



National Transportation Safety Board Aviation Accident Data Summary

Location:	CHANDLER, AZ	Accident Number:	LAX00LA031
Date & Time:	11/02/1999, 1140 MST	Registration:	N98909
Aircraft:	Cessna 172N	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot stated that he flared high and the airplane landed flat on all three landing gear and bounced three times. The nose tire went flat and the propeller contacted the ground. Subsequent inspection revealed the firewall was buckled. The pilot said there were no mechanical malfunctions or failures prior to the hard landing.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's misjudged landing flare and failure to maintain an adequate airspeed margin, which resulted in a stall/mush and hard landing.

Findings

Occurrence #1: HARD LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (C) FLARE - MISJUDGED - PILOT IN COMMAND
2. (C) AIRSPEED(VREF) - NOT MAINTAINED - PILOT IN COMMAND
3. STALL/MUSH - INADVERTENT - PILOT IN COMMAND

Pilot Information

Certificate:	Private	Age:	19
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	56 hours (Total, all aircraft), 33 hours (Total, this make and model), 2 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N98909
Model/Series:	172N 172N	Engines:	1 Reciprocating
Operator:	SAWYER AVIATION	Engine Manufacturer:	Lycoming
Operating Certificate(s) Held:	None	Engine Model/Series:	O-320-D2J
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	IWA, 1382 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	14 knots / , 80°
Temperature:	29° C	Visibility	30 Miles
Precipitation and Obscuration:			
Departure Point:	PHOENIX, AZ (PHX)	Destination:	(CHD)

Airport Information

Airport:	CHANDLER MUNICIPAL (CHD)	Runway Surface Type:	Asphalt
Runway Used:	4L	Runway Surface Condition:	Dry
Runway Length/Width:	4401 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

Latitude, Longitude:

Administrative Information

Investigator In Charge (IIC):	HOWARD D PLAGENS	Adopted Date:	05/09/2001
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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