



# National Transportation Safety Board

## Aviation Accident Data Summary

<b>Location:</b>	Deer Valley, AZ	<b>Accident Number:</b>	WPR13CA397
<b>Date &amp; Time:</b>	09/01/2013, 0937 MST	<b>Registration:</b>	N2134M
<b>Aircraft:</b>	CESSNA 172S	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

### Analysis

During a practice touch-and-go landing, the student pilot did not properly maintain runway alignment during the landing flare. The flight instructor took control of the airplane as the wheels touched down on the runway, and attempted a go-around. However, during the go-around, the flight instructor did not retract the flaps to 20 degrees, which the normal procedures require. Subsequently the airplane bounced, landed in an open area adjacent to the runway, and came to rest upright. During the accident sequence, the airplane sustained substantial damage to the wings and horizontal stabilizer. The flight instructor reported that there were no preaccident mechanical malfunctions or failures with the airplane that would have precluded normal operation.

### Flight Events

- Landing-flare/touchdown - Attempted remediation/recovery
- Landing-aborted after touchdown - Attempted remediation/recovery
- Landing - Runway excursion

### Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The student pilot's inadequate flare and the flight instructor's delayed remedial action and failure to maintain control of the airplane during a go-around. Contributing to the accident was the flight instructor's improper go-around procedures.

### Findings

- Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Landing flare-Not attained/maintained - C
- Personnel issues-Task performance-Use of equip/info-Aircraft control-Student pilot - C
- Personnel issues-Action/decision-Action-Delayed action-Instructor/check pilot - C
- Personnel issues-Task performance-Use of equip/info-Aircraft control-Instructor/check pilot - C
- Personnel issues-Task performance-Use of equip/info-Use of policy/procedure-Instructor/check pilot - F

### Flight Instructor Information

<b>Certificate:</b>	Flight Instructor; Commercial; Private	<b>Age:</b>	30
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	Airplane Single-engine
<b>Flight Time:</b>	465.5 hours (Total, all aircraft), 333.1 hours (Total, this make and model), 306 hours (Pilot In Command, all aircraft), 99.6 hours (Last 90 days, all aircraft), 60.5 hours (Last 30 days, all aircraft), 1.8 hours (Last 24 hours, all aircraft)		

## Student Pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	26
<b>Airplane Rating(s):</b>	None	<b>Instrument Rating(s):</b>	None
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	26.3 hours (Total, all aircraft), 26.3 hours (Total, this make and model), 26.3 hours (Last 90 days, all aircraft), 17.7 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Manufacturer:</b>	CESSNA	<b>Registration:</b>	N2134M
<b>Model/Series:</b>	172S	<b>Engines:</b>	1 Reciprocating
<b>Operator:</b>	WESTWIND AVIATION INC	<b>Engine Manufacturer:</b>	LYCOMING
<b>Air Carrier Operating Certificate:</b>	None	<b>Engine Model/Series:</b>	IO-360-L2A
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

## Meteorological Information and Flight Plan

<b>Observation Facility, Elevation:</b>	DVT, 1478 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Lowest Ceiling:</b>	None
<b>Condition of Light:</b>	Day	<b>Wind Speed/Gusts, Direction:</b>	Calm
<b>Temperature:</b>	32°C / 18°C	<b>Visibility:</b>	10 Miles
<b>Precipitation and Obscuration:</b>	No Precipitation		
<b>Departure Point:</b>	Deer Valley, AZ (DVT)	<b>Destination:</b>	Deer Valley, AZ (DVT)

## Airport Information

<b>Airport:</b>	PHOENIX DEER VALLEY (DVT)	<b>Runway Surface Type:</b>	Asphalt
<b>Runway Used:</b>	07L	<b>Runway Surface Condition:</b>	Dry
<b>Runway Length/Width:</b>	4499 ft / 75 ft		

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Albert P Nixon	<b>Adopted Date:</b>	02/04/2014
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.		
<b>Investigation Docket:</b>	<a href="http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=87976">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=87976</a>		

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