



Aviation Investigation Final Report

Location: CULBERTSON, Montana Accident Number: SEA96LA179

Date & Time: August 5, 1996, 18:30 Local Registration: CGYYF

Aircraft: Stinson 108-3 Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

While attempting to land in strong, gusty crosswinds, the pilot was unable to keep the aircraft from departing the runway. After it departed the runway, the pilot attempted to complete the roll-out on the grassy area that ran along the side of the runway, but the aircraft was hit by a strong gust and nosed over.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the pilot's inadequate compensation for wind conditions, which resulted in a loss of directional control; and her inadequate remedial action for gusty winds after the aircraft departed the runway. Factors relating to the accident were: the strong and gusty crosswinds.

Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings

- 1. (F) WEATHER CONDITION CROSSWIND
- 2. (F) WEATHER CONDITION HIGH WIND
- 3. (F) WEATHER CONDITION GUSTS
- 4. (C) COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 5. (C) DIRECTIONAL CONTROL NOT MAINTAINED PILOT IN COMMAND
- 6. GROUND LOOP/SWERVE

Occurrence #2: NOSE OVER

Phase of Operation: LANDING - ROLL

Findings
7. (C) REMEDIAL ACTION - INADEQUATE - PILOT IN COMMAND

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Factual Information

On August 5, 1996, approximately 1830 mountain daylight time, a Stinson 108-3, C-GYYF, registered to and being flown by a Canadian private pilot, was substantially damaged during a loss of control and subsequent nose over during the landing roll at the Culbertson Airport, Culbertson, Montana. The pilot was uninjured. Visual meteorological conditions existed and a VFR flight plan had been filed. The flight, which was personal in nature, was to have been operated under 14CFR91, and originated from Oshkosh, Wisconsin.

The pilot reported that on the leg from Wahpeton, North Dakota, to Poplar, Montana, she encountered strong headwinds and turbulence, and therefore decided to return to Culbertson to land. Upon arrival at Culbertson, she encountered strong, gusty wind conditions. While landing on runway 26, the aircraft was hit by the gusty crosswinds and departed the runway. While the pilot was attempting to complete the roll-out on the grassy area that ran along the side of the runway, the aircraft was hit by another gust and nosed over.

Strong, gusty winds prevailed throughout northeastern Montana at the time of the accident, and according to the pilot, the winds at Culbertson were gusting to 40 knots at the time of her landing.

Pilot Information

Certificate:	Private	Age:	47,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	June 17, 1996
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	372 hours (Total, all aircraft), 193 hours (Total, this make and model), 304 hours (Pilot In Command, all aircraft), 40 hours (Last 90 days, all aircraft), 33 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Stinson	Registration:	CGYYF
Model/Series:	108-3 108-3	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	108-4516
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	January 11, 1996 Annual	Certified Max Gross Wt.:	2400 lbs
Time Since Last Inspection:	89 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1000 Hrs	Engine Manufacturer:	Franklin
ELT:	Installed, not activated	Engine Model/Series:	6A4-165-B3
Registered Owner:	SMITH, SELINA, B.	Rated Power:	165 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	24 knots / 40 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	27°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	WAHPETON , ND (BWP)	Type of Flight Plan Filed:	VFR
Destination:	(S85)	Type of Clearance:	None
Departure Time:	15:00 Local	Type of Airspace:	Class G

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Airport Information

Airport:	BIG SKY FIELD S85	Runway Surface Type:	Asphalt
Airport Elevation:	1953 ft msl	Runway Surface Condition:	Dry
Runway Used:	26	IFR Approach:	None
Runway Length/Width:	3800 ft / 60 ft	VFR Approach/Landing:	Full stop

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:	48.080219,-104.560653(est)

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Administrative Information

Investigator In Charge (IIC):	Mccreary, Steven	
Additional Participating Persons:	KEN KANTOLA; HELENA , MT	
Original Publish Date:	May 23, 1997	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=42437	

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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.

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