

# **Aviation Investigation Final Report**

Location: Palouse, Washington Accident Number: SEA04LA057

Date & Time: March 25, 2004, 08:30 Local Registration: N731YZ

Aircraft: Cessna A188B Aircraft Damage: Substantial

**Defining Event:** 1 None

Flight Conducted Under: Part 137: Agricultural

#### **Analysis**

The pilot departed runway 22 with a light quartering tailwind from a private airstrip in an area where the terrain was comprised of gently rolling hills. Unable to climb, the pilot started a gradual turn to the right to avoid rising terrain, and at the same time opened the dump gate to lighten his load. The airplane touched down on a hill at the end of the runway, bounced back into the air and landed going up the next hill at the end of the runway. The airplane then ground looped damaging its right wing. A 0753, a weather reporting facility located 7 nautical miles south of the accident site reported wind 080 degrees at 14 knots. At 0853, the same weather reporting facility reported wind 100 degrees at 17 knots. The pilot reported no mechanical failures or malfunctions with the aircraft 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 decision to takeoff downwind resulting in his inability to achieve a positive climb rate and an in-flight collision with terrain. Factors contributing to the accident included the rising terrain and the tailwind condition.

#### **Findings**

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: TAKEOFF - INITIAL CLIMB

**Findings** 

Page 2 of 7 SEA04LA057

- 1. (C) PLANNING/DECISION INADEQUATE PILOT IN COMMAND
  2. (F) TERRAIN CONDITION RISING
  3. (C) CLIMB NOT ATTAINED PILOT IN COMMAND
  4. (F) WEATHER CONDITION TAILWIND

Page 3 of 7 SEA04LA057

#### **Factual Information**

On March 25, 2004, approximately 0830 Pacific standard time, a Cessna A188B agricultural aircraft, N731YZ, was substantially damaged after impacting terrain following takeoff from a private airstrip near Palouse, Washington. The flight was operating in accordance with 14 CFR Part 137, and a flight plan was not filed. Visual meteorological conditions prevailed at the time of the accident, and the commercial pilot was not injured. The local aerial application flight was originating at the time of the accident.

In a telephone interview with the NTSB investigator-in-charge (IIC), and according to the Pilot/Operator Aircraft Accident Report (NTSB Form 6120,1/2), the pilot reported that he departed runway 22 from a private dirt airstrip which was in an area where the terrain was dominated with gently rolling hills. The pilot stated that he took off with a light quartering tail wind, but was unable to climb out at the end of the runway. The pilot further stated that he started a gradual turn to the right to avoid rising terrain, and at the same time opened the dump gate to lighten his load. The pilot related that still unable to climb, the airplane touched down on a hill at the end of the runway, bounced back into the air and landed going up the next hill at the end of the runway. The pilot reported that the right main [landing] gear was broken, which caused the airplane to ground loop, damaging the right wing.

At 0753, the weather reporting facility at the Pullman/Moscow Regional Airport, located approximately 7 nautical miles south of the accident site, reported wind 080 degrees at 14 knots. At 0853, the same weather facility reported wind 100 degrees at 17 knots.

The pilot reported no mechanical failures or malfunctions with the aircraft at the time of the accident.

Page 4 of 7 SEA04LA057

#### **Pilot Information**

Certificate:	Commercial	Age:	27,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Center
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 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	March 2, 2004
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	March 6, 2004
Flight Time:	1153 hours (Total, all aircraft), 60 hours (Last 90 days, all aircraft)		

# **Aircraft and Owner/Operator Information**

Aircraft Make:	Cessna	Registration:	N731YZ
Model/Series:	A188B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Restricted (Special)	Serial Number:	18803274T
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	Annual	Certified Max Gross Wt.:	4200 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:		Engine Model/Series:	10-520
Registered Owner:	Dale E. Schoepflin	Rated Power:	300 Horsepower
Operator:	DALES FLYING SERVICE INC	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	DF7G

Page 5 of 7 SEA04LA057

# Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	PUW,2555 ft msl	Distance from Accident Site:	7 Nautical Miles
Observation Time:	08:53 Local	Direction from Accident Site:	190°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	17 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	100°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.9 inches Hg	Temperature/Dew Point:	8°C / 173°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Palouse, WA	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	08:30 Local	Type of Airspace:	Class G

### **Airport Information**

Airport:		Runway Surface Type:	Dirt
Airport Elevation:		Runway Surface Condition:	Dry
Runway Used:	22	IFR Approach:	None
Runway Length/Width:	2300 ft / 50 ft	VFR Approach/Landing:	None

# 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:	46.886112,-117.093887

Page 6 of 7 SEA04LA057

#### **Administrative Information**

Investigator In Charge (IIC):

Little, Thomas

Additional Participating Persons:

Original Publish Date:

June 30, 2004

Last Revision Date:

Investigation Class:

Class

Note:

Investigation Docket:

https://data.ntsb.gov/Docket?ProjectID=58952

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.

Page 7 of 7 SEA04LA057