



Aviation Investigation Final Report

Location:	Phoenix, Arizona	Accident Number:	GAA18CA091
Date & Time:	December 19, 2017, 15:15 Local	Registration:	N33HY
Aircraft:	AVIAT AIRCRAFT INC A-1	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

According to the pilot of the tailwheel-equipped airplane, his intent was to perform a wheel landing, but during touchdown, the airplane bounced and a gust of wind lifted the left wing. The pilot applied left stick and right rudder to maintain directional control. The left wing settled, the nose of the airplane yawed to the right, and the tailwheel settled to the runway. The pilot applied aft stick and left rudder, but the left wing lifted again, and the nose yawed to the left. The right wing struck the ground and the airplane exited the runway to the left, where the right main landing gear collapsed. The airplane came to rest on the right wingtip and began leaking fuel.

The airplane sustained substantial damage to the right-wing.

The pilot reported that there were no preaccident 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 of the airplane during the landing.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained
Environmental issues	Gusts - Effect on operation

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Runway excursion
Landing-landing roll	Landing gear collapse

Pilot Information

Certificate:	Private	Age:	57, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	November 27, 2017
Occupational Pilot:	No	Last Flight Review or Equivalent:	April 21, 2016
Flight Time:	(Estimated) 247 hours (Total, all aircraft), 58 hours (Total, this make and model), 138 hours (Pilot In Command, all aircraft), 12 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	AVIAT AIRCRAFT INC	Registration:	N33HY
Model/Series:	A-1 B	Aircraft Category:	Airplane
Year of Manufacture:	2007	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	2410
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	September 19, 2017 Annual	Certified Max Gross Wt.:	2200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	718 Hrs at time of accident	Engine Manufacturer:	LYCOMING
ELT:	C126 installed, not activated	Engine Model/Series:	O-360-A1P
Registered Owner:	On file	Rated Power:	180 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KDVT,1455 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	21:53 Local	Direction from Accident Site:	129°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/ None
Wind Direction:		Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	30.15 inches Hg	Temperature/Dew Point:	17°C / 1°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Phoenix, AZ (DVT)	Type of Flight Plan Filed:	None
Destination:	Phoenix, AZ (DVT)	Type of Clearance:	None
Departure Time:	14:00 Local	Type of Airspace:	Class D

Airport Information

Airport:	PHOENIX DEER VALLEY DVT	Runway Surface Type:	Asphalt
Airport Elevation:	1478 ft msl	Runway Surface Condition:	Dry
Runway Used:	25L	IFR Approach:	None
Runway Length/Width:	8196 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	33.688331,-112.082496(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Michael
Additional Participating Persons:	Mark Pritchett; FAA; Scottsdale, AZ
Original Publish Date:	July 5, 2018
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=96516

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