



National Transportation Safety Board Aviation Accident Final Report

Location:	Deer Valley, AZ	Accident Number:	WPR13CA397
Date & Time:	09/01/2013, 0937 MST	Registration:	N2134M
Aircraft:	CESSNA 172S	Aircraft Damage:	Substantial
Defining Event:	Runway excursion	Injuries:	2 None
Flight Conducted Under:	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.

Probable Cause and Findings

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	Landing flare - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Student pilot (Cause)
	Delayed action - Instructor/check pilot (Cause)
	Aircraft control - Instructor/check pilot (Cause)
	Use of policy/procedure - Instructor/check pilot (Factor)

Factual Information

History of Flight

Landing-flare/touchdown	Attempted remediation/recovery
Landing-aborted after touchdown	Attempted remediation/recovery
Landing	Runway excursion (Defining event)

Flight Instructor Information

Certificate:	Flight Instructor; Commercial; Private	Age:	30
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Without Waivers/Limitations	Last Medical Exam:	01/24/2013
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	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

Certificate:	Student	Age:	26
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Without Waivers/Limitations	Last Medical Exam:	07/11/2013
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	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

Aircraft Manufacturer:	CESSNA	Registration:	N2134M
Model/Series:	172S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal; Utility	Serial Number:	172S9552
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	08/08/2013, 100 Hour	Certified Max Gross Wt.:	2550 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	7853 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	IO-360-L2A
Registered Owner:	NIMBUS LEASING LLC	Rated Power:	180 hp
Operator:	WESTWIND AVIATION INC	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	DVT, 1478 ft msl	Observation Time:	0953 MST
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	0°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	32° C / 18° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	Calm	Visibility (RVR):	
Altimeter Setting:	29.9 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Precipitation		
Departure Point:	Deer Valley, AZ (DVT)	Type of Flight Plan Filed:	None
Destination:	Deer Valley, AZ (DVT)	Type of Clearance:	None
Departure Time:	0900 MST	Type of Airspace:	Class D

Airport Information

Airport:	PHOENIX DEER VALLEY (DVT)	Runway Surface Type:	Asphalt
Airport Elevation:	1478 ft	Runway Surface Condition:	Dry
Runway Used:	07L	IFR Approach:	None
Runway Length/Width:	4499 ft / 75 ft	VFR Approach/Landing:	Touch and Go; 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		

Administrative Information

Investigator In Charge (IIC):	Albert P Nixon	Adopted Date:	02/04/2014
Additional Participating Persons:	Dale Sykes; FAA; Scottsdale, AZ		
Publish Date:	02/04/2014		
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=87976		

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