



National Transportation Safety Board Aviation Accident Final Report

Location:	Orangeburg, SC	Accident Number:	GAA16CA181
Date & Time:	04/03/2016, 0850 EDT	Registration:	N2124E
Aircraft:	CESSNA 172	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported while practicing take offs and landings, he made a standard approach and landing to runway 35. On takeoff, he reduced the flaps to zero degrees and he reported that the airplane was under control and over the runway centerline. After he applied full power and right rudder before lifting off the ground, the airplane started turning to the left sharply. He applied additional right rudder, he reduced the power, and applied full brakes. The airplane departed the runway to left into a swamp and nosed over. The airplane sustained substantial damage to the right wing and the firewall.

The pilot verified that there were no preimpact mechanical failures or malfunctions with the airframe or engine that would have precluded normal operation.

The pilot reported that the wind velocity at the accident site was 6 to 7 knots and the wind direction was 330 degrees. The weather reporting facility at the accident site reported that about 3 minutes after the accident time that the wind velocity was 7 knots and the wind direction was 310 degrees.

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 takeoff, resulting in a runway excursion and a nose over.

Findings

Aircraft	Directional control - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Pilot (Cause)

Factual Information

History of Flight

Takeoff	Loss of control on ground (Defining event) Attempted remediation/recovery Runway excursion Nose over/nose down Collision with terr/obj (non-CFIT)
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Pilot Information

Certificate:	Foreign; Private; Recreational	Age:	36, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
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 None	Last Medical Exam:	01/11/2016
Occupational Pilot:	No	Last Flight Review or Equivalent:	03/10/2016
Flight Time:	(Estimated) 100 hours (Total, all aircraft), 3 hours (Total, this make and model), 35 hours (Pilot In Command, all aircraft), 3 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N2124E
Model/Series:	172 N	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	17271163
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	11/25/2015, Annual	Certified Max Gross Wt.:	2550 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3750 Hours	Engine Manufacturer:	Lycoming
ELT:	C91 installed, activated, did not aid in locating accident	Engine Model/Series:	O-360-A4M
Registered Owner:	DBA JOYE AVIATION	Rated Power:	180 hp
Operator:	On file	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KOGB, 197 ft msl	Observation Time:	1253 UTC
Distance from Accident Site:	1 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	9°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	13°C / 3°C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	7 knots, 310°	Visibility (RVR):	
Altimeter Setting:	30.04 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Orangeburg, SC (OGB)	Type of Flight Plan Filed:	None
Destination:	Orangeburg, SC (OGB)	Type of Clearance:	None
Departure Time:	0800 EDT	Type of Airspace:	Class G

Airport Information

Airport:	ORANGEBURG MUNI (OGB)	Runway Surface Type:	Asphalt
Airport Elevation:	195 ft	Runway Surface Condition:	Dry
Runway Used:	35	IFR Approach:	None
Runway Length/Width:	5399 ft / 100 ft	VFR Approach/Landing:	Touch and Go; Traffic Pattern

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 J Hodges	Adopted Date:	06/01/2016
Additional Participating Persons:	Marshall S Bogan; FAA South Carolina FSDO; West Columbia, SC		
Publish Date:	06/01/2016		
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=92984		

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