



# **Aviation Investigation Final Report**

Lincoln, California Accident Number: GAA19CA228

Date & Time: April 28, 2019, 11:30 Local Registration: N5046E

Aircraft: Bellanca 7GCAA Aircraft Damage: Substantial

**Defining Event:** Loss of control on ground **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Instructional

#### **Analysis**

The pilot, who was receiving tailwheel instruction, reported that, following a three-point landing, he raised the tail to initiate a go-around, but the wind shifted from a left quartering headwind to a left quartering tailwind. The airplane veered left, and the pilot added right rudder and aileron to correct. The airplane continued to veer left and then exited the runway onto tall grass and rough terrain. The instructor took the flight controls and aborted the go-around, and the left wing and elevator impacted the far side of a trench.

The airplane sustained substantial damage to the left wing and elevator.

The instructor 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 240° at 3 knots and that, about 35 minutes after the accident, the wind was calm. The pilot landed the airplane on runway 15.

#### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot receiving instruction's failure to maintain directional control during landing, which resulted in an attempted go-around and collision with a trench, and the flight instructor's delayed remedial action during the landing.

### **Findings**

Aircraft	Directional control - Not attained/maintained	
Personnel issues	Aircraft control - Student/instructed pilot	
Personnel issues	Delayed action - Instructor/check pilot	
Environmental issues	Rough terrain - Effect on operation	

Page 2 of 5 GAA19CA228

# **Factual Information**

# **History of Flight**

Landing-landing roll	Loss of control on ground (Defining event)	
Landing landing ron	2000 of control of ground (bellining event)	
Landing-landing roll	Attempted remediation/recovery	
Landing-landing roll	Runway excursion	
Landing-landing roll	Collision with terr/obj (non-CFIT)	

#### **Pilot Information**

Certificate:	Commercial; Flight instructor	Age:	26,Female
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	October 4, 2016
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	October 14, 2018
Flight Time:	(Estimated) 350 hours (Total, all aircraft), 12 hours (Total, this make and model), 300 hours (Pilot In Command, all aircraft), 25 hours (Last 90 days, all aircraft), 12 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

### Flight instructor Information

Certificate:	Airline transport; Commercial; Flight instructor; Military	Age:	56,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Rear
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):		Second Pilot Present:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	November 29, 2018
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 9000 hours (Total, all aircraft), 32 hours (Total, this make and model), 8500 hours (Pilot In Command, all aircraft), 70 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Page 3 of 5 GAA19CA228

### Aircraft and Owner/Operator Information

Aircraft Make:	Bellanca	Registration:	N5046E
Model/Series:	7GCAA	Aircraft Category:	Airplane
Year of Manufacture:	1979	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	380-79
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	July 12, 2018 100 hour	Certified Max Gross Wt.:	1650 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	5500 Hrs as of last inspection	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	0-320
Registered Owner:		Rated Power:	150 Horsepower
Operator:		Operating Certificate(s) Held:	None

# Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KLHM,122 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	18:35 Local	Direction from Accident Site:	119°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	29.84 inches Hg	Temperature/Dew Point:	19°C / 10°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Auburn, CA (KAUN)	Type of Flight Plan Filed:	None
Destination:	Lincoln, CA (LHM)	Type of Clearance:	None
Departure Time:	11:00 Local	Type of Airspace:	Class G

Page 4 of 5 GAA19CA228

#### **Airport Information**

Airport: Lincoln Rgnl/Karl Harder Field LHM **Runway Surface Type: Asphalt** 121 ft msl **Airport Elevation: Runway Surface Condition:** Dry Runway Used: 15 IFR Approach: None Go around;Stop and Runway Length/Width: 6001 ft / 100 ft VFR Approach/Landing: go:Traffic pattern

#### **Wreckage and Impact Information**

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	38.909168,-121.351387(est)

#### **Administrative Information**

Investigator In Charge (IIC):	Gutierrez, Eric
Additional Participating Persons:	Kevin Sullivan; FAA; Sacramento, CA
Original Publish Date:	March 20, 2020
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=99335

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 <a href="here">here</a>.

Page 5 of 5 GAA19CA228