



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	SELBYVILLE, DE	<b>Accident Number:</b>	BFO88LA070
<b>Date &amp; Time:</b>	08/01/1988, 1145 EDT	<b>Registration:</b>	N5682G
<b>Aircraft:</b>	CESSNA 150K	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None

**Flight Conducted Under:** Part 91: General Aviation -

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## Analysis

THE PLT WAS IN THE PROCESS OF PICKING UP A BANNER WHEN THE AIRCRAFT STALLED AND CRASHED INTO A WOODED AREA. THE BANNER WAS PICKED UP AT AN AIRSPEED OF 80 MPH AND THE ACFT ALTITUDE WAS INCREASED TO 250 FT AGL. THE PILOT REPORTED THAT THE WINGS OF THE ACFT ROCKED BACK AND FORTH AND THE ACFT BECAME UNSTABLE. THE TOW BANNER WAS THEN RELEASED, THE ACFT STALLED AND DESCENDED INTO A WOODED AREA IN A NOSE DOWN ATTITUDE.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

## Findings

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Occurrence #1: LOSS OF CONTROL - IN FLIGHT  
Phase of Operation: MANEUVERING

### Findings

1. (C) PULL-UP - EXCESSIVE - PILOT IN COMMAND
2. (C) AIRSPEED - INADEQUATE - PILOT IN COMMAND
3. LOAD JETTISON - PERFORMED
4. (C) STALL/MUSH

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: DESCENT - UNCONTROLLED

### Findings

5. (F) OBJECT - TREE(S)

## Factual Information

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	26, Female
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--w/ waivers/lim.	<b>Last FAA Medical Exam:</b>	11/30/1987
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	1424 hours (Total, all aircraft), 473 hours (Total, this make and model), 1309 hours (Pilot In Command, all aircraft), 231 hours (Last 90 days, all aircraft), 107 hours (Last 30 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N5682G
<b>Model/Series:</b>	150K 150K	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Restricted	<b>Serial Number:</b>	15071182
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	02/27/1988, Annual	<b>Certified Max Gross Wt.:</b>	1600 lbs
<b>Time Since Last Inspection:</b>	125 Hours	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4044 Hours	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-320-E2D
<b>Registered Owner:</b>	THOMAS CALVANELLI	<b>Rated Power:</b>	150 hp
<b>Operator:</b>	ATLANTIC COSTAL AERIAL ADS	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>	SKY BANNERS	<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	SBY, 52 ft msl	Distance from Accident Site:	16 Nautical Miles
Observation Time:	1051 EDT	Direction from Accident Site:	255°
Lowest Cloud Condition:	Scattered / 2000 ft agl	Visibility	2 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Light and Variable /	Turbulence Type Forecast/Actual:	/
Wind Direction:	Variable	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	32° C / 23° C
Precipitation and Obscuration:	Haze; No Precipitation		
Departure Point:	SELBYVILLE, DE (ON7)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1100 EDT	Type of Airspace:	Class G

## Airport Information

Airport:	WARRINGTON (ON7)	Runway Surface Type:	Grass/turf
Airport Elevation:	28 ft	Runway Surface Condition:	Dry
Runway Used:	32	IFR Approach:	None
Runway Length/Width:	2250 ft / 100 ft	VFR Approach/Landing:	None

## 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	Latitude, Longitude:	

## Administrative Information

Investigator In Charge (IIC):	Pamela S Sullivan	Report Date:	06/09/1989
Additional Participating Persons:	BOB DRAPALA; PHILADELPHIA, PA		
Publish Date:	06/02/2009		
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 <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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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. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).