



# **Aviation Investigation Final Report**

Location: Auburn, Indiana Accident Number: GAA17CA336

Date & Time: June 8, 2017, 13:00 Local Registration: N4543R

Aircraft: Piper PA 28 Aircraft Damage: Substantial

**Defining Event:** Runway excursion **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

#### **Analysis**

The pilot reported that he attempted to take off in the airplane from his turf airstrip. He attempted to force the airplane into the air, and after a brief ascent, the airplane descended to the ground and touched down hard. The pilot continued the sequence of lifting off and then touching down again until he determined that he would not be able to clear the trees at the end of the runway. He made a left turn, and the airplane traveled through two fields, hit a ditch, and collided with a barn. The airplane sustained substantial damage to both wings.

Per the National Transportation Safety Board Pilot Aircraft Accident Report, the pilot reported that the accident could have been prevented if he had aborted the takeoff after the first bounce.

The pilot reported that there were no preaccident 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 continue to attempt to take off despite the airplane's inability to attain a positive climb rate, which resulted in little runway remaining, and his subsequent decision to turn off the runway, which resulted in a collision with a barn.

# **Findings**

Personnel issues	Decision making/judgment - Pilot
Aircraft	Climb rate - Not attained/maintained
Environmental issues	Residence/building - Effect on operation

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# **Factual Information**

# **History of Flight**

Takeoff	Aerodynamic stall/spin
Takeoff	Abnormal runway contact
Takeoff	Runway excursion (Defining event)
Takeoff-rejected takeoff	Collision with terr/obj (non-CFIT)

### **Pilot Information**

Certificate:	Private	Age:	74,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
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:	July 29, 2016
Occupational Pilot:	No	Last Flight Review or Equivalent:	January 21, 2017
Flight Time:	(Estimated) 271 hours (Total, all aircraft), 77 hours (Total, this make and model)		

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

Aircraft Make:	Piper	Registration:	N4543R
Model/Series:	PA 28 140	Aircraft Category:	Airplane
Year of Manufacture:	1965	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	28-21248
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	September 5, 2016 Annual	Certified Max Gross Wt.:	2150 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	2871.8 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	C91 installed, activated, did not aid in locating accident	Engine Model/Series:	O-320-E2A
Registered Owner:		Rated Power:	150 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:	GWB	Distance from Accident Site:	
Observation Time:	16:55 Local	Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	70°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.02 inches Hg	Temperature/Dew Point:	22°C / 7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Auburn, IN (PVT )	Type of Flight Plan Filed:	None
Destination:	Auburn, IN (22IN)	Type of Clearance:	None
Departure Time:	13:00 Local	Type of Airspace:	Class G

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#### **Airport Information**

Airport:	Mooney Field 22IN	Runway Surface Type:	Grass/turf
Airport Elevation:	865 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	27	IFR Approach:	None
Runway Length/Width:	2000 ft / 50 ft	VFR Approach/Landing:	None

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

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	41.207221,-85.003334(est)

#### **Administrative Information**

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Ken Hughes; FAA; Grand Rapids, IN
Original Publish Date:	November 14, 2017
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=95360

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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