



National Transportation Safety Board Aviation Accident Final Report

Location:	Harlingen, TX	Accident Number:	GAA16CA225
Date & Time:	05/01/2016, 1730 CDT	Registration:	N13BF
Aircraft:	AVIAT AIRCRAFT INC A-1C-180	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that he bounced once during the landing touchdown in crosswind conditions, and subsequently ground looped to the left. During the ground loop, the right main landing gear collapsed and the right wing was substantially damaged when it impacted the runway.

An automated weather observing system, about the time of the accident, reported the wind at 080 degrees true at 14 knots, for the landing on runway 17 left.

The pilot did not report any mechanical malfunctions or failures with the airplane that would have precluded normal operation.

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 landing roll in crosswind conditions, which resulted in a ground loop and substantial damage to the right wing.

Findings

Aircraft	Directional control - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Pilot (Cause)
Environmental issues	Crosswind - Response/compensation

Factual Information

History of Flight

Landing-landing roll	Other weather encounter Loss of control on ground (Defining event) Landing gear collapse Abnormal runway contact
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Pilot Information

Certificate:	Private	Age:	63, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With Waivers/Limitations	Last Medical Exam:	01/28/2016
Occupational Pilot:	No	Last Flight Review or Equivalent:	

Flight Time:

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	AVIAT AIRCRAFT INC	Registration:	N13BF
Model/Series:	A-1C-180 UNDESIGNAT	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	3021
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1800 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	O-360-A1P
Registered Owner:	On file	Rated Power:	180 hp
Operator:	On file	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KHRL, 36 ft msl	Observation Time:	2252 UTC
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	0°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Scattered / 2700 ft agl	Temperature/Dew Point:	31°C / 23°C
Lowest Ceiling:	Overcast / 3700 ft agl	Visibility	8 Miles
Wind Speed/Gusts, Direction:	14 knots, 80°	Visibility (RVR):	
Altimeter Setting:	29.71 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	RIO GRANDE CITY, TX (67R)	Type of Flight Plan Filed:	None
Destination:	Harlingen, TX (HRL)	Type of Clearance:	VFR
Departure Time:	2300 UTC	Type of Airspace:	Class C

Airport Information

Airport:	VALLEY INTL (HRL)	Runway Surface Type:	Asphalt
Airport Elevation:	36 ft	Runway Surface Condition:	Dry
Runway Used:	17L	IFR Approach:	None
Runway Length/Width:	5949 ft / 150 ft	VFR Approach/Landing:	Full Stop; Traffic Pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None		

Administrative Information

Investigator In Charge (IIC):	Adam M Gerhardt	Adopted Date:	07/25/2016
Additional Participating Persons:	Carlos F Gallardo; FAA; San Antonio, TX		
Publish Date:	07/25/2016		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.ntsb.gov/pubdms/search/dockList.cfm?mKey=93135		

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

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