

NTSB - DENVER REGIONAL OFFICE

NATIONAL TRANSPORTATION SAFETY BOARD PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

This form to be used for reporting civil and public aircraft accidents and incidents

BASIC INFORMATION

Accident/Incident Location

Nearest City/Place: MASON State: MI
 ZIP: 48854 Country: USA
 Latitude: 42-33.946667N Longitude: 084-25.391667W
 (Enter in degrees/minutes/seconds) 42.57N 84.42W

Accident/Incident Date/Time

Date: 05/18/2016 Local Time: 15:20
 Time Zone: EDT

Collision with Other Aircraft: ☐ Midair ☐ On-ground ☒ None

AIRCRAFT INFORMATION

Registration Number: N757LF
 Manufacturer: NORTH AMERICAN AVIATION
 Model: T-6D
 Serial Number: 84991
 Year of Manufacture: 1943
 Amateur-Built: ☐ Yes ☒ No ☐ Kit/Plans ☐ Original Design

☐ IFR-Equipped and Certified
☐ Commercial Space Flight
☐ Unmanned Aircraft

Maximum Gross Weight: 5300 lbs
 Weight at Time of Accident/Incident: 4900 lbs
 Number of Seats: 2 Flight Crew Seats: 2
 Cabin Crew Seats: — Passenger Seats: —
 Number of Engines: 1

Category of Aircraft

- ☒ Airplane
- ☐ Balloon
- ☐ Blimp/Dirigible
- ☐ Glider
- ☐ Gyroplane
- ☐ Helicopter
- ☐ Powered Lift
- ☐ Rocket
- ☐ Ultralight
- ☐ Unknown

Type of Airworthiness Certificate (Check all that apply)

- Standard**
- ☒ Normal
 - ☐ Aerobatic
 - ☐ Balloon
 - ☐ Commuter
 - ☐ Transport
 - ☐ Utility
- Special**
- ☐ Restricted
 - ☐ Limited
 - ☐ Provisional
 - ☐ Special Flight
 - ☐ Experimental
 - ☐ Special Light-Sport
 - ☐ Experimental Light-Sport
- ☐ Certificate of Authorization or Waiver (COA)
☐ None ☐ Unknown

Landing Gear

(Check all that apply)

- ☐ Retractable
- ☐ Tricycle
 - ☒ Tailwheel
 - ☐ Amphibian
 - ☐ High Skid
 - ☐ Emergency Float
 - ☐ Skid
 - ☐ Float
 - ☐ Ski
 - ☐ Hull
 - ☐ Ski Wheel
- ☐ Other Launch/Recovery System
☐ None ☐ Unknown

Engine Type (Select one)

- ☒ Reciprocating
- ☐ Liquid Rocket
- ☐ Turbo Shaft
- ☐ Solid Rocket
- ☐ Turbo Prop
- ☐ Hybrid Rocket
- ☐ Turbo Jet
- ☐ None
- ☐ Turbo Fan
- ☐ Unknown
- ☐ Electric

Fuel System Type (Reciprocating)

- ☒ Carburetor ☐ Fuel-Injected

Engine	Engine Manufacturer	Engine Model/Serial	Manufacturer's Serial Number	Date of Mfg	Rated Power ☒ Horsepower or ☐ lbs of Thrust	Total Time (hours)	Inspection (hours)	Time Since: Overhaul (hours)
Eng. 1	<u>P&W</u>	<u>R-1340-51M1</u>	<u>ZP-104354</u>		<u>600</u>	<u>6535</u>	<u>10</u>	<u>810</u>
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type

- ☐ 100-Hour
- ☐ Continuous Airworthiness
- ☐ AAIP
- ☐ Conditional Inspection
- ☒ Annual
- ☐ Unknown

Date Last Inspection: 06/08/2015

Airframe Total Time: 9343 hrs

hours measured at (Select one)

- ☒ Last Inspection ☐ Time of Accident/Incident

Type of Maintenance Program (Select one)

- ☒ Annual
- ☐ Conditional (Amateur-built only)
- ☐ Manufacturer's Inspection Program
- ☐ Other Approved Inspection Program (AAIP)
- ☐ Continuous Airworthiness
- ☐ Other, specify: —

Description of Fire Extinguishing System

- ☒ None
☐ Specify: —

Propeller 1

- ☐ Fixed Pitch
- ☒ Controllable Pitch
- ☐ Ground Adjustable

Manufacturer: HAMILTON STANDARD

Model: 12D40

Propeller 2

- ☐ Fixed Pitch
- ☐ Controllable Pitch
- ☐ Ground Adjustable

Manufacturer: —

Model: —

ELT Installed: ☒ Yes ☐ No

If Yes: ELT Manufacturer: UNKNOWN

Model or Part No.: 2-TALSTIME

TSO No.: ☐ OC91 (121.5 MHz) ☐ OC91a (121.5 MHz)
☐ OC126 (406 MHz)

Was ELT still mounted in aircraft? ☒ Yes ☐ No

Was ELT still connected to antenna? ☒ Yes ☐ No

Did ELT Activate? ☐ Yes ☒ No

If activated:

Did ELT Aid in Locating Aircraft: ☐ Yes ☒ No

If not activated:

- Indicate Reason: ☐ Impact Damage
☐ Fire Damage
☐ Battery Expired/Damaged
☒ Unknown

Additional Equipment (Check all that apply)

- ☐ ADS-B
- ☐ Airframe Parachute
- ☐ Angle of Attack Indicator
- ☐ Autopilot
- ☐ Data Recorder
- ☐ Electronic Flight Bag or Handheld Device
- ☐ Electronic Multifunction Display
- ☐ Electronic Primary Flight Display
- ☐ Handheld GPS
- ☐ Heads Up Display
- ☐ Onboard Weather
- ☐ Satellite Tracking Device
- ☐ Stall Warning System
- ☐ Video Recording Device
- ☐ Other, Specify: —

OWNER/OPERATOR INFORMATION			
Registered Aircraft Owner Name: <u>LOU FELDWAY</u> Fractional Ownership Aircraft: ☐ Yes ☒ No		City: <u>HARDY</u> State: <u>VA</u> ZIP: <u>24101</u> Country: <u>USA</u>	
Operator of Aircraft ☒ Same As Registered Owner Name: _____ Doing Business As: _____ Air Carrier/Operator Designator (4 Character Code): _____		☒ Same Address as Registered Owner City: _____ State: _____ ZIP: _____ Country: _____	
Operating Certificates Held <i>(Check all that apply)</i> ☒ None ☐ Flag Carrier Operating Certificate (FAR 121) ☐ Supplemental ☐ Air Cargo ☐ Foreign Air Carriers (FAR 129) ☐ Rotorcraft External Load (FAR 133) ☐ Commuter Air Carrier (FAR 135) ☐ On-Demand Air Taxi (FAR 135) ☐ Commercial Air Tour (FAR 136) ☐ Agricultural Aircraft (FAR 137) ☐ Pilot School (FAR 141) ☐ Certificate of Authorization or Waiver (COA) ☐ Commercial Space Transportation Experimental Permit ☐ Commercial Space Transportation License ☐ Other Operator of Large Aircraft	Regulation Flight Conducted Under ☒ FAR 91 ☐ FAR 129 ☐ FAR 415 ☐ FAR 103 ☐ FAR 135 ☐ FAR 431 ☐ FAR 121 ☐ FAR 135 ☐ FAR 435 ☐ FAR 125 ☐ FAR 137 ☐ FAR 437 ☐ FAR 91 Special Flight ☐ Non-US, Commercial ☐ Non-US, Non-commercial ☐ Public Aircraft <i>(Select one)</i> ☐ Armed Forces ☐ Federal ☐ State ☐ Local ☐ Unknown	Revenue Operation for FAR 121, 125, 129, 135 <i>(Select one for each group)</i> ☐ Scheduled or Commuter ☐ Non-Scheduled or Air Taxi ☐ Domestic ☐ International ☐ Passenger ☐ Cargo ☐ Mail Contract Only	
Revenue Sightseeing Flight ☐ Yes ☒ No		Air Medical Flight ☐ Yes ☒ No	
AIRPORT INFORMATION <i>(Fill in if accident/incident occurred on approach, landing, takeoff, departure, or within 3 miles of an airport)</i>			
Airport Name: <u>MASON JEWETT FIELD</u> Airport Identifier: <u>KTEW</u> Proximity to Airport: ☐ Off Airport/Airstrip ☒ On Airport/Airstrip ☐ N/A		Distance From Airport Center: <u>N/A</u> sm Direction From Airport: <u>N/A</u> degrees true Airport Elevation: <u>919</u> ft. msl	
Runway Information Runway ID: <u>10</u> (L/R/C) Length: <u>4004</u> ft Width: <u>75</u> ft		Condition of Runway/Landing Surface <i>(Check all that apply)</i> ☒ Dry ☐ Snow-Compacted ☐ Water-Calm ☐ Holes ☐ Snow-Crusted ☐ Water-Choppy ☐ Ice Covered ☐ Snow-Dry ☐ Water-Glassy ☐ Rough ☐ Snow-Wet ☐ Wet ☐ Rubber Deposits ☐ Soft ☐ Slush-Covered ☐ Vegetation ☐ Unknown	
Runway/Landing Surface <i>(Check all that apply)</i> ☒ Asphalt ☐ Grass-Turf ☐ Macadam ☐ Water ☐ Concrete ☐ Gravel ☐ Metal Wood ☐ Unknown ☐ Dirt ☐ Ice ☐ Snow			
Approach/Departure Segment <i>(Select one)</i> ☐ Taxi ☐ Takeoff ☐ Initial Climb ☐ VFR Departure ☐ IFR Departure Procedure/Clearance ☐ On Instrument Approach ☒ Landing ☐ Downwind ☐ Base ☐ Final ☐ Crosswind ☐ Low Approach ☐ Go Around ☐ Aborted Landing (after touchdown) ☐ Unknown			
IFR Approach <i>(Check all that apply)</i> ☒ None ☐ ADF/NDB ☐ SDF ☐ VORT/VOR ☐ VOR/DME ☐ TACAN ☐ PAR ☐ Sidestep ☐ H.S. ☐ Localizer Only ☐ LOC-back course ☐ RNAV ☐ MLS ☐ LDA ☐ ASR ☐ Visual ☐ Contact ☐ Circling ☐ Practice ☐ GPS ☐ Unknown		VFR Approach <i>(Check all that apply)</i> ☐ None ☒ Traffic Pattern ☐ Straight-In ☐ Valley Terrain Following ☐ Go Around ☒ Full Stop ☐ Stop and Go ☐ Touch and Go ☐ Simulated Forced Landing ☐ Forced Landing ☐ Precautionary Landing ☐ Unknown	

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FLIGHT ITINERARY INFORMATION			
Last Departure Point Airport ID: <u>KRMV</u> City: <u>MARSHALL</u> State: <u>MI</u> Country: <u>USA</u>		Time of Departure Time: <u>14:55</u> Time Zone: <u>EDT</u>	
Destination Airport ID: <u>KTEW</u> City: <u>MASSA</u> State: <u>MI</u> Country: <u>USA</u>		Type Flight Plan Filed ☒ None ☐ VFR/IFR ☐ Company VFR ☐ IFR ☐ Military VFR ☐ Unknown ☐ VFR Activated? ☐ Yes ☐ No ☐ Unknown	
Type of ATC Clearance/Service (Check all that apply) ☒ None ☐ Special VFR ☐ Special IFR ☐ VFR Flight Following ☐ Cruise ☒ VFR ☐ IFR ☐ VFR On Top ☐ Traffic Advisory ☐ Unknown / NA			
Airspace where the accident/incident occurred (Check all that apply) ☐ Class A ☐ Class G ☐ Class B ☐ Demo Area ☐ Class C ☐ Warning Area ☐ Class D ☐ Prohibited Area ☐ Class E ☐ Restricted Area ☐ Military Operations Area (MOA) ☐ Airport Advisory Area ☐ Jet Training Area ☐ TRSA ☐ FAR 93 ☐ Special ☐ Air Traffic Control Area ☐ Unknown Altitude of In-Flight Occurrence: _____ ft msl			
WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE			
Source of Pilot Weather Information (Check all that apply) ☐ National Weather Service ☐ Company ☐ Flight Service Station ☐ Military ☐ TV/Radio ☐ Internet ☒ Automated Report ☐ None ☐ Commercial Weather Service (DUATS) ☐ Unknown ☐ On-Board Weather		Weather Observation Facility Facility ID: <u>TEW</u> Observation Time: <u>15:15 to 15:20</u> Time Zone: <u>EDT</u> Distance from Accident Site: <u>0</u> nm Direction from Accident Site: <u>N/A</u> degrees true	
Basic Conditions ☒ VMC ☐ IMC ☐ Unknown		Light Condition ☐ Day ☐ Dusk ☐ Dark Night ☐ Unknown ☒ Day ☐ Night ☐ Bright Night	
Sky/Lowest Cloud Condition ☐ Clear ☐ Thin Broken ☐ Few ☐ Thin Overcast ☐ Partial Obscuration ☐ Unknown ☒ Scattered		Ceiling ☒ None (Clear) ☐ Obscured ☐ Broken ☐ Indefinite ☐ Overcast ☐ Unknown	
Lowest Cloud Condition Height _____ ft agl		Ceiling Height _____ ft agl	
Wind Direction <u>090</u> degrees true		Wind Speed ☐ Calm ☐ Light and Variable Speed: <u>06</u> kts	Wind Gusts ☐ Not Gusting Speed: <u>09</u> kts
Intensity of Precipitation ☐ Light ☐ Moderate ☐ Heavy ☐ N/A ☐ Unknown		Type of Precipitation (Check all that apply) ☒ None ☐ Drizzle ☐ Freezing Rain ☐ Rain ☐ Ice Pellets ☐ Snow Shower ☐ Snow ☐ Snow Pellets ☐ Ice Pellets Shower ☐ Hail ☐ Snow Grains ☐ Freezing Drizzle ☐ Rain Showers ☐ Ice Crystals	
Icing Forecast Amount ☒ None ☐ Trace ☐ Light ☐ Moderate ☐ Severe ☐ Unknown Type ☐ N/A ☐ Rime ☐ Clear ☐ Mixed ☐ Unknown		Icing Actual Amount ☒ None ☐ Trace ☐ Light ☐ Moderate ☐ Severe ☐ Unknown Type ☐ N/A ☐ Rime ☐ Clear ☐ Mixed ☐ Unknown	
Restriction to Visibility (Check all that apply) ☒ None ☐ Fog ☐ Blowing Dust ☐ Ground Fog ☐ Blowing Sand ☐ Haze ☐ Blowing Snow ☐ Ice Fog ☐ Blowing Spray ☐ Smoke ☐ Dust ☐ Unknown		Turbulence Type (Check all that apply) ☐ None ☐ Clear Air ☐ Terrain-Induced ☐ Convective Turbulence Severity ☒ Light ☐ Moderate ☐ Severe ☐ Extreme	
NOTAMS (D and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident:			

DAMAGE TO AIRCRAFT AND OTHER PROPERTY

Aircraft Damage

- ☐ None
☒ Substantial
☐ Minor
☐ Destroyed
☐ Unknown

Aircraft Fire

- ☒ None
☐ In-Flight
☐ On-Ground
☐ Both Ground and In-Flight
☐ Fire at Unknown Time
☐ Unknown

Aircraft Explosion

- ☒ None
☐ In-Flight
☐ On-Ground
☐ Both Ground and In-Flight
☐ Explosion at Unknown Time
☐ Unknown

Description of Damage to Aircraft and Other Property (Use additional sheet if necessary)

LEFT WING BENT WITH SAIR DAMAGE, LEFT MAIN GEAR COLLAPSED, PITOT TUBE ON RIGHT LEADING EDGE NEAR WING TIP BROKEN.

NARRATIVE HISTORY OF FLIGHT (Please type or print in ink)

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State departure time and and location, services obtained, and intended destination. Provide as much detail as possible.

DEPARTED KRMV (BROOKS FIELD, MARSHALL, MI) @ 14:55 EDT FOR KTEW (MASON, JEWETT FIELD, MASON, MI). IN FLIGHT & AIRPORT VISIBILITY WAS 10+ MILES, WINDS ON A WINDS 10 MILES OUT, WERE 0906, FAVORING RUNWAY 10. ON SHORT FINAL TO RWY 10 WINDS WERE STILL REPORTED 0906. I TOUCHED DOWN NORMALLY, ON RWY 10, PRIOR TO 1000' MARKS, & ON ROLLOUT, PRIOR TO HALFWAY POINT ^{2000'} DOWN THE RUNWAY, THERE WAS A WINDSHIFT & GUST OF WIND TO A MORE NORTHERLY DIRECTION. I MADE AN ADDITIONAL AILERON FLIGHT CONTROL CORRECTION TO COUNTERACT WINDSHIFT. AIRCRAFT THEN VEERED / LUNGED TO THE LEFT, EXITING LEFT SIDE OF RUNWAY. AIRCRAFT CAME TO REST IN NEAR DRAINAGE DITCH FOR RUNWAY WITH SUBSTANTIAL DAMAGE. NO OTHER PROPERTY DAMAGE OCCURED.

RECOMMENDATION (How could this accident/incident have been prevented?)

Operator/Owner Safety Recommendation

THIS WAS ONLY THE 2ND HOUR OF FLIGHT OPERATION FOR THIS PARTICULAR (757LF) T-6 AIRCRAFT. I WAS STILL GETTING A FEEL FOR & USE TO THIS AIRCRAFT (N737LF), ESPECIALLY IN HOW IT REACTED IN DIFFERENT WIND CONDITIONS. MORE TIME IN 757LF WOULD OF HELPED PREVENT THIS ACCIDENT.

MECHANICAL MALFUNCTION/FAILURE (if more space is needed, continue on separate sheet)Was there Mechanical Malfunction/Failure? ☐ Yes ☒ No

(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)

Total Time Cycles
On Part

Hours

Cycles

Time Since This Part
Inspected/Overhauled

Hours

FUEL & SERVICES INFORMATIONFuel on Board at Last Takeoff
(Convert from pounds, as necessary)

110

Gallons

Fuel Type

☐ 80/87☐ 115/145☐ Jet B☐ Other, specify _____☒ 100 Low Lead☐ Jet A☐ JP8☐ 100-130☐ Jet A-1☐ Automotive

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFTWas an emergency evacuation of the aircraft performed? ☒ Yes ☐ No

Method of Exit & Describe how the occupants exited and how many occupants evacuated each location

I WAS ONLY OCCUPANT. I SLID AIRCRAFT CANOPY BACK, WHICH FUNCTIONED NORMALLY, & EXITED AIRCRAFT NORMALLY & SAFELY.

OTHER AIRCRAFT & COLLISION (if air or ground collision occurred, complete this section for other aircraft)

Aircraft Registration Number

Manufacturer:

Model:

Damage to Other Aircraft

☐ Destroyed☐ Minor☐ Substantial☐ None

Registered Owner of Other Aircraft

Pilot of Other Aircraft

Name:

Name:

City:

City:

State:

ZIP:

State:

ZIP:

Country:

Country:

ADDITIONAL INFORMATION (Please type or print in ink)

Use this space if additional space is needed for any answers.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Date of this Report

05/21/2016
mm/dd/yyyy

Name of Pilot/Operator:

Signature:

-- or --

☐ Check here to electronically sign this document**If a Person Other than Pilot/Operator is Filing Report**

Name:

Title:

Signature:

-- or --

☐ Check here to electronically sign this document**FOR NTSB USE ONLY**NTSB Accident/Incident No.
CEN16CA194Reviewed by NTSB Regional Office
CentralName of Investigator
C. LiedlerDate Report Received
05/24/2016