



# **Aviation Investigation Final Report**

Location: Monroe, North Carolina Accident Number: GAA19CA087

Date & Time: December 3, 2018, 18:05 Local Registration: N65773

Aircraft: Cessna 172 Aircraft Damage: Substantial

**Defining Event:** Abnormal runway contact **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Instructional

#### **Analysis**

The solo student pilot reported that, upon touchdown, he maintained aft pressure on the control yoke to keep the nose landing gear (NLG) off the runway, but the airplane bounced. The main landing gear touched down again hard, followed by the NLG, which then collapsed, and the left wing impacted the grass adjacent the runway.

The airplane sustained substantial damage to the left wing.

The student reported that there were no preaccident mechanical failures or malfunctions 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 student pilot's improper landing flare, which resulted in a hard, bounced landing and nose landing gear collapse.

## **Findings**

Aircraft	Landing flare - Not attained/maintained
Personnel issues	Aircraft control - Student/instructed pilot

Page 2 of 5 GAA19CA087

## **Factual Information**

## **History of Flight**

Landing	Abnormal runway contact (Defining event)	
Landing	Landing gear collapse	
Landing	Collision with terr/obj (non-CFIT)	

## **Student pilot Information**

Certificate:	Student	Age:	23,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	September 19, 2018
Occupational Pilot:	No Last Flight Review or Equivalent:		
Flight Time:	(Estimated) 15 hours (Total, all aircraft), 15 hours (Total, this make and model), 1 hours (Pilot In Command, all aircraft), 13 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

## **Aircraft and Owner/Operator Information**

Aircraft Make:	Cessna	Registration:	N65773
Model/Series:	172 P	Aircraft Category:	Airplane
Year of Manufacture:	1982	Amateur Built:	
Airworthiness Certificate:	Normal; Utility	Serial Number:	17275876
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	100 hour	Certified Max Gross Wt.:	2299 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:		Engine Model/Series:	0-320
Registered Owner:		Rated Power:	180 Horsepower
Operator:		Operating Certificate(s) Held:	None

Page 3 of 5 GAA19CA087

#### Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KEQY,679 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	22:53 Local	Direction from Accident Site:	123°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	230°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.81 inches Hg	Temperature/Dew Point:	14°C / 2°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	Monroe, NC (EQY)	Type of Flight Plan Filed:	None
Destination:	Monroe, NC (EQY)	Type of Clearance:	None
Departure Time:	17:15 Local	Type of Airspace:	Class G

## **Airport Information**

Airport:	CHARLOTTE-MONROE EXECUTIVE EQY	Runway Surface Type:	Asphalt
Airport Elevation:	682 ft msl	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	None
Runway Length/Width:	7001 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

# Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	35.017501,-80.621948(est)

Page 4 of 5 GAA19CA087

#### **Administrative Information**

Investigator In Charge (IIC): Nepomuceno, Eleazar

Additional Participating Persons: Paul Meyer; FAA; Charlotte, NC

Debra Shields; FAA; Charlotte, NC

Original Publish Date: March 3, 2020

Note: This accident report documents the factual circumstances of this accident as described to

the NTSB.

Investigation Docket: <a href="https://data.ntsb.gov/Docket?ProjectID=98735">https://data.ntsb.gov/Docket?ProjectID=98735</a>

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

Page 5 of 5 GAA19CA087