



Aviation Investigation Final Report

Location:	Hollywood, Florida	Accident Number:	GAA18CA427
Date & Time:	July 16, 2018, 13:08 Local	Registration:	N5551L
Aircraft:	Cessna 152	Aircraft Damage:	Substantial
Defining Event:	Abnormal runway contact	Injuries:	1 Minor
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The solo student pilot reported that, while landing in a crosswind during thunderstorm activity, she feared that a go-around would put her into the storm. She added that the airplane bounced during the initial touchdown. She then applied "a bit of power" to recover, but the airplane porpoised, and the nose landing gear collapsed.

The airplane sustained substantial damage to the engine mount.

The director of flight operations for the flight school reported that the student was endorsed for the solo cross-country, that she had received a weather briefing, and that she and her instructor had a briefing and discussion about the airfield and weather before her departure. He added that she was supposed to arrive before the summer storms started, but the storms came early.

The student reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

The automated weather observation system at the airport reported that, about the time of the accident, the wind was from 140° at 15 knots. The student landed the airplane on runway 10R. The observation further indicated thunderstorm activity and cumulonimbus clouds with occasional lightening in clouds and clouds to ground.

Probable Cause and Findings

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

The student pilot's inadvertent encounter with thunderstorm conditions and her failure to maintain a proper landing flare in a crosswind, which resulted in a bounced landing.

Findings

Aircraft	Landing flare - Not attained/maintained
Personnel issues	Aircraft control - Student/instructed pilot
Environmental issues	Crosswind - Effect on operation

Factual Information

History of Flight

Landing	Other weather encounter
Landing	Abnormal runway contact (Defining event)
Landing	Attempted remediation/recovery
Landing	Landing gear collapse

Student pilot Information

Certificate:	Student	Age:	27,Female
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	May 18, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 39 hours (Total, all aircraft), 39 hours (Total, this make and model), 8 hours (Pilot In Command, all aircraft), 39 hours (Last 90 days, all aircraft), 33 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N5551L
Model/Series:	152 No Series	Aircraft Category:	Airplane
Year of Manufacture:	1980	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	15284353
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	June 14, 2018 100 hour	Certified Max Gross Wt.:	1670 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	14246.5 Hrs	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O-235-L2C
Registered Owner:		Rated Power:	110 Horsepower
Operator:		Operating Certificate(s) Held:	Pilot school (141)
Operator Does Business As:	Wayman Aviation Academy	Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KHWO,9 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	17:13 Local	Direction from Accident Site:	196°
Lowest Cloud Condition:	Few / 3000 ft AGL	Visibility	10 miles
Lowest Ceiling:	Overcast / 25000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	15 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	140°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.06 inches Hg	Temperature/Dew Point:	32°C / 25°C
Precipitation and Obscuration:	Moderate - Thunderstorm -		
Departure Point:	Immokalee, FL (IMM)	Type of Flight Plan Filed:	VFR
Destination:	Hollywood, FL (HWO)	Type of Clearance:	None
Departure Time:	12:14 Local	Type of Airspace:	Class D

Airport Information

Airport:	NORTH PERRY HWO	Runway Surface Type:	Asphalt
Airport Elevation:	8 ft msl	Runway Surface Condition:	Dry
Runway Used:	10R	IFR Approach:	None
Runway Length/Width:	3255 ft / 100 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	26.002222,-80.239997(est)

Administrative Information

Investigator In Charge (IIC):	Swenson, Eric
Additional Participating Persons:	Brian Hahn; FAA; Miramar, FL
Original Publish Date:	March 18, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=97808

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