



AVIATION



HIGHWAY



MARINE



RAILROAD



PIPELINE

# Aviation Investigation Final Report

<b>Location:</b>	Goodyear, Arizona	<b>Accident Number:</b>	GAA18CA381
<b>Date &amp; Time:</b>	June 22, 2018, 21:14 Local	<b>Registration:</b>	N7072Y
<b>Aircraft:</b>	Piper PA 30	<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 - Instructional		

## Analysis

The flight instructor reported that, while landing at night, the pilot receiving instruction allowed the twin-engine airplane to drift left of the centerline at touchdown. The pilot then overcorrected with right rudder, the airplane veered to the right, and the pilot then locked the brakes. The airplane continued to veer right and exited the runway.

The flight instructor added that he did not ask for the flight controls but that he did ask the pilot to release the brakes; however, the pilot did not do so. After exiting the runway, the flight instructor had only right rudder and nosewheel steering and "fishtailed" the airplane further to the right before the left main landing gear collapsed.

The airplane sustained substantial damage to the left wing.

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

The automated weather observation system on the airport reported that, about the time of the accident, the wind was from 230° at 9 knots. The pilot landed the airplane on runway 21.

## Probable Cause and Findings

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

The pilot receiving instruction's failure to maintain directional control during the landing roll.

## Findings

<b>Aircraft</b>	Directional control - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Student/instructed pilot
<b>Environmental issues</b>	Crosswind - Effect on operation

## Factual Information

### History of Flight

<b>Landing</b>	Loss of control on ground (Defining event)
<b>Landing</b>	Attempted remediation/recovery
<b>Landing</b>	Runway excursion
<b>Landing</b>	Landing gear collapse

### Flight instructor Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	59,Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Lap only
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane multi-engine; Airplane single-engine; Instrument airplane	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	December 21, 2016
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	January 24, 2018
<b>Flight Time:</b>	(Estimated) 10000 hours (Total, all aircraft), 88 hours (Total, this make and model), 8505 hours (Pilot In Command, all aircraft), 101 hours (Last 90 days, all aircraft), 33 hours (Last 30 days, all aircraft)		

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	39,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>	Lap only
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	August 7, 2017
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	(Estimated)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Piper	<b>Registration:</b>	N7072Y
<b>Model/Series:</b>	PA 30 NO SERIES	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1963	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	30-85
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	100 hour	<b>Certified Max Gross Wt.:</b>	3600 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	IO-320-B
<b>Registered Owner:</b>		<b>Rated Power:</b>	160 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>	FlyGoodyear	<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Night
<b>Observation Facility, Elevation:</b>	KGYR, 968 ft msl	<b>Distance from Accident Site:</b>	1 Nautical Miles
<b>Observation Time:</b>	03:47 Local	<b>Direction from Accident Site:</b>	227°
<b>Lowest Cloud Condition:</b>	Few / 25000 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	9 knots /	<b>Turbulence Type Forecast/Actual:</b>	None / None
<b>Wind Direction:</b>	230°	<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	29.63 inches Hg	<b>Temperature/Dew Point:</b>	37°C / 4°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Goodyear, AZ (GYR )	<b>Type of Flight Plan Filed:</b>	VFR
<b>Destination:</b>	Victorville, CA (VCV )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	21:00 Local	<b>Type of Airspace:</b>	Class D

## Airport Information

<b>Airport:</b>	PHOENIX GOODYEAR GYR	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	968 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	21	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	8500 ft / 150 ft	<b>VFR Approach/Landing:</b>	Full stop;Stop and go;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 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>	2 None	<b>Latitude, Longitude:</b>	33.42472,-112.373054(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Swenson, Eric
<b>Additional Participating Persons:</b>	Juan Arjona; FAA; Scottsdale, AZ
<b>Original Publish Date:</b>	March 18, 2019
<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=97613">https://data.nts.gov/Docket?ProjectID=97613</a>

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