



# **Aviation Investigation Final Report**

Location: SPIRIT LAKE, Iowa Accident Number: CHI91LA193

Date & Time: June 16, 1991, 11:00 Local Registration: N9008X

Aircraft: CESSNA 120 Aircraft Damage: Substantial

**Defining Event:** 1 Minor, 1 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

THE PLT SAID THAT SHORTLY AFTER TAKEOFF THE ENGINE BEGAN TO SPUTTER, LOSE POWER, THEN QUIT. AN EMERGENCY LDG WAS ATTEMPTED WHICH RESULTED IN A NOSE OVER. POST ACCIDENT INVESTIGATION FAILED TO REVEAL ANY MECHANICAL FAILURE OR MAL-FUNCTION. METEOROLOGICAL CONDITIONS WERE CONDUCIVE FOR CARBURETOR ICING AT THE TIME.

## **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: IMPROPER USE OF CARBURETOR HEAT BY THE PILOT AND UNSUITABLE TERRAIN.

#### **Findings**

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL

Phase of Operation: TAKEOFF - INITIAL CLIMB

**Findings** 

1. (F) WEATHER CONDITION - CARBURETOR ICING CONDITIONS

2. (C) CARBURETOR HEAT - IMPROPER USE OF - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

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Occurrence #3: NOSE OVER Phase of Operation: LANDING

Findings
3. (F) TERRAIN CONDITION - NONE SUITABLE

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## **Factual Information**

#### **Pilot Information**

Certificate:	Private	Age:	31,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	April 26, 1991
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	200 hours (Total, all aircraft), 15 hours (Total, this make and model), 20 hours (Last 90 days, all aircraft), 15 hours (Last 30 days, all aircraft)		

## **Aircraft and Owner/Operator Information**

Aircraft Make:	CESSNA	Registration:	N9008X
Model/Series:	120 120	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	12680
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1450 lbs
Time Since Last Inspection:	0 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONTINENTAL
ELT:	Installed, activated	Engine Model/Series:	0-200
Registered Owner:		Rated Power:	100 Horsepower
Operator:	FAIRCHILD, TIMOTHY J.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	3SE,1337 ft msl	Distance from Accident Site:	20 Nautical Miles
Observation Time:	10:50 Local	Direction from Accident Site:	180°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	260°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	23°C / 11°C
Precipitation and Obscuration:	: No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	
Departure Time:	11:00 Local	Type of Airspace:	

## **Airport Information**

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	<b>Runway Surface Condition:</b>	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	Forced landing

## **Wreckage and Impact Information**

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 1 None	Latitude, Longitude:	43.419704,-95.110374(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Hruban, John

Additional Participating Persons:

Original Publish Date: March 31, 1993

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=15098

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

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.

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