



Aviation Investigation Final Report

Location:	West Jordon, Utah	Accident Number:	WPR10CA088
Date & Time:	December 19, 2009, 12:30 Local	Registration:	N17HY
Aircraft:	Aviat A1-A	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported that while on final approach a crosswind gust pushed the nose of the airplane to the left. The pilot corrected back to the runway centerline and after landing "...a wind gust turned the tail and accelerated a right turn or a ground loop. The left wing touched the ground and the left gear collapsed." The undercarriage of the airplane where the left main gear attaches to the fuselage sustained substantial damage.

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 roll in gusting wind conditions.

Findings

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

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Collision with terr/obj (non-CFIT)
Landing-landing roll	Landing gear collapse

Pilot Information

Certificate:	Private	Age:	45, 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 FAA Medical Exam:	August 14, 2009
Occupational Pilot:	No	Last Flight Review or Equivalent:	August 21, 2008
Flight Time:	305 hours (Total, all aircraft), 105 hours (Total, this make and model), 305 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 12 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Aviat	Registration:	N17HY
Model/Series:	A1-A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	1454
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	December 7, 2009 Annual	Certified Max Gross Wt.:	1890 lbs
Time Since Last Inspection:	2 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	506 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	O-360
Registered Owner:	John B. McDonald	Rated Power:	180 Horsepower
Operator:	John B. McDonald	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	SLC,4227 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	13:53 Local	Direction from Accident Site:	240°
Lowest Cloud Condition:	Few / 1800 ft AGL	Visibility	2 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	7 knots / 10 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	240°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.36 inches Hg	Temperature/Dew Point:	-6°C / -4°C
Precipitation and Obscuration:	Light - Partial - Mist		
Departure Point:	West Jordon, UT (U42)	Type of Flight Plan Filed:	None
Destination:	Salt Lake City, UT (SLC)	Type of Clearance:	None
Departure Time:	11:45 Local	Type of Airspace:	

Airport Information

Airport:	South Valley Airport U42	Runway Surface Type:	Asphalt
Airport Elevation:	4607 ft msl	Runway Surface Condition:	Dry
Runway Used:	16	IFR Approach:	None
Runway Length/Width:	5860 ft / 100 ft	VFR Approach/Landing:	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	40.619445,-111.992774

Administrative Information

Investigator In Charge (IIC):	Little, Thomas
Additional Participating Persons:	Mark M Rushton; Federal Aviation Administration; Salt Lake City, UT
Original Publish Date:	March 23, 2010
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=75184

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