



National Transportation Safety Board Aviation Accident Final Report

Location:	Centennial, CO	Accident Number:	CEN10CA366
Date & Time:	07/02/2010, 1341 PDT	Registration:	N80HY
Aircraft:	AVIAT AIRCRAFT INC A-1B	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The certified flight instructor (CFI) and private pilot student were conducting tailwheel certification training. During the third flight of the day, after practicing 3-point landings, the student pilot was performing an additional 3-point landing after having just practiced main wheel landings. The CFI described the pattern and approach as being normal. During the roll out and while slowing the airplane down, it began to drift left. The CFI called for right rudder and the airplane began drifting right of centerline. After calling for left rudder the CFI attempted to regain control using rudder and power. The airplane entered a violent turn to the left, exited the runway, and flipped over going down an embankment. The right wing spar and horizontal stabilizer were bent.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The student pilot's failure to maintain directional control and the certified flight instructor's delay in remedial action.

Findings

Aircraft	Directional control - Not attained/maintained (Cause)
Personnel issues	Delayed action - Instructor/check pilot (Cause)

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event) Attempted remediation/recovery Runway excursion
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Flight Instructor Information

Certificate:	Flight Instructor; Commercial	Age:	69, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 With Waivers/Limitations	Last Medical Exam:	09/23/2009
Occupational Pilot:		Last Flight Review or Equivalent:	09/13/2008
Flight Time:	21000 hours (Total, all aircraft), 300 hours (Total, this make and model), 70 hours (Last 90 days, all aircraft), 21 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	AVIAT AIRCRAFT INC	Registration:	N80HY
Model/Series:	A-1B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	2288
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	65 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-360 SERIES
Registered Owner:	Steven McFarland`	Rated Power:	180 hp
Operator:	Steven McFarland`	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:		Observation Time:	
Distance from Accident Site:		Condition of Light:	Day
Direction from Accident Site:		Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:		Temperature/Dew Point:	
Lowest Ceiling:	None	Visibility	
Wind Speed/Gusts, Direction:	5 knots/ 8 knots, Variable	Visibility (RVR):	
Altimeter Setting:		Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Centennial, CO (APA)	Type of Flight Plan Filed:	None
Destination:	Centennial, CO (APA)	Type of Clearance:	None
Departure Time:	PDT	Type of Airspace:	

Airport Information

Airport:	Centennial Airport (APA)	Runway Surface Type:	Concrete
Airport Elevation:		Runway Surface Condition:	
Runway Used:	35L	IFR Approach:	Visual
Runway Length/Width:		VFR Approach/Landing:	Full Stop

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	
Total Injuries:	2 None		

Administrative Information

Investigator In Charge (IIC):	Daniel Baker	Adopted Date:	10/21/2010
Additional Participating Persons:			
Publish Date:	10/21/2010		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=76514		

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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