



National Transportation Safety Board Aviation Accident Final Report

Location:	GRAND ISLAND, NE	Accident Number:	CHI91DCJ04
Date & Time:	08/01/1991, 0900 CDT	Registration:	N2872J
Aircraft:	CESSNA T188C	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 137: Agricultural		

Analysis

THE PILOT STATED HE WAS MAKING A LOW PASS (ABOUT 4 FEET ABOVE THE CROPS) FOR PURPOSE OF AERIAL APPLICATION WHEN 'THE ENGINE SURGED....' WHEN HE LOOKED DOWN TO TROUBLESHOOT THE PROBLEM HE TOOK HIS EYES OFF THE CROP. HE REPORTED 'THE NEXT THING I KNEW I WAS IN THE CORN, I PULLED BACK OUT OF IT, BUT THE INTAKE HAD INGESTED TOO MUCH CORN. THE ENGINE SEEMED LIKE IT WAS RUNNING ON 3 CYLINDERS...' THE AIRPLANE STRUCK A ROW OF CEDAR AND SETTLED INTO A CORN FIELD.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO MAINTAIN ADEQUATE CLEARANCE FROM CROPS DURING AERIAL APPLICATION MANEUVERS. RELATED FACTORS ARE THE FAILURE OF A PROPELLER PITCH CHANGE MECHANISM AND THE PILOT'S DIVERTED ATTENTION.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL
Phase of Operation: MANEUVERING - AERIAL APPLICATION

Findings

1. (F) PROPELLER SYSTEM/ACCESSORIES,PITCH CHANGE MECH - FAILURE,TOTAL
2. PROPELLER SYSTEM/ACCESSORIES - SURGE
3. LOW PASS
4. (F) DIVERTED ATTENTION - PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

5. TERRAIN CONDITION - CROP
6. (C) CLEARANCE - NOT MAINTAINED - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Airline Transport	Age:	39, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	05/16/1991
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	3125 hours (Total, all aircraft), 404 hours (Total, this make and model), 3125 hours (Pilot In Command, all aircraft), 315 hours (Last 90 days, all aircraft), 60 hours (Last 30 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N2872J
Model/Series:	T188C T188C	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Restricted	Serial Number:	T18803547T
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	01/02/2000, Annual	Certified Max Gross Wt.:	4400 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONTINENTAL
ELT:	Not installed	Engine Model/Series:	TS10-520T
Registered Owner:	JAMES D. ANDERSON	Rated Power:	310 hp
Operator:	MUCKEL'S	Operating Certificate(s) Held:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	0 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Light and Variable /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	-18°C / -18°C
Precipitation and Obscuration:			
Departure Point:	PROSSER, NE (NONE)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	0830 CDT	Type of Airspace:	

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	James H Owens	Report Date:	03/09/1993
Additional Participating Persons:			
Publish Date:			
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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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).