



# Aviation Investigation Final Report

<b>Location:</b>	Thomasville, Pennsylvania	<b>Accident Number:</b>	ERA09CA493
<b>Date &amp; Time:</b>	August 30, 2009, 16:00 Local	<b>Registration:</b>	N6982R
<b>Aircraft:</b>	Beech B19	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of engine power (total)	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

According to the pilot, during the preflight inspection, he checked the full fuel tanks for water at all three access points, with none found. The engine ran smoothly during taxi, run up and takeoff, but "stumbled" upon level off. The pilot switched tanks, "checked" the carburetor heat, and found that the engine only smoothed out when he added full power. The pilot decided to return to the airport, and during the base leg, the engine lost all power, resulting in a forced landing in a cornfield. A postflight examination of the airplane by a Federal Aviation Administration inspector revealed no obvious mechanical anomalies with the physical components of the engine. However, when he examined the carburetor fuel inlet filter, the inspector found it about 75 percent blocked with particulate matter consisting of large quantities of rust, insect remains, and sand. A restriction of this amount would significantly effect the engine's ability to operate at lower power settings and could result in a total loss of engine power.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A partial loss of engine power due to a partial blockage of the carburetor fuel inlet filter.

### Findings

<b>Aircraft</b>	Fuel filter-strainer - Capability exceeded
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## Factual Information

### History of Flight

<b>Enroute</b>	Loss of engine power (partial)
<b>Approach-VFR pattern base</b>	Loss of engine power (total) (Defining event)
<b>Emergency descent</b>	Collision with terr/obj (non-CFIT)

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	58
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	
<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 3	<b>Last FAA Medical Exam:</b>	March 11, 2009
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	293 hours (Total, all aircraft), 147 hours (Total, this make and model)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Beech	<b>Registration:</b>	N6982R
<b>Model/Series:</b>	B19	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal; Utility	<b>Serial Number:</b>	MB-752
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	May 28, 2009 Annual	<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>	14 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4597 Hrs as of last inspection	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-320 SERIES
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	180 Horsepower
<b>Operator:</b>	On file	<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>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	
<b>Lowest Ceiling:</b>		<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	York, PA (THV )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	York, PA (THV )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>		<b>Type of Airspace:</b>	

## 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>	
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	39.923332,-76.876663(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Cox, Paul
<b>Additional Participating Persons:</b>	Jim Pool; FAA/FSDO; Harrisburg, PA
<b>Original Publish Date:</b>	December 29, 2009
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<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=74630">https://data.nts.gov/Docket?ProjectID=74630</a>

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