



Aviation Investigation Final Report

Location:	San Antonio, Texas	Accident Number:	GAA16CA481
Date & Time:	September 8, 2016, 18:28 Local	Registration:	N178
Aircraft:	Stinson L 5	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 Minor, 1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot of a tailwheel equipped airplane reported that during the landing roll, the airplane veered off the runway to the right, ground looped, and nosed over.

The airplane sustained substantial damage to the left wing.

The pilot reported 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 during the landing roll.

Findings

Aircraft	Directional control - Not attained/maintained
Personnel issues	Aircraft control - Pilot

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Runway excursion
Landing-landing roll	Collision with terr/obj (non-CFIT)
Landing-landing roll	Nose over/nose down

Pilot Information

Certificate:	Airline transport; Commercial; Flight instructor	Age:	62,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	August 15, 2016
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	July 7, 2016
Flight Time:	(Estimated) 8004 hours (Total, all aircraft), 5 hours (Total, this make and model), 5832 hours (Pilot In Command, all aircraft), 92 hours (Last 90 days, all aircraft), 34 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Pilot-rated passenger Information

Certificate:	Commercial; Flight instructor	Age:	30,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Rear
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	August 18, 2016
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	August 4, 2015
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	Stinson	Registration:	N178
Model/Series:	L 5 UNDESIGNAT	Aircraft Category:	Airplane
Year of Manufacture:	1945	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	3571
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	August 3, 2016 Annual	Certified Max Gross Wt.:	2200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3064.7 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	O-435-1
Registered Owner:		Rated Power:	185 Horsepower
Operator:		Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KSSF, 571 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	23:31 Local	Direction from Accident Site:	274°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.89 inches Hg	Temperature/Dew Point:	33°C / 20°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	San Antonio, TX (SSF)	Type of Flight Plan Filed:	None
Destination:	San Antonio, TX (SSF)	Type of Clearance:	VFR; VFR flight following
Departure Time:	18:00 Local	Type of Airspace:	Class D

Airport Information

Airport:	STINSON MUNI SSF	Runway Surface Type:	Asphalt
Airport Elevation:	577 ft msl	Runway Surface Condition:	Dry
Runway Used:	14	IFR Approach:	None
Runway Length/Width:	4128 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 1 None	Latitude, Longitude:	29.338888,-98.470001(est)

Administrative Information

Investigator In Charge (IIC):	Vanover, Jackie
Additional Participating Persons:	Frank G Fortmann; FAA; San Antonio, TX
Original Publish Date:	January 18, 2017
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=94003

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.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).