



## National Transportation Safety Board Aviation Accident Factual Report

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<b>Location:</b>	HILLSBORO, OR	<b>Accident Number:</b>	SEA98LA059
<b>Date &amp; Time:</b>	04/01/1998, 1110 PST	<b>Registration:</b>	N1310A
<b>Aircraft:</b>	Beech 35-C33	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 None

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

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On April 1, 1998, approximately 1110 Pacific standard time, the left wing of a Beech 35-C33, N1310A, impacted the runway immediately after a premature liftoff at Portland-Hillsboro Airport, Hillsboro, Oregon. The certified flight instructor and his student, who holds a private pilot certificate, were not injured, but the aircraft, which was owned and operated by Tektronix Flying Club, sustained substantial damage. The 14 CFR Part 91 local instructional flight was being operated in visual meteorological conditions. No flight plan had been filed, and there was no report of an ELT transmission.

According to the FAA inspector who talked to the instructor, while practicing soft-field takeoffs, the student pulled the aircraft into the air prior to attaining enough speed to remain airborne. The aircraft almost immediately banked sharply to the left, and dropped back onto the runway hard enough to be "jolted" back into the air. The takeoff was then continued, followed by an immediate return to inspect for damage.

According to the instructor pilot, when the aircraft, which was configured with a single throw-over control yoke, began lifting off, he commanded the student to "drop the/your nose." The student did not drop the nose enough to avoid the premature lift-off, and the instructor did not attempt to apply forward pressure on the central control pedestal to keep the aircraft from lifting off too early.

## Pilot Information

<b>Certificate:</b>	Flight Instructor; Commercial	<b>Age:</b>	62, Male
<b>Airplane Rating(s):</b>	Single-engine Land	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane Single-engine; Instrument Airplane	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 Valid Medical--w/ waivers/lim.	<b>Last FAA Medical Exam:</b>	03/05/1998
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	1050 hours (Total, all aircraft), 320 hours (Total, this make and model), 886 hours (Pilot In Command, all aircraft), 21 hours (Last 90 days, all aircraft), 13 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Beech	<b>Registration:</b>	N1310A
<b>Model/Series:</b>	35-C33 35-C33	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Normal; Utility	<b>Serial Number:</b>	CD-1105
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	01/31/1998, Annual	<b>Certified Max Gross Wt.:</b>	3150 lbs
<b>Time Since Last Inspection:</b>	47 Hours	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	6902 Hours	<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	IO-470K
<b>Registered Owner:</b>	TEKTRONIX FLYING CLUB	<b>Rated Power:</b>	225 hp
<b>Operator:</b>	TEKTRONIX FLYING CLUB	<b>Operating Certificate(s) Held:</b>	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	10 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	Light and Variable /	Turbulence Type Forecast/Actual:	/
Wind Direction:	Variable	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	16 °C
Precipitation and Obscuration:			
Departure Point:	(HIO)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	VFR
Departure Time:	1110 PST	Type of Airspace:	Class D

## Airport Information

Airport:	PORTLAND-HILLSBORO (HIO)	Runway Surface Type:	Asphalt
Airport Elevation:	200 ft	Runway Surface Condition:	Dry
Runway Used:	30	IFR Approach:	
Runway Length/Width:	6600 ft / 100 ft	VFR Approach/Landing:	

## Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	

## Administrative Information

Investigator In Charge (IIC):	ORRIN K ANDERSON
Additional Participating Persons:	ALLEN SHELBY
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:pubinq@ntsb.gov">pubinq@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> .