



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	Marion, IN	<b>Accident Number:</b>	CHI07LA198
<b>Date &amp; Time:</b>	07/02/2007, 1456 EDT	<b>Registration:</b>	N3088K
<b>Aircraft:</b>	Ayres Corporation S2R-T15	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 137: Agricultural		

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## Analysis

The pilot performed a forced landing on a soybean and impacted a creek bed following a total loss of engine power during an aerial application. The pilot reported the presence of smoke from the engine exhaust which was reported by witnesses as white smoke prior to the loss of power. Examination of the airplane revealed the chemical bay was empty, the right fuel tank was damaged and contained no fuel and the left tank was intact and contained fuel. The fuel selector was on the right tank.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The loss of engine power for undetermined reasons during an aerial application. A contributing factor was the creek bed.

## Findings

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Occurrence #1: LOSS OF ENGINE POWER

Phase of Operation: MANEUVERING - AERIAL APPLICATION

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

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Occurrence #2: FORCED LANDING

Phase of Operation: EMERGENCY DESCENT/LANDING

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: EMERGENCY DESCENT/LANDING

Findings

2. TERRAIN CONDITION - GROUND

3. (F) TERRAIN CONDITION - RAVINE

## Factual Information

On July 2, 2007, at 1456 eastern daylight time, a Ayres Corporation S2R-T15, N3088K, operated by Coney Ag Service as an agricultural airplane, received substantial damage on impact with terrain during a forced landing onto an adjacent soybean field while spraying a corn field. The pilot reported a loss of engine power. Visual meteorological conditions prevailed at the time of the accident. The 14 CFR Part 137 aerial application flight was not operating on a flight plan. The pilot was uninjured. The local flight originated from Marion, Indiana, about 1426.

The pilot stated that the airplane experienced a loss of engine power during a spray run approximately 30 minutes after departure. He then performed a forced landing on a soybean field during which the airplane contacted a creek bed.

According to the Federal Aviation Administration, the pilot reported that the engine began to smoke from the exhaust. Witnesses reported seeing white smoke from the airplane. Examination of the airplane revealed the chemical bay was empty, the right fuel tank was damaged and contained no fuel, and the left tank was intact and contained fuel. The fuel selector was on the right tank. There was no airworthiness certificate on board the airplane.

## Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	23, 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>	Seatbelt, Shoulder harness
<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	<b>Last Medical Exam:</b>	03/01/2007
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	03/01/2007
<b>Flight Time:</b>	776 hours (Total, all aircraft), 100 hours (Total, this make and model), 727 hours (Pilot In Command, all aircraft), 240 hours (Last 90 days, all aircraft), 80 hours (Last 30 days, all aircraft), 8 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Ayres Corporation	Registration:	N3088K
Model/Series:	S2R-T15	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Restricted	Serial Number:	T15-019
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	03/01/2007, Annual	Certified Max Gross Wt.:	6000 lbs
Time Since Last Inspection:		Engines:	1 Turbo Prop
Airframe Total Time:	8638.8 Hours	Engine Manufacturer:	Pratt & Whitney Canada
ELT:	Not installed	Engine Model/Series:	PT6-36
Registered Owner:	Sammie N. Farrow, Jr.	Rated Power:	665 hp
Operator:	Coney Ag Service	Air Carrier Operating Certificate:	
Operator Does Business As:		Operator Designator Code:	FWCG

## Meteorological Information and Flight Plan

Observation Facility, Elevation:	MZZ	Observation Time:	1130 EDT
Distance from Accident Site:	12 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	225°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	30° C / 18° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	Light and Variable, Variable	Visibility (RVR):	
Altimeter Setting:		Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Marion, IN	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1330 EDT	Type of Airspace:	

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None		

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Mitchell F Gallo	<b>Adopted Date:</b>	03/31/2008
<b>Additional Participating Persons:</b>	Daniel I Fowler; Federal Aviation Administration; Indianapolis, IN		
<b>Publish Date:</b>			
<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:pubinq@ntsb.gov">pubinq@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> .		

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