



# Aviation Investigation Final Report

<b>Location:</b>	GOULD, Arkansas	<b>Accident Number:</b>	FTW82DA216
<b>Date &amp; Time:</b>	June 8, 1982, 12:45 Local	<b>Registration:</b>	N731MZ
<b>Aircraft:</b>	CESSNA                      A188B	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 137: Agricultural		

## Analysis

THE PILOT STATED THAT THERE WERE TREES ON THE EAST END OF THE FIELD THAT HE WAS FERTILIZING AND THE WIND WAS FROM THE SOUTHWEST AT 15, GUSTING 20 KTS. THE TEMPERATURE WAS ABOUT 90 DEGREES. THE PILOT REPORTED THAT WHEN HE WAS TURNING TO GO INTO THE FIELD, A GUST OF WIND FROM UNDER THE HIGH WING WAS ENCOUNTERED, AFTER ENCOUNTERING THE GUST, THE PLANE NEARLY BECAME INVERTED. DURING RECOVERY, THE PILOT STARTED DUMPING HIS LOAD, BUT WAS UNABLE TO GET THE PLANE LIGHT ENOUGH TO FLY BEFORE GROUND IMPACT.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

### Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT  
Phase of Operation: MANEUVERING - AERIAL APPLICATION

- Findings
1. (F) WEATHER CONDITION - TEMPERATURE EXTREMES
  2. (F) WEATHER CONDITION - GUSTS
  3. (C) AIRSPEED - INADEQUATE - PILOT IN COMMAND
  4. (C) STALL - INADVERTENT - PILOT IN COMMAND
  5. LOAD JETTISON - INITIATED - PILOT IN COMMAND

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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: MANEUVERING - AERIAL APPLICATION

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	27, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Unknown
<b>Other Aircraft Rating(s):</b>		<b>Restraint Used:</b>	
<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 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	April 27, 1982
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	1355 hours (Total, all aircraft), 600 hours (Total, this make and model), 1350 hours (Pilot In Command, all aircraft), 50 hours (Last 90 days, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N731MZ
<b>Model/Series:</b>	A188B A188B	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>		<b>Serial Number:</b>	18803013
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	1
<b>Date/Type of Last Inspection:</b>	Unknown	<b>Certified Max Gross Wt.:</b>	3300 lbs
<b>Time Since Last Inspection:</b>	971 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	1077 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Not installed	<b>Engine Model/Series:</b>	IO-520-D
<b>Registered Owner:</b>	ROBERTSON AERIAL AG INC.	<b>Rated Power:</b>	300 Horsepower
<b>Operator:</b>	ROBERTSON AERIAL AG INC.	<b>Operating Certificate(s) Held:</b>	
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	5 miles
<b>Lowest Ceiling:</b>	Unknown	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	15 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	225°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	90°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	GOULD , AR	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	GOULD , AR	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	00:00 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>		<b>Runway Surface Type:</b>	Dirt
<b>Airport Elevation:</b>	0 ft msl	<b>Runway Surface Condition:</b>	Wet
<b>Runway Used:</b>	0	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	0 ft / 0 ft	<b>VFR Approach/Landing:</b>	None

## 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>	33.980644,-91.559013(est)

## Administrative Information

**Investigator In Charge (IIC):**

**Additional Participating Persons:**

**Original Publish Date:** June 8, 1983

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=70853>

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