



Aviation Investigation Final Report

Location: Sedalia, Missouri Accident Number: CEN18LA220

Date & Time: June 7, 2018, 16:45 Local Registration: N8775M

Aircraft: Beech A23 Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot was conducting touch-and-go landings and had landed uneventfully four times. The fifth touchdown was soft; however, the airplane suddenly turned about 90° to the left. The pilot applied right rudder and reduced the throttle to idle. The airplane departed the runway surface, during which the right horizontal stabilizer struck a light post and sustained substantial damage. The pilot reported that the left brake had locked while braking on rollout. A functional check of the braking system and flight controls did not reveal any mechanical malfunctions or failures that would have precluded normal operation; both left and right wheel brake mechanisms functioned properly.

Reported wind conditions about the time of the accident were wind from 230° at 7 knots. However, the pilot indicated that he had checked the local weather about 20 minutes before landing, which reported wind from 100° at 3 knots. Therefore, the crosswind component would have been about 130° opposite, and 4 knots increased, from what the pilot had previously received. The pilot likely lost directional control of the airplane during the landing due to the unexpected wind shift.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's loss of directional control during the landing rollout due to the unexpected wind shift, which resulted in a runway excursion.

Findings

Aircraft Directional control - Not attained/maintained

Personnel issues Aircraft control - Pilot

Environmental issues Sudden wind shift - Contributed to outcome

Environmental issues Runway/taxi/approach light - Contributed to outcome

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Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
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Landing-landing roll Runway excursion

On June 7, 2018, about 1645 central daylight time, a Beech A23 airplane, N8775M, sustained substantial damage following a runway excursion during landing rollout at the Sedalia Municipal Airport (DMO), Sedalia, Missouri. The private pilot and one passenger were not injured. Visual meteorological conditions prevailed and a flight plan was not filed. The airplane was registered to and operated by a private individual. The personal flight was conducted under the provisions of Title 14 *Federal Code of Regulations* Part 91. The flight originated about 1600 from the Cape Girardeau Regional Airport (CGI), Cape Girardeau, Missouri.

The pilot reported that after 4 normal touch and go landings, he set up for another landing on runway 18. The pilot landed the airplane and the touchdown was soft. Suddenly, the airplane turned about 90-degrees to the left. The pilot applied right rudder and reduced the throttle to idle power. The airplane departed the runway surface, struck a runway light with the right horizontal stabilizer, and came to a stop. The pilot was able to taxi the airplane back onto the runway surface and return to the ramp. A postaccident examination revealed that the right horizontal stabilizer sustained substantial damage.

The pilot reported to the responding Federal Aviation Administration (FAA) inspector that the left brake had locked while braking on rollout. A post-accident functional check of the brake system did not reveal any anomalies. Both left and right wheel brake mechanisms functioned properly when visually examined by the FAA inspector. Flight controls were also examined with no anomalies found.

The pilot stated that the AWOS had reported wind from 100° at 3 knots about 20 minutes prior to the landing. A post accident weather review revealed that the reported wind conditions at DMO at 1640 were 230 degrees at 7 knots.

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Pilot Information

Certificate:	Private	Age:	43,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	BasicMed Without waivers/limitations	Last FAA Medical Exam:	April 3, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 2, 2018
Flight Time:	(Estimated) 234.6 hours (Total, all aircraft), 114 hours (Total, this make and model), 15.5 hours (Last 90 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Beech	Registration:	N8775M
Model/Series:	A23 A23	Aircraft Category:	Airplane
Year of Manufacture:	1964	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	M-591
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	May 1, 2018 Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:	20 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3580.3 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-346-A
Registered Owner:		Rated Power:	180 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	DMO,909 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	16:40 Local	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	230°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.96 inches Hg	Temperature/Dew Point:	31°C / 19°C
Precipitation and Obscuration:			
Departure Point:	Cape Girardeau, MO (CGI)	Type of Flight Plan Filed:	None
Destination:	Sedalia, MO (DMO)	Type of Clearance:	None
Departure Time:	16:00 Local	Type of Airspace:	Class E

Airport Information

Airport:	Sedalia Minicipal DMO	Runway Surface Type:	Concrete
Airport Elevation:	909 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	5500 ft / 100 ft	VFR Approach/Landing:	Full stop

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:	38.7075,-93.175834(est)

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Administrative Information

Investigator In Charge (IIC): Lemishko, Alexander

Additional Participating Persons: David E Wood; FAA FSDO; Kansas City, MO

Original Publish Date: June 3, 2020

Note: The NTSB did not travel to the scene of this accident.

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=97442

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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