



# **Aviation Investigation Final Report**

Location: VANCOUVER, Washington Accident Number: SEA89LA101

Date & Time: June 5, 1989, 18:25 Local Registration: N96202

Aircraft: TAYLORCRAFT BC-12D Aircraft Damage: Substantial

**Defining Event:** 1 None

Flight Conducted Under: Part 91: General aviation - Instructional

### **Analysis**

THE PILOT WAS PRACTICING MAIN WHEEL LANDINGS IN THE CONVENTIONAL GEAR EQUIPPED AIRCRAFT AND LOST CONTROL DURING GROUND LANDING ROLL. THE AIRCRAFT GROUND LOOPED AND NOSED OVER. A 70 DEGREE, 12 KNOT CROSSWIND EXISTED AT THE TIME OF THE ACCIDENT.

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO MAINTAIN DIRECTIONAL CONTROL DURING LANDING GROUND ROLL, RESULTING IN A GROUND LOOP AND NOSE OVER. THE CROSSWIND IS CONSIDERED TO BE A CONTRIBUTING FACTOR TO THE ACCIDENT.

#### **Findings**

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

#### **Findings**

1. (F) WEATHER CONDITION - CROSSWIND

2. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

3. (C) GROUND LOOP/SWERVE - NOT CORRECTED - PILOT IN COMMAND

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Occurrence #2: NOSE OVER Phase of Operation: LANDING - ROLL

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## **Factual Information**

#### **Pilot Information**

Certificate:	Private	Age:	45,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	December 12, 1988
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	304 hours (Total, all aircraft), 69 hours (Total, this make and model), 244 hours (Pilot In Command, all aircraft), 41 hours (Last 90 days, all aircraft), 14 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

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### **Aircraft and Owner/Operator Information**

Aircraft Make:	TAYLORCRAFT	Registration:	N96202
Model/Series:	BC-12D BC-12D	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	8502
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	April 10, 1989 100 hour	Certified Max Gross Wt.:	1200 lbs
Time Since Last Inspection:	15 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	9322 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	A-65-8
Registered Owner:	EVERGREEN FLYING SERVICE, INC	Rated Power:	65 Horsepower
Operator:	EVERGREEN FLYING SVC	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

### Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	PDX ,26 ft msl	Distance from Accident Site:	4 Nautical Miles
Observation Time:	17:53 Local	Direction from Accident Site:	210°
<b>Lowest Cloud Condition:</b>	Scattered / 6000 ft AGL	Visibility	40 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	12 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	28°C / 13°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	VANCOUVER , WA (59S)	Type of Flight Plan Filed:	None
Destination:	(59S)	Type of Clearance:	None
Departure Time:	17:20 Local	Type of Airspace:	Airport advisory area

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## **Airport Information**

Airport:	EVERGREEN 59S	Runway Surface Type:	Asphalt
Airport Elevation:	310 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	28	IFR Approach:	None
Runway Length/Width:	2650 ft / 42 ft	VFR Approach/Landing:	Touch and go

### Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	45.629756,-122.519195(est)

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#### **Administrative Information**

Investigator In Charge (IIC):	Mangum, Prentiss	
Additional Participating Persons:	KEITH CREMINS; HILLSBORO , OR	
Original Publish Date:	August 2, 1990	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=41025	

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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