



# Aviation Investigation Final Report

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<b>Location:</b>	Yellow Pine, Idaho	<b>Accident Number:</b>	WPR19CA197
<b>Date &amp; Time:</b>	July 20, 2019, 10:15 Local	<b>Registration:</b>	N777DV
<b>Aircraft:</b>	Avid AVID MAGNUM	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Collision during takeoff/land	<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

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## Analysis

The pilot reported that, after the airplane touched down on the grass airstrip and rolled about 130 ft, the nose landing gear impacted a depression and then bent aft. The nosewheel dragged through the grass about 30 ft, and the airplane then nosed over and came to rest inverted. The pilot added that this was the first time he had landed at this airstrip and that he was not aware of the hazards on the rough surface. The airplane sustained substantial damage to the rudder and wing struts. The pilot reported that there were no preaccident mechanical malfunctions or failures 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 land on a rough, grass airstrip, which resulted in the nose landing gear collapsing and a subsequent nose-over.

## Findings

<b>Personnel issues</b>	Decision making/judgment - Pilot
<b>Environmental issues</b>	Rough terrain - Decision related to condition
<b>Environmental issues</b>	Rough terrain - Effect on operation

## Factual Information

### History of Flight

<b>Landing-landing roll</b>	Collision during takeoff/land (Defining event)
<b>Landing-landing roll</b>	Collision with terr/obj (non-CFIT)
<b>Landing-landing roll</b>	Nose over/nose down
<b>Landing-landing roll</b>	Roll over

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	65, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	3-point
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	BasicMed	<b>Last FAA Medical Exam:</b>	June 12, 2019
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	October 31, 2017
<b>Flight Time:</b>	561 hours (Total, all aircraft), 332.8 hours (Total, this make and model), 17.1 hours (Last 90 days, all aircraft), 10.3 hours (Last 30 days, all aircraft), 1.1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Avid	<b>Registration:</b>	N777DV
<b>Model/Series:</b>	AVID MAGNUM No Series	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1998	<b>Amateur Built:</b>	Yes
<b>Airworthiness Certificate:</b>	Normal; Experimental (Special)	<b>Serial Number:</b>	105M
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	April 24, 2019 Condition	<b>Certified Max Gross Wt.:</b>	1750 lbs
<b>Time Since Last Inspection:</b>	17 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	843 Hrs at time of accident	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed	<b>Engine Model/Series:</b>	O-320-E20
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	150 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	4157 ft msl	<b>Distance from Accident Site:</b>	16 Nautical Miles
<b>Observation Time:</b>	09:51 Local	<b>Direction from Accident Site:</b>	270°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.11 inches Hg	<b>Temperature/Dew Point:</b>	13°C / 2°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Yellow Pine, ID (3U2)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Yellow Pine, ID (192)	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	10:00 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	Reed Ranch I92	<b>Runway Surface Type:</b>	Dirt;Grass/turf
<b>Airport Elevation:</b>	4157 ft msl	<b>Runway Surface Condition:</b>	Dry;Soft
<b>Runway Used:</b>	34	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	2175 ft / 100 ft	<b>VFR Approach/Landing:</b>	Straight-in

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Minor	<b>Latitude, Longitude:</b>	44.883888,-115.707496

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Stein, Stephen
<b>Additional Participating Persons:</b>	Brian Lord; Federal Aviation Administration; Boise, ID
<b>Original Publish Date:</b>	May 21, 2020
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=99912">https://data.nts.gov/Docket?ProjectID=99912</a>

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