



National Transportation Safety Board Aviation Accident Data Summary

Location:	Rochester, NH	Accident Number:	NYC06CA041
Date & Time:	12/03/2005, 1500 EST	Registration:	N40CP
Aircraft:	Robinson R-22B	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

The certificated flight instructor (CFI) and student pilot were practicing hovering over a grass area. The CFI reported that the student pilot was flying the helicopter, while he "shadowed" the controls and performed corrective inputs. While hovering, the helicopter's tail rotor contacted the ground and the helicopter rolled over onto its right side. Examination of the helicopter did not reveal any pre-impact malfunctions. Winds reported at the airport, about the time of the accident were variable from 230 to 300 degrees, with the predominate wind from 280 degrees at 7 knots, gusting to 20 knots.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The flight instructor's failure to maintain adequate clearance while providing hovering instruction, which resulted in tail rotor ground contact. A factor in this accident was the gusty wind conditions.

Findings

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: HOVER

Findings

1. (F) WEATHER CONDITION - GUSTS
2. (C) CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND(CFI)

Flight Instructor Information

Certificate:	Airline Transport; Flight Instructor; Commercial	Age:	58
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Instrument Rating(s):	Airplane; Helicopter
Other Aircraft Rating(s):	None	Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane; Instrument Helicopter
Flight Time:	8570 hours (Total, all aircraft), 288 hours (Total, this make and model), 7547 hours (Pilot In Command, all aircraft), 56 hours (Last 90 days, all aircraft), 33 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Student Pilot Information

Certificate:	None	Age:	
Airplane Rating(s):	None	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Robinson	Registration:	N40CP
Model/Series:	R-22B	Engines:	1 Reciprocating
Operator:	C-R Helicopters Inc.	Engine Manufacturer:	Lycoming
Air Carrier Operating Certificate:	None	Engine Model/Series:	O-360-B2C
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	DAW, 322 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:	7 knots/ 20 knots, 280°
Temperature:	1°C / -15°C	Visibility	10 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Rochester, NH (DAW)	Destination:	Rochester, NH (DAW)

Airport Information

Airport:	Runway Surface Type:
Runway Used:	Runway Surface Condition:
Runway Length/Width:	

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

Administrative Information

Investigator In Charge (IIC):	Luke Schiada	Adopted Date:	04/25/2006
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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