



Aviation Investigation Final Report

Location:	CHICAGO, Illinois	Accident Number:	CHI89LA068
Date & Time:	April 4, 1989, 15:55 Local	Registration:	N2944P
Aircraft:	PIPER PA-22-150	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

THE PILOT WAS ATTEMPTING TO LAND ON RUNWAY 18 AFTER HE HAD BEEN INFORMED OF WINDS FROM 260 DEGREES AT 19 KTS, GUSTING TO 30 KTS. JUST AS HE WAS ABOUT TO TOUCH DOWN, A GUST OF WIND CAUGHT THE ACFT, DRIVING THE LEFT WING TO THE RWY. THE NOSE GEAR COLLAPSED AND THE ACFT SLID TO A STOP. THE OWNERS HANDBOOK, IN THE SECTION ON CROSSWINDS, PROVIDES NO GUIDANCE ON A CROSSWIND LIMIT. EVEN WITHOUT GUSTS, THE CROSSWIND COMPONENT COMPUTES TO NEARLY 19 KNOTS.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO COMPENSATE FOR THE CROSSWIND CONDITION WHICH EXISTED DURING THE LANDING. CONTRIBUTING TO THE ACCIDENT WAS THE GUSTY, CROSSWIND WHICH EXISTED AND THE FAILURE OF THE AIRCRAFT MANUFACTURER TO PROVIDE CROSSWIND PERFORMANCE DATA FOR THE AIRCRAFT.

Findings

Occurrence #1: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

1. (F) WEATHER CONDITION - CROSSWIND
2. (F) WEATHER CONDITION - GUSTS

3. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND
4. (F) INSUFFICIENT STANDARDS/REQUIREMENTS,MANUFACTURER - MANUFACTURER

Occurrence #2: NOSE GEAR COLLAPSED
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Factual Information

Pilot Information

Certificate:	Private	Age:	36, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
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 3 Unknown	Last FAA Medical Exam:	March 1, 1988
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	276 hours (Total, all aircraft), 227 hours (Total, this make and model), 276 hours (Pilot In Command, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N2944P
Model/Series:	PA-22-150 PA-22-150	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	22-3213
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	2000 lbs
Time Since Last Inspection:	0 Hrs	Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-320-TC
Registered Owner:	UNKNOWN	Rated Power:	150 Horsepower
Operator:	VAUGHAN WEEKS	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	CGX ,590 ft msl	Distance from Accident Site:	
Observation Time:	15:56 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 3500 ft AGL	Visibility	12 miles
Lowest Ceiling:	Broken / 6500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	19 knots / 30 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	260°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	8°C / -18°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	RACINE , WI (RAC)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	15:15 Local	Type of Airspace:	

Airport Information

Airport:	MEIGS C6X	Runway Surface Type:	Asphalt
Airport Elevation:	590 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	3948 ft / 150 ft	VFR Approach/Landing:	Full stop;Traffic pattern

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:	41.900943,-87.609207(est)

Administrative Information

Investigator In Charge (IIC):	Dinwiddie, Carl
Additional Participating Persons:	GERRY F VENTRELLA; WEST CHICAGO , IL
Original Publish Date:	October 24, 1990
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=14336

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