



National Transportation Safety Board Aviation Accident Data Summary

Location:	MCHENRY, MD	Accident Number:	BFO89LA052
Date & Time:	07/01/1989, 1206 EDT	Registration:	N7784M
Aircraft:	MOONEY M-20F	Injuries:	1 Minor, 1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

THE PLT MADE THE LNDG APCH WITH FULL FLAPS AT AN AIRSPEED OF APRX 90 KTS. ACCORDING TO THE PLT, HE ENCOUNTERED WIND SHEAR AT THE RWY THRESHOLD, LANDED HARD, AND BOUNCED SEVERAL TIMES. THE LANDING GEAR COLLAPSED. THE PLT TRIED TO MAKE A GO-AROUND BUT WAS UNABLE TO CLIMB OUT OF GROUND EFFECT OR GAIN FLYING SPEED. THE ACFT STALLED AND COLLIDED WITH THE GROUND LEFT OF THE RWY. RWY 26 WAS USED. THE LOCAL WINDS WERE REPORTED AT 260 DEGS AT 5 KTS.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT LANDED HARD AND COLLAPSED THE LANDING GEAR WHEN HE FAILED TO ARREST HIS DESCENT RATE DURING LANDING. AFTERWARDAS HE TRIED TO MAKE A GO-AROUND THE PILOT DID NOT OBTAIN ADEQUATE FLYING SPEED, THE AIRCRAFT STALLED AND COLLIDED WITH THE GROUND.

Findings

Occurrence #1: HARD LANDING
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (C) FLARE - MISJUDGED - PILOT IN COMMAND
2. (C) RECOVERY FROM BOUNCED LANDING - INADEQUATE - PILOT IN COMMAND
3. AIRSPEED - NOT ATTAINED - PILOT IN COMMAND
4. STALL/MUSH - INADVERTENT - PILOT IN COMMAND

Occurrence #2: GEAR COLLAPSED
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

5. LANDING GEAR - OVERLOAD
6. ABORTED LANDING - ATTEMPTED - PILOT IN COMMAND

Pilot Information

Certificate:	Private	Age:	37
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	167 hours (Total, all aircraft), 55 hours (Total, this make and model), 140 hours (Pilot In Command, all aircraft), 14 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	MOONEY	Registration:	N7784M
Model/Series:	M-20F M-20F	Engines:	1 Reciprocating
Operator:	ROBERT L MCKEEVER	Engine Manufacturer:	LYCOMING
Operating Certificate(s) Held:	None	Engine Model/Series:	IO-360-A1A
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Weather Information Source:	Pilot
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	5 knots / 10 knots, 300°
Temperature:	29° C	Visibility	15 Miles
Precipitation and Obscuration:			
Departure Point:	GAITHERSBURG, MD (GAI)	Destination:	

Airport Information

Airport:	GARRETT COUNTY (2G4)	Runway Surface Type:	Asphalt
Runway Used:	26	Runway Surface Condition:	Dry
Runway Length/Width:	2495 ft / 75 ft		

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC): DENNIS L JONES

Adopted Date: 08/02/1990

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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