



# Aviation Investigation Final Report

<b>Location:</b>	LOCKNEY, Texas	<b>Accident Number:</b>	FTW86LQG07
<b>Date &amp; Time:</b>	January 1, 1986, 10:15 Local	<b>Registration:</b>	N2796C
<b>Aircraft:</b>	RAVEN RALLY RX-7	<b>Aircraft Damage:</b>	None
<b>Defining Event:</b>		<b>Injuries:</b>	1 Serious
<b>Flight Conducted Under:</b>	Part 91: General aviation - Instructional		

## Analysis

THE STUDENT PILOT STATED THAT HE DID NOT CHECKED THE WIND FORECAST WHEN HE CALLED FOR A WEATHER BRIEFING ABOUT FOUR HOURS BEFORE THE ACCIDENT. THE SURFACE WINDS INCREASED TO 30 GUSTING 40 KTS WHILE HE WAS AIRBORNE. HE REPORTED THAT WHEN HE LANDED, HE WAS NOT PROPERLY BRACED FOR THE LANDING AND HE SUSTAINED A BROKEN LEG.

## Probable Cause and Findings

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

### Findings

Occurrence #1: IN FLIGHT ENCOUNTER WITH WEATHER  
Phase of Operation: CRUISE - NORMAL

#### Findings

1. (F) WEATHER CONDITION - HIGH WIND
2. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - PILOT IN COMMAND
3. (F) WIND INFORMATION - NOT OBTAINED - PILOT IN COMMAND

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Occurrence #2: HARD LANDING  
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

4. (C) PRECAUTIONARY LANDING - DELAYED - PILOT IN COMMAND
5. (F) LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND

## Factual Information

### Pilot Information

<b>Certificate:</b>	Student	<b>Age:</b>	36, Male
<b>Airplane Rating(s):</b>	None	<b>Seat Occupied:</b>	Center
<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>	None Unknown	<b>Last FAA Medical Exam:</b>	
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	12 hours (Total, all aircraft), 12 hours (Total, this make and model), 7 hours (Pilot In Command, all aircraft), 2 hours (Last 90 days, all aircraft)		

### Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	RAVEN	<b>Registration:</b>	N2796C
<b>Model/Series:</b>	RALLY RX-7 RALLY RX-7	<b>Aircraft Category:</b>	Balloon
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	RX-7-418
<b>Landing Gear Type:</b>		<b>Seats:</b>	
<b>Date/Type of Last Inspection:</b>	December 15, 1985 Annual	<b>Certified Max Gross Wt.:</b>	1400 lbs
<b>Time Since Last Inspection:</b>	9 Hrs	<b>Engines:</b>	0 Unknown
<b>Airframe Total Time:</b>	9 Hrs	<b>Engine Manufacturer:</b>	unknown
<b>ELT:</b>	Not installed	<b>Engine Model/Series:</b>	UNK
<b>Registered Owner:</b>	DON HURT	<b>Rated Power:</b>	
<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>		<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>		<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	8 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	30 knots / 40 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	180°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>		<b>Temperature/Dew Point:</b>	7°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	LAKE RANSOM , TX	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	08:15 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>		<b>Runway Surface Type:</b>	
<b>Airport Elevation:</b>		<b>Runway Surface Condition:</b>	
<b>Runway Used:</b>	0	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>		<b>VFR Approach/Landing:</b>	Precautionary landing

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Serious	<b>Aircraft Damage:</b>	None
<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 Serious	<b>Latitude, Longitude:</b>	34.119243,-101.440605(est)

## Administrative Information

**Investigator In Charge (IIC):** Robinson jr., Wm.

**Additional Participating Persons:**

**Original Publish Date:**

**Last Revision Date:**

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

**Note:**

**Investigation Docket:** <https://data.nts.gov/Docket?ProjectID=22113>

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