



# National Transportation Safety Board Aviation Accident Factual Report

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<b>Location:</b>	Dighton, KS	<b>Accident Number:</b>	DEN06CA081
<b>Date &amp; Time:</b>	06/01/2006, 1700 CDT	<b>Registration:</b>	N14RY
<b>Aircraft:</b>	Grumman G-164B	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 137: Agricultural		

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The airplane was taking off on an aerial application flight. Shortly after lifting off, the airplane's engine lost power. The commercial pilot set the airplane down on the runway toward the departure end. The airplane went off the end of the runway and into a wheat field. The airplane's main gear tires sank into the soft wet soil and the airplane subsequently nosed over causing the engine to fracture and separate from the fuselage and crushing the vertical stabilizer and rudder downward. The pilot sustained minor injuries. Visual meteorological conditions prevailed at the time of the accident. An examination of the airplane's engine revealed that the rocker arm boss on the number 1 cylinder had fractured leaving the exhaust valve on the cylinder closed.

## Pilot Information

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<b>Certificate:</b>	Commercial	<b>Age:</b>	29, Male
<b>Airplane Rating(s):</b>	Single-engine Land	<b>Seat Occupied:</b>	
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	
<b>Instructor Rating(s):</b>		<b>Toxicology Performed:</b>	
<b>Medical Certification:</b>	Class 2	<b>Last FAA Medical Exam:</b>	03/01/2006
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	7206 hours (Total, all aircraft), 3500 hours (Total, this make and model), 28 hours (Last 90 days, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Make:	Grumman	Registration:	N14RY
Model/Series:	G-164B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Restricted	Serial Number:	271B
Landing Gear Type:	Tailwheel	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:		Engine Model/Series:	R-975
Registered Owner:	Root Spraying, Service	Rated Power:	
Operator:	Root Spraying, Service	Operating Certificate(s) Held:	
Operator Does Business As:	Root Spraying Service	Operator Designator Code:	

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:		Visibility	
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	Dighton, KS (K65)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	VFR
Departure Time:	1700 CDT	Type of Airspace:	

## Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:		Runway Surface Condition:	
Runway Used:		IFR Approach:	
Runway Length/Width:		VFR Approach/Landing:	

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	
<b>Total Injuries:</b>	1 Minor	<b>Latitude, Longitude:</b>	38.408889, -97.235833

## Administrative Information

<b>Investigator In Charge (IIC):</b>	David C Bowling
<b>Additional Participating Persons:</b>	
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:pubinquiry@ntsb.gov">pubinquiry@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .