



National Transportation Safety Board Aviation Accident Final Report

Location:	Newton, IA	Accident Number:	GAA16CA093
Date & Time:	01/02/2016, 1000 CST	Registration:	N947SP
Aircraft:	CESSNA 172	Aircraft Damage:	Substantial
Defining Event:	Runway excursion	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

According to the pilot, his intent was to perform a touch and go landing on a runway with patches of snow extending from the approach end to the departure end. The pilot reported that the touchdown and landing roll were uneventful. He reported that as he aborted the landing and configured the airplane for takeoff, he retracted the flaps, advanced the throttle and applied right rudder. He recalled that when he advanced the throttle, the airplane immediately made a sharp left turn, exited the runway to the left, and impacted the residual snow that was previously cleared from the runway. The airplane nosed over and the pilot exited the runway under his own power. The airplane sustained substantial damage to the vertical stabilizer and both wings.

The pilot reported that there were no mechanical failures or anomalies prior to or during the flight 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 airplane control during the takeoff, resulting in a runway excursion, and airplane nose over.

Findings

Aircraft	Directional control - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Pilot (Cause) Decision making/judgment - Pilot
Environmental issues	Snowy/icy terrain - Decision related to condition Snow/ice - Effect on equipment Snow/slush/ice covered surface - Decision related to condition

Factual Information

History of Flight

Landing-aborted after touchdown	Loss of control on ground Runway excursion (Defining event) Collision during takeoff/land Collision with terr/obj (non-CFIT) Nose over/nose down
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Pilot Information

Certificate:	Private	Age:	52, 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 Medical Exam:	12/11/2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	10/09/2015
Flight Time:	(Estimated) 121 hours (Total, all aircraft), 121 hours (Total, this make and model), 14 hours (Pilot In Command, all aircraft), 21 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N947SP
Model/Series:	172 S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	172S8142
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	11/14/2015, 100 Hour	Certified Max Gross Wt.:	2299 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	8347 Hours	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	IO-360
Registered Owner:	CENTRAL IOWA AVIATION LLC	Rated Power:	180 hp
Operator:	CENTRAL IOWA AVIATION LLC	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	TNU, 952 ft msl	Observation Time:	1555 UTC
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	0°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	-9° C / -10° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	6 knots, 250°	Visibility (RVR):	
Altimeter Setting:	30.18 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	ANKENY, IA (IKV)	Type of Flight Plan Filed:	None
Destination:	Newton, IA (TNU)	Type of Clearance:	None
Departure Time:	0930 CST	Type of Airspace:	Class E

Airport Information

Airport:	NEWTON MUNI-EARL JOHNSON FIELD (TNU)	Runway Surface Type:	Asphalt
Airport Elevation:	952 ft	Runway Surface Condition:	Ice; Snow
Runway Used:	32	IFR Approach:	None
Runway Length/Width:	5599 ft / 100 ft	VFR Approach/Landing:	None

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:	04/05/2016
Additional Participating Persons:	Patrick T Blaskovich; Federal Aviation Administration; Ankeny, IA Terence T Carr; Federal Aviation Administration; Ankeny, IA		
Publish Date:	04/05/2016		
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=92525		

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