



National Transportation Safety Board Aviation Accident Final Report

Location:	Mansfield, MA	Accident Number:	ERA14CA124
Date & Time:	02/15/2014, 1000 EST	Registration:	N2143X
Aircraft:	CESSNA 172S	Aircraft Damage:	Substantial
Defining Event:	Controlled flight into terr/obj (CFIT)	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation - Instructional		

Analysis

According to the student pilot, during the solo flight while on final approach, he thought the airplane was on glidepath, but realized after the accident that the airplane was "low." Subsequently, the right main landing gear struck a snowbank at the end of the runway, which resulted in the right main landing gear being bent aft. The student pilot proceeded to land the airplane; however, upon landing it veered off the right side of the runway into another snowbank. A postaccident examination of the airplane revealed substantial damage to the firewall. The student pilot reported no preimpact mechanical malfunctions or failures with the airplane 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 student pilot's failure to maintain an adequate approach glide path, which resulted in a collision with a snow bank.

Findings

Aircraft	Descent/approach/glide path - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Student pilot (Cause)
Environmental issues	Snow/ice - Contributed to outcome

Factual Information

History of Flight

Approach-VFR pattern final	Controlled flight into terr/obj (CFIT) (Defining event) Miscellaneous/other
Landing-landing roll	Runway excursion Collision with terr/obj (non-CFIT)

Student Pilot Information

Certificate:	Student	Age:	50
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
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:	10/31/2012
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	66 hours (Total, all aircraft), 66 hours (Total, this make and model), 3 hours (Pilot In Command, all aircraft), 6 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N2143X
Model/Series:	172S	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	172S9526
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	2299 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	7124 Hours at time of accident	Engine Manufacturer:	LYCOMING
ELT:		Engine Model/Series:	IO-360-L2A
Registered Owner:	EASY FLYER AVIATION INC	Rated Power:	0 hp
Operator:	King Aviation Mansfield	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	TAN, 41 ft msl	Distance from Accident Site:	11 Nautical Miles
Observation Time:	1452 UTC	Direction from Accident Site:	135°
Lowest Cloud Condition:	Clear	Visibility	10 Miles
Lowest Ceiling:	Broken / 10000 ft agl	Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	110°	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.83 inches Hg	Temperature/Dew Point:	2°C / -5°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Mansfield, MA (1B9)	Type of Flight Plan Filed:	None
Destination:	Mansfield, MA (1B9)	Type of Clearance:	None
Departure Time:	0930 EST	Type of Airspace:	

Airport Information

Airport:	MANSFIELD MUNI (1B9)	Runway Surface Type:	Asphalt
Airport Elevation:	121 ft	Runway Surface Condition:	Dry
Runway Used:	14	IFR Approach:	None
Runway Length/Width:	3503 ft / 75 ft	VFR Approach/Landing:	Traffic Pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	42.000000, -71.195833

Administrative Information

Investigator In Charge (IIC):	Heidi Moats	Report Date:	04/01/2014
Additional Participating Persons:	Joe Taylor; FAA/FSDO; Boston, MA		
Publish Date:	07/08/2015		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=88813		

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