



Aviation Investigation Final Report

Location: CANTON, Michigan Accident Number: CHI82DA040

Date & Time: February 7, 1982, 15:30 Local **Registration:** N46733

Aircraft: CESSNA 152 Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Instructional

Analysis

THE STUDENT PILOT WAS ON THE SECOND LEG OF HIS CROSS-COUNTRY FLIGHT WHEN THE ENGINE LOST POWER. HE LANDED IN A SNOW COVERED, PLOWED FIELD. AFTER ABOUT 60 FEET OF GROUND ROLL, THE PLANE NOSED OVER. THE STUDENT STATED THAT THE ENGINE STARTED RUNNING ROUGH UNTIL HE APPLIED CARBURETOR HEAT, AND THEN IT SMOOTHED OUT. HE STATED THAT HE CUT-OFF THE CARBURETOR HEAT, AND THEN ABOUT ONE MINUTE LATER, THE ENGINE QUIT. HOWEVER, ANOTHER PILOT STATED THAT HE HEARD THE STUDENT TRANSMIT THAT HE WAS GOING DOWN AND THAT HE WAS OUT OF FUEL OR EXPERIENCED FUEL STARVATION. ALSO, WHEN THE PLANE WAS EXAMINED BY TWO OTHER PERSONS, THEY FOUND NO FUEL IN THE PLANE AND NO EVIDENCE THAT FUEL HAD LEAKED ON THE SNOW COVERED TERRAIN. ADDITIONALLY, THE AIRCRAFT HAD NOT BEEN REFUELED DURING THE FIRST STOP OF THE CROSS-COUNTRY.

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(TOTAL) - NONMECHANICAL

Phase of Operation: CRUISE - NORMAL

Findings

1. (C) FLUID, FUEL - EXHAUSTION

- 2. (C) AIRCRAFT PREFLIGHT INADEQUATE PILOT IN COMMAND
- 3. (F) LACK OF TOTAL EXPERIENCE PILOT IN COMMAND
- 4. (C) FUEL SUPPLY INADEQUATE PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Occurrence #3: NOSE OVER

Phase of Operation: LANDING - ROLL

Findings

5. (F) TERRAIN CONDITION - SNOW COVERED

Page 2 of 5 CHI82DA040

Factual Information

Pilot Information

Certificate:	Student	Age:	37,Male
Airplane Rating(s):		Seat Occupied:	Unknown
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	November 19, 1981
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	38 hours (Total, all aircraft), 37 hours (Total, this make and model), 15 hours (Pilot In Command, all aircraft), 37 hours (Last 90 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Ainana (t. Malana	OFOONA	Da minton tinon	N/46700
Aircraft Make:	CESSNA	Registration:	N46733
Model/Series:	152 152	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	15283096
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1670 lbs
Time Since Last Inspection:	21 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1149 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed	Engine Model/Series:	0-235-L2C
Registered Owner:	NEIL R. BAIR	Rated Power:	110 Horsepower
Operator:	NEIL R. BAIR	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

Page 3 of 5 CHI82DA040

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	240°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	FT. WAYNE , IN	Type of Flight Plan Filed:	None
Destination:	ANN ARBOR , MI	Type of Clearance:	None
Departure Time:	14:30 Local	Type of Airspace:	

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	42.370582,-83.459579(est)

Page 4 of 5 CHI82DA040

Administrative Information

Investigator In Charge (IIC):

Additional Participating
Persons:

Original Publish Date: February 7, 1983

Last Revision Date:
Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=70124

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.

Page 5 of 5 CHI82DA040