



Aviation Investigation Final Report

Location: HILLSBORO, Oregon Accident Number: SEA97LA187

Date & Time: August 13, 1997, 14:27 Local Registration: N76233

Aircraft: Cessna 140 Aircraft Damage: Substantial

Defining Event: 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

During the landing roll on runway 30, the pilot lost control of the tailwheel-equipped Cessna 140 and departed the left side of the runway, ground looping. He reported that both flight following and the Hillsboro tower advised him of calm winds prior to landing and that during the landing a 'wind gust blew hard to the left.' Wind reports taken at the Hillsboro airport reported calm winds five minutes after the accident as well as throughout the morning and early afternoon hours with the exception of variable winds of 4 and 5 knots at 1350 and 1250 hours respectively. An FAA inspector assigned at the Hillsboro airport reported the weather conditions as a 'sultry day' with calm winds. The pilot reported no mechanical malfunction with the aircraft.

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.

Findings

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

Phase of Operation: LANDING - ROLL

Findings

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

2. GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

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Factual Information

On August 13, 1997, at 1427 hours Pacific daylight time, a Cessna 140, N76233, registered to Barbara L. Baker, and being flown by a private pilot, was substantially damaged during a loss of control during landing at the Portland- Hillsboro airport, Hillsboro, Oregon. The pilot and his wife were uninjured. Visual meteorological conditions existed at the time and a VFR flight plan had been filed for the flight. The flight, which was personal, was to have been operated under 14CFR91, and had departed Eugene, Oregon, at 1230 on the day of the accident.

The pilot reported that upon arrival in the Hillsboro area the "wind advisory from both flight following and (the) tower were winds calm, 30 in use." He entered a left base for runway 30, was cleared to land and executed a "normal 3 point landing @ \sim 45 mph" during which a "wind gust blew hard to the left." The pilot further reported that he "tried (sic) to stay on (the) runway" and then "entered a ground loop leaving (the) runway to (the) left."

Aviation surface weather observations taken at the Hillsboro airport reported winds as follows:

TIME WINDS 1547 calm 1455 calm 1432 calm 1350 variable at 4 knots 1250 variable at 5 knots 1155 calm 1047 calm 949 calm 855 calm 753 calm

An Inspector assigned to the Federal Aviation Administration (FAA) Flight Standards District Office at the Hillsboro airport, and who was on site at the time of the accident reported the weather conditions as a "sultry day" with calm winds.

The pilot reported that there was no mechanical malfunction with the aircraft.

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Pilot Information

Certificate:	Private	Age:	52,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:	June 9, 1997	
Occupational Pilot:	UNK	Last Flight Review or Equivalent:		
Flight Time:	213 hours (Total, all aircraft), 173 hours (Total, this make and model), 135 hours (Pilot In Command, all aircraft), 46 hours (Last 90 days, all aircraft), 17 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)			

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N76233
Model/Series:	140 140	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	10636
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	April 3, 1997 Annual	Certified Max Gross Wt.:	1450 lbs
Time Since Last Inspection:	35 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2814 Hrs	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	C-90-12F
Registered Owner:	BAKER, BARBARA, L.	Rated Power:	90 Horsepower
Operator:	BAKER, GARY, H.	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	HIO ,204 ft msl	Distance from Accident Site:	
Observation Time:	14:32 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Unknown	Visibility	25 miles
Lowest Ceiling:	Broken	Visibility (RVR):	
Wind Speed/Gusts:	/ None	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	32°C / 12°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ation	
Departure Point:	EUGENE (EUG)	Type of Flight Plan Filed:	VFR
Destination:	(HIO)	Type of Clearance:	VFLF
Departure Time:	12:30 Local	Type of Airspace:	Class D

Airport Information

Airport:	PORTLAND-HILLSBORO HIO	Runway Surface Type:	Asphalt
Airport Elevation:	204 ft msl	Runway Surface Condition:	Dry
Runway Used:	30	IFR Approach:	None
Runway Length/Width:	6600 ft / 150 ft	VFR Approach/Landing:	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	45.580169,-122.910964(est)

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Administrative Information

Investigator In Charge (IIC): Mccreary, Steven

Additional Participating Persons:

Original Publish Date: November 6, 1998

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=42673

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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