



National Transportation Safety Board Aviation Accident Data Summary

Location:	MAIZE, KS	Accident Number:	CHI99LA172
Date & Time:	06/03/1999, 1007 CDT	Registration:	N9393
Aircraft:	de Havilland TIGER MOTH DH82A	Injuries:	1 Minor, 1 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

He stated the local winds were gusty and alternating between east and southeast, and he used runway 17 for takeoff. He stated engine power was normal, but he was unable to maintain a climb when he reached the south end of the runway which was bordered by trees. The airplane began a descent near the end of the runway. The lower right wing contacted a tree just south of a highway which bordered the south end of the airport. The pilot stated that after the accident he noted the winds at the south side of the airport were out of the south and the wind sock at the north end of the airport was indicating winds from the northeast.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the pilot's inability to maintain a climb after takeoff as a result of wind shear. Factors associated with the accident were the variable, gusty wind conditions, and the tree which was contacted.

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (F) WEATHER CONDITION - VARIABLE WIND
 2. (F) WEATHER CONDITION - GUSTS
 3. (C) WEATHER CONDITION - WINDSHEAR
 4. (C) CLIMB - NOT POSSIBLE - PILOT IN COMMAND
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Occurrence #2: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

5. (F) OBJECT - TREE(S)
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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Pilot Information

Certificate:	Private	Age:	51
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	1614 hours (Total, all aircraft), 25 hours (Total, this make and model), 1459 hours (Pilot In Command, all aircraft), 32 hours (Last 90 days, all aircraft), 17 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	de Havilland	Registration:	N9393
Model/Series:	TIGER MOTH DH82A TIGER MOTH	Engines:	1 Reciprocating
Operator:	RONALD P. WILLIAMS	Engine Manufacturer:	Rolls-Royce
Operating Certificate(s) Held:	None	Engine Model/Series:	GYPSY MJR 1Z
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Unknown	Condition of Light:	Day
Observation Facility, Elevation:	ICT, 1332 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	14 knots / , 150°
Temperature:	22° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	(70K)	Destination:	BARTLESVILLE, OK (BVO)

Airport Information

Airport:	MAIZE AIRPORT (70K)	Runway Surface Type:	Grass/turf
Runway Used:	17	Runway Surface Condition:	Dry
Runway Length/Width:	200 ft / 70 ft		

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC): PAMELA S SULLIVAN Adopted Date: 09/28/2000

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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