



# Aviation Investigation Final Report

<b>Location:</b>	Malin, Oregon	<b>Accident Number:</b>	GAA18CA383
<b>Date &amp; Time:</b>	June 27, 2018, 07:47 Local	<b>Registration:</b>	N151QC
<b>Aircraft:</b>	GRUMMAN ACFT ENG COR- SCHWEIZER G 164	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Aerodynamic stall/spin	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 137: Agricultural		

## Analysis

The pilot reported that, during an agricultural application flight, he misjudged the approach and did not have enough clearance to avoid power lines. The airplane began to sink, and he pulled back on the flight control stick. Subsequently, the airplane aerodynamically stalled and then struck power lines.

The airplane sustained substantial damage to the fuselage, empennage, 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 misjudgment of the approach and his subsequent exceedance of the airplane's critical angle of attack during an agricultural application flight, which resulted in an aerodynamic stall and collision with power lines.

## Findings

<b>Aircraft</b>	Angle of attack - Capability exceeded
<b>Personnel issues</b>	Aircraft control - Pilot
<b>Personnel issues</b>	Monitoring environment - Pilot
<b>Environmental issues</b>	Wire - Effect on operation

## Factual Information

### History of Flight

<b>Maneuvering-low-alt flying</b>	Miscellaneous/other
<b>Maneuvering-low-alt flying</b>	Aerodynamic stall/spin (Defining event)
<b>Maneuvering-low-alt flying</b>	Collision with terr/obj (non-CFIT)

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	29,Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Center
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Unknown
<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>	Class 2 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	January 30, 2018
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	February 11, 2017
<b>Flight Time:</b>	(Estimated) 3625 hours (Total, all aircraft), 2520 hours (Total, this make and model), 3575 hours (Pilot In Command, all aircraft), 320 hours (Last 90 days, all aircraft), 150 hours (Last 30 days, all aircraft), 7 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	GRUMMAN ACFT ENG COR-SCHWEIZER	<b>Registration:</b>	N151QC
<b>Model/Series:</b>	G 164 B	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1978	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Restricted (Special)	<b>Serial Number:</b>	474B
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	1
<b>Date/Type of Last Inspection:</b>	March 1, 2018 Annual	<b>Certified Max Gross Wt.:</b>	5200 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Turbo prop
<b>Airframe Total Time:</b>	4221.5 Hrs as of last inspection	<b>Engine Manufacturer:</b>	Honeywell
<b>ELT:</b>	Not installed	<b>Engine Model/Series:</b>	TPE331-2-201A
<b>Registered Owner:</b>		<b>Rated Power:</b>	715 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	Agricultural aircraft (137)

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KLMT,4092 ft msl	<b>Distance from Accident Site:</b>	2 Nautical Miles
<b>Observation Time:</b>	14:53 Local	<b>Direction from Accident Site:</b>	321°
<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>	None / None
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	N/A / N/A
<b>Altimeter Setting:</b>	30.03 inches Hg	<b>Temperature/Dew Point:</b>	16°C / 9°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Tulelake, CA (081 )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Tulelake, CA (081 )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	07:47 Local	<b>Type of Airspace:</b>	Class G

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<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 None	<b>Latitude, Longitude:</b>	42.11972,-121.694168(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Benhoff, Kathryn
<b>Additional Participating Persons:</b>	Rich Davis; FAA; Portland, OR
<b>Original Publish Date:</b>	March 18, 2019
<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=97621">https://data.nts.gov/Docket?ProjectID=97621</a>

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