



# **Aviation Investigation Final Report**

Location: Lancaster, Pennsylvania Accident Number: ERA19CA148

Date & Time: April 8, 2019, 09:32 Local Registration: N68727

Aircraft: Cessna 152 Aircraft Damage: Substantial

**Defining Event:** Loss of control on ground **Injuries:** 1 Minor

Flight Conducted Under: Part 91: General aviation - Instructional

### **Analysis**

The student pilot was conducting solo touch-and-go landings and takeoffs. During the landing roll of the eighth touch-and-go landing, he retracted the flaps to 0° and applied full engine power for takeoff. The airplane began drifting "hard" to the left, and he applied right rudder; however, the airplane departed the left side of the runway, impacted a runway marker, and came to rest in a nose-down attitude. The airplane sustained substantial damage to the firewall. The student 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 takeoff, which resulted in a runway excursion and impact with a runway marker.

#### **Findings**

Aircraft Directional control - Not attained/maintained

Personnel issues Aircraft control - Student/instructed pilot

**Environmental issues** Sign/marker - Effect on operation

Page 2 of 5 ERA19CA148

# **Factual Information**

## **History of Flight**

Takeoff	Loss of control on ground (Defining event)	
Takeoff	Attempted remediation/recovery	
Takeoff	Runway excursion	
Takeoff	Collision during takeoff/land	

### **Student pilot Information**

Certificate:	Student	Age:	61,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	February 21, 2019
Occupational Pilot:	No Last Flight Review or Equivalent:		
Flight Time:	(Estimated) 57 hours (Total, all aircraft), 57 hours (Total, this make and model), 1 hours (Pilot In Command, all aircraft), 13 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft)		

Page 3 of 5 ERA19CA148

### **Aircraft and Owner/Operator Information**

Aircraft Make:	Cessna	Registration:	N68727
Model/Series:	152 No Series	Aircraft Category:	Airplane
Year of Manufacture:	1978	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	15282340
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	March 6, 2019 100 hour	Certified Max Gross Wt.:	1670 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	10963.4 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	0-235-L2C
Registered Owner:		Rated Power:	110 Horsepower
Operator:	On file	Operating Certificate(s) Held:	On-demand air taxi (135), Pilot school (141)

### **Meteorological Information and Flight Plan**

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Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	LNS,403 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	08:53 Local	Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	8 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.86 inches Hg	Temperature/Dew Point:	16°C / 13°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Lancaster, PA (LNS)	Type of Flight Plan Filed:	None
Destination:	Lancaster, PA (LNS)	Type of Clearance:	VFR
Departure Time:	08:45 Local	Type of Airspace:	Class D

Page 4 of 5 ERA19CA148

#### **Airport Information**

Airport:	LANCASTER LNS	Runway Surface Type:	Asphalt
Airport Elevation:	402 ft msl	<b>Runway Surface Condition:</b>	Dry;Wet
Runway Used:	13	IFR Approach:	None

Runway Length/Width: 4102 ft / 100 ft VFR Approach/Landing: Touch and go;Traffic

pattern

#### **Wreckage and Impact Information**

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	40.118888,-76.299446(est)

#### **Administrative Information**

Investigator In Charge (IIC):	Wentz, Peter
Additional Participating Persons:	William Gossley; FAA-FSDO; Harrisbury, PA
Original Publish Date:	August 25, 2020
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=99245

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 <a href="here">here</a>.

Page 5 of 5 ERA19CA148