



Aviation Investigation Final Report

Location:	Three Rivers, Michigan	Accident Number:	GAA17CA142
Date & Time:	February 19, 2017, 15:30 Local	Registration:	N11344
Aircraft:	Cessna T182	Aircraft Damage:	Substantial
Defining Event:	Abnormal runway contact	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot reported that, after clearing some electrical wires on final approach, he reduced the throttle to idle. He further reported that the airspeed became low, the airplane landed hard and bounced twice, and the nose landing gear collapsed. The airplane nosed over and came to rest inverted.

The airplane sustained substantial damage to the empennage, fuselage, and both wings.

The pilot reported that there were no preaccident mechanical failures or malfunctions with the airframe or engine that would have precluded normal operation.

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 sufficient airspeed during the landing flare, which resulted in a hard landing and a nose-over.

Findings

Aircraft	Landing flare - Not attained/maintained
Aircraft	Airspeed - Not attained/maintained
Personnel issues	Aircraft control - Pilot
Environmental issues	Soft surface - Contributed to outcome

Factual Information

History of Flight

Landing-flare/touchdown	Abnormal runway contact (Defining event)
Landing-landing roll	Landing gear collapse
Landing-landing roll	Nose over/nose down

Pilot Information

Certificate:	Commercial	Age:	60, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	December 24, 2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	March 6, 2016
Flight Time:	(Estimated) 485 hours (Total, all aircraft), 111 hours (Total, this make and model), 383 hours (Pilot In Command, all aircraft), 1 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N11344
Model/Series:	T182 T	Aircraft Category:	Airplane
Year of Manufacture:	2006	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	T18208645
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	February 22, 2016 Annual	Certified Max Gross Wt.:	3110 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	812.3 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	C91A installed, activated, did not aid in locating accident	Engine Model/Series:	TIO-540-AK1A
Registered Owner:		Rated Power:	235 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KHAI, 824 ft msl	Distance from Accident Site:	5 Nautical Miles
Observation Time:	08:15 Local	Direction from Accident Site:	102°
Lowest Cloud Condition:	Clear	Visibility	7 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/ None
Wind Direction:		Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.87 inches Hg	Temperature/Dew Point:	0°C / -1°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	THREE RIVERS, MI (HAI)	Type of Flight Plan Filed:	None
Destination:	Three Rivers, MI (N/A)	Type of Clearance:	None
Departure Time:	15:25 Local	Type of Airspace:	Class G

Airport Information

Airport:	Private Airstrip N/A	Runway Surface Type:	Grass/turf
Airport Elevation:	940 ft msl	Runway Surface Condition:	Dry;Soft;Vegetation
Runway Used:	02	IFR Approach:	None
Runway Length/Width:	1420 ft / 100 ft	VFR Approach/Landing:	Full stop;Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	41.9775,-85.704444(est)

Administrative Information

Investigator In Charge (IIC):	Benhoff, Kathryn
Additional Participating Persons:	Ramon Grillo; FAA; Grand Rapids, MI
Original Publish Date:	April 4, 2017
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=94729

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

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](#).