



National Transportation Safety Board Aviation Accident Data Summary

Location:	CAIRO, GA	Accident Number:	ATL99LA121
Date & Time:	09/01/1999, 0845 EDT	Registration:	N8965Q
Aircraft:	Aero Commander S2R	Injuries:	1 None
Flight Conducted Under:	Part 137: Agricultural		

Analysis

Shortly after liftoff from the runway, the engine backfired and lost power. An eyewitness at the airport reported seeing black smoke coming from the airplane during the attempted takeoff. The pilot turned right and selected a field for the emergency landing. After clearing a nearby pond, the pilot dumped the load of chemicals, and landed in a field about 300 yards beyond the pond. The examination of the airplane failed to disclose a mechanical problem. During the examination of the engine, fuel was recovered from the fuel system. Examination of the carburetor also failed to disclose a mechanical malfunction or component failure. A review of the weather data disclosed that the temperature was 68 degrees, and the dew point was 66 degrees. According to the Icing Probability Curves, conditions were favorable for the formation of carburetor ice.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The loss of engine power for undetermined reasons. Factors were weather conditions favorable for the formation of carburetor ice.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED
2. (F) WEATHER CONDITION - CARBURETOR ICING CONDITIONS

Occurrence #2: FORCED LANDING
Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER
Phase of Operation: LANDING - ROLL

Pilot Information

Certificate:	Commercial	Age:	48
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	12000 hours (Total, all aircraft), 2100 hours (Total, this make and model), 225 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Aero Commander	Registration:	N8965Q
Model/Series:	S2R S2R	Engines:	1 Reciprocating
Operator:	PRINCE FLYING SERVICE INC.,	Engine Manufacturer:	P&W
Operating Certificate(s) Held:		Engine Model/Series:	R-1340-S3H1-G
Flight Conducted Under:	Part 137: Agricultural		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	TLH, 82 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	4 knots / , 90°
Temperature:	20° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	(70J)	Destination:	

Airport Information

Airport:	CAIRO-GRADY MUNICIPAL (70J)	Runway Surface Type:	Asphalt
Runway Used:	30	Runway Surface Condition:	Dry
Runway Length/Width:	4000 ft / 75 ft		

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
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC): PHILLIP POWELL Adopted Date: 11/30/2000

Investigation Docket: 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 pubinq@ntsb.gov, or at 800-877-6799. Dockets released after this date are available at <http://dms.nts.gov/pubdms/>.

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