



Aviation Investigation Final Report

Location:	Fulton, New York	Accident Number:	GAA18CA267
Date & Time:	May 5, 2018, 08:30 Local	Registration:	N7762X
Aircraft:	Cessna 172	Aircraft Damage:	Substantial
Defining Event:	Hard landing	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Analysis

The solo student pilot reported that, while practicing landings, he thought the wind was becoming "gusty," so he increased his approach speed. He added that, over the runway threshold, he reduced throttle and felt the airplane enter ground effect. The airplane landed hard, bounced, and landed hard a second time. The student pilot added full power and turned off carburetor heat, and the airplane landed hard a third time. The nose landing gear collapsed, and the airplane came to rest in the grass next to the runway.

The airplane sustained substantial damage to the fuselage.

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

The automated weather observation station located on the airport reported that, about 37 minutes before the accident, the wind was from 230° at 7 knots. The same automated station reported that, about 24 minutes after the accident, the wind was from 260° at 7 knots. The airplane landed on runway 24.

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.

Findings

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

Factual Information

History of Flight

Landing	Other weather encounter
Landing	Hard landing (Defining event)
Landing	Abnormal runway contact
Landing	Landing gear collapse
Landing	Runway excursion

Student pilot Information

Certificate:	Student	Age:	63,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
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:	August 16, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 82 hours (Total, all aircraft), 82 hours (Total, this make and model), 6 hours (Pilot In Command, all aircraft), 5.4 hours (Last 90 days, all aircraft), 1.1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N7762X
Model/Series:	172 B	Aircraft Category:	Airplane
Year of Manufacture:	1961	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	17248262
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	2200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONT MOTOR
ELT:	Installed, not activated	Engine Model/Series:	O-300-D
Registered Owner:		Rated Power:	145 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KFZY, 475 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	11:54 Local	Direction from Accident Site:	168°
Lowest Cloud Condition:	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:	30.04 inches Hg	Temperature/Dew Point:	12°C / 7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Fulton, NY (FZY)	Type of Flight Plan Filed:	None
Destination:	Fulton, NY (FZY)	Type of Clearance:	None
Departure Time:	07:30 Local	Type of Airspace:	Class G

Airport Information

Airport:	OSWEGO COUNTY FZY	Runway Surface Type:	Asphalt
Airport Elevation:	475 ft msl	Runway Surface Condition:	Dry
Runway Used:	24	IFR Approach:	None
Runway Length/Width:	3996 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:	43.351943,-76.385559(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Paul Petrella; FAA; Rochester, NY
Original Publish Date:	October 24, 2018
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=97219

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