



Aviation Investigation Final Report

Location: Denison, Texas Accident Number: GAA18CA350

Date & Time: June 14, 2018, 09:15 Local Registration: N67404

Aircraft: Cessna 152 Aircraft Damage: Substantial

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

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

The chief flight instructor reported that, according to the student pilot, during landing, the right crosswind increased. He added that the airplane turned left, touched down hard, and bounced. Following the bounce, the student tried to hold attitude, but the airplane descended, bounced a second time, and the nose landing gear collapsed. During the third touchdown, the propeller struck the runway, and the airplane skidded to a stop on the runway.

The airplane sustained substantial damage to the engine mounts.

The chief flight instructor 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 the time of the accident, the wind was from 210° at 10 knots. The airplane landed on runway 17L.

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 in crosswind conditions, which resulted in a hard, bounced landing.

Findings

AircraftLanding flare - Not attained/maintainedPersonnel issuesAircraft control - Student/instructed pilot

Environmental issues Crosswind - Effect on operation

Page 2 of 5 GAA18CA350

Factual Information

History of Flight

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

Student pilot Information

Certificate:	Student	Age:	20,Male
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 1 Without waivers/limitations	Last FAA Medical Exam:	March 6, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 32.5 hours (Total, all aircraft), 32.5 hours (Total, this make and model), 18.2 hours (Last 30 days, all aircraft)		

Page 3 of 5 GAA18CA350

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N67404
Model/Series:	152 NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	1981	Amateur Built:	
Airworthiness Certificate:	Utility	Serial Number:	15285297
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	May 21, 2018 100 hour	Certified Max Gross Wt.:	1670 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	16438.6 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	C91 installed, not activated	Engine Model/Series:	0-235 SERIES
Registered Owner:		Rated Power:	110 Horsepower
Operator:		Operating Certificate(s) Held:	Pilot school (141)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KGYI,749 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	14:55 Local	Direction from Accident Site:	188°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	210°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.04 inches Hg	Temperature/Dew Point:	31°C / 18°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Denison, TX (GYI)	Type of Flight Plan Filed:	None
Destination:	Denison, TX (GYI)	Type of Clearance:	VFR
Departure Time:	09:18 Local	Type of Airspace:	Class D

Page 4 of 5 GAA18CA350

Airport Information

Airport:	NORTH TEXAS RGNL/PERRIN FIELD GYI	Runway Surface Type:	Asphalt;Concrete
Airport Elevation:	749 ft msl	Runway Surface Condition:	Dry
Runway Used:	17L	IFR Approach:	None
Runway Length/Width:	9000 ft / 150 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:	33.720832,-96.672775(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Brent Furlow; FAA; North Texas, TX
Original Publish Date:	November 5, 2018
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=97487

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 GAA18CA350