



San Juan County Bus Incident

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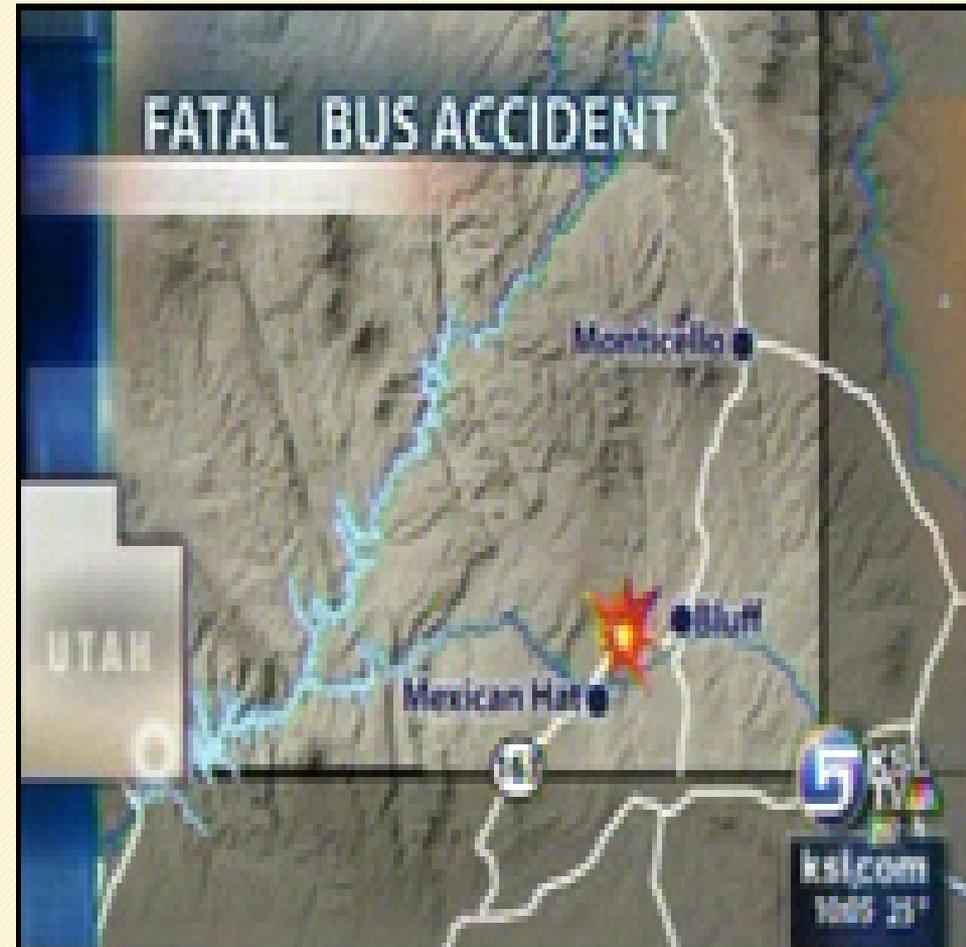


- 10 miles North – Mexican Hat
- 22 Miles South – Bluff
- 80 Miles south – Monticello
- Square miles of San Juan County - 7,725





- San Juan County Population - 14,413
- 1.8 Residents per square mile
- Square miles of Salt Lake -764
- Salt Lake County population – 898,387
- 1,176 Residents per square mile





- Bus crashed between 7:30 – 8:00 pm.
- First 911 call attempted at approximately 8:30 pm.
- 1st ambulance paged at 8:38 pm. 4 ambulances en route by 8:45 pm.
- 1st ambulance arrives on scene at 9:01 pm.





- Very messy, barbed wire, steel post, luggage, and Ski equipment was scattered everywhere.
- The roof of the bus was split open and on the ground. The tires were ripped off the bus.
- Some passengers were pinned under the bus. Others were scattered up to 100 yards from the crash site.



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- 43 EMT's
- 2 Highway Patrol
- 3 Sheriff deputies including the Sheriff
- 25 Rescue Personnel





- 10 County Employees
- 50 passengers from the 5th bus.
- Bystander with generator and Jack
- EMS Medical Director



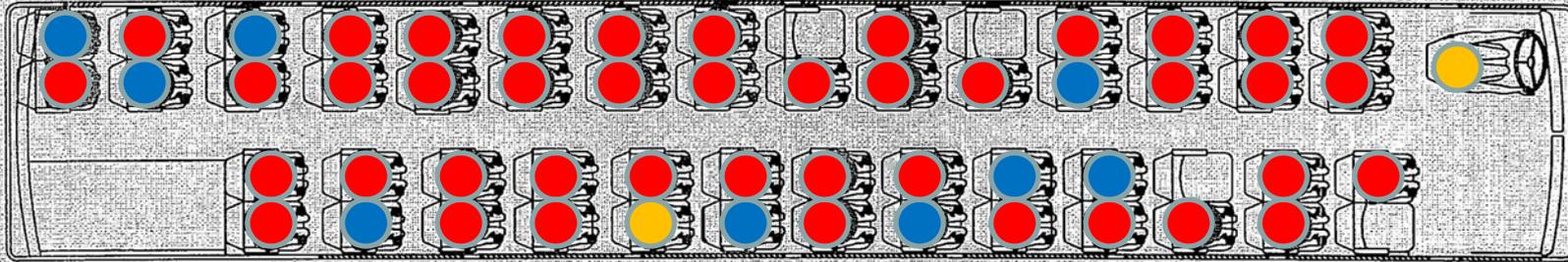


- 9 Fatal Injuries
- 33 Serious Injuries
- 10 Minor Injuries
- Sustained Serious Injuries: spinal compression, clavicle fractures, multiple rib fractures, extremity fractures
- Sustained Minor Injuries: lacerations that required stitches, abrasions and contusions



- Fifty of the Fifty two passengers were ejected from the bus
- The two remaining were the driver and a passenger who was entrapped between seats.
- From 1998 to 2008 NTSB has investigated 33 motor coach accidents involving 256 passenger ejections

Emergency Response - Ejections



-  - Not ejected
-  - Ejected
-  - Fatal/Ejected



- 8 Ambulances from San Juan County went to the scene
- 4 Ambulances from Navajo Nation went to the scene
- 3 Ambulances from Grand County were waiting at San Juan Hospital





- 2 Ambulances from South West Memorial were waiting at San Juan Hospital
- 1 Ambulance from St. Mary's
- 3 County Vans





- Victims were transported to 4 hospitals and 2 clinics
- 5 Family Practice Doctors from San Juan County
- 1 Trauma Doctor from South West Memorial



- 1 Surgeon from South West Memorial
- 15 Nurses
- 5 X-ray Technicians
- 4 Air transport teams, which flew multiple times



From the Scene

- 23 patients went to San Juan Hospital
- 4 patient went to Tuba City Hospital
- 3 patients went to San Juan Regional





From the Scene (cont.)

- 3 patients went to Kayenta Clinic
- 12 patients went to Blanding Family practice
- 7 patients were DOA on scene





Patients Transported

- 2 were sent to Flagstaff
- 10 went to St Mary's
- 5 went to Good Samaritan & Sage Memorial in Phoenix





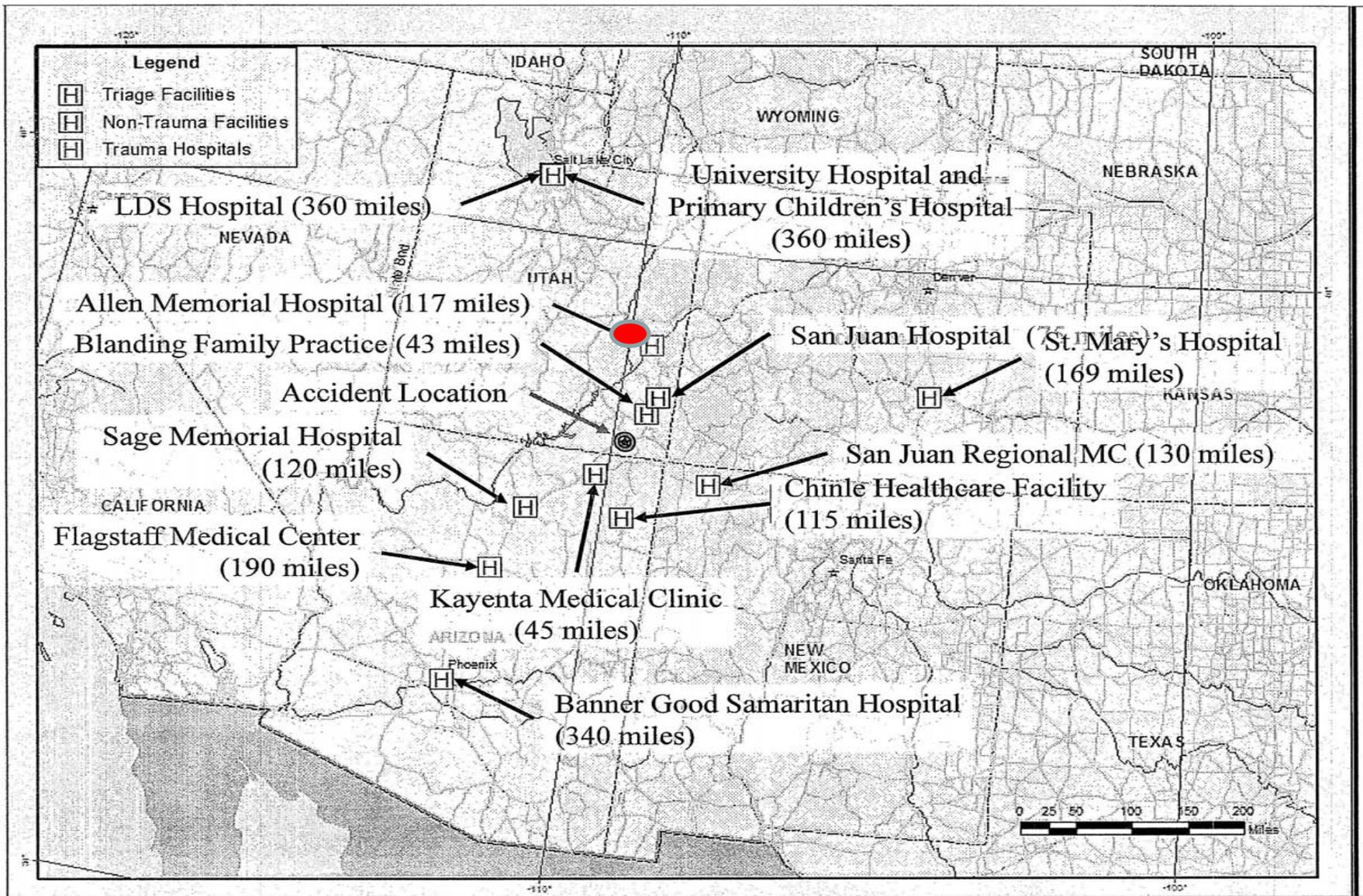
Patients Transported (cont.)

- 2 Died en route to higher medical Facilities
- 4 went to the University of Utah
- 1 Pediatric to Primary Children's
- 7 were released with minor injuries in San Juan County





- State of Utah EMS Strike Team Activated
 - Assisted San Juan County for 48 Hours.
 - Responded on 911 calls
 - Transported 7 crash victims to waiting air-medical flights
 - Allowed all responders to attend CISM
- CISM Team Activated
 - 51 responders attended debriefing



Treated at 13 hospitals and medical centers in four different states



EMS Challenges

Logistics

- Closest hospital was 80 miles away
- Limited radio communications on scene, no cell service on scene
- Limited resources including ambulances and equipment
- Triage/tracking of patients
- Limited ALS to stay on scene to assist patients while waiting for ambulances
- Vans used to transport patients had no medical equipment



EMS Challenges (cont.)

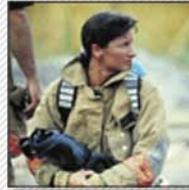
Weather

- Delayed response
- Raining on scene
- Road Closures in San Juan County due to snow and fog
- No air-medical services on scene
- Delayed air-medical transports from hospitals



Hospital Challenges

- Staffing
- Communication
 - EMS
 - Surrounding hospitals
- Equipment
- Triage
- Parking
- Media



Some facts related to Rural vs. Urban

- The relative risk of a rural resident dying in a motor vehicle accident is 15 times higher than in urban areas, after adjusting for accident, statistics, age and gender
- Injury related deaths are 40% higher in rural communities than in urban areas
- 87% of rural pediatric trauma deaths did not survive to reach the hospital



- In a report issued in December 2005 by DOT's National Highway Traffic Safety Administration (NHTSA), titled "Contrasting Attributes Between Rural & Urban Crashes 1994-2003":

Considerably more accidents occur in rural areas compared to urban areas, rural accidents are more severe, cause greater injuries, and pose a stiffer challenge to the highway safety community than do urban accidents.



- Research shows that there are significant differences between Urban vs. Rural response as well as fatality rates.
- A report written by the National Safety Council, nearly 60% of all trauma deaths occur in rural areas despite the fact that only 20% of the nation's population lives in these areas
- Nearly 85% of U.S. residents can reach a level one or level two trauma center within an hour compared to only 24% of residents living in rural areas.



What Went Well

- Dispatch did an excellent job
- Hospital was contacted early. They monitored radio communications.
- Everyone worked extremely well as a team.
- Utilization of 5th bus passengers as runners.



What Went Well (cont.)

- Using county vans to assist with transportation
- Experience with past mass casualty incidents
- Having Grand County and Southwest Memorial ambulances staged at the hospital covering transports from there to critical care facilities
- BEMS and Southeastern Strike Team Response



Lesson Learned

- Have a backup plan when aircraft can't respond.
- Tracking of patients to communicate more effectively with hospitals.
- Get information out quickly to responding agencies and hospitals.
- If possible, keep families together and informed



Lesson Learned (cont.)

- Communications is always going to be a challenge.
- Triage protocol
- More prepared when the call came in for supplies



Lessons Learned

- Lack of high-tech infrastructure on rural roads limits monitoring
 - Lack of communications inhibits notification and response
- Communications infrastructure could be considered as part of future projects



Lessons Learned

- Crash history is not always an indicator of risk
- Inadequate large bus travel data limits the ability to assess high risk rural roads and locations



Lessons Learned

- More resources from other UHP counties
- AIMS and MAIT from Salt Lake
- PIO office on scene
- Time was on our side



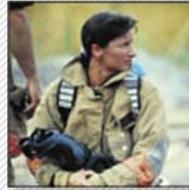


Local Relationships

- Utah Highway Patrol
- Utah Dept. of Transportation
- San Juan County SO
- Volunteer EMS, EMS, and volunteer fire
- Relationships = Success



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IN MEMORY OF THE LOST AND INJURED

**TELLURIDE SKI TRIP BUS 12
JANUARY 6, 2008**

**YOU ARE DEEPLY MISSED
MAY YOU FOREVER BE ENJOYING A POWDER DAY**

Jay Baumer
Carolyn Bowden
Jasmine Bowden
Joe Debolske

Pam Humphreys
Marc Rasmussen
Jeff Rivera
Erica Sheffey
Reese Washington



UTAH BUS CRASH

SURVIVORS 16 OS

In Memory of
JEFF BOYER
1958-2008

BY THE STATE OF UTAH
A 1997 VOLVO B2100 BUS CRASHED ON I-15 NEAR CANYONVILLE, UTAH