



Aviation Investigation Final Report

Location: DeKalb, Illinois Accident Number: CEN23LA193

Date & Time: May 19, 2023, 16:45 Local Registration: N442TM

Aircraft: Piper PA32RT Aircraft Damage: Substantial

Defining Event: Loss of control in flight **Injuries:** 3 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

The flight instructor reported that the pilot was receiving landing training in his airplane. As the airplane touched down on the runway, a gust of wind caused it to balloon. The flight instructor ordered the pilot to go around, and the airplane accelerated to 85 kts in a slight climb. About 25 feet above the ground the airplane abruptly and rapidly pitched over to about 20° nose low. The flight instructor immediately came on the control yoke and pulled but received no response to his pull. The airplane impacted the runway about 10° nose low and slid off the left side into the grass where it came to a stop. The pilot, flight instructor, and a passenger egressed the airplane without incident. The airplane sustained substantial damage to both wings. The flight instructor reported there were no preimpact mechanical malfunctions or failures with the airplane that would have precluded normal operation.

At the time of the accident the airplane was landing on runway 27 with wind 290° at 14 kts gusting to 19 kts.

The pilot reported that the nose dropped dramatically and that neither he nor the flight instructor had time to react with additional back pressure on the control yoke. The pilot said during the pitch over that his hands never left the control yoke.

The flight instructor further reported that light clear air turbulence was present at the time and "windshear caused our demise."

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's failure to maintain aircraft control during a go-around in gusting winds. Contributing was the presence of windshear.

Findings

Environmental issues	Windshear - Effect on equipment
Personnel issues	Aircraft control - Instructor/check pilot
Aircraft	Altitude - Not attained/maintained

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Factual Information

History of Flight

Approach-VFR pattern final	Simulated/training event
Approach-VFR pattern final	Other weather encounter
Approach-VFR go-around	Windshear or thunderstorm
Approach-VFR go-around	Attempted remediation/recovery
Approach-VFR go-around	Loss of control in flight (Defining event)
Approach-VFR go-around	Collision with terr/obj (non-CFIT)
Landing-flare/touchdown	Runway excursion

Flight instructor Information

Certificate:	Airline transport; Flight engineer; Flight instructor	Age:	76,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	
Medical Certification:	BasicMed None	Last FAA Medical Exam:	August 29, 2022
Occupational Pilot:	No	Last Flight Review or Equivalent:	May 22, 2023
Flight Time:	(Estimated) 24250 hours (Total, all aircraft), 30 hours (Total, this make and model), 16755 hours (Pilot In Command, all aircraft), 12 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft)		

Pilot Information

Certificate:	Private	Age:	60,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	BasicMed None	Last FAA Medical Exam:	May 1, 2023
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 1, 2023
Flight Time:	(Estimated) 231 hours (Total, all aircraft), 1 hours (Last 90 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N442TM
Model/Series:	PA32RT 300T	Aircraft Category:	Airplane
Year of Manufacture:	1978	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	32R-7887225
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	April 2, 2023 Annual	Certified Max Gross Wt.:	3600 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3180.48 Hrs as of last inspection	Engine Manufacturer:	Lycoming Engines
ELT:	Installed, not activated	Engine Model/Series:	TIO-540-S1AD
Registered Owner:	Rice Heritage Equipment, LLC	Rated Power:	300 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None
Operator Does Business As:	None	Operator Designator Code:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KDKB,915 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	16:35 Local	Direction from Accident Site:	315°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	16 knots / 20 knots	Turbulence Type Forecast/Actual:	None / Clear air
Wind Direction:	290°	Turbulence Severity Forecast/Actual:	N/A / Light
Altimeter Setting:	30.01 inches Hg	Temperature/Dew Point:	19°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	DeKalb, IL	Type of Flight Plan Filed:	None
Destination:	DeKalb, IL	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class E

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Airport Information

Airport:	DE KALB TAYLOR MUNI DKB	Runway Surface Type:	Concrete
Airport Elevation:	912 ft msl	Runway Surface Condition:	Dry
Runway Used:	27	IFR Approach:	None
Runway Length/Width:	4201 ft / 75 ft	VFR Approach/Landing:	Go around;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	41.929042,-88.704057(est)

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Administrative Information

Investigator In Charge (IIC):	Hodges, Michael
Additional Participating Persons:	Douglas Lewis; FAA Greater Chicago FSDO; Des Plaines, IL
Original Publish Date:	July 7, 2023
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=192212

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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