

NATIONAL TRANSPORTATION SAFETY BOARD
PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT
 This form to be used for reporting civil and public use aircraft accidents and incidents

BASIC INFORMATION

Accident/Incident Location

Nearest City/Place: CENTENNIAL State: CO
 ZIP: 80122 Country: U.S. OF A
 Latitude: 39°34'N (dd:mm:ss N/S) Longitude: 104°51'W (ddd:mm:ss E/W)

Date/Time

Date: 07/02/2010 Local Time: 1341 hours
 mm/dd/yyyy Time Zone: MDT

Phase of Operation

☐ Standing ☐ Takeoff (incl. initial climb) ☐ Cruise ☐ Hover
☐ Taxi ☐ Climb ☐ Maneuvering ☐ Other
☐ Descent ☒ Landing ☐ Approach ☐ Unknown

Collision with Other Aircraft

☐ Midair
☐ On-ground
☐ None

Altitude of In-Flight Occurrence

5883 (SURFACE) ft MSL

AIRCRAFT INFORMATION

Manufacturer: HUSKY

Model: A1-B

Serial Number: 2288

Registration Number: N80HY

Amateur-built: ☐ Yes ☒ No

Max Gross Weight: 2200 lbs

Weight at Time of Accident/Incident: 2080 lbs

Location of Center of Gravity at Time of Accident/Incident:

77 inches from ☐ nose or ☒ datum
 -or- Percent Mean Aerodynamic Cord (% MAC)

Category of Aircraft

☒ Airplane
☐ Balloon
☐ Blimp/Dirigible
☐ Glider
☐ Gyrocraft
☐ Helicopter
☐ Powered lift
☐ Ultralight
☐ Unknown

Type of Airworthiness Certificate
 (Check all that apply)

Standard
☐ Normal
☐ Utility
☐ Acrobatic
☐ Transport
Special
☐ Restricted
☐ Limited
☐ Provisional
☐ Experimental
☐ Special Flight
☐ Light Sport

Number of Seats: 2

If Large Aircraft, how many seats for:

Flight Crew: _____

Cabin Crew: _____

Passengers: _____

Landing Gear ☐ Retractable

Check any additional landing gear configuration that applies:

☐ Tricycle ☒ Tailwheel
☐ Amphibian ☐ High Skid
☐ Emergency Float ☐ Skid
☐ Float ☐ Ski
☐ Hull ☐ Ski/Wheel
☐ Unknown

Type of Maintenance Program

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

Last Inspection Type

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

Date Last Inspection: _____

mm/dd/yyyy

Airframe Total Time: 65 hrs

hours measured at (check one)

☐ Last Inspection ☒ Time of Accident/Incident

IFR Equipped

☒ Yes ☐ No ☐ Unknown

Stall Warning System Installed

☒ Yes ☐ No ☐ Unknown

Type of Fire Extinguishing System

☒ None
☐ Specify _____

ELT Installed

☒ Yes ☐ No

ELT Activated

☐ Yes ☒ No

ELT Aided in Locating Accident/Incident

☐ Yes ☒ No

ELT Manufacturer: _____

Model/Series: _____

Serial Number: _____

Battery Type: _____

Battery Exp. Date: _____

Engine Type

☒ Reciprocating ☐ Turbo Jet
☐ Turbo Shaft ☐ Turbo Fan
☐ Turbo Prop ☐ Unknown

Reciprocating Fuel System Type

☒ Carburetor
☐ Fuel Injected

Propeller

☐ Fixed Pitch
☒ Controllable Pitch

Manufacturer: MT-PROPELLER

Model: MTV-15-B/20-58

Engine	Engine Manufacturer	Engine Model/Series	Manufacturer's Serial Number	Date of Mfg. mm/dd/yyyy	Engine Rated Power Measured as (check one) <input checked="" type="checkbox"/> Horsepower or <input type="checkbox"/> lbs of Thrust	Total Time (hours)	Time Since Inspection (hours)	Time Since Overhaul (hours)
Eng. 1	<u>LYCOMING</u>	<u>O-360-A1P</u>			<u>180</u>	<u>63</u>		<u>N/A</u>
Eng. 2								
Eng. 3								
Eng. 4								

OWNER/OPERATOR INFORMATION			
Registered Aircraft Owner Name: <u>STEVEN L. McFARLAND</u> Fractional Ownership Aircraft: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Owner Address City: <u>CHEYENNE</u> State: <u>WY</u> ZIP: <u>82003</u> Country: <u>U.S. OF A.</u>	
Operator of Aircraft <input checked="" type="checkbox"/> Same As Registered Owner Name: _____ Doing Business As: _____ Air Carrier/Operator Designator (4 Character Code): _____		Operator Address <input checked="" type="checkbox"/> Same As Registered Owner City: _____ State: _____ ZIP: _____ Country: _____	
Regulation Flight Conducted Under <input checked="" type="checkbox"/> FAR 91 <input type="checkbox"/> FAR 129 <input type="checkbox"/> FAR 91 Special Flight <input type="checkbox"/> Public Use (select type) <input type="checkbox"/> FAR 103 <input type="checkbox"/> FAR 133 <input type="checkbox"/> Non-US, Commercial <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Local <input type="checkbox"/> FAR 121 <input type="checkbox"/> FAR 135 <input type="checkbox"/> Non-US, Non-commercial <input type="checkbox"/> Unknown <input type="checkbox"/> FAR 125 <input type="checkbox"/> FAR 137 <input type="checkbox"/> Armed Forces		Revenue Sightseeing Flight <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Air Medical Flight <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Purpose of Flight for FAR 91, 103, 133, 137 (Select one) <input type="checkbox"/> Personal <input type="checkbox"/> Business <input type="checkbox"/> Executive/Corporate <input type="checkbox"/> Other Work Use <input checked="" type="checkbox"/> Instructional <input type="checkbox"/> Ferry <input type="checkbox"/> Positioning <input type="checkbox"/> Aerial Application <input type="checkbox"/> Aerial Observation <input type="checkbox"/> Air Drop <input type="checkbox"/> Air Race / Show <input type="checkbox"/> Flight Test <input type="checkbox"/> Public Use <input type="checkbox"/> Unknown		Revenue Operation for FAR 121, 125, 129, 135 (Select one) <input type="checkbox"/> Scheduled or Commuter <input checked="" type="checkbox"/> Non-Scheduled or Air Taxi Domestic or International <input type="checkbox"/> Domestic <input type="checkbox"/> International Cargo Operation <input type="checkbox"/> Passenger/Cargo <input type="checkbox"/> Passenger _____ How many? <input type="checkbox"/> Cargo _____ lbs <input type="checkbox"/> Mail	
Type of Commercial Operating Certificate Held (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flag Carrier Operating Certificate (121) <input type="checkbox"/> Supplemental <input type="checkbox"/> Air Cargo <input type="checkbox"/> Foreign Air Carriers (129) <input type="checkbox"/> Commuter Air Carrier (135) <input type="checkbox"/> On-Demand Air Taxi (135) <input type="checkbox"/> Large Helicopter (127) <input type="checkbox"/> Rotorcraft External Load (133) - or - <input type="checkbox"/> Agricultural Aircraft (137) <input type="checkbox"/> Other Operator of Large Aircraft			
OTHER AIRCRAFT - COLLISION (If air or ground collision occurred, complete this section for other aircraft)			
Aircraft Registration Number <u>NONE</u>		Manufacturer: _____ Model: _____	
Damage to Other Aircraft <input type="checkbox"/> Destroyed <input type="checkbox"/> Minor <input type="checkbox"/> Substantial <input type="checkbox"/> None			
Registered Owner of Other Aircraft First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____			
Pilot of Other Aircraft First Name: _____ City: _____ Middle Initial: _____ State: _____ ZIP: _____ Last Name: _____ Country: _____			
MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on separate sheet)			
Was there Mechanical Malfunction/Failure? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown <i>(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)</i> 			Total Time/Cycles On Part _____ Hours _____ Cycles Time Since This Part Inspected/Overhauled _____ Hours
DAMAGE TO AIRCRAFT AND OTHER PROPERTY			
Aircraft Damage <input type="checkbox"/> None <input checked="" type="checkbox"/> Substantial <input type="checkbox"/> Minor <input type="checkbox"/> Destroyed		Aircraft Fire <input checked="" type="checkbox"/> None <input type="checkbox"/> Both Ground and In-Flight <input type="checkbox"/> In-Flight <input type="checkbox"/> Unknown Origin <input type="checkbox"/> On-Ground	
Aircraft Explosion <input checked="" type="checkbox"/> None <input type="checkbox"/> Both Ground and In-Flight <input type="checkbox"/> In-Flight <input type="checkbox"/> Unknown Origin <input type="checkbox"/> On-Ground			

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

Wing tips
Propeller
Windshield
RT MAIN GAR
COWLING

NO OTHER PROPERTY

AIRPORT INFORMATION (if the accident/incident occurred on approach, takeoff or within 3 miles of an airport, complete this section)

Airport Identifier: KAPA

Distance From Airport Center: 1 S. West SM

Airport Name: CENTENNIAL

Direction From Airport: _____ degrees MAG

Proximity to Airport ☐ Off Airport/Airstrip ☐ On Airport ☒ On Airstrip

Airport Elevation: 5885 ft. MSL

Approach Segment (Select one)

☐ On Instrument Approach ☒ Landing Roll Out ☐ Base leg ☐ Final ☐ Go Around
☐ Crosswind ☐ Downwind ☐ Low Approach ☐ Aborted Landing (after touchdown)

IFR Approach (Check all that apply)

☒ None ☐ PAR ☐ MLS ☐ Practice
☐ ADF/NDB ☐ Sideslip ☐ LDA ☐ GPS
☐ SDF ☐ ILS ☐ ASR ☐ Loran
☐ VOR/TVOR ☐ Localizer Only ☐ Visual ☐ Unknown
☐ VOR/DME ☐ LOC-back course ☐ Contact
☐ TACAN ☐ RNAV ☐ Circling

VFR Approach (Check all that apply)

☐ None ☒ Stop and Go
☐ Traffic Pattern ☐ Touch and Go
☐ Straight-In ☐ Simulated Forced Landing
☐ Valley/Terrain Following ☐ Forced Landing
☐ Go Around ☐ Precautionary Landing
☐ Full Stop ☐ Unknown

Runway Information

Runway ID: 35L (L/R/C) Length: 7000 ft Width: 77 ft

Runway/Landing Surface (Check all that apply)

☒ Asphalt ☐ Grass/Turf ☐ Macadam ☐ Water
☐ Concrete ☐ Gravel ☐ Metal/Wood ☐ Unknown
☐ Dirt ☐ Ice ☐ Snow

Condition of Runway/Landing Surface (Check all that apply)

☒ Dry ☐ Snow-Compacted ☐ Water-Calm
☐ Holes ☐ Snow-Crusted ☐ Water-Choppy
☐ Ice Covered ☐ Snow-Dry ☐ Water-Glassy
☐ Rough ☐ Snow-Wet ☐ Wet
☐ Rubber Deposits ☐ Soft ☐ Unknown
☐ Slush Covered ☐ Vegetation

FLIGHT ITINERARY INFORMATION

Last Departure Point

Airport ID: KAPA

City: CENTENNIAL

State: COLORADO

Country: U.S. of A.

Time of Departure

Time: 1334

Time Zone: MDT

Destination

Airport ID: KAPA

City: CENTENNIAL-ENGLEWOOD

State: COLORADO

Country: U.S. of A.

Type Flight Plan Filed

☒ None ☐ VFR/IFR
☐ Company VFR ☐ IFR
☐ Military VFR ☐ Unknown
☐ VFR

Activated? ☐ Yes ☐ No

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 E ☐ Prohibited Area ☐ Jet Training Area ☐ Special
☐ Class B ☐ Class G ☐ Restricted Area ☐ TRSA ☐ Air Traffic Control Area
☐ Class C ☐ Demo Area ☐ Military Operations Area (MOA) ☐ FAR 93 ☐ Unknown
☒ Class D ☐ Warning Area ☐ Airport Advisory Area

Aircraft Load Description (Check all that apply)

☐ None ☐ Towing Glider ☐ Parachutists ☐ Livestock
☒ Passengers ☐ Towing Banner ☐ Water ☐ Unknown
☐ Cargo ☐ Other External ☐ Chemical/Fertilizer/Seeds

FUEL & SERVICES INFORMATION

Fuel on Board at Last Takeoff

(convert from pounds, as necessary)

Est. 30-35 Gallons

Fuel Type

☐ 80/87 ☐ 115/145 ☐ JP3 ☐ Other, specify _____
☐ 100 Low Lead ☐ Jet A ☐ JP4
☒ 100/130 ☐ Automotive ☐ JP5

Other Services, if Any, Prior to Departure

EVACUATION OF AIRCRAFT

Was an emergency evacuation of the aircraft performed? ☐ Yes ☒ No

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

FRONT SEAT PASSENGER AND REAR SEAT PASSENGER EXITED THROUGH THE SINGLE CABIN DOOR

WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE

Weather Observation Facility

Facility ID: KAPA ATIS

Observation Time: APPROX 1200 HRS MDT

Time Zone: MDT

Distance from Accident Site: 1.5 S.W. NM

Direction from Accident Site: EST 060° degrees MAG

Source of Weather Information

(Check all that apply)

- ☐ National Weather Service ☐ Company
☐ Flight Service Station ☐ Military
☐ TV/Radio ☐ Internet
☒ Automated Report ☐ Unknown
☐ Commercial Weather Service (DUATS)

Method of Briefing

(Check all that apply)

- ☐ In Person
☐ Teletype
☐ Telephone/Computer
☒ Aircraft Radio
☐ TV/Radio
☐ Unknown

Briefing Type/Completeness

- ☐ Full ☐ Abbreviated
☐ Partial / Limited By Pilot ☐ Unknown
☐ Partial / Limited By Briefer ☒ Not Pertinent

Light Condition

- ☐ Dawn ☐ Dusk ☐ Dark Night
☒ Day ☐ Night ☐ Bright Night
☐ Not Reported

Visibility

P65M miles

Sky/Lowest Cloud Condition

- ☒ Clear ☐ Thin Broken
☐ Few ☐ Thin Overcast
☐ Partial Obscuration ☐ Unknown
☐ Scattered

Ceiling

- ☒ None (clear) ☐ Obscured
☐ Broken ☐ Indefinite
☐ Overcast ☐ 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

Lowest Cloud Condition Height

NONE ft AGL

Ceiling Height

NONE ft AGL

Wind Direction

- ☐ Indicated:
 _____ degrees MAG

☒ Variable 5 KNOTS

Wind Speed

Velocity: 5 KTS

- or-
☐ Calm ☒ Light and Variable

Wind Gusts

Velocity: B KTS

- ☒ Gusting
☐ Not Gusting

Type of Turbulence (Check all that apply)

- ☒ None ☐ In Clouds
☐ Clear Air ☐ Vicinity of Thunderstorm

Severity of Turbulence

- ☐ Extreme ☐ Moderate ☐ Light
☐ Severe ☐ Moderate Chop

NOTAMs (D, L and FDC), AIRMETs, SIGMETs, PIREPs in effect at the time of the accident/incident

NONE FOR TRAFFIC PATTERN

Temperature: 28 (C)
 or _____ (F)

Altimeter Setting: 30.05 in. HG
 or _____ MB

Density Altitude: 8200 ft

Dew Point: _____ (C)
 or _____ (F)

Icing Forecast

Amount

- ☒ None ☐ Moderate
☐ Trace ☐ Severe
☐ Light

Type

- ☐ Rime
☐ Clear
☐ Mixed

Icing Actual

Amount

- ☒ None ☐ Moderate
☐ Trace ☐ Severe
☐ Light

Type

- ☐ Rime
☐ Clear
☐ Mixed

Type of Precipitation (Check all that apply)

- ☒ None ☐ Drizzle
☐ Rain ☐ Ice Pellets
☐ Snow ☐ Snow Pellets
☐ Hail ☐ Snow Grains
☐ Rain Showers ☐ Ice Crystals
☐ Freezing Rain ☐ Ice Pellets Shower
☐ Snow Shower ☐ Freezing Drizzle

Intensity of Precipitation

- ☐ Light ☐ Moderate ☐ Heavy

PILOT "A" INFORMATION																																																																																																			
Pilot "A" Responsibilities at the Time of Accident/Incident <input type="checkbox"/> Pilot <input type="checkbox"/> Co-Pilot <input type="checkbox"/> Student Pilot <input checked="" type="checkbox"/> Flight Instructor <input type="checkbox"/> Check Pilot <input type="checkbox"/> Flight Engineer <input type="checkbox"/> Other Flight Crew																																																																																																			
Pilot "A" Identification First Name: <u>CURTIS</u> City: <u>CENTENNIAL</u> Middle Initial: <u>JAY</u> State: <u>CO</u> ZIP: <u>80122</u> Last Name: <u>SILVERNALE</u> Country: <u>U.S. of A.</u> Age at time of Accident/Incident: <u>69</u> Date of Birth: [REDACTED] Certificate Number: [REDACTED] <div style="text-align: center; font-size: small;">mm/dd/yyyy</div>																																																																																																			
Degree of Injury <input checked="" type="checkbox"/> None <input type="checkbox"/> Fatal <input type="checkbox"/> Minor <input type="checkbox"/> Unknown <input type="checkbox"/> Serious			Seat Occupied <input type="checkbox"/> Left <input type="checkbox"/> Front <input type="checkbox"/> Unknown <input type="checkbox"/> Right <input checked="" type="checkbox"/> Rear <input type="checkbox"/> Center <input type="checkbox"/> Single			Seat Belt Used <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Available <input type="checkbox"/> Yes <input type="checkbox"/> No		Shoulder Harness Used <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Available <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																											
Pilot Certificate(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Student <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Flight Engineer <input type="checkbox"/> Foreign <input type="checkbox"/> Private <input checked="" type="checkbox"/> Flight Instructor <input type="checkbox"/> Sport <input type="checkbox"/> Airline Transport <input type="checkbox"/> U.S. Military																																																																																																			
Principal Occupation <input type="checkbox"/> Pilot <input checked="" type="checkbox"/> Other <input type="checkbox"/> Unknown		Medical Certificate <input type="checkbox"/> None <input type="checkbox"/> Class 3 <input type="checkbox"/> Class 1 <input type="checkbox"/> Driver's License (Sport Pilot only) <input checked="" type="checkbox"/> Class 2 <input type="checkbox"/> Unknown			Medical Certificate Validity <input type="checkbox"/> Without limitations/waivers <input checked="" type="checkbox"/> With limitations/waivers <input type="checkbox"/> Unknown		Date of Last Medical <u>09/23/2009</u> <div style="text-align: center; font-size: small;">mm/dd/yyyy</div>																																																																																												
Medical Certificate Limitations <u>HOLDER SHALL POSSESS GLASSES THAT CORRECT FOR NEAR AND INTERMEDIATE VISION</u>																																																																																																			
Medical Certificate Waivers <u>NONE</u>																																																																																																			
Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: <u>09/13/2008</u> <div style="text-align: center; font-size: small;">mm/dd/yyyy</div>				Flight Review Aircraft Make: <u>CESSNA</u> Model: <u>172</u>																																																																																															
Airplane Rating(s) (Check all that apply) <input type="checkbox"/> None <input checked="" type="checkbox"/> Single-Engine Land <input type="checkbox"/> Single-Engine Sea <input checked="" type="checkbox"/> Multiengine Land <input type="checkbox"/> Multiengine Sea		Other Aircraft Rating(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Airship <input type="checkbox"/> Free Balloon <input type="checkbox"/> Glider <input type="checkbox"/> Gyroplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift		Instrument Rating(s) (Check all that apply) <input type="checkbox"/> None <input checked="" type="checkbox"/> Airplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift		Instructor Rating(s) (Check all that apply) <input type="checkbox"/> None <input checked="" type="checkbox"/> Airplane Single-Engine <input checked="" type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Gyroplane <input type="checkbox"/> Powered Lift <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Helicopter <input type="checkbox"/> Glider <input type="checkbox"/> Sport																																																																																													
Type Ratings <u>NONE</u>						Student Endorsements (Include dates)																																																																																													
<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th rowspan="2">Flight Time (enter appropriate number of hours in each box)</th> <th rowspan="2">All Aircraft</th> <th rowspan="2">This Make & Model</th> <th rowspan="2">Airplane Single Engine</th> <th rowspan="2">Airplane Multiengine</th> <th rowspan="2">Night</th> <th colspan="2">Instrument</th> <th rowspan="2">Rotorcraft</th> <th rowspan="2">Glider</th> <th rowspan="2">Lighter Than Air</th> </tr> <tr> <th>Actual</th> <th>Simulated</th> </tr> </thead> <tbody> <tr> <td>Total Time</td> <td>21,000</td> <td>300</td> <td>711,000</td> <td>73,000</td> <td>7200</td> <td>7100</td> <td>7100</td> <td></td> <td>20</td> <td></td> </tr> <tr> <td>Pilot in Command (PIC)</td> <td>19,000</td> <td>300</td> <td>711,000</td> <td>73,000</td> <td>7180</td> <td>7100</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Time as Instructor</td> <td>19,000</td> <td>300</td> <td>711,000</td> <td>72,500</td> <td>7200</td> <td>7100</td> <td>7100</td> <td></td> <td></td> <td></td> </tr> <tr> <td>This Make/Model</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 90 Days</td> <td>69.6</td> <td>19.5</td> <td>69.6</td> <td>—</td> <td>—</td> <td>3.5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 30 Days</td> <td>20.7</td> <td>1.2</td> <td>20.7</td> <td>—</td> <td>—</td> <td>2.4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 24 Hours</td> <td>4.2</td> <td>5.5</td> <td>5.5</td> <td>—</td> <td>—</td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Flight Time (enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Actual	Simulated	Total Time	21,000	300	711,000	73,000	7200	7100	7100		20		Pilot in Command (PIC)	19,000	300	711,000	73,000	7180	7100					Time as Instructor	19,000	300	711,000	72,500	7200	7100	7100				This Make/Model											Last 90 Days	69.6	19.5	69.6	—	—	3.5					Last 30 Days	20.7	1.2	20.7	—	—	2.4					Last 24 Hours	4.2	5.5	5.5	—	—	0.0				
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Principal Occupation <input type="checkbox"/> Pilot <input checked="" type="checkbox"/> Other <input type="checkbox"/> Unknown		Medical Certificate <input type="checkbox"/> None <input type="checkbox"/> Class 3 <input type="checkbox"/> Class 1 <input type="checkbox"/> Driver's License (Sport Pilot only) <input checked="" type="checkbox"/> Class 2 <input type="checkbox"/> Unknown			Medical Certificate Validity <input type="checkbox"/> Without limitations/waivers <input checked="" type="checkbox"/> With limitations/waivers <input type="checkbox"/> Unknown			Date of Last Medical <u>07/31/2009</u> <u>mm/dd/yyyy</u>																																																																																												
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Medical Certificate Waivers <u>NONE</u>																																																																																																				
Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks: <u>09/16/2008</u> <u>mm/dd/yyyy</u>				Flight Review Aircraft Make: <u>CESNA</u> Model: <u>172</u>																																																																																																
Airplane Rating(s) (Check all that apply) <input type="checkbox"/> None <input checked="" type="checkbox"/> Single-Engine Land <input type="checkbox"/> Single-Engine Sea <input type="checkbox"/> Multiengine Land <input type="checkbox"/> Multiengine Sea		Other Aircraft Rating(s) (Check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Airship <input type="checkbox"/> Free Balloon <input type="checkbox"/> Glider <input type="checkbox"/> Gyroplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift		Instrument Rating(s) (Check all that apply) <input type="checkbox"/> None <input checked="" type="checkbox"/> Airplane <input type="checkbox"/> Helicopter <input type="checkbox"/> Powered Lift		Instructor Rating(s) (Check all that apply) <input type="checkbox"/> None <input checked="" type="checkbox"/> Airplane Single-Engine <input type="checkbox"/> Airplane Multi-Engine <input type="checkbox"/> Gyroplane <input type="checkbox"/> Powered Lift <input type="checkbox"/> Instrument Airplane <input type="checkbox"/> Instrument Helicopter <input type="checkbox"/> Helicopter <input type="checkbox"/> Glider <input type="checkbox"/> Sport																																																																																														
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<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2" style="text-align: left; padding: 2px;">Flight Time (enter appropriate number of hours in each box)</th> <th rowspan="2" style="padding: 2px;">All Aircraft</th> <th rowspan="2" style="padding: 2px;">This Make & Model</th> <th rowspan="2" style="padding: 2px;">Airplane Single Engine</th> <th rowspan="2" style="padding: 2px;">Airplane Multiengine</th> <th rowspan="2" style="padding: 2px;">Night</th> <th colspan="2" style="padding: 2px;">Instrument</th> <th rowspan="2" style="padding: 2px;">Rotorcraft</th> <th rowspan="2" style="padding: 2px;">Glider</th> <th rowspan="2" style="padding: 2px;">Lighter Than Air</th> </tr> <tr> <th style="padding: 2px;">Actual</th> <th style="padding: 2px;">Simulated</th> </tr> </thead> <tbody> <tr> <td style="text-align: left; padding: 2px;">Total Time</td> <td style="padding: 2px;">652.8</td> <td style="padding: 2px;">5.5</td> <td style="padding: 2px;">5.5</td> <td style="padding: 2px;">5.5</td> <td style="padding: 2px;">78.6</td> <td style="padding: 2px;">3.0</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: left; padding: 2px;">Pilot in Command (PIC)</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: left; padding: 2px;">Time as Instructor</td> <td style="padding: 2px;">42.8</td> <td style="padding: 2px;"></td> <td style="padding: 2px;">42.5</td> <td style="padding: 2px;">42.5</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: left; padding: 2px;">This Make/Model</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: left; padding: 2px;">Last 90 Days</td> <td style="padding: 2px;"></td> <td style="padding: 2px;">5.5</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: left; padding: 2px;">Last 30 Days</td> <td style="padding: 2px;">18</td> <td style="padding: 2px;">5.5</td> <td style="padding: 2px;">18.7</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: left; padding: 2px;">Last 24 Hours</td> <td style="padding: 2px;"></td> <td style="padding: 2px;">5.5</td> <td style="padding: 2px;">5.5</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </tbody> </table>											Flight Time (enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Actual	Simulated	Total Time	652.8	5.5	5.5	5.5	78.6	3.0					Pilot in Command (PIC)											Time as Instructor	42.8		42.5	42.5							This Make/Model											Last 90 Days		5.5									Last 30 Days	18	5.5	18.7								Last 24 Hours		5.5	5.5							
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ADDITIONAL FLIGHT CREW MEMBERS (Exclusive of cabin attendants, complete the following information)

Pilot Name and Address

First Name: _____ City: _____
 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____

Degree of Injury

☐ None ☐ Fatal
☐ Minor ☐ Unknown
☐ Serious

Pilot Certificate(s) (Check all that apply)

☒ None ☐ Student ☐ Recreational ☐ Commercial ☐ Flight Engineer ☐ Foreign
☐ Private ☐ Flight Instructor ☐ Sport ☐ Airline Transport ☐ U.S. Military

Seat Occupied

☐ Left ☐ Front
☐ Right ☐ Rear
☐ Center ☐ Single
☐ Unknown

Type Rating/Endorsement for Accident/Incident Aircraft?

☐ Yes ☐ No

Total Flight Time at the Time of this Accident/Incident: _____ hrs

Pilot Name and Address

First Name: _____ City: _____
 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____

Degree of Injury

☐ None ☐ Fatal
☐ Minor ☐ Unknown
☐ Serious

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Seat Occupied

☐ Left ☐ Front
☐ Right ☐ Rear
☐ Center ☐ Single
☐ Unknown

Type Rating/Endorsement for Accident/Incident Aircraft?

☐ Yes ☐ No

Total Flight Time at the Time of this Accident/Incident: _____ hrs

PASSENGER(S) / OTHER PERSONNEL (Include flight attendants; continue on separate sheet if necessary)

Name and Address

First Name: _____ City: _____
 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____

Seat

Crew

Non-

Revenue

Revenue

Non-

Occupant

FAA

Fatal

Serious

Injury

Minor

Injury

No Injury

Unknown

First Name: _____ City: _____
 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____

First Name: _____ City: _____
 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____

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 Middle Initial: _____ State: _____ ZIP: _____
 Last Name: _____ Country: _____

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 time and point of departure, intended destination, and services obtained.

The flight was the third flight of the day. We had completed basic flight maneuvers, such as stall series, steep turns, and simulated emergencies. After that we returned to the airport to begin the second phase of which was to practice three point landings, airspeed control, directional control, slips and power settings related to these stages of flight. The training lesson lasted 2.0 hours and included at least twelve 3-point landings. During the second flight of the day, which was principally touch-n-go pattern work, smoothing out the 3-point landing, using slips (side and forward, power off simulated landings to a predetermined point on the runway, and introducing the wheel landing attitude during the takeoff rolls. This flight lasted 1.0 hour and had 9 touch-n-goes and a final full stop. We refueled and after lunch, we resumed the training with more pattern work. There were about 4 wheel landings, power on and simulated power off, two to a full stop, and one rolling. The final landing was then to revisit the 3-point attitude, to allow the pilot/owner to do one on his own to ensure the intricacies of the tow landing types were clearly understood. The downwind, base and final where all completed at appropriate airspeed and configuration. We touched down at approximately 45 to 50 mph, on centerline and under full directional control. During the roll out and while slowing, the airplane started a slight drift to the left, so I called for "right rudder." The rudder was applied and we corrected to the centerline. The airplane continued to cross the centerline at a 10 to 20 degree angle, and I called for left rudder. The airplane was doing an estimated 20 to 30 mph at this time. There was not an identifiable reaction to my request for left rudder, so I attempted to gain control of the left rudder, but could not get authority. As I peered to the right of my student's shoulder, I could tell we might exit the runway to the its right at a 20 degree angle so I applied full power as an aid to use the "left turning tendency" to get a left turn back toward the centerline. In the interim the airplane had already completed a left wingtip drag on the runway, due to the turn—preliminary ground loop—to the right. At the time the left wing tip dragged, the left turning tendency, the rudder authority, and the direction of travel changed dramatically to the left. The aircraft turned violently left, and a full ground-loop to the left developed. We crossed the centerline at about an 80 degree angle and exited the west side of the runway just after dragging the right wingtip. When departing the runway, the airplane was in a wings level attitude. We departed the paved runway onto the shoulder, about 16 feet in width, and then rolled down the beginning of a 40 foot embankment paralleling the west side of the runway (35L). The airplane rolled down the embankment about 20 feet, until the main gear dug into the soil causing the propeller to hit the ground and then begin raising the tail. The momentum continued downward, tipping the airplane onto its back upside down, ½ the way down the slope. Both occupants exited the main cabin door. There was no fire. There were no injuries.

RE

How could this accident/incident have been prevented?

Operator/Owner Safety Recommendation

ENSURE STUDENT UNDERSTANDS CONTROL INPUT. SPEND TIME ON THE GROUND IN THE AIRPLANE AND DURING FLIGHT OPERATION. IT WOULD APPEAR ONE OR MORE HOURS IS NOT ADEQUATE.

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

07/05/2010
mm/dd/yyyy

Signature and Name of Pilot/Operator

Signature: 

Type or Print Name: C. JAY SILVERNALE

Signature and Name of Person Filing Report if Other than Pilot/Operator

Signature: _____

Type or Print Name: _____

Title: _____

FOR NTSB USE ONLY

NTSB Accident/Incident No.

CEN10CA366

Reviewed by NTSB Regional Office

DENVER

Name of Investigator

BAKER

Date Report Received

7/20/2010

