



Aviation Investigation Final Report

Location:	Dowling, Michigan	Accident Number:	CEN14CA237
Date & Time:	May 11, 2014, 15:00 Local	Registration:	N343ED
Aircraft:	Mooney M20F	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported the farm strip was aligned on a heading of approximately 090/270 and was 2,400 feet long. He was approaching from the west. As he cleared the obstacles he noticed he was descending faster than normal. He pulled the throttles to idle to land and was almost on the ground when he felt something like a wind shear. The pilot added power but as he got closer to the ground, the wind pushed the airplane toward the north side of the runway to the edge of the landing strip. As the airplane veered off the strip the wingtip collided with brush and the nose wheel broke. The pilot believed the airplane's wheels were on the ground at the time of the wind shear indicated by skid marks going sideways off the landing strip surface. The pilot obtained weather from WK Kellogg Airport (BTL) in Battle Creek, Michigan while enroute at approximately 1455. Prevailing winds were reported as 230 degrees at 10 knots. BTL reported prevailing winds from 220 degrees at 5 knots at 1753.

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 control during landing.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	(general) - Not attained/maintained
Environmental issues	Gusts - Contributed to outcome
Aircraft	Descent rate - Not attained/maintained

Factual Information

History of Flight

Landing-flare/touchdown	Loss of control on ground (Defining event)
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Pilot Information

Certificate:	Private	Age:	67
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Lap only
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	March 26, 2013
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 7, 2014
Flight Time:	3581 hours (Total, all aircraft), 3421 hours (Total, this make and model), 49 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft), 12 hours (Last 24 hours, all aircraft)		

Passenger Information

Certificate:		Age:	
Airplane Rating(s):		Seat Occupied:	Right
Other Aircraft Rating(s):		Restraint Used:	Unknown
Instrument Rating(s):		Second Pilot Present:	No
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:	N343ED
Model/Series:	M20F NO SERIES	Aircraft Category:	Airplane
Year of Manufacture:	1967	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	680006
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	May 1, 2014 Annual	Certified Max Gross Wt.:	2740 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	2642 Hrs as of last inspection	Engine Manufacturer:	LYCOMING
ELT:	C91 installed, not activated	Engine Model/Series:	I0360 SER
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:	Day
Observation Facility, Elevation:	KBTL,952 ft msl	Distance from Accident Site:	9 Nautical Miles
Observation Time:	21:53 Local	Direction from Accident Site:	180°
Lowest Cloud Condition:	Few / 7000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/ Clear air
Wind Direction:	220°	Turbulence Severity Forecast/Actual:	/ Light
Altimeter Setting:	29.95 inches Hg	Temperature/Dew Point:	27°C / 12°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	GREENSBURG, IN (I34)	Type of Flight Plan Filed:	None
Destination:	Dowling, MI	Type of Clearance:	None
Departure Time:	01:50 Local	Type of Airspace:	Class E

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	42.473056,-85.232498(est)

Administrative Information

Investigator In Charge (IIC): Liedler, Courtney

Additional Participating Persons:

Original Publish Date: July 30, 2014

Last Revision Date:

Investigation Class: [Class](#)

Note: This accident report documents the factual circumstances of this accident as described to the NTSB.

Investigation Docket: <https://data.nts.gov/Docket?ProjectID=89200>

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