



# Aviation Investigation Final Report

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<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		

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## 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

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<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

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

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	58, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	4-point
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 With waivers/limitations	<b>Last FAA Medical Exam:</b>	March 23, 2017
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	August 25, 2016
<b>Flight Time:</b>	(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

<b>Aircraft Make:</b>	Stinson	<b>Registration:</b>	N9457K
<b>Model/Series:</b>	108 2	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1947	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	108-2457
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	November 27, 2017 Annual	<b>Certified Max Gross Wt.:</b>	2230 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	2238 Hrs at time of accident	<b>Engine Manufacturer:</b>	FRANKLIN
<b>ELT:</b>	C91 installed, not activated	<b>Engine Model/Series:</b>	6A4-165-B3
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	165 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	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>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<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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