

# **Aviation Investigation Final Report**

Location: Hillsboro, Oregon Accident Number: WPR23LA328

Date & Time: August 26, 2023, 17:10 Local Registration: N28841

Aircraft: Luscombe 8A 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 of the tailwheel-equipped airplane reported that, during the landing roll after the initial touch down, the airplane veered to the right. He applied excessive left rudder input to correct it, causing the airplane to oscillate left and right. The flight instructor attempted to regain the directional control, but his foot became caught. As the airplane decelerated and the oscillation increased, the airplane ground looped to the left, resulting in substantial damage to the right wing and aileron. The student 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 airplane control during the landing roll and the flight instructor's delayed remedial action, which resulted in a ground loop.

#### **Findings**

 Personnel issues
 Initial instruct/training - Student/instructed pilot

 Personnel issues
 Use of equip/system - Student/instructed pilot

 Aircraft
 Directional control - Not attained/maintained

Personnel issues Total experience w/ equipment - Student/instructed pilot

Personnel issues Delayed action - Instructor/check pilot

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## **Factual Information**

## **History of Flight**

Landing-landing roll	Loss of control on ground (Defining event)		
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#### **Pilot Information**

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Certificate:	Student	Age:	44,Male
Airplane Rating(s):	None	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:	
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	July 12, 2023
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	36 hours (Total, all aircraft), 5 hours (Total, this make and model), 7 hours (Pilot In Command, all aircraft), 5 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft)		

## Flight instructor Information

Certificate:	Commercial; Flight instructor	Age:	74,Male
Airplane Rating(s):	Single-engine land; 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 multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	March 29, 2023
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 22, 2022
Flight Time:	8420 hours (Total, all aircraft), 45 hours (Total, this make and model), 7646 hours (Pilot In Command, all aircraft), 130 hours (Last 90 days, all aircraft), 74 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

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

Aircraft Make:	Luscombe	Registration:	N28841
Model/Series:	8A	Aircraft Category:	Airplane
Year of Manufacture:	1940	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	1583
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	1260 lbs
Time Since Last Inspection:	10 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONT MOTOR
ELT:	Not installed	Engine Model/Series:	A&C65 SERIES
Registered Owner:	On file	Rated Power:	65 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:	KHIO,196 ft msl	Distance from Accident Site:	7 Nautical Miles
Observation Time:	16:53 Local	Direction from Accident Site:	355°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.9 inches Hg	Temperature/Dew Point:	33°C / 13°C
Precipitation and Obscuration:	Light - None - Smoke		
Departure Point:	Hillsboro, OR	Type of Flight Plan Filed:	None
Destination:	Hillsboro, OR	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

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## **Airport Information**

Airport:	Stark's Twin Oaks Airport 7S3	Runway Surface Type:	Asphalt
Airport Elevation:	170 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	02	IFR Approach:	None
Runway Length/Width:	2465 ft / 48 ft	VFR Approach/Landing:	Full stop

## Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	45.42845,-122.94215(est)

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#### **Administrative Information**

Investigator In Charge (IIC):	Rho, Paul
Additional Participating Persons:	Jon Ellingson; Federal Aviation Administration; Portland, OR
Original Publish Date:	April 19, 2024
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=192969

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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