

Corporate Airlines, Inc.
Kirksville, Missouri
October 19, 2004
DCA05MA004

National Transportation Safety Board
Washington, DC

Attachment 3

Injury Summaries

6 Pages

**Corporate Airlines, Inc., Flight 5966
DCA05MA004
Occupant Injury Descriptions**

| Assigned Seat #¹ | Sex | Age | Weight (in pounds) | Height² (in inches) | Description of Injury | Serious | Fatal |
|------------------------------------|------------|------------|---------------------------|---------------------------------------|--|----------------|--------------|
| Captain | M | 48 | Not Available (N/A) | 62 | Blunt force head injuries including: multiple basilar and calvarial skull fractures, subdural, epidural, and subarachnoid hemorrhages, multiple cerebral and cerebellar lacerations, laceration of the brainstem, diffuse cerebral edema. Blunt trauma of the thorax and abdomen including: multiple rib fractures (left 1-9), bilateral hemothoraces, diffuse hemopericardium and hemoperitoneum, transection of the aorta at the T8 vertebra, displaced fracture of the T8 with laceration of the spinal cord, multiple lacerations of the heart, lungs, liver and mesentery, and a fractured pelvis. Blunt trauma of the upper extremities including: a fractured right radius and ulna, and a fractured/dislocated left wrist. Blunt trauma of the lower extremities including: bilateral femur fractures and a fractured left tibia and fibula. Post mortem thermal burns (no soot in airway.) Cause of death: Multiple blunt force injuries. Toxicology results ³ : 101.6 ug/ml of Acetaminophen detected in urine. | | X |

¹ This chart was based on assigned seat locations. Survivor interviews indicated that not all occupants sat in their assigned seats.

² The flight crewmember's heights were obtained from their most current FAA medical certificates, and the passenger's next-of-kin provided height estimates to the Mecklenburg County Medical Examiner.

³ Forensic toxicology was performed on all the fatally injured occupants for carbon monoxide, cyanide, and ethanol. Additionally, the crewmember's blood was tested for a variety of illegal and over-the-counter drugs.

| Assigned Seat # ¹ | Sex | Age | Weight (in pounds) | Height ² (in inches) | Description of Injury | Serious | Fatal |
|------------------------------|-----|-----|--------------------|---------------------------------|---|---------|-------|
| 1 st Officer | M | 29 | N/A | 62 | Blunt force trauma to the head including: diffused small bilateral subdural hemorrhages, and diffused cerebral edema. Blunt trauma of the chest and abdomen including: multiple lacerations of the pericardium, liver and inferior vena cava, diffuse hemopericardium, bilateral hemothoraces, fracture and perforation of the sternum, displaced fracture of T3 vertebra with laceration of the spinal cord, multiple fractures of bilateral ribs (right 1-5 and left 1-7.) Blunt trauma of the upper and lower extremities including: bilateral fractures of the radius and ulna, and fracture of the right ankle. Postmortem thermal burns. Cause of death: Multiple blunt force injuries. Toxicology results: quinine in blood and liver. | | X |
| 1A | M | 54 | N/A | 75 1/2 | Blunt force head injury including: multiple calvarial skull fractures. Blunt trauma of the thorax and abdomen including: multiple rib fractures (left ribs 4-9), laceration of the pericardium and liver, diffuse hemopericardium, bilateral hemothoraces, and hemoperitoneum, and bilateral fractures of the clavicle. Blunt trauma of the lower extremities including: a fractured left femur. Post mortem thermal burns (no soot in airway.) Cause of death: Multiple blunt force injuries. Toxicology results: no carbon monoxide or cyanide detected in the blood. | | X |

| Assigned Seat # ¹ | Sex | Age | Weight (in pounds) | Height ² (in inches) | Description of Injury | Serious | Fatal |
|------------------------------|-----|-----|--------------------|---------------------------------|--|---------|-------|
| 1B | F | 37 | N/A | N/A | Blunt force head injury including: multiple skull fractures, diffuse subdural, epidural, and subarachnoid hemorrhages, and diffuse cerebral edema. Blunt trauma of the thorax and abdomen including: transection of T3 vertebra and spinal cord, bilateral hemothoraces, transection of the aorta, diffuse hemopericardium and hemoaspiration. Blunt trauma of the lower extremities including: a fractured left femur. Post mortem thermal burns (no soot in airway.) Cause of death: Multiple blunt force injuries. Toxicology results: Blood unsuitable for carbon monoxide analysis, and no cyanide detected in the blood. | | X |
| 1C | F | 41 | N/A | N/A | Blunt trauma of the thorax and abdomen including: multiple rib fractures (left 5-10, and right 1-12), diffuse right hemothorax, displaced fracture of the T3 vertebra and laceration of the spinal cord at T3 level, and multiple lacerations of the liver and spleen. Probable blunt force head injury with blood in the airway. Blunt trauma of the lower extremities including a fractured right femur. Postmortem thermal burns and no soot in the airway. Cause of death: Multiple blunt force injuries. Toxicology results: Blood unsuitable for Carbon Monoxide analysis. | | X |

| Assigned Seat # ¹ | Sex | Age | Weight (in pounds) | Height ² (in inches) | Description of Injury | Serious | Fatal |
|------------------------------|-----|-----|--------------------|---------------------------------|---|---------|-------|
| 2A | F | 49 | N/A | N/A | Blunt force head injury including: multiple skull fractures, subdural and epidural hemorrhages, and diffuse cerebral edema. Blunt trauma of the thorax and abdomen including: multiple rib fractures (right 1-9), bilateral hemothoraces, hemopericardium, laceration of the aorta with hematoma, displaced fracture of the 4 th thoracic vertebra and laceration of the spinal cord at the T4 level, and pelvic fracture. Post mortem thermal burns (no soot in airway.) Cause of death: Multiple blunt force injuries. Toxicology results: Blood unsuitable for carbon monoxide analysis, and no cyanide detected in the blood. | | X |
| 2B | M | 46 | N/A | N/A | Blunt force head injury including: multiple basilar skull fractures, subdural, epidural, and subarachnoid hemorrhages, and multiple cerebral lacerations of bilateral frontal and temporal lobes. Mild atheroma of the aorta. Blunt trauma of the thorax and abdomen including: right hemothorax, and diffuse hemoperitoneum. Blunt trauma of the upper and lower extremities including: a fractured right humerus, fractured right radius and ulna, and a fractured left femur. Post mortem thermal burns (no soot in airway.) Cause of death: Multiple blunt force injuries. Toxicology results: no carbon monoxide or cyanide detected in the blood. | | X |
| 2C | F | 49 | N/A | N/A | Blunt trauma of the abdomen including: splenic laceration, and hemoperitoneum. The head, cervical and upper thoracic vertebrae are absent from the body, and the torso is charred to the internal organs. Both arms and legs are consumed by fire. Severe postmortem thermal burns. Cause of death: Multiple blunt force injuries. Toxicology results: Blood unsuitable for carbon monoxide analysis, and no cyanide detected was detected in the blood. | | X |

| Assigned Seat # ¹ | Sex | Age | Weight (in pounds) | Height ² (in inches) | Description of Injury | Serious | Fatal |
|------------------------------|-----|-----|--------------------|---------------------------------|---|---------|-------|
| 3A | M | 46 | N/A | N/A | Blunt force injuries of the chest and abdomen including: multiple rib fractures (right 1-6, and left 1-9), multiple lacerations of the liver, pericardium, heart, spleen, and both kidneys, left hemothorax, hemopericardium, diffuse hemoperitoneum, and fractured pelvis. Postmortem thermal burns (no soot in airway.) Cause of death: Multiple blunt force injuries. Toxicology results: Blood unsuitable for carbon monoxide analysis, no cyanide detected in blood. | | X |
| 3B (Sat in Seat 4A) | F | 44 | 145 | 62 | Compound fracture of the right distal humerus. Eight percent total body surface area 2 nd degree burns of the left hand and forearm and right ear and scalp. Lacerations of the left forearm, and left anterior tibial region with undermining. Multiple contusions and abrasions. A closed head injury, and enamel trauma of the right upper incisor. Somatic dysfunction of the upper extremity, thoracic, lumbar, cervical, sacral and rib areas. | X | |
| 3C (Sat in Seat 4C) | M | 69 | 163 | 72 | Posterior fracture and dislocation of left hip. Compression fracture of L1 and L5. Bilateral rib fractures Lacerations of the scalp | X | |
| 5A | F | 60 | N/A | N/A | Blunt trauma of the chest and abdomen including: the right hemothorax. Thermal burns with possible soot in airway. Cause of death: Multiple blunt force injuries. Toxicology results: Blood unsuitable for carbon monoxide analysis, 1.56 (ug/ml) cyanide detected in blood. | | X |

| Assigned Seat # ¹ | Sex | Age | Weight (in pounds) | Height ² (in inches) | Description of Injury | Serious | Fatal |
|------------------------------|-----|-----|--------------------|---------------------------------|---|---------|-------|
| 5B | M | 44 | N/A | N/A | Blunt force trauma to the head including: a fractured mandible and multiple skull fractures, subdural, epidural, and subarachnoid hemorrhages, and multiple cerebral lacerations. Blunt trauma of the thorax and abdomen including bilateral hemothoraces, hemopericardium, lacerations of the right and left ventricles of the heart, fractured T3 vertebra with laceration of the spinal cord, laceration of the thoracic aorta. Thermal burns (possible soot in airway.) Cause of death: Multiple blunt force injuries. Toxicology results: No carbon monoxide detected in blood, and 0.75 (ug/ml) cyanide detected in blood.. | | |
| 6A | M | 39 | N/A | N/A | Blunt force trauma to the head including: multiple skull and facial fractures, multiple cerebral lacerations, and hemoaspiration. Blunt force injuries to the chest and abdomen including: diffuse right hemothorax, multiple right rib fractures (1-12), and right lung lacerations. Blunt trauma of the upper extremities including: a fractured left elbow. Postmortem thermal burns. Cause of death: Multiple blunt force injuries. Toxicology results: No carbon monoxide or cyanide detected in blood. | | X |
| 6C | M | 25 | 169 | 69 | Blunt trauma of the chest and abdomen including: multiple liver lacerations, and a hemoperitoneum. Postmortem thermal burns, and possible smoke inhalation including: foamy fluid and possible soot in airway ⁴ . Cause of death: Multiple blunt force injuries. Toxicology results: No carbon monoxide or cyanide detected in blood. | | X |

⁴ This occupant's autopsy report had a note next to the "possible smoke inhalation" of: "pending toxicology for CO levels." The toxicology report for this occupant showed no carbon monoxide present in the occupant's blood