



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	Eolia, MO	<b>Accident Number:</b>	CEN20CA117
<b>Date &amp; Time:</b>	03/08/2020, 1630 CDT	<b>Registration:</b>	N7525W
<b>Aircraft:</b>	PIPER PA28-180	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Personal		

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## Analysis

The pilot reported that he was landing at his private airstrip and that the wind was strong and gusting. During the landing flare, the airplane bounced and then veered left. The airplane departed the runway, and the left wing struck a tree and separated, which resulted in substantial damage. The pilot stated 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 improper landing flare in gusting wind conditions, which resulted in a bounced landing, loss of directional control, runway excursion, and impact with a tree.

## Findings

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<b>Aircraft</b>	Landing flare - Not attained/maintained (Cause) Directional control - Not attained/maintained (Cause)
<b>Personnel issues</b>	Aircraft control - Pilot (Cause)
<b>Environmental issues</b>	Gusts - Effect on operation (Cause) Crosswind - Effect on operation (Cause)

## Factual Information

### History of Flight

Landing-flare/touchdown	Abnormal runway contact Loss of control on ground (Defining event) Runway excursion Collision with terr/obj (non-CFIT)
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### Pilot Information

Certificate:	Private	Age:	80, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 3 With Waivers/Limitations	Last FAA Medical Exam:	08/14/2019
Occupational Pilot:	No	Last Flight Review or Equivalent:	11/20/2019
Flight Time:	1407 hours (Total, all aircraft), 1390 hours (Total, this make and model), 1386 hours (Pilot In Command, all aircraft), 3 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N7525W
Model/Series:	PA28-180	Aircraft Category:	Airplane
Year of Manufacture:	1963	Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	28-1443
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	07/10/2019, 100 Hour	Certified Max Gross Wt.:	2400 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3200.94 Hours at time of accident	Engine Manufacturer:	Lycoming
ELT:	C91 installed, activated, did not aid in locating accident	Engine Model/Series:	O-360A3A
Registered Owner:	Klay Corp	Rated Power:	180 hp
Operator:	On file	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	STL, 618 ft msl	Distance from Accident Site:	37 Nautical Miles
Observation Time:	CDT	Direction from Accident Site:	132°
Lowest Cloud Condition:	Few / 15000 ft agl	Visibility	10 Miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	14 knots / 25 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	190°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.13 inches Hg	Temperature/Dew Point:	23° C / -8° C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Eolia, MO (MO35)	Type of Flight Plan Filed:	None
Destination:	Eolia, MO (MO35)	Type of Clearance:	None
Departure Time:	1530 CDT	Type of Airspace:	Class G

## Airport Information

Airport:	Harvey (MO35)	Runway Surface Type:	
Airport Elevation:	710 ft	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	1500 ft / 60 ft	VFR Approach/Landing:	Full Stop; Traffic Pattern

## Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	39.212778, -90.917222 (est)

## Administrative Information

Investigator In Charge (IIC):	Jennifer Rodi	Report Date:	06/29/2020
Additional Participating Persons:	Joel S Rich; Federal Aviation Administration; St Ann, MO		
Publish Date:	06/29/2020		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	<a href="http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=101059">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=101059</a>		

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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 [here](#).