



# National Transportation Safety Board Aviation Accident Final Report

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<b>Location:</b>	West Chicago, IL	<b>Accident Number:</b>	CHI07CA128
<b>Date &amp; Time:</b>	05/01/2007, 1650 CDT	<b>Registration:</b>	N97224
<b>Aircraft:</b>	Cessna 172P	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 None

**Flight Conducted Under:** Part 91: General Aviation - Instructional

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## Analysis

The airplane impacted a ditch following an uncontrolled exit from the runway surface (runway 33, 3,401 feet long, 100 foot wide, dry concrete). The instructor reported that after touchdown, the power was increased but the airplane yawed into the left crosswind. The airplane then exited the runway into the grass adjacent to the runway. The instructor stated that the main gear dragged in the grass and the nose gear dug into the ground. The airplane then pivoted to the right and the left wingtip impacted and dragged through the grass. The reported wind conditions about the time of the accident were from 280 magnetic degrees at 13 knots, gusting to 21 knots. Inspection of the airplane did not reveal any flight control or mechanical malfunction that would have prevented normal operation.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The instructor's inadequate remedial action following the student pilot's loss of control during the crosswind landing and the instructor's failure to compensate for the wind conditions. Contributing factors were, the crosswind, the gusting wind conditions and the ditch.

## Findings

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Occurrence #1: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - FLARE/TOUCHDOWN

### Findings

1. (C) REMEDIAL ACTION - INADEQUATE - PILOT IN COMMAND(CFI)
2. (F) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND(CFI)
3. (F) WEATHER CONDITION - CROSSWIND
4. (F) WEATHER CONDITION - GUSTS

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Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING

### Findings

5. (F) TERRAIN CONDITION - DITCH

## Factual Information

### Flight Instructor Information

<b>Certificate:</b>	Flight Instructor; Commercial	<b>Age:</b>	27, Male
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Seat Occupied:</b>	Right
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt, Shoulder harness
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	Yes
<b>Instructor Rating(s):</b>	Airplane Single-engine; Instrument Airplane	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 With Waivers/Limitations	<b>Last Medical Exam:</b>	02/01/2007
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	10/01/2005
<b>Flight Time:</b>	1078 hours (Total, all aircraft), 760 hours (Total, this make and model), 984 hours (Pilot In Command, all aircraft), 91 hours (Last 90 days, all aircraft), 26 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

### Student Pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	17, Male
<b>Airplane Rating(s):</b>	None	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	Seatbelt, Shoulder harness
<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 3 Without Waivers/Limitations	<b>Last Medical Exam:</b>	06/01/2006
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	54 hours (Total, all aircraft), 54 hours (Total, this make and model), 5 hours (Pilot In Command, all aircraft), 54 hours (Last 90 days, all aircraft), 0 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Manufacturer:</b>	Cessna	<b>Registration:</b>	N97224
<b>Model/Series:</b>	172P	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Normal; Utility	<b>Serial Number:</b>	17276165
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	03/01/2007, 100 Hour	<b>Certified Max Gross Wt.:</b>	2407 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	16717 Hours	<b>Engine Manufacturer:</b>	Lycoming
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	O-320
<b>Registered Owner:</b>	American Flyers of New York	<b>Rated Power:</b>	160 hp
<b>Operator:</b>	American Flyers	<b>Air Carrier Operating Certificate:</b>	None

## Meteorological Information and Flight Plan

<b>Observation Facility, Elevation:</b>	DPA, 758 ft msl	<b>Observation Time:</b>	1652 CDT
<b>Distance from Accident Site:</b>	0 Nautical Miles	<b>Condition of Light:</b>	Day
<b>Direction from Accident Site:</b>	0°	<b>Conditions at Accident Site:</b>	Visual Conditions
<b>Lowest Cloud Condition:</b>	Clear	<b>Temperature/Dew Point:</b>	26° C / 16° C
<b>Lowest Ceiling:</b>	None	<b>Visibility</b>	10 Miles
<b>Wind Speed/Gusts, Direction:</b>	13 knots/ 21 knots, 280°	<b>Visibility (RVR):</b>	
<b>Altimeter Setting:</b>	29.8 inches Hg	<b>Visibility (RVV):</b>	
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	West Chicago, IL (DPA)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	1530 CDT	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	DuPage Airport (DPA)	<b>Runway Surface Type:</b>	Concrete
<b>Airport Elevation:</b>	758 ft	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	33	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	3401 ft / 100 ft	<b>VFR Approach/Landing:</b>	Full Stop; Traffic Pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	2 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	N/A	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None		

## Administrative Information

<b>Investigator In Charge (IIC):</b>	James Silliman	<b>Adopted Date:</b>	06/27/2007
<b>Additional Participating Persons:</b>	Sandra Boerman; Federal Aviation Administration, DuPage FSDO; West Chicago, IL		
<b>Publish Date:</b>			
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.		
<b>Investigation Docket:</b>	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at <a href="mailto:pubinq@ntsb.gov">pubinq@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .		

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