



Aviation Investigation Final Report

Location:	Mount Holly, New Jersey	Accident Number:	GAA18CA472
Date & Time:	August 4, 2018, 16:00 Local	Registration:	N1160D
Aircraft:	Cessna 140	Aircraft Damage:	Substantial
Defining Event:	Nose over/nose down	Injuries:	1 Minor
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot in the tailwheel-equipped airplane reported that, during landing, the airplane ballooned and then touched down on the left side of the runway centerline and exited the left side of the runway. The pilot braked hard in the grass safety area to avoid colliding with an airplane on a nearby taxiway, and the airplane subsequently nosed over.

The airplane sustained substantial damage to the vertical stabilizer and the rudder.

The pilot reported that the accident was a result of pilot error.

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 the airplane ballooning upon landing, and his subsequent loss of directional control and excessive brake application.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained
Aircraft	Landing gear brakes system - Incorrect use/operation
Aircraft	Landing flare - Not attained/maintained

Factual Information

History of Flight

Landing-landing roll	Abnormal runway contact
Landing-landing roll	Runway excursion
Landing-landing roll	Nose over/nose down (Defining event)

Pilot Information

Certificate:	Private	Age:	52, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	5-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	December 18, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 21, 2018
Flight Time:	(Estimated) 483 hours (Total, all aircraft), 28 hours (Total, this make and model), 369 hours (Pilot In Command, all aircraft), 43 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N1160D
Model/Series:	140 A	Aircraft Category:	Airplane
Year of Manufacture:	1951	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	15723
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	June 20, 2018 Annual	Certified Max Gross Wt.:	1022 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1161.3 Hrs as of last inspection	Engine Manufacturer:	Continental
ELT:	C91A installed, activated, did not aid in locating accident	Engine Model/Series:	C90-14-F
Registered Owner:	On file	Rated Power:	90 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:	KVAY, 53 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	20:54 Local	Direction from Accident Site:	25°
Lowest Cloud Condition:	Few / 4800 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	260°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.05 inches Hg	Temperature/Dew Point:	31°C / 21°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Mount Holly, NJ (VAY)	Type of Flight Plan Filed:	None
Destination:	Mount Holly, NJ (VAY)	Type of Clearance:	None
Departure Time:	15:30 Local	Type of Airspace:	Class G

Airport Information

Airport:	South Jersey Rgnl VAY	Runway Surface Type:	Asphalt
Airport Elevation:	52 ft msl	Runway Surface Condition:	Dry
Runway Used:	26	IFR Approach:	None
Runway Length/Width:	3881 ft / 50 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	39.942779,-74.845832(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Michael Bauer; FAA; Philadelphia, PA
Original Publish Date:	June 10, 2019
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=98007

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