



# Aviation Investigation Final Report

<b>Location:</b>	Toughkenamon, Pennsylvania	<b>Accident Number:</b>	NYC05CA108
<b>Date &amp; Time:</b>	June 26, 2005, 18:20 Local	<b>Registration:</b>	N4750H
<b>Aircraft:</b>	Mooney M-20J	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	3 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

As the pilot was on final approach over runway 24, the airspeed was too slow and the airplane subsequently "bounced down hard" on the runway. The pilot added full power and aborted the landing; however, as the airplane climbed she "froze" and never applied right rudder. The airplane continued to climb to the left and went "out of control," impacting trees to the left of the runway. The pilot reported 490 hours of total flight experience. She also reported no mechanical deficiencies with the airplane.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to maintain directional control during an aborted landing, which resulted in an in-flight collision with trees. A factor was the crosswind.

### Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: LANDING - ABORTED

Findings

1. (F) WEATHER CONDITION - CROSSWIND
2. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

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Occurrence #2: IN FLIGHT COLLISION WITH OBJECT

Phase of Operation: LANDING - ABORTED

Findings

3. OBJECT - TREE(S)

## Factual Information

On June 26, 2005, at 1820 eastern daylight time, a Mooney M-20J, N4750H, was substantially damaged during a go-around at the New Garden Airport (N57), Toughkenamon, Pennsylvania. The certificated private pilot and two passengers were not injured. Visual meteorological conditions prevailed, and no flight plan was filed for the flight which originated at the Ocean City Airport (OXB), Ocean City, Maryland. The personal flight was conducted under 14 CFR Part 91.

According to the pilot, as she was on final approach over runway 24, the airspeed was too slow and the airplane subsequently "bounced down hard" on the runway. The pilot added full power and initiated a go-around; however, as the airplane climbed she "froze" and never applied right rudder. The airplane continued to climb to the left and went "out of control," impacting trees to the left of the runway.

The pilot reported 490 hours of total flight experience. She also reported no mechanical deficiencies with the airplane.

The winds reported at an airport 12 miles to the southeast, at 1751, were from 150 degrees at 14 knots.

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	56,Female
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 With waivers/limitations	<b>Last FAA Medical Exam:</b>	March 1, 2004
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	June 1, 2003
<b>Flight Time:</b>	490 hours (Total, all aircraft), 455 hours (Total, this make and model), 14 hours (Last 90 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Mooney	<b>Registration:</b>	N4750H
<b>Model/Series:</b>	M-20J	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	24-0835
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	February 1, 2005 Annual	<b>Certified Max Gross Wt.:</b>	2740 lbs
<b>Time Since Last Inspection:</b>	16 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	2337 Hrs at time of accident	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	IO-360
<b>Registered Owner:</b>	Paul Wolfe	<b>Rated Power:</b>	200 Horsepower
<b>Operator:</b>	Patricia Wolfe	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	ILG,79 ft msl	<b>Distance from Accident Site:</b>	12 Nautical Miles
<b>Observation Time:</b>	17:51 Local	<b>Direction from Accident Site:</b>	120°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	14 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	150°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.12 inches Hg	<b>Temperature/Dew Point:</b>	27°C / 21°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Ocean City , MD (OXB )	<b>Type of Flight Plan Filed:</b>	IFR
<b>Destination:</b>	Toughkenamon , PA (N57 )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	17:15 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	New Garden Airport N57	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	436 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	24	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3695 ft / 50 ft	<b>VFR Approach/Landing:</b>	Full stop

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	2 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	3 None	<b>Latitude, Longitude:</b>	39.830276,-75.769721

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Andrews, Jill
<b>Additional Participating Persons:</b>	
<b>Original Publish Date:</b>	October 27, 2005
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=61803">https://data.nts.gov/Docket?ProjectID=61803</a>

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