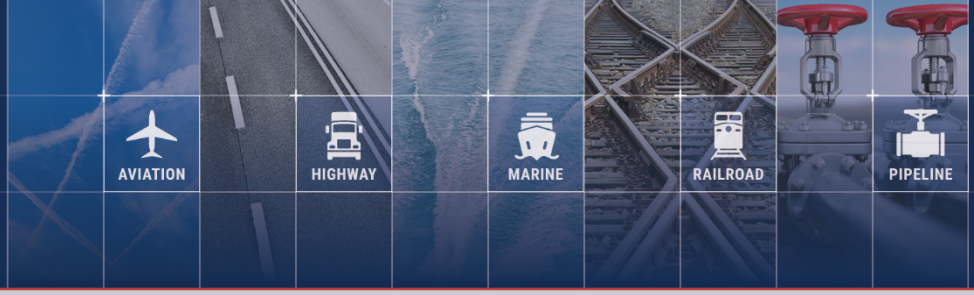

Aviation Investigation Final Report

Location:	Fairbank's, Alaska	**Accident Number:**	WPR22LA289
Date & Time:	July 28, 2022, 18:17 Local	**Registration:**	N4493B
Aircraft:	Cessna 170B	**Aircraft Damage:**	Substantial
Defining Event:	Loss of control on ground	**Injuries:**	3 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The student pilot in the tailwheel equipped airplane reported that, during the takeoff ground roll he did not apply enough right rudder input to compensate for the propellers asymmetric blade effect. The airplane veered off the left side of the runway and ground looped. The right wing and horizontal stabilizer were substantially damaged. The pilot reported that there were no preaccident mechanical failures or malfunctions 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 takeoff roll.

Findings

Aircraft	Directional control - Not attained/maintained
Personnel issues	Aircraft control - Student/instructed pilot

Factual Information

History of Flight

Takeoff	Loss of control on ground (Defining event)

Pilot Information

Certificate:	Student	**Age:**	48,Male
Airplane Rating(s):	None	**Seat Occupied:**	Left
Other Aircraft Rating(s):	None	**Restraint Used:**	4-point
Instrument Rating(s):	None	**Second Pilot Present:**	
Instructor Rating(s):	None	**Toxicology Performed:**	
Medical Certification:	Class 3 With waivers/limitations	**Last FAA Medical Exam:**	October 5, 2020
Occupational Pilot:	No	**Last Flight Review or Equivalent:**	
Flight Time:	153 hours (Total, all aircraft), 47 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	**Registration:**	N4493B
Model/Series:	170B	**Aircraft Category:**	Airplane
Year of Manufacture:	1955	**Amateur Built:**	
Airworthiness Certificate:	Normal	**Serial Number:**	26837
Landing Gear Type:	Tailwheel	**Seats:**	4
Date/Type of Last Inspection:	December 1, 2021 Annual	**Certified Max Gross Wt.:**	2200 lbs
Time Since Last Inspection:		**Engines:**	1 Reciprocating
Airframe Total Time:		**Engine Manufacturer:**	CONT MOTOR
ELT:	Installed	**Engine Model/Series:**	0-300 SER
Registered Owner:	On file	**Rated Power:**	145 Horsepower
Operator:	On file	**Operating Certificate(s) Held:**	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	**Condition of Light:**	Day
Observation Facility, Elevation:	PAFA,430 ft msl	**Distance from Accident Site:**	1 Nautical Miles
Observation Time:	17:53 Local	**Direction from Accident Site:**	214°
Lowest Cloud Condition:		**Visibility**	10 miles
Lowest Ceiling:	Broken / 5500 ft AGL	**Visibility (RVR):**	
Wind Speed/Gusts:	/	**Turbulence Type Forecast/Actual:**	None / None
Wind Direction:		**Turbulence Severity Forecast/Actual:**	N/A / N/A
Altimeter Setting:	30.07 inches Hg	**Temperature/Dew Point:**	18°C / 5°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Fairbank's , AK	**Type of Flight Plan Filed:**	None
Destination:	Fairbank's , AK	**Type of Clearance:**	None
Departure Time:		**Type of Airspace:**	Class D

Airport Information

Airport:	Fairbanks International Airport PAFA	**Runway Surface Type:**	Gravel
Airport Elevation:	439 ft msl	**Runway Surface Condition:**	Dry
Runway Used:	Ski 20	**IFR Approach:**	None
Runway Length/Width:	2900 ft / 75 ft	**VFR Approach/Landing:**	None

Wreckage and Impact Information

Crew Injuries:	1 None	**Aircraft Damage:**	Substantial
Passenger Injuries:	2 None	**Aircraft Fire:**	None
Ground Injuries:		**Aircraft Explosion:**	None
Total Injuries:	3 None	**Latitude, Longitude:**	64.815354,-147.85665

Administrative Information

Investigator In Charge (IIC):	Johnson, Scott
Additional Participating Persons:	Dustin Cook; Federal Aviation Administration; Fairbanks, AK
Original Publish Date:	December 8, 2022
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=105657