



# Aviation Investigation Final Report

<b>Location:</b>	LAWRENCE, Kansas	<b>Accident Number:</b>	MKC89LA009
<b>Date &amp; Time:</b>	October 21, 1988, 15:30 Local	<b>Registration:</b>	N4190N
<b>Aircraft:</b>	CESSNA 140	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

THE PLT ELECTED TO TERMINATE A LOCAL FLT DUE TO WINDY, TURBULENT CONDITIONS ALOFT. HE INITIATED A LANDING IN A SLIGHT CROSSWIND THAT HE RPRTD WAS GUSTING TO 20 KNOTS. DRG THE LANDING, HE LOST CONTROL & THE ACFT TOUCHED DOWN HARD IN A NOSE LOW ATTITUDE. SUBSEQUENTLY, IT SLID TO A STOP ON ITS NOSE, DAMAGING THE PROP, LOWER ENG COWLING & FUSELAGE.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

### Findings

Occurrence #1: HARD LANDING  
Phase of Operation: LANDING - FLARE/TOUCHDOWN

#### Findings

1. (F) WEATHER CONDITION - TURBULENCE
  2. (F) WEATHER CONDITION - CROSSWIND
  3. (F) WEATHER CONDITION - GUSTS
  4. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND
  5. (C) FLARE - NOT ATTAINED - PILOT IN COMMAND
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Occurrence #2: NOSE DOWN  
Phase of Operation: LANDING

## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	20, 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>	January 6, 1988
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	93 hours (Total, all aircraft), 44 hours (Total, this make and model), 62 hours (Pilot In Command, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	CESSNA	<b>Registration:</b>	N4190N
<b>Model/Series:</b>	140 140	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	13661
<b>Landing Gear Type:</b>	Tailwheel	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	June 4, 1988 Annual	<b>Certified Max Gross Wt.:</b>	1450 lbs
<b>Time Since Last Inspection:</b>	44 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	1813 Hrs	<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	C-85-12
<b>Registered Owner:</b>	STORY, TROY D.	<b>Rated Power:</b>	85 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>	TOP ,880 ft msl	<b>Distance from Accident Site:</b>	20 Nautical Miles
<b>Observation Time:</b>	14:50 Local	<b>Direction from Accident Site:</b>	280°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	15 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	16 knots / 23 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	0°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	21°C / 2°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	(LWC )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	(LWC )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	15:20 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	LAWRENCE LWC	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	832 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	32	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5000 ft / 100 ft	<b>VFR Approach/Landing:</b>	Full stop

## 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>	39.020397,-95.210983(est)

## Administrative Information

**Investigator In Charge (IIC):** Hruban, John

**Additional Participating Persons:** KATHY PERSON;

**Original Publish Date:** September 19, 1989

**Last Revision Date:**

**Investigation Class:** [Class](#)

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=34712>

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