



# Aviation Investigation Final Report

<b>Location:</b>	Monette, Arkansas	<b>Accident Number:</b>	CHI03LA265
<b>Date &amp; Time:</b>	August 23, 2003, 18:00 Local	<b>Registration:</b>	N5647G
<b>Aircraft:</b>	Cessna 188B	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 137: Agricultural		

## Analysis

The airplane sustained substantial damage when it impacted a drainage ditch following a loss of directional control during takeoff. The pilot stated that during the takeoff roll, the right brake failed and the airplane veered to the left of the runway. The pilot pulled the engine power to idle and the tail of the airplane came down. The airplane veered across several cotton rows and impacted a drainage ditch. Inspection of the airplane revealed a hole in the right brake line which allowed brake fluid to leak out of the system.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: Failure of the right brake and the pilot's inability to maintain directional control. A factor associated with the accident was the ditch.

## Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION  
Phase of Operation: TAKEOFF - ROLL/RUN

Findings

1. HYDRAULIC SYSTEM,LINE - BURST
2. LANDING GEAR,NORMAL BRAKE SYSTEM - FAILURE

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Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: TAKEOFF - ABORTED

Findings

3. (C) DIRECTIONAL CONTROL - NOT POSSIBLE - PILOT IN COMMAND

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Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: TAKEOFF - ABORTED

Findings

4. (F) TERRAIN CONDITION - DITCH

## Factual Information

On August 23, 2003, at 1800 central daylight time, a Cessna 188B, N5647G, operated by a commercial pilot collided with a ditch following a loss of control during an aborted takeoff. The takeoff was being performed to the south from a private airstrip in Monette, Arkansas. The pilot was not injured and the airplane was substantially damaged. The agricultural application flight was operating under 14 CFR Part 137. Visual meteorological conditions prevailed and no flight plan was filed. The local flight was originating at the time of the accident.

According to the pilot's written statement, the right brake failed during the takeoff roll. The pilot reported he applied right rudder to keep the airplane on the runway centerline. He reported the airplane veered to the left at which time he reduced the engine power to idle. The pilot stated the tail of the airplane came down and the airplane veered across several rows of cotton and impacted a drainage ditch.

Inspection of the airplane revealed a hole in the right brake line which allowed brake fluid to leak out of the system.

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	48,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>	
<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-w/ waivers/lim	<b>Last FAA Medical Exam:</b>	April 8, 2003
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	February 3, 2003
<b>Flight Time:</b>	6347 hours (Total, all aircraft), 1000 hours (Total, this make and model), 6230 hours (Pilot In Command, all aircraft), 298 hours (Last 90 days, all aircraft), 41 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N5647G
<b>Model/Series:</b>	188B	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Restricted (Special)	<b>Serial Number:</b>	18801129
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	
<b>Date/Type of Last Inspection:</b>	April 22, 2003 Annual	<b>Certified Max Gross Wt.:</b>	3800 lbs
<b>Time Since Last Inspection:</b>	260 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	3641 Hrs at time of accident	<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>	Not installed	<b>Engine Model/Series:</b>	O-470-R
<b>Registered Owner:</b>	Ron Wood	<b>Rated Power:</b>	230 Horsepower
<b>Operator:</b>	David Lemay	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	JBR, 262 ft msl	<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>	17:53 Local	<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	9 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	8 knots / None	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	80°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	30°C / 24°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Monette, AR (PVT )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Monette, AR (PVT )	<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	18:00 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	Whited Flying Service PVT	<b>Runway Surface Type:</b>	Concrete;Grass/turf
<b>Airport Elevation:</b>	258 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>		<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>		<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>	35.890243,-90.339591(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Sullivan, Pamela
<b>Additional Participating Persons:</b>	Michael Church; FAA - Little Rock FSDO; Little Rock, AR
<b>Original Publish Date:</b>	June 2, 2004
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=57857">https://data.nts.gov/Docket?ProjectID=57857</a>

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