



# Aviation Investigation Final Report

<b>Location:</b>	Kingston, Tennessee	<b>Accident Number:</b>	ERA23LA242
<b>Date &amp; Time:</b>	May 19, 2023, 15:00 Local	<b>Registration:</b>	N105GS
<b>Aircraft:</b>	GARY R BREARLEY RV-9A	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Abnormal runway contact	<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot reported that the airplane bounced upon landing and the nose landing gear impacted the turf runway. Subsequently, the nose landing gear dug into the runway and the airplane nosed over resulting in substantial damage to the fuselage, vertical stabilizer, and rudder. 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 improper landing flare and subsequent improper recovery from a bounced landing which resulted in a nose over.

## Findings

<b>Aircraft</b>	Landing flare - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot

## Factual Information

### History of Flight

Landing-flare/touchdown	Abnormal runway contact (Defining event)
Landing-flare/touchdown	Nose over/nose down

### Pilot Information

Certificate:	Private	Age:	75,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	5-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	June 14, 2022
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 4, 2022
Flight Time:	670 hours (Total, all aircraft), 170 hours (Total, this make and model), 670 hours (Pilot In Command, all aircraft), 16 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	GARY R BREARLEY	Registration:	N105GS
Model/Series:	RV-9A NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	2015	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	91280
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	September 1, 2022 Condition	Certified Max Gross Wt.:	1750 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	222.7 Hrs at time of accident	Engine Manufacturer:	LYCOMING
ELT:	C91 installed, not activated	Engine Model/Series:	O-320-B1A
Registered Owner:	On file	Rated Power:	160 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	TYS,980 ft msl	<b>Distance from Accident Site:</b>	21 Nautical Miles
<b>Observation Time:</b>	14:53 Local	<b>Direction from Accident Site:</b>	87°
<b>Lowest Cloud Condition:</b>	Few / 5000 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	6 knots /	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	280°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	30.09 inches Hg	<b>Temperature/Dew Point:</b>	26°C / 15°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Lafollette, TN (TN44)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Kingston, TN	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	14:00 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	WOLF CREEK 2TN7	<b>Runway Surface Type:</b>	Grass/turf
<b>Airport Elevation:</b>	890 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	23	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	2400 ft / 60 ft	<b>VFR Approach/Landing:</b>	Full stop;Straight-in

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Minor	<b>Latitude, Longitude:</b>	35.802402,-84.417663(est)

## Administrative Information

Investigator In Charge (IIC):	Young, Joshua
Additional Participating Persons:	Brad Holland; FAA/FSDO; Nashville, TN
Original Publish Date:	July 7, 2023
Last Revision Date:	
Investigation Class:	<a href="#">Class 4</a>
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	<a href="https://data.nts.gov/Docket?ProjectID=192233">https://data.nts.gov/Docket?ProjectID=192233</a>

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