registration:	N99243
172 P	Aircraft Category:	Airplane
1985	Amateur Built:	
Normal	Serial Number:	17276418
Tricycle	Seats:	4
July 8, 2018 100 hour	Certified Max Gross Wt.:	2400 lbs
	Engines:	1 Reciprocating
	Engine Manufacturer:	Lycoming
Installed, not activated	Engine Model/Series:	0-320-D2J
	Rated Power:	160
On file	Operating Certificate(s) Held:	None
	172 P 1985 Normal Tricycle July 8, 2018 100 hour	172 P Aircraft Category: 1985 Amateur Built: Normal Serial Number: Tricycle Seats: July 8, 2018 100 hour Certified Max Gross Wt.: Engines: Engine Manufacturer: Installed, not activated Engine Model/Series: Rated Power: On file Operating Certificate(s)

Meteorological Information and Flight Plan

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Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KFLY,6874 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	17:35 Local	Direction from Accident Site:	349°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	11 knots / 21 knots	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	50°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.3 inches Hg	Temperature/Dew Point:	32°C / 4°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Colorado Springs, CO (FLY)	Type of Flight Plan Filed:	None
Destination:	Colorado Springs, CO (FLY)	Type of Clearance:	VFR
Departure Time:	09:58 Local	Type of Airspace:	Class G

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Airport Information

Airport:	MEADOW LAKE FLY	Runway Surface Type:	Asphalt
Airport Elevation:	6873 ft msl	Runway Surface Condition:	Dry
Runway Used:	33	IFR Approach:	None
Runway Length/Width:	6000 ft / 60 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	38.940555,-104.568611(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Michael Anderson; FAA; Denver, CO
Original Publish Date:	March 18, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=97853

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.

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