



National Transportation Safety Board Aviation Accident Data Summary

Location:	Union Mills, IN	Accident Number:	CEN09CA148
Date & Time:	02/01/2009, 1230 EST	Registration:	N53576
Aircraft:	CESSNA 172	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

The certificated flight instructor (CFI) and student pilot departed on an introductory instructional flight towards a training area where they performed basic flight maneuvers. They then flew to an airport where the CFI demonstrated a simulated forced landing which was to be followed by a go-around to a runway that was reportedly covered with about 12-14 inches of snow. During the demonstration, the CFI reduced engine power to idle from an altitude of 2,000 feet mean sea level and executed a descent to an altitude of about 5 - 6 feet above ground level at 60 knots indicated airspeed. The CFI did not increase engine throttle during this descent to clear the engine. The CFI applied full throttle during the go-around, but the engine hesitated and the airplane continued to descend. The main landing gear wheels followed by the airplane's nose contacted the snow. The left wing contacted the ground followed by the right wing.. Both wings buckled, resulting in substantial damage to the airplane. The Federal Aviation Administration Flight Training Handbook states in the section under 'Descents (Maximum Distance Glides)' that during power-off descents, the engine should be cleared periodically to prevent excessive cooling and fouling.

Flight Events

Approach-IFR final approach - Simulated/training event
Approach-VFR go-around - Attempted remediation/recovery
Approach-VFR go-around - Collision with terr/obj (non-CFIT)

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:
The certificated flight instructor's failure to follow correct engine clearing procedures. A factor was the unsuitable landing area.

Findings

Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Powerplant parameters-Not specified - F
Personnel issues-Task performance-Planning/preparation-(general)-Instructor/check pilot - C
Personnel issues-Action/decision-Action-Delayed action-Pilot - C
Environmental issues-Physical environment-Runway/land/takeoff/taxi surfa-Snow/slush/ice covered-Effect on equipment - F

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	67
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	Helicopter	Instructor Rating(s):	Airplane Single-engine
Flight Time:	3204 hours (Total, all aircraft), 1568 hours (Total, this make and model), 2991 hours (Pilot In Command, all aircraft), 59 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft)		

Student Pilot Information

Certificate:	None	Age:	52
Airplane Rating(s):	None	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N53576
Model/Series:	172 S	Engines:	1 Reciprocating
Operator:	J.S. Aviation Inc.	Engine Manufacturer:	LYCOMING
Air Carrier Operating Certificate:	On-demand Air Taxi (135)	Engine Model/Series:	IO360
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	VPZ	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	Broken / 10000 ft agl
Condition of Light:	Day	Wind Speed/Gusts, Direction:	9 knots, 220°
Temperature:	2° C / -4° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	Valparaso, IN (VPZ)	Destination:	Valparaso, IN (VPZ)

Airport Information

Airport:	Flying U Ranch (4C1)	Runway Surface Type:	Grass/turf; Snow
Runway Used:	18	Runway Surface Condition:	Snow
Runway Length/Width:	2745 ft / 100 ft		

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

Administrative Information

Investigator In Charge (IIC):	Mitchell F Gallo	Adopted Date:	04/28/2011
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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