



# Aviation Investigation Final Report

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<b>Location:</b>	Show Low, Arizona	<b>Accident Number:</b>	GAA15CA271
<b>Date &amp; Time:</b>	September 23, 2015, 10:30 Local	<b>Registration:</b>	N5207G
<b>Aircraft:</b>	Cessna 305A	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

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## Analysis

The pilot of a tailwheel equipped airplane reported that he used a "standard crosswind technique" during the final approach, but just before touchdown the nose of the airplane shifted 25 degrees to the left of the runway centerline. After touchdown, the pilot attempted to correct with the rudder and ailerons, but the airplane veered to the left and exited the runway surface. During the runway excursion the right main landing gear collapsed and the right wing impacted the terrain. The right wing sustained substantial damage.

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

### METEOROLOGICAL INFORMATION

The pilot reported that there was a crosswind during the final approach, and the wind shifted to a quartering tailwind during the touchdown. About the time of the accident at the airport, an automated weather observing system reported the wind at 020 degrees true at 5 knots, which resulted in a quartering tailwind.

## 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 landing in quartering tailwind conditions, which resulted in a runway excursion and a right main landing gear collapse.

## Findings

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<b>Personnel issues</b>	Aircraft control - Pilot
<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Environmental issues</b>	Tailwind - Ability to respond/compensate

## Factual Information

### History of Flight

<b>Landing-landing roll</b>	Other weather encounter
<b>Landing-landing roll</b>	Loss of control on ground (Defining event)
<b>Landing-landing roll</b>	Runway excursion
<b>Landing-landing roll</b>	Collision with terr/obj (non-CFIT)

### Pilot Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	75
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Front
<b>Other Aircraft Rating(s):</b>	Helicopter	<b>Restraint Used:</b>	4-point
<b>Instrument Rating(s):</b>	Airplane; Helicopter	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane single-engine	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 With waivers/limitations	<b>Last FAA Medical Exam:</b>	January 4, 2013
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	August 26, 2015
<b>Flight Time:</b>	(Estimated) 9100 hours (Total, all aircraft), 570 hours (Total, this make and model), 8500 hours (Pilot In Command, all aircraft), 20 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

### Pilot-rated passenger Information

<b>Certificate:</b>	Private	<b>Age:</b>	57
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Rear
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	4-point
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	Yes
<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>	September 5, 2015
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	June 25, 2014
<b>Flight Time:</b>	(Estimated) 532 hours (Total, all aircraft), 1 hours (Total, this make and model), 381 hours (Pilot In Command, all aircraft), 38 hours (Last 90 days, all aircraft), 0 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N5207G
<b>Model/Series:</b>	305A	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1951	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Utility	<b>Serial Number:</b>	21645
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	September 1, 2015 Annual	<b>Certified Max Gross Wt.:</b>	2300 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	10653.8 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>	C91A installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-470-11B
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	213 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>	KSOW,6415 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	17:55 Local	<b>Direction from Accident Site:</b>	0°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	5 knots /	<b>Turbulence Type Forecast/Actual:</b>	/ None
<b>Wind Direction:</b>	20°	<b>Turbulence Severity Forecast/Actual:</b>	/ N/A
<b>Altimeter Setting:</b>	30.26 inches Hg	<b>Temperature/Dew Point:</b>	20°C / 9°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	GOODYEAR, AZ (GYR)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Show Low, AZ (SOW)	<b>Type of Clearance:</b>	VFR flight following
<b>Departure Time:</b>	09:00 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	SHOW LOW RGNL SOW	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	6415 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	24	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	7200 ft / 100 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None	<b>Latitude, Longitude:</b>	34.265277,-110.006668(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Gerhardt, Adam
<b>Additional Participating Persons:</b>	Dane L Guynn; Scottsdale FSDO (FAA); Scottsdale, AZ
<b>Original Publish Date:</b>	December 3, 2015
<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=92038">https://data.nts.gov/Docket?ProjectID=92038</a>

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