



# Aviation Investigation Final Report

<b>Location:</b>	Drexel, Missouri	<b>Accident Number:</b>	GAA15CA036
<b>Date &amp; Time:</b>	April 5, 2015, 16:00 Local	<b>Registration:</b>	N3768A
<b>Aircraft:</b>	Piper PA 22-135	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control on ground	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot performed stop and go landings, at a private dirt airstrip. After his third landing, while taxiing to the east for takeoff, the pilot reported encountering several wind gusts that nosed the airplane over. The airstrip is located between two weather reporting stations. Winds for the area were out of the south at fourteen knots with wind gusts at twenty-three knots. The airplane sustained substantial damage to its wings, fuselage, and lift struts. The pilot reported no mechanical malfunctions or failures with the airplane prior to the accident that would have precluded normal operation of the airplane.

## 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 airplane control while taxiing in unfavorable wind conditions.

## Findings

<b>Personnel issues</b>	Aircraft control - Pilot
<b>Aircraft</b>	(general) - Not attained/maintained
<b>Environmental issues</b>	(general) - Effect on operation

## Factual Information

### History of Flight

<b>Taxi-into takeoff position</b>	Loss of control on ground (Defining event)
<b>Taxi-into takeoff position</b>	Nose over/nose down

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	54
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Lap only
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 With waivers/limitations	<b>Last FAA Medical Exam:</b>	September 24, 2013
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	July 21, 2014
<b>Flight Time:</b>	192.8 hours (Total, all aircraft), 113 hours (Total, this make and model), 179 hours (Pilot In Command, all aircraft), 26 hours (Last 90 days, all aircraft), 9.3 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Piper	<b>Registration:</b>	N3768A
<b>Model/Series:</b>	PA 22-135 150	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1954	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Utility	<b>Serial Number:</b>	22-2010
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	March 17, 2015 Annual	<b>Certified Max Gross Wt.:</b>	1949 lbs
<b>Time Since Last Inspection:</b>	77 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	953 Hrs at time of accident	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	C91 installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-290-D2
<b>Registered Owner:</b>	Shannon, Randal S. Shannon, Melissa J.	<b>Rated Power:</b>	135 Horsepower
<b>Operator:</b>	Shannon, Randal S. Shannon, Melissa J.	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	KGLY, 823 ft msl	<b>Distance from Accident Site:</b>	40 Nautical Miles
<b>Observation Time:</b>	21:15 Local	<b>Direction from Accident Site:</b>	340°
<b>Lowest Cloud Condition:</b>		<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	Overcast / 5000 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	15 knots / 20 knots	<b>Turbulence Type Forecast/Actual:</b>	/ None
<b>Wind Direction:</b>	190°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29.96 inches Hg	<b>Temperature/Dew Point:</b>	15°C / 7°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Drexel, MO	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Drexel, MO	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	14:00 Local	<b>Type of Airspace:</b>	Class G

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 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>	1 None	<b>Latitude, Longitude:</b>	38.480556,-94.60778(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Hicks, Michael
<b>Additional Participating Persons:</b>	CHRIS MORRIS; FEDERAL AVIATION ADMINISTRATION; ST. LOUIS, MO
<b>Original Publish Date:</b>	June 9, 2015
<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=91001">https://data.nts.gov/Docket?ProjectID=91001</a>

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