



Aviation Investigation Final Report

Location: CROOKSTON, Minnesota Accident Number: CHI83LA332

Date & Time: July 18, 1983, 11:00 Local Registration: N92037

Aircraft: CESSNA 188B Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Aerial application

Analysis

THE ACFT COLLIDED WITH A BARLEY CROP DURING A FORCED LANDING ON A NARROW DIRT ROAD. THE ACFT HAD LOST POWER AFTER TAKEOFF FOR A CALIBRATION SPRAY RUN. THE PILOT STATED HE TOOK OFF WITH ABOUT 10 GALLONS OF FUEL (1/8 TANK) AND DID NOT VISUALLY CHECK THE FUEL QUATITY BEFORE TAKEOFF.

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: CLIMB - TO CRUISE

Findings

1. (F) FLUID, FUEL - EXHAUSTION

2. (C) AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

3. (C) FUEL SUPPLY - INADEQUATE - PILOT IN COMMAND

4. (C) REFUELING - NOT PERFORMED - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER Phase of Operation: LANDING - ROLL

Findings

5. (F) TERRAIN CONDITION - CROP6. (C) GROUND LOOP/SWERVE - UNCONTROLLED - PILOT IN COMMAND

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Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	25,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Center
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Unknown Valid Medicalno waivers/lim.	Last FAA Medical Exam:	January 31, 1983
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	4000 hours (Total, all aircraft), 50 hours (Total, this make and model), 4000 hours (Pilot In Command, all aircraft), 400 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N92037
Model/Series:	188B 188B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	1880259
Landing Gear Type:	Tricycle	Seats:	1
Date/Type of Last Inspection:	June 8, 1983 100 hour	Certified Max Gross Wt.:	3300 lbs
Time Since Last Inspection:	64 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	855 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Not installed	Engine Model/Series:	IO-520D
Registered Owner:	DARREL A. HODGE	Rated Power:	300 Horsepower
Operator:		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:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	20 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	40 knots / 60 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	310°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	29°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	10:50 Local	Type of Airspace:	Class G

Airport Information

Airport:	CROOKSTON, MUNICIPAL CKN	Runway Surface Type:	Asphalt
Airport Elevation:	899 ft msl	Runway Surface Condition:	Dry
Runway Used:	31	IFR Approach:	None
Runway Length/Width:	3500 ft / 75 ft	VFR Approach/Landing:	Forced landing

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:	47.769306,-96.599845(est)

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Administrative Information

Investigator In Charge (IIC):	Kleckner, Pamela
Additional Participating Persons:	
Original Publish Date:	
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=12277

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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