



Aviation Investigation Final Report

Location:	Neenah, Wisconsin	Accident Number:	WPR20CA208
Date & Time:	July 3, 2020, 22:30 Local	Registration:	N3440X
Aircraft:	Mooney M20E	Aircraft Damage:	Substantial
Defining Event:	Runway excursion	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

During a landing at night, the airplane floated, bounced twice, and landed hard past the pilot's designated landing abort point. The pilot applied brakes, but the airplane overran the runway and slid to a stop upright on a road. The airplane sustained substantial damage to the engine mounts and fuselage. The pilot reported that there were no preaccident mechanical failures or malfunctions with the airplane 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 improper landing flare, which resulted in a bounced, hard landing and subsequent runway overrun.

Findings

Aircraft	Landing flare - Not attained/maintained
Personnel issues	Aircraft control - Pilot

Factual Information

History of Flight

Landing-flare/touchdown	Landing area overshoot
Landing-flare/touchdown	Hard landing
Landing-landing roll	Runway excursion (Defining event)
Landing-landing roll	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	34, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	October 1, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	June 16, 2020
Flight Time:	(Estimated) 170 hours (Total, all aircraft), 39 hours (Total, this make and model), 91 hours (Pilot In Command, all aircraft), 41 hours (Last 90 days, all aircraft), 33 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Mooney	Registration:	N3440X
Model/Series:	M20E No Series	Aircraft Category:	Airplane
Year of Manufacture:	1966	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	1130
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	March 30, 2020 Annual	Certified Max Gross Wt.:	2575 lbs
Time Since Last Inspection:	46 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3957.3 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	C126 installed, activated, aided in locating accident	Engine Model/Series:	IO-360-A1A
Registered Owner:	On file	Rated Power:	200 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night
Observation Facility, Elevation:	KATW,917 ft msl	Distance from Accident Site:	7 Nautical Miles
Observation Time:	22:30 Local	Direction from Accident Site:	16°
Lowest Cloud Condition:	Scattered / 12000 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.98 inches Hg	Temperature/Dew Point:	26°C / 16°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Appleton, WI (ATW)	Type of Flight Plan Filed:	None
Destination:	Neenah, WI (79C)	Type of Clearance:	VFR
Departure Time:	21:30 Local	Type of Airspace:	Class G

Airport Information

Airport:	Brennand 79C	Runway Surface Type:	Asphalt
Airport Elevation:	850 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	2450 ft / 20 ft	VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	44.159999,-88.559448(est)

Administrative Information

Investigator In Charge (IIC):	Nepomuceno, Eleazar
Additional Participating Persons:	Timothy Spreen; FAA; Milwaukee, WI
Original Publish Date:	January 29, 2021
Last Revision Date:	
Investigation Class:	Class 4
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=101550

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