



Aviation Investigation Final Report

Location: Wall, South Dakota Accident Number: GAA19CA217

Date & Time: April 14, 2019, 09:30 Local Registration: N277E

Aircraft: Vans VANS RV-12 Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 1 Minor, 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that, during takeoff from a snow- and slush-covered runway, he decided to stay on the right half of the runway. He added that, as the airplane began to rotate and the nose landing gear lifted off the runway, the left main landing gear encountered some slush. The airplane veered left about 15° and exited the runway to the left, the nose landing gear collapsed, and the airplane then nosed over.

The airplane sustained substantial damage to the fuselage and both wings.

The pilot 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 pilot's improper decision to depart from a slush-covered runway, which resulted in a loss of directional control, a runway excursion, and a subsequent nose-over.

Findings

Personnel issues Decision making/judgment - Pilot

Environmental issues Snow/slush/ice covered surface - Decision related to condition

Environmental issues Snow/slush/ice covered surface - Effect on operation

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Factual Information

History of Flight

Takeoff	Miscellaneous/other
Takeoff	Loss of control on ground (Defining event)
Takeoff	Runway excursion
Takeoff	Landing gear collapse
Takeoff	Nose over/nose down

Pilot Information

Certificate:	Sport Pilot	Age:	57.Male
Certificate.	Sport Filot	Age.	37,iviale
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
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:	Sport pilot	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	January 9, 2018
Flight Time:	(Estimated) 195.3 hours (Total, all aircraft), 190.8 hours (Total, this make and model)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Vans	Registration:	N277E
Model/Series:	VANS RV-12 No Series	Aircraft Category:	Airplane
Year of Manufacture:	2014	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	120206
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	June 12, 2018 Condition	Certified Max Gross Wt.:	1320 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1062 Hrs at time of accident	Engine Manufacturer:	Rotax
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	912ULS
Registered Owner:		Rated Power:	100 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KPHP,2212 ft msl	Distance from Accident Site:	28 Nautical Miles
Observation Time:	14:55 Local	Direction from Accident Site:	84°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	9 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	130°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.71 inches Hg	Temperature/Dew Point:	0°C / -3°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Rapid City, SD (RAP)	Type of Flight Plan Filed:	None
Destination:	Wall, SD (6V4)	Type of Clearance:	VFR
Departure Time:		Type of Airspace:	Class G

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Airport Information

Airport:	WALL MUNI 6V4	Runway Surface Type:	Asphalt
Airport Elevation:	2812 ft msl	Runway Surface Condition:	Slush covered;Snow
Runway Used:	30	IFR Approach:	None

VFR Approach/Landing:

None

Wreckage and Impact Information

Runway Length/Width: 3499 ft / 60 ft

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 1 None	Latitude, Longitude:	43.999443,-102.254722(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Kenneth East Jr.; FAA; Rapid City, IA
Original Publish Date:	November 6, 2019
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=99300

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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