



Aviation Investigation Final Report

Location: West Mifflin, Pennsylvania Accident Number: GAA15CA148

Date & Time: June 27, 2015, 17:21 Local Registration: N93TK

Aircraft: Mooney M20R Aircraft Damage: Substantial

Defining Event: Loss of control in flight **Injuries:** 4 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that during the initial touch down the airplane bounced, the pilot elected to abort the landing, and the airplane drifted to the left of the runway when power was applied. The pilot stated that the airplane did not have sufficient airspeed when she retracted the first notch of flaps, the airplane descended and the right wing impacted the ground, resulting in substantial damage to the right wing.

The pilot reported there were no pre-impact mechanical failures or malfunctions with the airframe or engine 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 pilot's failure to maintain pitch control during landing, which resulted in a bounce and loss of control during landing, followed by a runway excursion, and collision with terrain during an attempt to abort the landing.

Findings

Personnel issues Aircraft control - Pilot

Aircraft Pitch control - Not attained/maintained

Factual Information

History of Flight

Landing	Loss of control in flight (Defining event)
Landing	Runway excursion
Landing	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	47
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	April 23, 2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	August 10, 2013
Flight Time:	(Estimated) 599 hours (Total, all aircraft), 498 hours (Total, this make and model), 386 hours (Pilot In Command, all aircraft), 12 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Pilot-rated passenger Information

Certificate:	Private	Age:	49
Airplane Rating(s):	Single-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	April 10, 2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	November 23, 2014
Flight Time:	(Estimated) 1744 hours (Total, all aircraft), 1235 hours (Total, this make and model), 1567 hours (Pilot In Command, all aircraft), 17 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Page 2 of 5 GAA15CA148

Passenger Information

Certificate:		Age:	9
Airplane Rating(s):		Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	3-point
Instrument Rating(s):		Second Pilot Present:	Yes
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Passenger Information

Certificate:		Age:	9
Airplane Rating(s):		Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	3-point
Instrument Rating(s):		Second Pilot Present:	Yes
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:		Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N93TK
Model/Series:	M20R NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	2005	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	29-0360
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	May 21, 2015 Annual	Certified Max Gross Wt.:	3368 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1491.8 Hrs at time of accident	Engine Manufacturer:	CONT MOTOR
ELT:	C91A installed, not activated	Engine Model/Series:	IO-550G(6)B
Registered Owner:	PANTHER WINGS LLC	Rated Power:	280 Horsepower
Operator:	Elizabeth C Tyler-Kabara	Operating Certificate(s) Held:	None

Page 3 of 5 GAA15CA148

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KAGC,1273 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	21:53 Local	Direction from Accident Site:	59°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	Broken / 3100 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.64 inches Hg	Temperature/Dew Point:	24°C / 18°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	MANTEO, NC (MQI)	Type of Flight Plan Filed:	IFR
Destination:	West Mifflin, PA (AGC)	Type of Clearance:	IFR
Departure Time:	15:00 Local	Type of Airspace:	Class D

Airport Information

Airport:	ALLEGHENY COUNTY AGC	Runway Surface Type:	Concrete
Airport Elevation:	1251 ft msl	Runway Surface Condition:	Dry
Runway Used:	28	IFR Approach:	ILS;Practice
Runway Length/Width:	6501 ft / 150 ft	VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 None	Latitude, Longitude:	40.353889,-79.924446(est)

Page 4 of 5 GAA15CA148

Administrative Information

Investigator In Charge (IIC):	Vanover, Jackie
Additional Participating Persons:	Laura Delewski; FAA; Pittsburgh, PA
Original Publish Date:	August 11, 2015
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=91465

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

Page 5 of 5 GAA15CA148