



National Transportation Safety Board Aviation Accident Data Summary

Location:	BELDING, MI	Accident Number:	CHI89DEM01
Date & Time:	06/02/1989, 2052 EDT	Registration:	N5658J
Aircraft:	CESSNA 188A	Injuries:	1 Serious
Flight Conducted Under:	Part 137: Agricultural		

Analysis

THE PILOT STATED THAT HE WAS ATTEMPTING TO DEPART FROM A 2,000 FOOT LONG SOD STRIP WITH A LOAD OF MALATHION FOR AGRICULTURAL APPLICATION. HE REPORTED THAT THE AIRCRAFT ENCOUNTERED A SOGGY PORTION OF THE AIRSTRIP AND FAILED TO ACCELERATE TO ROTATION SPEED. THE AIRCRAFT RAN OFF THE DEPARTURE END OF THE RUNWAY, AND STRUCK A SMALL TREE BEFORE IT IMPACTED A DIRT BANK AND CAME TO A STOP.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S POOR PREFLIGHT ASSESSMENT OF THE RUNWAY CONDITION/AIRCRAFT PERFORMANCE CAPABILITIES, AND THE AIRCRAFT'S RESULTANT FAILURE TO ATTAIN FLYING SPEED. SOFT TERRAIN IS A FACTOR IN THE ACCIDENT.

Findings

Occurrence #1: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER
Phase of Operation: TAKEOFF - ROLL/RUN

Findings

1. TERRAIN CONDITION - GRASS
2. (C) PREFLIGHT PLANNING/PREPARATION - POOR - PILOT IN COMMAND
3. (F) TERRAIN CONDITION - SOFT
4. (C) LIFT-OFF - NOT ATTAINED - PILOT IN COMMAND
5. TERRAIN CONDITION - DIRT BANK/RISING EMBANKMENT

Pilot Information

Certificate:	Commercial	Age:	46
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N5658J
Model/Series:	188A 188A	Engines:	1 Reciprocating
Operator:	STUDER, AFLRED	Engine Manufacturer:	CONTINENTAL
Operating Certificate(s) Held:		Engine Model/Series:	O-470-R
Flight Conducted Under:	Part 137: Agricultural		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Dusk
Observation Facility, Elevation:	GRR, 794 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	5 knots / , 170°
Temperature:	18° C	Visibility	20 Miles
Precipitation and Obscuration:			
Departure Point:	BELDING, MI (NONE)	Destination:	

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC):	WILLIAM M NAYMICK	Adopted Date:	06/30/1992
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 pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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