



National Transportation Safety Board Aviation Accident Final Report

Location:	Reno, NV	Accident Number:	GAA19CA113
Date & Time:	01/29/2019, 0930 PST	Registration:	N670CS
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 solo student pilot reported that, during the takeoff roll, about 65 knots, he applied aft pressure on the control yoke, and the airplane started to shake. The airplane continued to shake as he applied more aft pressure, so he rejected the takeoff. As he reduced power and released the pressure on the control yoke, the airplane veered right, but he overcorrected, and the airplane veered left, right, and then left again. The airplane exited the runway and impacted a ditch.

The airplane sustained substantial damage to the lower fuselage.

The student reported that there were no preaccident mechanical failures or malfunctions 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 student pilot's failure to maintain directional control during a rejected takeoff, which resulted in a runway excursion and impact with a ditch.

Findings

Aircraft	Directional control - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Student pilot (Cause)
Environmental issues	Sloped/uneven terrain - Effect on operation (Cause)

Factual Information

History of Flight

Takeoff	Miscellaneous/other
Takeoff-rejected takeoff	Loss of control on ground (Defining event)
Takeoff	Collision with terr/obj (non-CFIT)

Student Pilot Information

Certificate:	Student	Age:	30, Male
Airplane Rating(s):	None	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 FAA Medical Exam:	10/23/2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 32 hours (Total, all aircraft), 32 hours (Total, this make and model)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N670CS
Model/Series:	172 S	Aircraft Category:	Airplane
Year of Manufacture:	2002	Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	172S9098
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	01/24/2019, 100 Hour	Certified Max Gross Wt.:	2299 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4426 Hours	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	IO-360-L2A
Registered Owner:	Flying Start Aero Services, LLC	Rated Power:	180 hp
Operator:	Flying Start Aero Services, LLC	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	KMEV, 4726 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	1753 UTC	Direction from Accident Site:	171°
Lowest Cloud Condition:		Visibility	10 Miles
Lowest Ceiling:	Broken / 9500 ft agl	Visibility (RVR):	
Wind Speed/Gusts:	Calm /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.1 inches Hg	Temperature/Dew Point:	4° C / 1° C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Reno, NV (RNO)	Type of Flight Plan Filed:	None
Destination:	Reno, NV (MEV)	Type of Clearance:	None
Departure Time:	0845 PST	Type of Airspace:	Class G

Airport Information

Airport:	Minden-Tahoe (MEV)	Runway Surface Type:	Asphalt
Airport Elevation:	4723 ft	Runway Surface Condition:	Dry
Runway Used:	34	IFR Approach:	None
Runway Length/Width:	7399 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	Latitude, Longitude:	39.000556, -119.751111 (est)

Administrative Information

Investigator In Charge (IIC):	Eleazar Nepomuceno	Report Date:	03/03/2020
Additional Participating Persons:	Frank Vavra; FAA; Reno, NV		
Publish Date:	03/03/2020		
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=98917		

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