



National Transportation Safety Board Aviation Accident Final Report

Location:	Saratoga, WY	Accident Number:	GAA16CA354
Date & Time:	06/30/2016, 2000 MDT	Registration:	N60691
Aircraft:	CESSNA 188	Aircraft Damage:	Substantial
Defining Event:	Runway excursion	Injuries:	1 None
Flight Conducted Under:	Part 137: Agricultural		

Analysis

The pilot of the tailwheel-equipped airplane reported that he landed on an asphalt runway after completing an aerial application flight. He reported that during the landing roll, he ground looped the airplane to the right, the airplane exited the runway to the right, and the left wing struck the taxiway indicator sign. The left aileron sustained substantial damage.

The pilot reported that there were no mechanical failures or anomalies with any portion of the airplane that would have prevented normal flight 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 roll resulting in substantial damage.

Findings

Aircraft	Directional control - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Pilot (Cause)
Environmental issues	Sign/marker - Contributed to outcome

Factual Information

History of Flight

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

Pilot Information

Certificate:	Commercial	Age:	43, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Without Waivers/Limitations	Last Medical Exam:	12/03/2015
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	04/08/2016
Flight Time:	(Estimated) 1036.8 hours (Total, all aircraft), 168 hours (Total, this make and model), 936 hours (Pilot In Command, all aircraft), 198 hours (Last 90 days, all aircraft), 67 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N60691
Model/Series:	188 B	Aircraft Category:	Airplane
Year of Manufacture:	1976	Amateur Built:	No
Airworthiness Certificate:	Restricted	Serial Number:	18802806T
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	4000 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:	Not installed	Engine Model/Series:	IO-520-D2313
Registered Owner:	Kevin Helfley	Rated Power:	300 hp
Operator:	On file	Air Carrier Operating Certificate:	Agricultural Aircraft (137)

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KSAA, 7016 ft msl	Observation Time:	0355 UTC
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Dusk
Direction from Accident Site:	316°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:		Temperature/Dew Point:	15°C / 10°C
Lowest Ceiling:	Broken / 10000 ft agl	Visibility	10 Miles
Wind Speed/Gusts, Direction:	4 knots, 100°	Visibility (RVR):	
Altimeter Setting:	30.23 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Saratoga, WY (SAA)	Type of Flight Plan Filed:	None
Destination:	Saratoga, WY (SAA)	Type of Clearance:	None
Departure Time:	1900 MDT	Type of Airspace:	Class G

Airport Information

Airport:	SHIVELY FIELD (SAA)	Runway Surface Type:	Asphalt
Airport Elevation:	7015 ft	Runway Surface Condition:	Wet
Runway Used:	05	IFR Approach:	None
Runway Length/Width:	8801 ft / 100 ft	VFR Approach/Landing:	Full Stop; Straight-in

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):	Michael A Hicks	Adopted Date:	12/05/2016
Additional Participating Persons:	Eric Hortsmeyer; FAA; Denver, CO		
Publish Date:	12/05/2016		
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=93528		

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.