

# **Aviation Investigation Final Report**

Location: Emmett, Idaho Accident Number: SEA03LA171

Date & Time: August 17, 2003, 13:30 Local Registration: N185LC

Aircraft: Cessna 185 Aircraft Damage: Substantial

**Defining Event:** 1 Minor, 2 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

The pilot, who was operating his tailwheel-equipped aircraft in variable gusting winds, had completed one touch-and-go landing, and was on the landing roll of his second. Soon after touchdown, the aircraft encountered a right quartering tailwind that pushed it toward the left side of the runway. As part of his attempt to maintain directional control while he brought the aircraft to a stop in the tailwind conditions, the pilot applied differential braking. During this sequence of events, the pilot failed to reduce his level of brake application to a level that would compensate for the effects of the tailwind, and therefore the aircraft nosed over on the runway surface. According to the pilot, there did not seem to be anything wrong with the aircraft's brakes or flight controls. According to the pilot, without the effects of the tailwind, the aircraft probably would not have nosed over. In the recommendation section of the pilot report that he submitted to the NTSB, the pilot wrote, "Don't try to land with quartering tailwind."

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to adequately compensate for a quartering tailwind during the initial part of the landing roll, and his failure to adequately decrease his brake applications to compensate for the tailwind conditions. Factors include, variable, gusting winds, and a tailwind during the landing roll..

### **Findings**

Occurrence #1: NOSE OVER

Phase of Operation: LANDING - ROLL

#### Findings

- 1. (C) COMPENSATION FOR WIND CONDITIONS INADEQUATE PILOT IN COMMAND
- 2. (C) BRAKES(NORMAL) EXCESSIVE PILOT IN COMMAND
- 3. (F) WEATHER CONDITION CROSSWIND
- 4. (F) WEATHER CONDITION TAILWIND
- 5. (F) WEATHER CONDITION GUSTS

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#### **Factual Information**

On August 17, 2003, approximately 1330 mountain daylight time, a Cessna 185, N185LC, nosed over during the landing roll at Sawyer Field, Emmett, Idaho. The airline transport pilot and one of his passengers were not injured, but a second passenger received minor injuries. The aircraft, which is owned and operated by the pilot, sustained substantial damage. The 14 CFR Part 91 personal pleasure flight, which was in the VFR traffic pattern at Sawyer Field, was being operated in visual meteorological conditions. No flight plan had been filed. There was no report of an ELT activation.

According to the pilot, who was operating his tailwheel-equipped aircraft in variable gusting winds, he had completed one touch-and-go landing at Emmett, and was on the landing roll of his second. Soon after touchdown, the aircraft encountered a right quartering tailwind that pushed it toward the left side of the runway. As part of his attempt to maintain directional control while he brought the aircraft to a stop in the tailwind conditions, the pilot applied differential braking. During this sequence of events, the aircraft nosed over on the runway surface. According to the pilot, there did not seem to be anything wrong with the aircraft's brakes or flight controls, and without the effects of the tailwind, the aircraft probably would not have nosed over. In the recommendation section of the pilot report that he submitted to the NTSB, the pilot wrote, "Don't try to land with quartering tailwind."

#### **Pilot Information**

Certificate:	Airline transport	Age:	60,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical–w/ waivers/lim	Last FAA Medical Exam:	June 26, 2003
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	February 15, 2003
Flight Time:	16000 hours (Total, all aircraft), 15 hours (Total, this make and model), 4000 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft)		

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# **Aircraft and Owner/Operator Information**

Aircraft Make:	Cessna	Registration:	N185LC
Model/Series:	185	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18502014
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	July 15, 2003 Annual	Certified Max Gross Wt.:	3350 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	IO-520D
Registered Owner:	Donald R. Cobb	Rated Power:	300 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:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	10 knots / 15 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	290°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	27°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	Emmett, ID (S78)	Type of Flight Plan Filed:	None
Destination:	Emmett, ID (S78)	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

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# **Airport Information**

Airport:	Emmett Municipal S78	Runway Surface Type:	Asphalt
Airport Elevation:	2350 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	28	IFR Approach:	None
Runway Length/Width:	3250 ft / 50 ft	VFR Approach/Landing:	Touch and go;Traffic pattern

# Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 Minor, 1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor, 2 None	Latitude, Longitude:	43.849723,-116.542778

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#### **Administrative Information**

Investigator In Charge (IIC): Anderson, Orrin

Additional Participating Persons:

Original Publish Date: March 2, 2004

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=57713

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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