



National Transportation Safety Board Aviation Accident Factual Report

Location:	Lawrence, KS	Accident Number:	GAA17CA351
Date & Time:	06/10/2017, 1100 CDT	Registration:	N99HV
Aircraft:	CESSNA 172	Aircraft Damage:	Substantial
Defining Event:	Hard landing	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

The flight instructor reported that, during a simulated engine failure in the traffic pattern, with gusting wind conditions, the student pilot entered a forward slip on final approach. He added, that 10 to 20 ft. above the runway surface, "the wind gust we were riding suddenly halted wherein the aircraft began a rapid downward descent." The flight instructor reported that he "went for the flight controls to take command," but the student pilot at that same time applied back pressure on the flight controls. Subsequently, the airplane touched down hard, bounced back into the air, and the flight instructor performed a go-around. The flight instructor completed the subsequent traffic pattern and landing without further incident.

The engine mounts and firewall sustained substantial damage.

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

An automated weather observation station at the accident airport, about the time of the accident, reported the wind from 170° at 16 knots, gusting to 24 knots. The flight instructor reported that the landing was on runway 15.

Flight Instructor Information

Certificate:	Flight Instructor; Commercial	Age:	22, Male
Airplane Rating(s):	Single-engine Land; Single-engine Sea	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Single-engine; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 3 With Waivers/Limitations	Last FAA Medical Exam:	05/20/2014
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	03/11/2017
Flight Time:	(Estimated) 605 hours (Total, all aircraft), 312 hours (Total, this make and model), 450 hours (Pilot In Command, all aircraft), 168 hours (Last 90 days, all aircraft), 65 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Student Pilot Information

Certificate:	Student	Age:	53, Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With Waivers/Limitations	Last FAA Medical Exam:	08/18/2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 71 hours (Total, all aircraft), 71 hours (Total, this make and model), 6 hours (Pilot In Command, all aircraft), 16 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N99HV
Model/Series:	172 S	Aircraft Category:	Airplane
Year of Manufacture:	2005	Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	172S10090
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	02/03/2017, AAIP	Certified Max Gross Wt.:	2550 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	5813.9 Hours at time of accident	Engine Manufacturer:	LYCOMING
ELT:	C91A installed, not activated	Engine Model/Series:	IO-360-L2A
Registered Owner:	AEROHAWK LLC.	Rated Power:	180 hp
Operator:	Hetrick Air Services	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	KLWC, 833 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	1552 UTC	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear	Visibility	10 Miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	16 knots / 24 knots	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.79 inches Hg	Temperature/Dew Point:	27° C / 19° C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	LAWRENCE, KS (LWC)	Type of Flight Plan Filed:	None
Destination:	LAWRENCE, KS (LWC)	Type of Clearance:	None
Departure Time:	0950 CDT	Type of Airspace:	Class E

Airport Information

Airport:	LAWRENCE MUNI (LWC)	Runway Surface Type:	Asphalt
Airport Elevation:	833 ft	Runway Surface Condition:	Dry
Runway Used:	15	IFR Approach:	None
Runway Length/Width:	5700 ft / 100 ft	VFR Approach/Landing:	Full Stop; Go Around; Simulated Forced Landing; Traffic Pattern

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	39.011111, -95.216389 (est)

Administrative Information

Investigator In Charge (IIC):	Adam M Gerhardt
Additional Participating Persons:	Richard Stevens; FAA/ FSDO; Wichita, KS
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=95406