



National Transportation Safety Board Aviation Accident Final Report

Location:	New York, NY	Accident Number:	GAA17CA574
Date & Time:	07/21/2017, 1720 EDT	Registration:	N802TW
Aircraft:	CESSNA 208	Aircraft Damage:	Substantial
Defining Event:	Miscellaneous/other	Injuries:	9 None
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

Analysis

The pilot of the float-equipped airplane reported that, during a water takeoff and about 50 knots, the airplane encountered boat wake, which caused the airplane to become airborne prematurely. He added that the airplane landed on a swell and became airborne again. During the second touchdown, the airplane struck another swell and touched down hard. The pilot aborted the takeoff.

The airplane sustained substantial damage to the empennage.

The director of operations for the company reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The airplane's encounter with boat wake and multiple swells during a water takeoff.

Findings

Personnel issues	Aircraft control - Pilot (Cause)
Environmental issues	Choppy surface - Effect on operation (Cause)

Factual Information

History of Flight

Takeoff	Miscellaneous/other (Defining event) Collision with terr/obj (non-CFIT)
---------	--

Pilot Information

Certificate:	Commercial	Age:	51, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 1 With Waivers/Limitations	Last FAA Medical Exam:	09/01/2017
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	05/16/2017
Flight Time:			

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N802TW
Model/Series:	208 A	Aircraft Category:	Airplane
Year of Manufacture:	1999	Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	20800300
Landing Gear Type:	Emergency Float;	Seats:	10
Date/Type of Last Inspection:	08/15/2016, Annual	Certified Max Gross Wt.:	8360 lbs
Time Since Last Inspection:		Engines:	1 Turbo Prop
Airframe Total Time:	1909.2 Hours at time of accident	Engine Manufacturer:	P&W
ELT:	C126 installed, not activated	Engine Model/Series:	PT6A SER
Registered Owner:	TAILWIND AIR SERVICE LLC	Rated Power:	hp
Operator:	VOLO AVIATION INC	Operating Certificate(s) Held:	Commuter Air Carrier (135)
Operator Does Business As:		Operator Designator Code:	XORA

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	KJRB, 7 ft msl	Distance from Accident Site:	3 Nautical Miles
Observation Time:	2315 UTC	Direction from Accident Site:	220°
Lowest Cloud Condition:	Clear	Visibility	10 Miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	Light and Variable /	Turbulence Type Forecast/Actual:	/ None
Wind Direction:	Variable	Turbulence Severity Forecast/Actual:	/ N/A
Altimeter Setting:	29.86 inches Hg	Temperature/Dew Point:	31 °C / 20 °C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	NEW YORK, NY (6N7)	Type of Flight Plan Filed:	Company VFR
Destination:	EAST HAMPTON, NY (HTO)	Type of Clearance:	None
Departure Time:	1720 EDT	Type of Airspace:	Class G

Airport Information

Airport:	NEW YORK SKYPORTS INC (6N7)	Runway Surface Type:	Water
Airport Elevation:	0 ft	Runway Surface Condition:	Water--choppy; Water--calm
Runway Used:	N	IFR Approach:	None
Runway Length/Width:	10000 ft / 1000 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	8 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	9 None	Latitude, Longitude:	40.734167, -73.972778 (est)

Administrative Information

Investigator In Charge (IIC):	Kathryn R Benhoff	Report Date:	02/21/2018
Additional Participating Persons:	James R Ostrander; FAA; New York, NY		
Publish Date:	02/21/2018		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.ntsb.gov/pubdms/search/dockList.cfm?mKey=96276		

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).