



# Aviation Investigation Final Report

<b>Location:</b>	OSHKOSH, Wisconsin	<b>Accident Number:</b>	CHI97LA099
<b>Date &amp; Time:</b>	April 4, 1997, 13:41 Local	<b>Registration:</b>	N9231D
<b>Aircraft:</b>	Piper PA-22	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot reported that he checked the current weather via the Wittman Field Automatic Terminal Information Service (ATIS) Information. He reported there was a 'crosswind from south west at 14 knots and gusting.' The pilot performed a 'crosswind landing and landed normally on runway 27.... During rollout a gust of wind came from the left and the left went up.' He corrected with aileron 'but was unable to compensate for the gusts.' The airplane departed the runway to the right side 'and flipped, coming to rest inverted.' The aircraft's wings sustained substantial damage. Examination of the airplane revealed no evidence of a mechanical malfunction.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the pilot's inadequate compensation for the wind conditions, and his failure to maintain proper runway alignment, which resulted in a subsequent nose over. The gusty crosswind condition was a related factor.

## Findings

Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER  
Phase of Operation: LANDING - ROLL

### Findings

1. (F) WEATHER CONDITION - CROSSWIND

2. (F) WEATHER CONDITION - GUSTS
3. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND
4. (C) PROPER ALIGNMENT - NOT MAINTAINED - PILOT IN COMMAND

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Occurrence #2: NOSE OVER  
Phase of Operation: LANDING

## Factual Information

On April 4, 1997, at 1341 central standard time, a Piper PA-22, N9231D, operated by Star Aviation, Inc., was substantially damaged when it nosed over during the landing roll in Oshkosh, Wisconsin. The private pilot reported minor injuries. The local, personal, 14 CFR Part 91 flight was conducted in visual meteorological conditions and no flight plan was filed. The flight originated from Oshkosh, Wisconsin, at 1300 central standard time.

The pilot reported that he checked the current weather via the Wittman Field Automatic Terminal Information Service (ATIS) Information. The pilot reported there was a "crosswind from south west at 14 knots and gusting." The pilot performed a "crosswind landing and landed normally on runway 27.... During rollout a gust of wind came from the left and the left went up." He corrected with aileron "but was unable to compensate for the gusts." The airplane departed the runway to the right side "and flipped, coming to rest inverted."

The Federal Aviation Administration (FAA) Inspector, who examined the accident site indicated the airplane had "flipped over" and the wings had sustained substantial damage. No evidence of preimpact mechanical malfunction was reported.

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	43, Male
<b>Airplane Rating(s):</b>	Single-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>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	July 25, 1995
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	83 hours (Total, all aircraft), 76 hours (Total, this make and model), 47 hours (Pilot In Command, all aircraft), 3 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Piper	<b>Registration:</b>	N9231D
<b>Model/Series:</b>	PA-22 PA-22	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	22-6291
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	March 3, 1997 Annual	<b>Certified Max Gross Wt.:</b>	2000 lbs
<b>Time Since Last Inspection:</b>	24 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	3288 Hrs	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-320-B2B
<b>Registered Owner:</b>	STAR AVIATION, INC.	<b>Rated Power:</b>	160 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<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>	OSH ,808 ft msl	<b>Distance from Accident Site:</b>	1 Nautical Miles
<b>Observation Time:</b>	13:47 Local	<b>Direction from Accident Site:</b>	180°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	13 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	220°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29 inches Hg	<b>Temperature/Dew Point:</b>	21°C / 8°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	(OSH )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	13:00 Local	<b>Type of Airspace:</b>	Class D

## Airport Information

<b>Airport:</b>	WITTMAN FIELD OSH	<b>Runway Surface Type:</b>	Concrete
<b>Airport Elevation:</b>	808 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	27	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	8000 ft / 150 ft	<b>VFR Approach/Landing:</b>	Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<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 Minor	<b>Latitude, Longitude:</b>	44.060527,-88.539749(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Robbins, Wesley
<b>Additional Participating Persons:</b>	TIM ANDERSON; MILWAUKEE , WI
<b>Original Publish Date:</b>	August 29, 1997
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.ntsb.gov/Docket?ProjectID=10539">https://data.ntsb.gov/Docket?ProjectID=10539</a>

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