



# **Aviation Investigation Final Report**

Location: Bangor, Maine Accident Number: GAA19CA213

Date & Time: April 14, 2019, 17:00 Local Registration: N4916B

Aircraft: Cessna 152 Aircraft Damage: Substantial

**Defining Event:** Hard landing **Injuries:** 1 Minor, 1 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

The pilot reported that the airplane landed hard and bounced. He decided to continue the landing, and during the second touchdown, the airplane landed hard again, and the nose landing gear separated. The airplane came to rest on the runway.

The airplane sustained substantial damage to the 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 hard landing.

#### **Findings**

Aircraft Landing flare - Not attained/maintained

Personnel issues Aircraft control - Pilot

## **Factual Information**

## History of Flight

Landing	Hard landing (Defining event)
Landing	Part(s) separation from AC

### **Pilot Information**

Certificate:	Private	Age:	28,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
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:	September 14, 2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 13, 2018
Flight Time:	(Estimated) 100 hours (Total, all aircraft), 80 hours (Total, this make and model), 56 hours (Pilot In Command, all aircraft), 3 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

### **Aircraft and Owner/Operator Information**

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Aircraft Make:	Cessna	Registration:	N4916B
Model/Series:	152 No Series	Aircraft Category:	Airplane
Year of Manufacture:	1979	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	15283704
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1700 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:	Not installed	Engine Model/Series:	0-235 SERIES
Registered Owner:		Rated Power:	
Operator:		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:	KBGR,192 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	20:53 Local	Direction from Accident Site:	144°
<b>Lowest Cloud Condition:</b>		Visibility	10 miles
Lowest Ceiling:	Overcast / 10000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	260°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.86 inches Hg	Temperature/Dew Point:	15°C / -2°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Rockland, ME (RKD )	Type of Flight Plan Filed:	None
<b>Destination:</b>	Bangor, ME (BGR)	Type of Clearance:	VFR
Departure Time:	16:30 Local	Type of Airspace:	Class C

## **Airport Information**

Airport:	BANGOR INTL BGR	Runway Surface Type:	Asphalt
Airport Elevation:	192 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	33	IFR Approach:	None
Runway Length/Width:	11440 ft / 200 ft	VFR Approach/Landing:	Full stop;Traffic pattern

# Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 1 None	Latitude, Longitude:	44.808055,-68.829444(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Benhoff, Kathryn

Additional Participating Persons: Paul G Gallant; FAA; Portlant, ME

Original Publish Date: November 6, 2019

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

the NTSB.

Investigation Docket: <a href="https://data.ntsb.gov/Docket?ProjectID=99282">https://data.ntsb.gov/Docket?ProjectID=99282</a>

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 <a href="here">here</a>.

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