



# Aviation Investigation Final Report

<b>Location:</b>	Cedar Key, Florida	<b>Accident Number:</b>	GAA18CA197
<b>Date &amp; Time:</b>	March 14, 2018, 12:00 Local	<b>Registration:</b>	N1004H
<b>Aircraft:</b>	Piper PA28	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Runway excursion	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

According to the operator, the airplane exited the departure end of the runway and collided with a drainage culvert. The pilot later reported that "the wind sock gave faulty information" during landing.

The airplane sustained substantial damage to the engine mounts.

The METAR at the nearest airport reported that, about the time of the accident, the wind was from 310° at 5 knots. The pilot landed the airplane on runway 5. The runway length was 2,355 ft. According to the manufacturer's Pilot's Operating Handbook, the normal landing distance is 595 ft.

The operator reported that there were no 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 unstabilized approach, which resulted in a long landing and subsequent runway overrun.

## Findings

<b>Aircraft</b>	Landing distance - Capability exceeded
<b>Aircraft</b>	Descent/approach/glide path - Not attained/maintained
<b>Environmental issues</b>	(general) - Contributed to outcome

## Factual Information

### History of Flight

Landing-landing roll	Runway excursion (Defining event)
Landing-landing roll	Collision during takeoff/land

### Pilot Information

Certificate:	Private	Age:	22,Female
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:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	September 25, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 10, 2018
Flight Time:	(Estimated) 227 hours (Total, all aircraft), 50 hours (Total, this make and model), 24 hours (Last 90 days, all aircraft), 16 hours (Last 30 days, all aircraft), 8 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N1004H
Model/Series:	PA28 151	Aircraft Category:	Airplane
Year of Manufacture:	1976	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	28-7715301
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	2326 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	C91 installed, not activated	Engine Model/Series:	O-320
Registered Owner:		Rated Power:	150 Horsepower
Operator:		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>	KCGC,10 ft msl	<b>Distance from Accident Site:</b>	30 Nautical Miles
<b>Observation Time:</b>	16:15 Local	<b>Direction from Accident Site:</b>	122°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	310°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	30.17 inches Hg	<b>Temperature/Dew Point:</b>	16°C / -2°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Edgewater, FL (X50 )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Cedar Key, FL (CDK )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	09:15 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	GEORGE T LEWIS CDK	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	11 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	05	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	2355 ft / 100 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	29.134166,-83.050552(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Hicks, Michael
<b>Additional Participating Persons:</b>	Camanche Cain; FAA; Tampa, FL
<b>Original Publish Date:</b>	October 24, 2018
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=96971">https://data.nts.gov/Docket?ProjectID=96971</a>

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