



Aviation Investigation Final Report

Location:	ELKIN, North Carolina		Accident Number:	ATL86LA250
Date & Time:	September 7, 1986, 12:30) Local	Registration:	N44215
Aircraft:	TAYLORCRAFT	BC12-D	Aircraft Damage:	Substantial
Defining Event:			Injuries:	2 Minor
Flight Conducted Under:	Part 91: General aviation	- Personal		

Analysis

PLT SAID HE HAD BEEN PERFORMING TAKE OFFS AND LANDINGS. ENGINE LOST RPM AT ABOUT 50 AGL. AN ATTEMPT WAS MADE TO LAND ON THE SOD RWY WHICH RESULTED IN A HARD LANDING AND COLLAPSE OF THE RIGHT MAIN LANDING GEAR. PLT SAID HE SUSPECTED CARBURETOR ICING. ICING PROBABLITY CURVE INDICATED THAT SERIOUS ICING AT GLIDE POWER WAS PROBABLE.

Probable Cause and Findings

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

Findings

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

Findings 1. (C) FUEL SYSTEM, CARBURETOR - ICE 2. (C) CARBURETOR HEAT - NOT USED - PILOT IN COMMAND

Occurrence #2: FORCED LANDING Phase of Operation: DESCENT - EMERGENCY Occurrence #3: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings 3. LANDING GEAR, MAIN GEAR - OVERLOAD

Factual Information

Pilot Information

Certificate:	Private	Age:	37,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	January 4, 1985
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	239 hours (Total, all aircraft), 9 hours (Total, this make and model), 194 hours (Pilot In Command, all aircraft), 9 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	TAYLORCRAFT	Registration:	N44215
Model/Series:	BC12-D BC12-D	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	10015
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	July 5, 1986 100 hour	Certified Max Gross Wt.:	1200 lbs
Time Since Last Inspection:	6 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1275 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Not installed	Engine Model/Series:	A-65-8
Registered Owner:	STEVEN W. CAVE	Rated Power:	65 Lbs thrust
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	HKY ,1189 ft msl	Distance from Accident Site:	38 Nautical Miles
Observation Time:	12:54 Local	Direction from Accident Site:	225°
Lowest Cloud Condition:	Scattered / 25000 ft AGL	Visibility	50 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	270°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	26°C / 25°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	00:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	SWAN CREEK 78A	Runway Surface Type:	Grass/turf
Airport Elevation:	1135 ft msl	Runway Surface Condition:	Dry
Runway Used:	27	IFR Approach:	None
Runway Length/Width:	2120 ft / 180 ft	VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Minor	Latitude, Longitude:	36.229709,-80.699424(est)

Administrative Information

Investigator In Charge (IIC):	Hicks, Preston	
Additional Participating Persons:	GENE WELLMAKER; WINSTON-SALEM , NC	
Original Publish Date:		
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=7186	

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The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available here.