



# Aviation Investigation Final Report

<b>Location:</b>	ULYSSES, Kansas	<b>Accident Number:</b>	MKC82DA108
<b>Date &amp; Time:</b>	June 17, 1982, 10:40 Local	<b>Registration:</b>	N7603V
<b>Aircraft:</b>	CALLAIR                      A-9B	<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 WAS ON A SPRAY FLIGHT OVER AN AREA OF SAND HILLS. WHILE DROPPING FLAGS TO HELP DETERMINE THE WIND ON THE SURFACE, HE ENCOUNTERED UNFAVORABLE WIND CONDITIONS AND A SUDDEN LOSS OF LIFT. HE APPLIED FULL POWER, BUT WAS UNABLE TO RECOVER FROM THE MUSHING CONDITION BEFORE HITTING THE GROUND. THE PILOT REPORTED SEVERE TO EXTREME TURBULENCE, A TEMPERATURE OF 85 DEGREES FAHRENHEIT, AND BELIEVED THERE WERE DOWNDRAFTS AND UNUSUAL WIND CIRCULATION AMONG THE SAND DUNES.

## Probable Cause and Findings

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

### Findings

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: MANEUVERING - AERIAL APPLICATION

#### Findings

1. (F) WEATHER CONDITION - TURBULENCE, CLEAR AIR
2. (F) WEATHER CONDITION - DOWNDRAFT
3. (F) WEATHER CONDITION - HIGH DENSITY ALTITUDE
4. (C) AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND

5. (C) STALL/MUSH - INADVERTENT - PILOT IN COMMAND
6. (F) TERRAIN CONDITION - MOUNTAINOUS/HILLY

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	62, Male
<b>Airplane Rating(s):</b>	Single-engine land; Single-engine sea	<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>	
<b>Instructor Rating(s):</b>	Airplane single-engine	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	20000 hours (Total, all aircraft), 4000 hours (Total, this make and model)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CALLAIR	<b>Registration:</b>	N7603V
<b>Model/Series:</b>	A-9B A-9B	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>		<b>Serial Number:</b>	1331
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	1
<b>Date/Type of Last Inspection:</b>	Unknown	<b>Certified Max Gross Wt.:</b>	3000 lbs
<b>Time Since Last Inspection:</b>	14 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4169 Hrs	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>		<b>Engine Model/Series:</b>	IO-540-G1C5
<b>Registered Owner:</b>	OTTO M. NEIDERT	<b>Rated Power:</b>	290 Horsepower
<b>Operator:</b>	OTTO M. NEIDERT	<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>	20 miles
<b>Lowest Ceiling:</b>	Unknown	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	0°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	85°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	ULYSSES , KS	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	ULYSSES , KS	<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>	
<b>Airport Elevation:</b>	0 ft msl	<b>Runway Surface Condition:</b>	
<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>	37.57093,-101.349029(est)

## Administrative Information

**Investigator In Charge (IIC):**

**Additional Participating Persons:**

**Original Publish Date:** June 17, 1983

**Last Revision Date:**

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

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=72894>

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