



National Transportation Safety Board Aviation Accident Data Summary

Location:	MARSHALL, MI	Accident Number:	CHI96LA124
Date & Time:	04/02/1996, 2130 EST	Registration:	N2586S
Aircraft:	Cessna 210	Injuries:	4 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that as the airplane was taking off, a deer hit the left side of the empennage, causing a violent yaw to the left, but the airplane continued to fly. Passengers in the rear seat used a flashlight to inspect the damage. They discovered that the left horizontal stabilizer, elevator and empennage were damaged. The pilot was concerned about tail flutter and possible stalling of the airplane. He determined that he would maintain 100 knots and continue in the same direction to the nearest airport, where he could make a straight-in landing, and emergency services were available. An uneventful landing was made.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A deer that wandered onto the runway. Darkness was a related factor.

Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: TAKEOFF

Findings

1. (F) LIGHT CONDITION - DARK NIGHT
2. (C) OBJECT - ANIMAL(S)
3. FLIGHT CONTROL,ELEVATOR - FOREIGN OBJECT DAMAGE
4. FLIGHT CONTROL,STABILATOR - FOREIGN OBJECT DAMAGE
5. FUSELAGE - FOREIGN OBJECT DAMAGE

Pilot Information

Certificate:	Private	Age:	62
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	1895 hours (Total, all aircraft), 1185 hours (Total, this make and model), 1848 hours (Pilot In Command, all aircraft), 54 hours (Last 90 days, all aircraft), 16 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N2586S
Model/Series:	210 210	Engines:	1 Reciprocating
Operator:	LARRY L. CRUZEN	Engine Manufacturer:	CONTINENTAL
Operating Certificate(s) Held:	None	Engine Model/Series:	IO-520
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	BTL, 953 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	5 knots / , 150°
Temperature:	8°C	Visibility	15 Miles
Precipitation and Obscuration:			
Departure Point:	(5D8)	Destination:	JACKSON, MI (JXN)

Airport Information

Airport:	BROOKS FIELD (5D8)	Runway Surface Type:	Asphalt
Runway Used:	10	Runway Surface Condition:	Dry
Runway Length/Width:	3500 ft / 75 ft		

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None

Latitude, Longitude:

Administrative Information

Investigator In Charge (IIC):	JAMES P SILLIMAN	Adopted Date:	05/29/1996
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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