



## National Transportation Safety Board Aviation Accident Factual Report

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<b>Location:</b>	GROVELAND, CA	<b>Accident Number:</b>	LAX96LA152
<b>Date &amp; Time:</b>	04/02/1996, 1058 PST	<b>Registration:</b>	N59LP
<b>Aircraft:</b>	POWELL GLASAIR	<b>Aircraft Damage:</b>	Destroyed
<b>Defining Event:</b>		<b>Injuries:</b>	1 Fatal

**Flight Conducted Under:** Part 91: General Aviation - Personal

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On April 2, 1996, at 1058 hours Pacific standard time, a Powell Glasair homebuilt experimental airplane, N59LP, collided with trees and the ground following a loss of control during the base-to-final turn at the Pine Mountain Lake Airport, Groveland, California. The aircraft was owned and operated by the pilot. Visual meteorological conditions prevailed and no flight plan was filed for the local area personal flight. The aircraft was destroyed in the collision sequence. The private pilot, the sole occupant, sustained fatal injuries. The flight originated from the airport about 4 minutes prior to the accident.

Ground witnesses said the aircraft departed straight out following takeoff. About 4 minutes later, it made a downwind entry to the pattern "low and very close to the runway." The witnesses consistently estimated the aircraft's altitude as between 200 and 300 feet agl. One witness said the aircraft was so close that at first he thought the pilot was going to make a downwind landing on the runway. The witnesses said the aircraft made a tight turn from downwind to base. During the base-to-final turn, the right wing dropped and the aircraft entered a nose-down vertical descent to ground impact in a tree. The witnesses said they heard engine sounds throughout, however, they were described as "not full power."

The pilot holds an FAA Airframe and Powerplant mechanics certificate. Immediately prior to the accident flight, the pilot completed a condition/annual inspection on the aircraft and the airframe and engine logbooks were annotated to reflect the inspection. During a telephone interview, the aircraft co-owner stated that they had been having problems with the throttle cable and the pilot was going to order a new one.

An FAA airworthiness inspector responded to the accident site and interviewed witnesses and examined the wreckage. The engine portion of the wreckage examination was conducted with the assistance of a technical representative from Textron Lycoming Engines. Their respective reports are attached to this report.

The FAA inspector reported that he found no discrepancies with the aircraft's control system. Fuel was found in the aircraft tanks and all lines to the carburetor.

The engine crankshaft rotated easily by hand, with compression developed in each cylinder. Accessory gear and valve train continuity was established throughout the engine, with normal valve lift developed. Both magnetos were timed to 25 degrees before top dead center and produced strong sparks at each ignition lead. The examination report notes that the spark plugs exhibited normal operating signatures and the induction system was free of obstructions. No discrepancies were found with the fuel pump. Disassembly of the carburetor revealed that the clip which secures the accelerator pump plunger to its actuation shaft was missing and the pump was inoperative.

The throttle cable was examined in detail. The cable housing/actuating shaft at the carburetor end was found separated from the cable sheath, exposing the unsupported inside cable. A piece of welding rod was found bent around the housing end and taped to the sheath. The cable was removed from the aircraft and subjected to a series of operational tests. For the tests, the cable was supported by hand at each housing end and then the cockpit end was actuated, with no resistance on the carburetor end. In both push and pull directions, the carburetor end was observed to move intermittently. On some occasions, the carburetor end would move an amount corresponding to the cockpit end input; however, at other times, the carburetor end would only move slightly if at all.

The pilot sustained fatal injuries in the accident and an autopsy was conducted by the Tuolumne County Sheriff/Coroner with specimens retained for toxicological analysis. The results of the toxicological tests were negative for alcohol and all screened drug substances.

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	64, 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>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	Yes
<b>Medical Certification:</b>	Class 3 Valid Medical--w/ waivers/lim.	<b>Last FAA Medical Exam:</b>	08/26/1994
<b>Occupational Pilot:</b>	<b>Last Flight Review or Equivalent:</b>		
<b>Flight Time:</b>	1286 hours (Total, all aircraft), 15 hours (Total, this make and model), 6 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Make:	POWELL	Registration:	N59LP
Model/Series:	GLASAIR GLASAIR	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental	Serial Number:	156
Landing Gear Type:	Tricycle	Seats:	
Date/Type of Last Inspection:	04/02/1996, Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:	1 Hours	Engines:	1 Reciprocating
Airframe Total Time:	1656 Hours	Engine Manufacturer:	Lycoming
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	O-360-A1G
Registered Owner:	BOBBY HOCKETT & WALTER MAAS	Rated Power:	180 hp
Operator:	BOBBY A. HOCKETT	Operating Certificate(s) Held:	None

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	15 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Light and Variable /	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	17° C
Precipitation and Obscuration:			
Departure Point:	(Q68)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	1054 PST	Type of Airspace:	Class E

## Airport Information

Airport:	PINE MOUNTAIN LAKE (Q68)	Runway Surface Type:	Asphalt
Airport Elevation:	2930 ft	Runway Surface Condition:	Dry
Runway Used:	27	IFR Approach:	None
Runway Length/Width:	3625 ft / 50 ft	VFR Approach/Landing:	Precautionary Landing; Traffic Pattern

## Wreckage and Impact Information

Crew Injuries:	1 Fatal	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Fatal	Latitude, Longitude:	

## Administrative Information

Investigator In Charge (IIC):	JEFF RICH
Additional Participating Persons:	JIM MURRY; FRESNO, CA MARK W PLATT; WILLIAMSPORT, PA
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:pubinquiry@ntsb.gov">pubinquiry@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .