



# Aviation Investigation Final Report

<b>Location:</b>	Salem, Oregon	<b>Accident Number:</b>	GAA17CA359
<b>Date &amp; Time:</b>	June 14, 2017, 16:30 Local	<b>Registration:</b>	N4877Q
<b>Aircraft:</b>	Cessna A188	<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 137: Agricultural		

## Analysis

The pilot reported that, during the takeoff roll for an agricultural flight, the airplane drifted left of the runway center, and the left wing and spray boom encountered tall grass. Subsequently, the airplane spun about 270°.

The airplane sustained substantial damage to both wings and the fuselage.

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

The pilot reported in the Operator/Owner Safety Recommendation section of NTSB Form 6120.1 that the tall grass next to the runway "will be maintained shorter."

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's failure to maintain directional control during the takeoff roll, which resulted in the airplane contacting tall grass.

## Findings

<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot
<b>Environmental issues</b>	Debris/dirt/foreign object - Effect on operation

## Factual Information

### History of Flight

Takeoff	Loss of control on ground (Defining event)
Takeoff	Collision with terr/obj (non-CFIT)

### Pilot Information

Certificate:	Commercial	Age:	40,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Single
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	January 16, 2017
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	October 25, 2015
Flight Time:	(Estimated) 2230 hours (Total, all aircraft), 30 hours (Total, this make and model), 2100 hours (Pilot In Command, all aircraft), 230 hours (Last 90 days, all aircraft), 109 hours (Last 30 days, all aircraft), 7 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N4877Q
Model/Series:	A188 B	Aircraft Category:	Airplane
Year of Manufacture:	1976	Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	18802613T
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	April 11, 2017 100 hour	Certified Max Gross Wt.:	4200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	11505.2 Hrs as of last inspection	Engine Manufacturer:	Continental
ELT:	Not installed	Engine Model/Series:	IO-550D10B
Registered Owner:		Rated Power:	300 Horsepower
Operator:		Operating Certificate(s) Held:	Agricultural aircraft (137)

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KSLE, 201 ft msl	<b>Distance from Accident Site:</b>	11 Nautical Miles
<b>Observation Time:</b>	23:56 Local	<b>Direction from Accident Site:</b>	197°
<b>Lowest Cloud Condition:</b>	Scattered / 4400 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	/ None
<b>Wind Direction:</b>	250°	<b>Turbulence Severity Forecast/Actual:</b>	/ N/A
<b>Altimeter Setting:</b>	30.05 inches Hg	<b>Temperature/Dew Point:</b>	19°C / 7°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Salem, OR (OR38)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Salem, OR (OR38)	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	16:30 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	HARCHENKO INDUSTRIAL OR38	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	183 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	25	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	2290 ft / 75 ft	<b>VFR Approach/Landing:</b>	None

## 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>	45.079444,-122.927223(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Swenson, Eric
<b>Additional Participating Persons:</b>	Joe Mollahan; FAA; Hillsboro, OR
<b>Original Publish Date:</b>	August 22, 2017
<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=95422">https://data.nts.gov/Docket?ProjectID=95422</a>

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