



National Transportation Safety Board Aviation Accident Data Summary

Location:	Truckee, CA	Accident Number:	WPR09CA055
Date & Time:	12/02/2008, 1420 PST	Registration:	N172MN
Aircraft:	CESSNA 172RG	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that during a normal approach to landing he misjudged the height between the airplane and the runway during the flare and the airplane settled onto the runway hard. The airplane bounced and the pilot said he lowered the nose and the airplane entered a porpoise followed by the propeller contacting the runway. The firewall sustained substantial damage. The pilot said there were no pre impact mechanical malfunctions or failures.

Flight Events

Landing-flare/touchdown - Hard landing

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:
The pilot misjudged the landing flare resulting in a hard landing.

Findings

Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Landing flare-Not attained/maintained - C

Personnel issues-Action/decision-Action-Incorrect action performance-Pilot - C

Personnel issues-Action/decision-Info processing/decision-Identification/recognition-Pilot - C

Pilot Information

Certificate:	Private	Age:	69
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	274 hours (Total, all aircraft), 40 hours (Total, this make and model), 136 hours (Pilot In Command, all aircraft), 17 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N172MN
Model/Series:	172RG	Engines:	1 Reciprocating
Operator:	On file	Engine Manufacturer:	LYCOMING
Air Carrier Operating Certificate:	None	Engine Model/Series:	O-360
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	TRK, 5900 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	None
Condition of Light:	Day	Wind Speed/Gusts, Direction:	Calm
Temperature:	11°C / -9°C	Visibility	9 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Beckwourth, CA (002)	Destination:	Truckee, CA (TRK)

Airport Information

Airport:	Truckee-Tahoe Airport (TRK)	Runway Surface Type:	Asphalt
Runway Used:	19	Runway Surface Condition:	Dry
Runway Length/Width:	4650 ft / 75 ft		

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None

Administrative Information

Investigator In Charge (IIC):	Patrick H Jones	Adopted Date:	01/29/2009
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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