



Aviation Investigation Final Report

Location: Springfield, Ohio **Accident Number:** GAA17CA047

Date & Time: October 15, 2016, 11:00 Local Registration: N55378

Aircraft: Piper PA 34 Aircraft Damage: Substantial

Defining Event: Hard landing **Injuries:** 5 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that he landed with extra power to compensate for gusting wind. He added that, after the main landing gear touched down, the airplane encountered a wind gust and ballooned up about 50 to 100 ft. The pilot initiated a go-around but was unsuccessful. The airplane impacted the runway in a flat attitude, and the nose landing gear was pushed/driven through the top of the cowling.

The airplane sustained substantial damage to the fuselage.

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 inadequate compensation for gusting wind during the landing flare, which resulted in a hard landing.

Findings

Aircraft Landing flare - Not attained/maintained

Personnel issues Aircraft control - Pilot

Environmental issues Gusts - Response/compensation

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Factual Information

History of Flight

Landing-flare/touchdown	Other weather encounter
Landing	Attempted remediation/recovery
Landing	Hard landing (Defining event)

Pilot Information

Certificate:	Private	Age:	52,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	May 3, 2012
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 30, 2015
Flight Time:	(Estimated) 1000 hours (Total, all aircraft), 500 hours (Total, this make and model), 998 hours (Pilot In Command, all aircraft), 4 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Passenger Information

Certificate:		Age:	Male
Airplane Rating(s):		Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	3-point
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

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Passenger Information

Certificate:		Age:	Female
Airplane Rating(s):		Seat Occupied:	Center
Other Aircraft Rating(s):		Restraint Used:	Lap only
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Passenger Information

Certificate:		Age:	Male
Airplane Rating(s):		Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	Lap only
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Passenger Information

Certificate:		Age:	Male
Airplane Rating(s):		Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	Lap only
Instrument Rating(s):		Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

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Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N55378
Model/Series:	PA 34 200	Aircraft Category:	Airplane
Year of Manufacture:	1973	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	34-7350207
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	August 1, 2016 Annual	Certified Max Gross Wt.:	4200 lbs
Time Since Last Inspection:		Engines:	2 Reciprocating
Airframe Total Time:	4168.1 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	C91 installed, not activated	Engine Model/Series:	LIO-360-C1E6
Registered Owner:	On file	Rated Power:	200 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:	KSGH,1051 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	14:56 Local	Direction from Accident Site:	74°
Lowest Cloud Condition:	Few / 6000 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	200°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.21 inches Hg	Temperature/Dew Point:	18°C / 13°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	MUNCIE, IN (MIE)	Type of Flight Plan Filed:	None
Destination:	Springfield, OH (SGH)	Type of Clearance:	None
Departure Time:	10:30 Local	Type of Airspace:	Class G

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Airport Information

Airport:	SPRINGFIELD-BECKLEY MUNI SGH	Runway Surface Type:	Asphalt
Airport Elevation:	1051 ft msl	Runway Surface Condition:	Dry
Runway Used:	24	IFR Approach:	None
Runway Length/Width:	9009 ft / 150 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	4 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	5 None	Latitude, Longitude:	39.83889,-83.845001(est)

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Administrative Information

Investigator In Charge (IIC):	Vanover, Jackie
Additional Participating Persons:	Benjamin J Roller; FAA; Cincinnati, OH
Original Publish Date:	April 10, 2017
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=94284

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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