



Aviation Investigation Final Report

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|--------------------------------|--------------------------------------|-------------------------|-------------|
| Location: | Marshall, Texas | Accident Number: | GAA19CA129 |
| Date & Time: | December 21, 2018, 13:00 Local | Registration: | N23YR |
| Aircraft: | Cessna 182 | Aircraft Damage: | Substantial |
| Defining Event: | Loss of control on ground | Injuries: | 1 None |
| Flight Conducted Under: | Part 91: General aviation - Personal | | |

Analysis

The solo student pilot reported that, during landing, the airplane touched down left of centerline, veered left, exited the runway to the left, and then nosed over.

The airplane sustained substantial damage to the lower left-wing lift strut.

The student reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

The airport's automated weather observation station reported that, about 5 minutes before the accident, the wind was from 320° at 7 knots and that, about 15 minutes after the accident, the wind was from 320° at 9 knots and variable between 290° and 350°. The pilot landed the airplane on runway 33.

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 directional control during landing.

Findings

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| Aircraft | Directional control - Not attained/maintained |
| Personnel issues | Aircraft control - Student/instructed pilot |

Factual Information

History of Flight

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| Landing-flare/touchdown | Miscellaneous/other |
| Landing-flare/touchdown | Loss of control on ground (Defining event) |
| Landing-flare/touchdown | Nose over/nose down |
| Landing-flare/touchdown | Runway excursion |

Student pilot Information

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|---------------------------|--|-----------------------------------|--------------|
| Certificate: | Student | Age: | 58,Male |
| Airplane Rating(s): | None | Seat Occupied: | Unknown |
| Other Aircraft Rating(s): | None | Restraint Used: | Unknown |
| Instrument Rating(s): | None | Second Pilot Present: | No |
| Instructor Rating(s): | None | Toxicology Performed: | No |
| Medical Certification: | Class 3 With waivers/limitations | Last FAA Medical Exam: | May 23, 2017 |
| Occupational Pilot: | No | Last Flight Review or Equivalent: | |
| Flight Time: | (Estimated) 201 hours (Total, all aircraft), 94 hours (Total, this make and model) | | |

Aircraft and Owner/Operator Information

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|-------------------------------|----------|--------------------------------|-----------------|
| Aircraft Make: | Cessna | Registration: | N23YR |
| Model/Series: | 182 T | Aircraft Category: | Airplane |
| Year of Manufacture: | 2015 | Amateur Built: | |
| Airworthiness Certificate: | Normal | Serial Number: | 18282379 |
| Landing Gear Type: | Tricycle | Seats: | 4 |
| Date/Type of Last Inspection: | Unknown | Certified Max Gross Wt.: | 2348 lbs |
| Time Since Last Inspection: | | Engines: | 1 Reciprocating |
| Airframe Total Time: | | Engine Manufacturer: | Lycoming |
| ELT: | | Engine Model/Series: | IO-540-AB1A5 |
| Registered Owner: | | Rated Power: | 290 Horsepower |
| Operator: | | Operating Certificate(s) Held: | None |

Meteorological Information and Flight Plan

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|---|----------------------------------|---|------------------|
| Conditions at Accident Site: | Visual (VMC) | Condition of Light: | Day |
| Observation Facility, Elevation: | KASL,357 ft msl | Distance from Accident Site: | 0 Nautical Miles |
| Observation Time: | 19:15 Local | Direction from Accident Site: | 337° |
| Lowest Cloud Condition: | Clear | Visibility | 10 miles |
| Lowest Ceiling: | None | Visibility (RVR): | |
| Wind Speed/Gusts: | 9 knots / | Turbulence Type Forecast/Actual: | None / None |
| Wind Direction: | 320° | Turbulence Severity Forecast/Actual: | N/A / N/A |
| Altimeter Setting: | 29.96 inches Hg | Temperature/Dew Point: | 13°C / -3°C |
| Precipitation and Obscuration: | No Obscuration; No Precipitation | | |
| Departure Point: | Marshall, TX (ASL) | Type of Flight Plan Filed: | None |
| Destination: | Marshall, TX (ASL) | Type of Clearance: | None |
| Departure Time: | | Type of Airspace: | Class G |

Airport Information

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|-----------------------------|---------------------|----------------------------------|-----------------------|
| Airport: | Harrison County ASL | Runway Surface Type: | Asphalt |
| Airport Elevation: | 357 ft msl | Runway Surface Condition: | Dry |
| Runway Used: | 33 | IFR Approach: | None |
| Runway Length/Width: | 5002 ft / 100 ft | VFR Approach/Landing: | Full stop;Straight-in |

Wreckage and Impact Information

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|----------------------------|--------|-----------------------------|---------------------------|
| 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: | 32.520557,-94.307777(est) |

Administrative Information

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| Investigator In Charge (IIC): | Nepomuceno, Eleazar |
| Additional Participating Persons: | Kevin Taylor; FAA; Dallas, TX |
| Original Publish Date: | September 26, 2019 |
| Note: | This accident report documents the factual circumstances of this accident as described to the NTSB. |
| Investigation Docket: | https://data.nts.gov/Docket?ProjectID=98953 |

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](#).