



Aviation Investigation Final Report

Location: Chandler, Oklahoma Accident Number: GAA19CA237

Date & Time: April 26, 2019, 19:50 Local Registration: N621L

Aircraft: Vans RV 6 Aircraft Damage: Substantial

Defining Event: Nose over/nose down **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot of a tailwheel-equipped airplane reported that, while landing on a grass runway, he applied the brakes and retracted the flaps and that the airplane subsequently nosed over.

The airplane sustained substantial damage to the left wing and vertical stabilizer.

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 overapplication of the brakes during landing on a grass runway, which resulted in a noseover.

Findings

Aircraft Brake - Incorrect use/operation

Personnel issues Aircraft control - Pilot

Personnel issues Use of equip/system - Pilot

Environmental issues Soft surface - Effect on operation

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Factual Information

History of Flight

Landing Nose over/nose down (Defining event)
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Pilot Information

Certificate:	Commercial; Flight instructor	Age:	60,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	4-point
Instrument Rating(s):	Airplane; Helicopter	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	September 10, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	October 26, 2018
Flight Time:	(Estimated) 2670 hours (Total, all aircraft), 112 hours (Total, this make and model), 2004 hours (Pilot In Command, all aircraft), 84 hours (Last 90 days, all aircraft), 45 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Vans	Registration:	N621L
Model/Series:	RV 6 Undesignat	Aircraft Category:	Airplane
Year of Manufacture:	2001	Amateur Built:	Yes
Airworthiness Certificate:	Experimental (Special)	Serial Number:	60002
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	April 19, 2019 Condition	Certified Max Gross Wt.:	1700 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	563 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	YO-360 EXP 57
Registered Owner:		Rated Power:	180 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KCQB,984 ft msl	Distance from Accident Site:	6 Nautical Miles
Observation Time:	01:15 Local	Direction from Accident Site:	154°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	160°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.97 inches Hg	Temperature/Dew Point:	20°C / 7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Norman, OK (OUN)	Type of Flight Plan Filed:	None
Destination:	Chandler, OK (80K6)	Type of Clearance:	None
Departure Time:	19:30 Local	Type of Airspace:	Class G

Airport Information

Airport:	Grass Strip 80K6	Runway Surface Type:	Grass/turf
Airport Elevation:	933 ft msl	Runway Surface Condition:	Dry;Soft;Vegetation
Runway Used:	22	IFR Approach:	None
Runway Length/Width:	2000 ft / 30 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	35.814998,-96.873886(est)

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Administrative Information

Investigator In Charge (IIC): Gutierrez, Eric

Additional Participating Persons: James L Wirt; FAA; Oklahoma City, OK

Original Publish Date: March 20, 2020

Note: This accident report documents the factual circumstances of this accident as described to

the NTSB.

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=99357

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.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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