



# Aviation Investigation Final Report

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<b>Location:</b>	Folkston, Georgia	<b>Accident Number:</b>	ERA09CA102
<b>Date &amp; Time:</b>	December 18, 2008, 22:47 Local	<b>Registration:</b>	N699G
<b>Aircraft:</b>	Piper PA-34-200	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Abnormal runway contact	<b>Injuries:</b>	1 Minor, 2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

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## Analysis

The flight instructor of the Piper PA-34-200 stated that following an uneventful cross-country flight, his student configured the airplane for landing. On the final approach to the 2,500-foot-long by 50-foot-wide runway, the instructor advised the student that he was "low" and to "add some power." The student complied, and about the time the airplane reached the runway threshold, the student reduced the power as he flared the airplane. The airplane touched down "harder than normal and bounced." The flight instructor took control of the airplane and applied the brakes after it touched down a second time. The airplane bounced again, and when it touched down the third time, the flight instructor applied the brakes fully in an attempt to stop. The instructor considered aborting the landing, but did not believe that enough runway remained. The airplane departed the end of the runway, and went down an embankment into a ditch, resulting in substantial damage.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The student's improper flare and the flight instructor's delayed remedial action.

## Findings

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<b>Personnel issues</b>	Incorrect action performance - Student/instructed pilot
<b>Personnel issues</b>	Delayed action - Instructor/check pilot
<b>Aircraft</b>	Landing flare - Incorrect use/operation

## Factual Information

### History of Flight

<b>Landing-flare/touchdown</b>	Abnormal runway contact (Defining event)
<b>Landing-landing roll</b>	Runway excursion

### Student pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	21, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Without waivers/limitations	<b>Last FAA Medical Exam:</b>	March 17, 2008
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	October 14, 2008
<b>Flight Time:</b>	202 hours (Total, all aircraft), 14 hours (Total, this make and model), 132 hours (Pilot In Command, all aircraft), 66 hours (Last 90 days, all aircraft), 18 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

### Flight instructor Information

<b>Certificate:</b>	Commercial; Flight instructor; Private	<b>Age:</b>	32, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane multi-engine; Airplane single-engine; Instrument airplane	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 With waivers/limitations	<b>Last FAA Medical Exam:</b>	May 8, 2008
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	December 12, 2007
<b>Flight Time:</b>	1380 hours (Total, all aircraft), 75 hours (Total, this make and model), 1266 hours (Pilot In Command, all aircraft), 292 hours (Last 90 days, all aircraft), 104 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Piper	<b>Registration:</b>	N699G
<b>Model/Series:</b>	PA-34-200	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	34-7250338
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	December 6, 2008 100 hour	<b>Certified Max Gross Wt.:</b>	4200 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	2 Reciprocating
<b>Airframe Total Time:</b>	5538 Hrs as of last inspection	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed	<b>Engine Model/Series:</b>	IO-360
<b>Registered Owner:</b>	SILVER EXPRESS CO	<b>Rated Power:</b>	180 Horsepower
<b>Operator:</b>	SILVER EXPRESS CO	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Night
<b>Observation Facility, Elevation:</b>	JAX,30 ft msl	<b>Distance from Accident Site:</b>	25 Nautical Miles
<b>Observation Time:</b>	22:56 Local	<b>Direction from Accident Site:</b>	135°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	/	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.27 inches Hg	<b>Temperature/Dew Point:</b>	15°C / 14°C
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	Keystone Height, FL (42J )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Folkston, GA (3J6 )	<b>Type of Clearance:</b>	Traffic advisory
<b>Departure Time:</b>	22:45 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	Davis Field 3J6	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	68 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	36	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	2500 ft / 50 ft	<b>VFR Approach/Landing:</b>	Straight-in

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor, 1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Minor, 2 None	<b>Latitude, Longitude:</b>	30.796112,-82.028053

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Diaz, Dennis
<b>Additional Participating Persons:</b>	James Massey; FAA/FSDO; Atlanta, GA
<b>Original Publish Date:</b>	January 29, 2009
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=73120">https://data.nts.gov/Docket?ProjectID=73120</a>

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