



# National Transportation Safety Board Aviation Accident Data Summary

<b>Location:</b>	CLEVELAND, TN	<b>Accident Number:</b>	ATL01LA017
<b>Date &amp; Time:</b>	12/03/2000, 1030 EST	<b>Registration:</b>	N5288P
<b>Aircraft:</b>	Cessna 152	<b>Injuries:</b>	2 Minor
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

## Analysis

The pilots had been conducting short-field takeoffs and, full-stop landing followed by a taxi back to runway 21. During the third takeoff, they experienced a total loss of engine power as they climbed through 100 feet. The CFI initiated a forced landing. The airplane struck trees, nosed over, and collided with a storage shed as he maneuvered the airplane for the forced landing. Terrain and other obstructions were unsuitable for a forced landing. Examination of the airplane and the engine assembly failed to disclose a mechanical malfunction of component failure. A review of weather data showed that 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: A loss of engine power during takeoff due to carburetor ice. A factor was unsuitable terrain.

## Findings

Occurrence #1: LOSS OF ENGINE POWER  
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings  
1. (C) WEATHER CONDITION - CARBURETOR ICING CONDITIONS  
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Occurrence #2: FORCED LANDING  
Phase of Operation: EMERGENCY DESCENT/LANDING  
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Occurrence #3: IN FLIGHT COLLISION WITH OBJECT  
Phase of Operation: EMERGENCY DESCENT/LANDING

Findings  
2. (F) TERRAIN CONDITION - NONE SUITABLE

## Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	24
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Instrument Rating(s):</b>	Airplane
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	Airplane Single-engine
<b>Flight Time:</b>	860 hours (Total, all aircraft), 413 hours (Total, this make and model), 792 hours (Pilot In Command, all aircraft), 217 hours (Last 90 days, all aircraft), 59 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N5288P
<b>Model/Series:</b>	152 152	<b>Engines:</b>	1 Reciprocating
<b>Operator:</b>	CHRISTIAN FRETLAND	<b>Engine Manufacturer:</b>	Lycoming
<b>Operating Certificate(s) Held:</b>	None	<b>Engine Model/Series:</b>	O-235-L2C
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Instructional		

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Condition of Light:</b>	Dawn
<b>Observation Facility, Elevation:</b>	CHA, 682 ft msl	<b>Weather Information Source:</b>	Weather Observation Facility
<b>Lowest Ceiling:</b>	Broken / 2100 ft agl	<b>Wind Speed/Gusts, Direction:</b>	7 knots / , 360°
<b>Temperature:</b>	1° C	<b>Visibility</b>	10 Miles
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	(HDI)	<b>Destination:</b>	

## Airport Information

<b>Airport:</b>	HARDWICK FIELD (HDI)	<b>Runway Surface Type:</b>	Asphalt
<b>Runway Used:</b>	21	<b>Runway Surface Condition:</b>	Dry
<b>Runway Length/Width:</b>	3300 ft / 75 ft		

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Latitude, Longitude:</b>			

## Administrative Information

Investigator In Charge (IIC): B. BEACH SCOTT

Adopted Date: 04/19/2001

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](mailto: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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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report.