



Aviation Investigation Final Report

Location: Spring, Texas Accident Number: GAA18CA464

Date & Time: July 26, 2018, 17:30 Local Registration: N865CP

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, during landing, he flared the airplane high, and it then landed hard. He added that the airplane "dipped," and he felt the nosewheel wobble. He then turned off the engine and "steered to the grass" off the runway.

The airplane sustained substantial damage to the fuselage.

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

The student reported that the wind was from 110° at 6 knots. The automated weather observation station located on the airport reported that, about 23 minutes before the accident, the wind was from 100° at 9 knots. The airplane landed on runway 35R.

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 a crosswind, which resulted in a hard landing.

Findings

Aircraft Landing flare - Not attained/maintained

Personnel issues Aircraft control - Student/instructed pilot

Environmental issuesCrosswind - Effect on operationEnvironmental issuesTailwind - Effect on operation

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Factual Information

History of Flight

Landing	Miscellaneous/other
Landing	Hard landing (Defining event)

Student pilot Information

Certificate:	Student	Age:	58,Male
Airplane Rating(s):	None	Seat Occupied:	Front
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 3 With waivers/limitations	Last FAA Medical Exam:	January 19, 2018
Occupational Pilot:	No Last Flight Review or Equivalent:		
Flight Time:	(Estimated) 79 hours (Total, all aircraft), 79 hours (Total, this make and model), 7 hours (Pilot In Command, all aircraft), 14 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N865CP
Model/Series:	172 R	Aircraft Category:	Airplane
Year of Manufacture:	1998	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	17280602
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	June 25, 2018 100 hour	Certified Max Gross Wt.:	2457 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	13200.7 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-360-2A
Registered Owner:		Rated Power:	160 Horsepower
Operator:		Operating Certificate(s) Held:	Pilot school (141)
Operator Does Business As:	United Flight Systems	Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KDWH,152 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	22:53 Local	Direction from Accident Site:	345°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	9 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	100°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.92 inches Hg	Temperature/Dew Point:	36°C / 19°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	Spring, TX (DWH)	Type of Flight Plan Filed:	None
Destination:	Spring, TX (DWH)	Type of Clearance:	VFR
Departure Time:	17:30 Local	Type of Airspace:	Class D

Airport Information

Airport:	DAVID WAYNE HOOKS MEMORIAL DWH	Runway Surface Type:	Asphalt
Airport Elevation:	152 ft msl	Runway Surface Condition:	Dry
Runway Used:	35R	IFR Approach:	None
Runway Length/Width:	3500 ft / 35 ft	VFR Approach/Landing:	Touch and go

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:	30.055555,-95.552223(est)

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Administrative Information

Investigator In Charge (IIC): Benhoff, Kathryn

Additional Participating Persons: Rick Bolton; FAA; Houston, TX

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.ntsb.gov/Docket?ProjectID=97973

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.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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