



# Aviation Investigation Final Report

<b>Location:</b>	Cedar Rapids, Iowa	<b>Accident Number:</b>	GAA18CA156
<b>Date &amp; Time:</b>	March 11, 2018, 14:25 Local	<b>Registration:</b>	N9457K
<b>Aircraft:</b>	Stinson 108	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot reported that, during a three-point landing, the tailwheel touched down first, and as the main landing gear touched down the airplane bounced. He applied more back pressure on the yoke, and as the airplane settled on the main landing gear it veered to the left. He applied right rudder and brake to no avail. Subsequently, the right wingtip struck the ground, and the airplane nosed over.

The airplane sustained substantial damage to the left wing, the right-wing lift strut, and the empennage.

The pilot reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

The automated weather observation system located at the accident airport reported that, about the time of the accident, the wind was from 010° at 6 knots. The pilot landed on runway 9.

## 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 loss of directional control and a nose-over.

## Findings

<b>Aircraft</b>	Landing flare - Not attained/maintained
<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot

## Factual Information

### History of Flight

Landing	Loss of control on ground (Defining event)
Landing	Attempted remediation/recovery
Landing	Nose over/nose down
Landing	Abnormal runway contact

### Pilot Information

Certificate:	Commercial	Age:	58,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:	March 23, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	August 25, 2016
Flight Time:	(Estimated) 764 hours (Total, all aircraft), 324 hours (Total, this make and model), 641 hours (Pilot In Command, all aircraft), 2 hours (Last 90 days, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	Stinson	Registration:	N9457K
Model/Series:	108 2	Aircraft Category:	Airplane
Year of Manufacture:	1947	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	108-2457
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	November 27, 2017 Annual	Certified Max Gross Wt.:	2230 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	2238 Hrs at time of accident	Engine Manufacturer:	FRANKLIN
ELT:	C91 installed, not activated	Engine Model/Series:	6A4-165-B3
Registered Owner:		Rated Power:	165 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KCID, 868 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	19:52 Local	<b>Direction from Accident Site:</b>	246°
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	Overcast / 4600 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	6 knots /	<b>Turbulence Type Forecast/Actual:</b>	/ None
<b>Wind Direction:</b>	10°	<b>Turbulence Severity Forecast/Actual:</b>	/ N/A
<b>Altimeter Setting:</b>	30.2 inches Hg	<b>Temperature/Dew Point:</b>	7°C / -7°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Cedar Rapids, IA (CID )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Cedar Rapids, IA (CID )	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	14:00 Local	<b>Type of Airspace:</b>	Class C

## Airport Information

<b>Airport:</b>	THE EASTERN IOWA CID	<b>Runway Surface Type:</b>	Concrete
<b>Airport Elevation:</b>	869 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	09	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	8600 ft / 150 ft	<b>VFR Approach/Landing:</b>	Full stop

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	41.88639,-91.706947(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Swenson, Eric
<b>Additional Participating Persons:</b>	Brett Hoben; FAA; Ankeny, IA
<b>Original Publish Date:</b>	June 14, 2018
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=96855">https://data.nts.gov/Docket?ProjectID=96855</a>

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