



# National Transportation Safety Board Aviation Accident Data Summary

<b>Location:</b>	Kailua-Kona, HI	<b>Accident Number:</b>	WPR12LA195
<b>Date &amp; Time:</b>	05/02/2012, 1700 HST	<b>Registration:</b>	N209KR
<b>Aircraft:</b>	ROBINSON R22	<b>Injuries:</b>	1 Serious, 1 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

## Analysis

While the student pilot was maneuvering for a practice off-field landing, the flight instructor observed that it was starting to drizzle, so he instructed the student to apply carburetor heat, which he did. As the student was continuing to maneuver for the approach to landing, the instructor detected a loss of engine power. The flight instructor immediately took control of the helicopter, rolled the throttle off and on to recover the loss of rotor rpm, and subsequently instructed the student to try to restart the engine while he set up an emergency landing. The student attempted three engine restarts, each of which was unsuccessful. The flight instructor then performed an emergency autorotation to upsloping terrain, which resulted in a hard landing and substantial damage to the helicopter. The instructor stated that the engine was running at idle after the landing. A postaccident examination of the engine and a subsequent engine run revealed no operational difficulties that would have precluded normal operation. The reason for the loss of engine power could not be determined.

## Flight Events

Maneuvering - Simulated/training event  
Autorotation - Loss of engine power (partial)  
Autorotation - Off-field or emergency landing  
Landing-flare/touchdown - Hard landing

## Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A loss of engine power while maneuvering for reasons that could not be determined because postaccident examination of the engine did not reveal any anomalies that would have precluded normal operation.

## Findings

Environmental issues-Physical environment-Terrain-Sloped/uneven-Not specified  
Not determined-Not determined-(general)-(general)-Unknown/Not determined - C

## Flight Instructor Information

<b>Certificate:</b>	Flight Instructor; Commercial	<b>Age:</b>	27
<b>Airplane Rating(s):</b>	None	<b>Instrument Rating(s):</b>	Helicopter
<b>Other Aircraft Rating(s):</b>	Helicopter	<b>Instructor Rating(s):</b>	Helicopter; Instrument Helicopter
<b>Flight Time:</b>	400 hours (Total, all aircraft), 303 hours (Total, this make and model), 351 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft), 1 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>	72 hours (Total, all aircraft), 72 hours (Total, this make and model), 20 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Manufacturer:</b>	ROBINSON	<b>Registration:</b>	N209KR
<b>Model/Series:</b>	R22 BETA	<b>Engines:</b>	1 Reciprocating
<b>Operator:</b>	Hawaii Pacific Aviation Inc.	<b>Engine Manufacturer:</b>	Lycoming
<b>Air Carrier Operating Certificate:</b>	None	<b>Engine Model/Series:</b>	O-360
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

## Meteorological Information and Flight Plan

<b>Observation Facility, Elevation:</b>	HKO, 30 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Lowest Ceiling:</b>	Overcast / 6000 ft agl
<b>Condition of Light:</b>	Day	<b>Wind Speed/Gusts, Direction:</b>	10 knots, 180°
<b>Temperature:</b>	27° C / 16° C	<b>Visibility:</b>	10 Miles
<b>Precipitation and Obscuration:</b>	Light - Showers - Drizzle; No Obscuration		
<b>Departure Point:</b>	Kailua-Kona, HI (HKO)	<b>Destination:</b>	Kailua-Kona, HI (HKO)

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Serious, 1 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>	Thomas Little	<b>Adopted Date:</b>	05/09/2013
<b>Investigation Docket:</b>	<a href="http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=83560">http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=83560</a>		

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