



National Transportation Safety Board Aviation Accident Data Summary

Location:	Toms River, NJ	Accident Number:	NYC06LA167
Date & Time:	07/01/2006, 1245 EDT	Registration:	N50619
Aircraft:	Bellanca 7GCBC	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Banner Tow		

Analysis

While in cruise flight, at an altitude of 1,000 feet, the airplane's engine lost power. The pilot applied full throttle; however, the engine failed to respond, and the airplane continued to lose altitude and airspeed. At an altitude of 800 feet, the pilot applied carburetor heat and looked for a place to land. He performed a forced landing on a road, during which the airplane impacted a road sign. Examination of the airplane revealed the throttle and carburetor heat controls were observed in the off position, and approximately 17 gallons of fuel was drained from the airplane, with no contamination observed. Fuel was also observed in the carburetor bowl, gascolator, and fuel lines. The throttle, mixture, and carburetor heat control linkages were connected and operated smoothly. The throttle and carburetor heat controls were observed in the off position. The engine was test run on the airframe. It started normally and was operated between 1500 and 1700 RPM. During the test run, operational checks of the magnetos, mixture and carburetor heat controls revealed no anomalies. Interpolation of a carburetor icing probability chart revealed that atmospheric conditions were conducive to "icing at glide or cruise power."

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: Carburetor icing, and the pilot's delayed application of carburetor heat, which resulted in a loss of engine power, and subsequent force landing. A factor in the accident was carburetor icing conditions.

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL
Phase of Operation: MANEUVERING

Findings

1. (F) WEATHER CONDITION - CARBURETOR ICING CONDITIONS
2. (C) FUEL SYSTEM,CARBURETOR - ICE
3. (C) CARBURETOR HEAT - DELAYED - PILOT IN COMMAND

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

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: EMERGENCY LANDING

Findings

4. OBJECT - SIGN

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	47
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane
Flight Time:	2645 hours (Total, all aircraft), 37 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Bellanca	Registration:	N50619
Model/Series:	7GCBC	Engines:	1 Reciprocating
Operator:	Island Aerial Ads	Engine Manufacturer:	Lycoming
Operating Certificate(s) Held:	None	Engine Model/Series:	O-320
Flight Conducted Under:	Part 91: General Aviation - Banner Tow		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	WRI, 131 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None	Wind Speed/Gusts, Direction:	7 knots / , 290°
Temperature:	29° C	Visibility:	7 Miles
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Linden, NJ (LDJ)	Destination:	(LDJ)

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:	39.955556, -74.202222		

Administrative Information

Investigator In Charge (IIC):	Jill M Andrews	Adopted Date:	07/25/2007
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 pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

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