



# **Aviation Investigation Final Report**

Location: Hermiston, Oregon Accident Number: GAA19CA185

Date & Time: March 28, 2019, 14:53 Local Registration: N4250X

Aircraft: Rockwell S 2R Aircraft Damage: Substantial

**Defining Event:** Miscellaneous/other **Injuries:** 1 Minor

Flight Conducted Under: Part 137: Agricultural

### **Analysis**

The pilot reported that, after completing an agricultural application flight, he returned to the airport. He added that, on final, he added flaps and became distracted by a spray handle that became open due to vibration. He took his hand off the control stick to close the spray handle, but because the airplane was improperly trimmed, the airplane pitched down severely. He pitched the nose up to about level, but the main landing gear struck the ground. The airplane bounced and impacted an irrigation system, the right main landing gear separated, and the airplane spun around before coming to rest.

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

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 distraction due to a spray handle opening and his improper pitch trim setting during final approach, which resulted in an excessive pitchdown when he took his hand off the controls to close the handle.

### **Findings**

Aircraft Pitch control - Not attained/maintained

Aircraft Elevator tab control system - Incorrect use/operation

Personnel issues Use of equip/system - Pilot

Personnel issues Attention - Pilot

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## **Factual Information**

## **History of Flight**

Approach-VFR pattern final	Miscellaneous/other (Defining event)
Approach-VFR pattern final	Attempted remediation/recovery
Approach-VFR pattern final	Collision with terr/obj (non-CFIT)
Approach-VFR pattern final	Part(s) separation from AC

#### **Pilot Information**

Certificate:	Commercial	Age:	60,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Single
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	February 28, 2019
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	June 29, 2018
Flight Time:	(Estimated) 12744 hours (Total, all aircraft), 11749 hours (Total, this make and model), 12633 hours (Pilot In Command, all aircraft), 17 hours (Last 90 days, all aircraft), 17 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

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### **Aircraft and Owner/Operator Information**

Aircraft Make:	Rockwell	Registration:	N4250X
Model/Series:	S 2R No Series	Aircraft Category:	Airplane
Year of Manufacture:	1974	Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	2030R
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	March 15, 2019 Annual	Certified Max Gross Wt.:	9200 lbs
Time Since Last Inspection:		Engines:	1 Turbo prop
Airframe Total Time:	19154.9 Hrs as of last inspection	Engine Manufacturer:	GE Aviation
ELT:	Not installed	Engine Model/Series:	M601E-11
Registered Owner:		Rated Power:	751 Horsepower
Operator:		Operating Certificate(s) Held:	Agricultural aircraft (137)

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KHRI,641 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	21:53 Local	Direction from Accident Site:	67°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.11 inches Hg	Temperature/Dew Point:	15°C / 2°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Hermiston, OR (HRI )	Type of Flight Plan Filed:	Unknown
Destination:	Hermiston, OR (HRI )	Type of Clearance:	None
Departure Time:	14:21 Local	Type of Airspace:	Class G

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#### **Airport Information**

Airport:	HERMISTON MUNI HRI	Runway Surface Type:	Asphalt
Airport Elevation:	644 ft msl	Runway Surface Condition:	Dry
Runway Used:	05	IFR Approach:	None
Runway Length/Width:	4501 ft / 75 ft	VFR Approach/Landing:	Straight-in

#### **Wreckage and Impact Information**

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	45.819999,-119.28083(est)

#### **Administrative Information**

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Kevin Marpert; FAA; Portland, OR
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=99194

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 <a href="here">here</a>.

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