



# Aviation Investigation Final Report

<b>Location:</b>	Raeford, North Carolina	<b>Accident Number:</b>	ERA12CA519
<b>Date &amp; Time:</b>	August 18, 2012, 15:47 Local	<b>Registration:</b>	N80GE
<b>Aircraft:</b>	Cessna 208B	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Abnormal runway contact	<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Skydiving		

## Analysis

According to the pilot, during the landing on a grassy area that was parallel to the paved runway, the airplane touched down and impacted a ditch near an intersecting taxiway. The airplane became airborne, touched down on the other side of the intersecting taxiway, bounced again, and then landed hard on the nose gear, which resulted in substantial damage to the fuselage and subsequent collapse of the nose landing gear. In a telephone interview, the pilot stated that the ditch was about 200 feet from his initial touchdown point and that he regularly lands on the grass, in the opposite direction, in order to minimize the wear on the main landing gear tires. No preaccident mechanical malfunctions or failures were noted 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 pilot's decision to land in a grassy area next to a paved runway, which resulted in impact with a ditch and subsequent nose landing gear collapse.

## Findings

<b>Personnel issues</b>	Decision making/judgment - Pilot
<b>Aircraft</b>	Nose/tail gear attach section - Capability exceeded

## Factual Information

### History of Flight

Landing	Collision with terr/obj (non-CFIT)
Landing	Abnormal runway contact (Defining event)
Landing	Landing gear collapse

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	41, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 With waivers/limitations	<b>Last FAA Medical Exam:</b>	May 23, 2012
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	December 20, 2011
<b>Flight Time:</b>	1342 hours (Total, all aircraft), 32 hours (Total, this make and model), 1191 hours (Pilot In Command, all aircraft), 64 hours (Last 90 days, all aircraft), 29 hours (Last 30 days, all aircraft)		

### Other flight crew Information

<b>Certificate:</b>	Commercial; Flight instructor	<b>Age:</b>	29, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane multi-engine; Airplane single-engine; Instrument airplane	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 None	<b>Last FAA Medical Exam:</b>	August 7, 2012
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	November 27, 2011
<b>Flight Time:</b>	770 hours (Total, all aircraft), 8 hours (Total, this make and model), 700 hours (Pilot In Command, all aircraft), 150 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N80GE
<b>Model/Series:</b>	208B	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	208B0585
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	12
<b>Date/Type of Last Inspection:</b>	June 24, 2012 Annual	<b>Certified Max Gross Wt.:</b>	9097 lbs
<b>Time Since Last Inspection:</b>	60 Hrs	<b>Engines:</b>	1 Turbo prop
<b>Airframe Total Time:</b>	2965 Hrs at time of accident	<b>Engine Manufacturer:</b>	Pratt & Whitney
<b>ELT:</b>	C126 installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	PT6A-42A
<b>Registered Owner:</b>	PARACLETE AVIATION LLC	<b>Rated Power:</b>	850 Horsepower
<b>Operator:</b>	DUGAN, BRIGGS AND ASSOCIATES	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>	DBA AVIATION	<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	POB,217 ft msl	<b>Distance from Accident Site:</b>	12 Nautical Miles
<b>Observation Time:</b>	15:55 Local	<b>Direction from Accident Site:</b>	30°
<b>Lowest Cloud Condition:</b>	4300 ft AGL	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	Broken / 4300 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	6 knots / None	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	340°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29.84 inches Hg	<b>Temperature/Dew Point:</b>	31°C / 21°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Southernpines, NC (SOP )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Raeford, NC (5W4 )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	15:25 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	P K Airpark 5W4	<b>Runway Surface Type:</b>	Asphalt;Grass/turf
<b>Airport Elevation:</b>	304 ft msl	<b>Runway Surface Condition:</b>	Dry;Rough;Vegetation
<b>Runway Used:</b>	04	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3402 ft / 60 ft	<b>VFR Approach/Landing:</b>	Full stop;Straight-in;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None	<b>Latitude, Longitude:</b>	35.019721,-79.188056(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Etcher, Shawn
<b>Additional Participating Persons:</b>	Barry Blumquist; FAA/FSDO; Greensboro, NC
<b>Original Publish Date:</b>	December 19, 2012
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=84746">https://data.nts.gov/Docket?ProjectID=84746</a>

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