



National Transportation Safety Board Aviation Accident Final Report

Location:	Boise, ID	Accident Number:	GAA16CA215
Date & Time:	05/01/2016, 1700 MDT	Registration:	N5700R
Aircraft:	CESSNA 172	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that during the landing flare he encountered a left quartering tailwind and the airplane started to drift to the right. The pilot further reported that during the landing roll the airplane veered to the left off the runway and ground looped.

The right elevator was substantially damaged.

The pilot did not report any 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 pilot's decision to land with a quartering tailwind and failure to maintain directional control during the landing roll, which resulted in a runway excursion and ground loop.

Findings

Aircraft	Directional control - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Pilot (Cause) Decision making/judgment - Pilot (Cause)
Environmental issues	Tailwind - Ability to respond/compensate

Factual Information

History of Flight

Landing-flare/touchdown	Other weather encounter
Landing-landing roll	Loss of control on ground (Defining event) Runway excursion Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	27, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	02/26/2013
Occupational Pilot:	No	Last Flight Review or Equivalent:	08/10/2015
Flight Time:	(Estimated) 288.5 hours (Total, all aircraft), 8.3 hours (Total, this make and model), 238.9 hours (Pilot In Command, all aircraft), 7.7 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N5700R
Model/Series:	172 F	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	17253350
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	02/02/2016, Annual	Certified Max Gross Wt.:	2300 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4981.8 Hours	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	O-360-A3A
Registered Owner:	PATRICK ANDREW S.	Rated Power:	180 hp
Operator:	On file	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KBOI, 2871 ft msl	Observation Time:	2253 UTC
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	0°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	21° C / 3° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	7 knots, 290°	Visibility (RVR):	
Altimeter Setting:	30.04 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Boise, ID (BOI)	Type of Flight Plan Filed:	None
Destination:	Boise, ID (BOI)	Type of Clearance:	VFR
Departure Time:	1650 MDT	Type of Airspace:	Class C

Airport Information

Airport:	BOISE AIR TERMINAL/GOWEN FLD (BOI)	Runway Surface Type:	Asphalt
Airport Elevation:	2871 ft	Runway Surface Condition:	Dry
Runway Used:	10R	IFR Approach:	None
Runway Length/Width:	9763 ft / 150 ft	VFR Approach/Landing:	Stop and Go; Traffic Pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None		

Administrative Information

Investigator In Charge (IIC):	Adam M Gerhardt	Adopted Date:	06/15/2016
Additional Participating Persons:	Dan Frandson; FAA; Boise, ID		
Publish Date:	06/15/2016		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=93101		

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