



## National Transportation Safety Board Aviation Accident Factual Report

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<b>Location:</b>	Denver, CO	<b>Accident Number:</b>	DEN04LA019
<b>Date &amp; Time:</b>	11/01/2003, 1215 MST	<b>Registration:</b>	N956UA
<b>Aircraft:</b>	Boeing 737-500	<b>Aircraft Damage:</b>	None
<b>Defining Event:</b>		<b>Injuries:</b>	1 Serious, 1 Minor, 95 None

**Flight Conducted Under:** Part 121: Air Carrier - Scheduled

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On November 1, 2003, at approximately 1215 mountain standard time, a Boeing 737-500, N956UA, operated by United Airlines as flight 1232, encountered turbulence while on approach to Denver International Airport (DEN), Denver, Colorado. The airline transport captain and airline transport first-officer, 1 flight attendant, and 92 passengers were not injured; however, 1 flight attendant was seriously injured and 1 flight attendant received minor injuries. Instrument meteorological conditions prevailed. The scheduled domestic passenger flight was being conducted under the provisions of Title 14 CFR Part 121. An instrument flight rules flight plan had been filed for the flight from Boise, Idaho, to Denver, Colorado, departed at 1045.

At flight level (FL) 310, air traffic control advised the captain that light to moderate turbulence existed between FL170 and FL 200. The flight crew directed the passengers to take their seats and fasten their seatbelts. During the descent, at FL 240, the captain asked the cabin crew to take their seats. At FL 210, the flight encountered "heavy to moderate turbulence with two rapid up-down vertical-G cycles." One flight attendant received minor injuries and another flight attendant received a fractured ankle. The flight continued to Denver without further incident.

## Pilot Information

<b>Certificate:</b>	Airline Transport; Flight Engineer	<b>Age:</b>	45, Male
<b>Airplane Rating(s):</b>	Multi-engine Land; Single-engine Land	<b>Seat Occupied:</b>	Left
<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>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	06/13/2003
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	07/01/2003
<b>Flight Time:</b>	4751 hours (Total, all aircraft), 1838 hours (Total, this make and model), 246 hours (Last 90 days, all aircraft), 90 hours (Last 30 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

## Co-Pilot Information

<b>Certificate:</b>	Airline Transport	<b>Age:</b>	39, 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>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 1 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	08/04/2003
<b>Occupational Pilot:</b>		<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	2655 hours (Total, all aircraft), 22 hours (Total, this make and model), 68 hours (Last 90 days, all aircraft), 22 hours (Last 30 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Boeing	<b>Registration:</b>	N956UA
<b>Model/Series:</b>	737-500	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	No
<b>Airworthiness Certificate:</b>	Transport	<b>Serial Number:</b>	26704
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	123
<b>Date/Type of Last Inspection:</b>	02/16/2003, Continuous Airworthiness	<b>Certified Max Gross Wt.:</b>	122500 lbs
<b>Time Since Last Inspection:</b>	1641 Hours	<b>Engines:</b>	2 Turbo Fan
<b>Airframe Total Time:</b>	29534 Hours as of last inspection	<b>Engine Manufacturer:</b>	CFM International
<b>ELT:</b>	Not installed	<b>Engine Model/Series:</b>	CFM56-3-B1
<b>Registered Owner:</b>	Wilmington Trust Company	<b>Rated Power:</b>	20000 lbs
<b>Operator:</b>	UNITED AIR LINES INC	<b>Operating Certificate(s) Held:</b>	Flag carrier (121)
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	UALA

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual Conditions	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	DEN, 5431 ft msl	<b>Distance from Accident Site:</b>	
<b>Observation Time:</b>	1153 MST	<b>Direction from Accident Site:</b>	
<b>Lowest Cloud Condition:</b>	Thin Overcast / 500 ft agl	<b>Visibility</b>	4 Miles
<b>Lowest Ceiling:</b>	Overcast / 500 ft agl	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	7 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	300°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29.95 inches Hg	<b>Temperature/Dew Point:</b>	-1°C / -1°C
<b>Precipitation and Obscuration:</b>			
<b>Departure Point:</b>	Boise, ID (BOI)	<b>Type of Flight Plan Filed:</b>	IFR
<b>Destination:</b>	Denver, CO (DEN)	<b>Type of Clearance:</b>	IFR
<b>Departure Time:</b>	1045 MST	<b>Type of Airspace:</b>	Class A

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Serious, 1 Minor, 3 None	<b>Aircraft Damage:</b>	None
<b>Passenger Injuries:</b>	92 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Serious, 1 Minor, 95 None	<b>Latitude, Longitude:</b>	40.491944, -105.236389

## Administrative Information

<b>Investigator In Charge (IIC):</b>	James F Struhsaker
<b>Additional Participating Persons:</b>	John Stevenson; FAA FSDO; Denver, CO
<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> .