



# **Aviation Investigation Final Report**

Location: Frederick, Maryland Accident Number: GAA18CA578

Date & Time: September 19, 2018, 16:30 Local Registration: N56PE

Aircraft: Cirrus SR22 Aircraft Damage: Substantial

**Defining Event:** Abnormal runway contact **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

The pilot reported that, after completing an instructional flight, he dropped off the flight instructor and flew back to his home airport. During landing, the airplane porpoised, and the nose landing gear collapsed.

The airplane sustained substantial damage to the lower fuselage.

The pilot reported that there were no mechanical malfunctions or failures 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 the airplane porpoising.

#### **Findings**

Personnel issues Aircraft control - Pilot

Aircraft Landing flare - Not attained/maintained

### **Factual Information**

### History of Flight

Landing-flare/touchdown	Abnormal runway contact (Defining event)	
Landing-flare/touchdown	Landing gear collapse	

#### **Pilot Information**

Certificate:	Private	Age:	62,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
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:	June 16, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 10, 2018
Flight Time:	(Estimated) 381 hours (Total, all aircraft), 53 hours (Total, this make and model)		

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

Aircraft Make:	Cirrus	Registration:	N56PE
Model/Series:	SR22	Aircraft Category:	Airplane
Year of Manufacture:	2010	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	3634
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	March 6, 2018 Annual	Certified Max Gross Wt.:	3400 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	574.4 Hrs as of last inspection	Engine Manufacturer:	Continental
ELT:	C126 installed, not activated	Engine Model/Series:	IO-550N
Registered Owner:		Rated Power:	310 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:	KFDK,303 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	20:24 Local	Direction from Accident Site:	266°
<b>Lowest Cloud Condition:</b>	Few / 3600 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	4 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.96 inches Hg	Temperature/Dew Point:	31°C / 14°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Leesburg, VA (JYO)	Type of Flight Plan Filed:	VFR
Destination:	Leesburg, VA (JYO)	Type of Clearance:	None
Departure Time:	16:10 Local	Type of Airspace:	Class D

### **Airport Information**

Airport:	Frederick Muni FDK	Runway Surface Type:	Asphalt
Airport Elevation:	306 ft msl	Runway Surface Condition:	Dry
Runway Used:	05	IFR Approach:	None
Runway Length/Width:	5219 ft / 100 ft	VFR Approach/Landing:	Full stop;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:	39.417499,-77.374443(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Hicks, Michael

Additional Participating Persons: James Logie; FAA; Glen Burnie, MD

Erskin Geer; FAA; Glen Burnie, MD

Original Publish Date: September 26, 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=98330">https://data.ntsb.gov/Docket?ProjectID=98330</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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