



National Transportation Safety Board Aviation Accident Final Report

Location:	Cortland, OH	Accident Number:	CEN13CA251
Date & Time:	05/01/2013, 1130 EDT	Registration:	N81610
Aircraft:	ALEXANDER DUANE A RV-8	Aircraft Damage:	Substantial
Defining Event:	Nose over/nose down	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

Before the flight, the pilot called the destination airport to check on the runway conditions. No concerns were reported. During the landing roll on the grass runway, the airplane encountered a soft spot in the runway and nosed over, coming to rest inverted. The empennage and fuselage sustained substantial damage. The pilot stated that there were no mechanical malfunctions or failures with the airplane before the accident.

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 control of the airplane after encountering an unexpected soft spot in the runway during landing.

Findings

Aircraft	Performance/control parameters - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Not specified (Cause)
Environmental issues	Soft surface - Effect on operation (Cause)

Factual Information

History of Flight

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

Certificate:	Private	Age:	55, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With Waivers/Limitations	Last Medical Exam:	05/02/2012
Occupational Pilot:	No	Last Flight Review or Equivalent:	03/02/2013
Flight Time:	650 hours (Total, all aircraft), 100 hours (Total, this make and model), 15 hours (Last 90 days, all aircraft), 15 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	ALEXANDER DUANE A	Registration:	N81610
Model/Series:	RV-8	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental	Serial Number:	80175
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	07/01/2012, Conditional	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	641 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-360
Registered Owner:	On file	Rated Power:	180 hp
Operator:	On file	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KYNG, 1191 ft msl	Observation Time:	1051 EDT
Distance from Accident Site:	7 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	180°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	19° C / 11° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	7 knots, Variable	Visibility (RVR):	
Altimeter Setting:	30.3 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Leesburg, VA (KJYO)	Type of Flight Plan Filed:	None
Destination:	Cortland, OH (8OH5)	Type of Clearance:	None
Departure Time:	1045 EDT	Type of Airspace:	

Airport Information

Airport:	Urban Airport (8OH5)	Runway Surface Type:	Grass/turf
Airport Elevation:	1045 ft	Runway Surface Condition:	Soft
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	2640 ft / 130 ft	VFR Approach/Landing:	Full Stop

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):	Jennifer Rodi	Adopted Date:	07/23/2013
Additional Participating Persons:	Thomas Sanzo; FAA Flight Standards District Office; Cleveland, OH		
Publish Date:	07/23/2013		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.ntsb.gov/pubdms/search/dockList.cfm?mKey=86790		

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