Highway Accident Reports, Brief Format
Issue Number 1 - 1979

(U.S.) National Transportation Safety Board, Washington, DC

11 Oct 79
### Abstract

This publication contains briefs of selected highway accident investigations conducted in conjunction with the data gathering process of the Commercialized Van Study, during the year 1978. The briefs present basic facts, conditions, circumstances, and probable cause(s) in each instance.

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### Key Words
- Commercialized Van; Gore area; Rollover; Run-off-Roadway; Guardrail; Excessive speed for traffic conditions; Steering wheel impact; Rainstorm; Non-standard Furniture; Interior Van Components; Intersection collision; Occupant restraint; door dash; Door hinges; Alcohol impaired driver; Failure of driver seat swivel plate; Failure of component anchorages; Occupant ejection; Tire Bead Failure

### Distribution Statement

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### Security Classification

- **of this report:** UNCLASSIFIED
- **of this page:** UNCLASSIFIED

### Other Details

- **Report Date:** October 11, 1979
- **Performing Organization Name and Address:**
  - National Transportation Safety Board
  - Bureau of Accident Investigation
  - 800 Independence Avenue, S.W.
  - Washington, D.C. 20594
- **Sponsoring Agency Name and Address:**
  - NATIONAL TRANSPORTATION SAFETY BOARD
  - Washington, D.C. 20594
- **File Number:**
  - ATL-78-F-H003
  - ATL-78-F-H004
  - ATL-78-F-H008
  - ATL-78-F-H012
  - ATL-78-F-H013
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  - IAD-78-F-H003
  - IAD-78-F-H004
  - IAD-78-F-H005
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  - NKC-78-F-H005
  - OAK-78-F-H003
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  - OAK-78-F-H008
  - OAK-78-F-H010
  - OAK-79-F-H001
  - OAK-79-F-H002

**NTSB Form 1765.2 (Rev. 3/74)**
**Accident Description:** The van was traveling N.E. on I-85 and turned right onto the ramp leading to N.E. Road. The vehicle ran off the left side of the pavement and the left wheel struck an 8-inch-high concrete curb. The left front tire was torn, the vehicle entered the banked gore area and proceeded to gyrate end-for-end, and rolled upright to final rest.

**Probable Cause 1:** Excessive speed, late perception of ramp turn off, and erroneous behavior of the driver to react with prudence when exiting at night from an interstate highway onto an unlighted exit ramp.

**Probable Cause 2:** The driver of the van under the influence of alcohol.
NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20570

Reporting Agency: Atlanta Field Office
Docket Number: HY-164-79
Highway Accident Number: ATL-78-F-8004

Location:
Road: Exit Ramp, I-285
City: Atlanta
State: Georgia
Intersecting Street: I-20

Time: (Local) 0020
Date: 7/25/78
Weather: Dry
Light Condition: Darkness

Vehicle:
1. Year: 1975
   Make: Dodge
   Model: B-100
   Type: Van
   Operator: (if commercial) Privately owned
   City & State of Business

Accident Description: (Type of accident and presence or absence of significant precrash, crash, and postcrash factors) Van struck left guardrail, swerved to the right and struck right guardrail, swerved left again, striking left rail a second time, then went right striking right rail at an obtuse angle. The van flipped toward the driver's side onto its roof.

Probable Cause 1. The failure of the van driver to maintain control of his vehicle.
Reasons: 2. Follow too closely.
3. Speed too great for traffic and road conditions.

Other Factors:
1.
2.
3.

Fatalities:
Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)
1. Driver of van

Probable Cause of Casualty:
1. Steering wheel impact and roof crush.
2.
3.

Property Losses:
Vehicles: $2,000
Other Property: None
## Accident Description:
(Type of accident and presence or absence of significant precrash, crash, and postcrash factors) There were no evidence or indications of precrash hazards or vehicle defects to contribute to cause of accident. Accident occurred in blinding rainstorm. Articulated truck jackknifed on wet pavement, crossed centerline, and struck van. Combined impact speed at 100 mph. Both truck and van went off of road and damaged fence. No fire. No ejections.

**Probable Cause:**
1. Failure of truck driver to maintain lateral lane position.
2. Speeds of both vehicles in excess of those warranted for adverse weather conditions.
3. Jackknife of articulated vehicle.

## Other Factors:
1. Non-standard furniture in van not adequately anchored.
2.
3.

## Fatalities:
<table>
<thead>
<tr>
<th>Number</th>
<th>(Driver, passenger, pedestrian)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Driver of van</td>
</tr>
<tr>
<td>2</td>
<td>Passenger in van</td>
</tr>
</tbody>
</table>

## Injuries:
<table>
<thead>
<tr>
<th>Number</th>
<th>(Driver, passenger, or pedestrian)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Driver of truck</td>
</tr>
<tr>
<td>2</td>
<td>Passengers of van</td>
</tr>
</tbody>
</table>

## Probable Cause of Casualty:
1. Impact with interior components of van
2. Crush - injuries due to furniture shift
3.

## Property Losses:
- **Vehicles:** $7,000
- **Other Property:** $200
NATIONAL TRANSPORTATION SAFETY BOARD  
Washington, D.C. 20594

| Reporting Agency: Atlanta Field Office |
| Docket Number: MY-85-78 |
| Highway Accident Number: ATL-78-F-6012 |

| Location: | Time: (Local) | Date: | Weather: | Light Condition: |
| McEver Road | 1710 | 6/17/78 | Clear | Daylight |
| City Flower |

| Intersecting Street: | Light Ferry Rd | State: Georgia |

<table>
<thead>
<tr>
<th>Vehicle: Year</th>
<th>Make</th>
<th>Model</th>
<th>Type</th>
<th>Operator: (if commercial)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1967</td>
<td>Ford</td>
<td>E150</td>
<td>Van</td>
<td>Privately owned</td>
</tr>
<tr>
<td>2. 1977</td>
<td>Chevrolet Impala</td>
<td>2-door sedan</td>
<td>Privately owned</td>
<td></td>
</tr>
</tbody>
</table>

Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors)  
Chevrolet was traveling east on McEver Road, van was attempting to cross McEver Road against red traffic signal. Chevrolet swerved to avoid collision but was struck on left side by Ford. After impact the Chevrolet went out of control and overturned on McEver Road several times.

Probable Cause:
1. Failure of driver of Chevrolet to obey red traffic signal control.
2. Failure to yield right-of-way to vehicle in intersection.
3. Other

Other Factors:
1. None
2. Other
3. Other

Fatalities: (Driver, passenger, pedestrian)  
Injuries: (Driver, passenger, or pedestrian)

<table>
<thead>
<tr>
<th>Number:</th>
<th>Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver</td>
<td>8</td>
</tr>
<tr>
<td>Passenger</td>
<td>7 passengers, Veh. 1</td>
</tr>
</tbody>
</table>

Property Losses:
Vehicles: 5,500
Other Property: None
NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20594

Docket Number: HY-86-79

Highway Accident Number: ATL-78-F-48

Location:
Road Valley Hill Road City Jonesboro
Intersecting Street Tenth Blvd State Georgia

Time: (local) 1832
Date: 7/8/78
Weather: Raining
Light Condition: Daylight

Reporting Agency: Atlanta Field Office

Vehicle:
1. Year: 1971 Make: Ford Model: Mustang Type: Sedan Operator: (if commercial) Privately owned
2. Year: 1974 Make: Ford Model: Econoline 100 Type: Van Operator: (if commercial) Privately owned
3. Year: 1972 Make: Chevrolet Model: 2 Ton Type: Refuse Truck Operator: (if commercial) Michael Benjamin Lindsey

City & State of Business:

Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors) Vehicle #1 stopped at the stop sign. Vehicle #2 stopped behind vehicle #1. Driver of vehicle #3 traveling in the direction of #1 and #2 applied the brakes and apparently skidded into the rear end of vehicle #2, pushing the front end of vehicle #2 into the rear end of vehicle #1.

Probable Cause of Casualty:
1. Impact with interior of van, modifications increased injury
2. Production, front seat driver and passengers impacted dash
3. Windshield failure to use available occupant restraints

Probable Cause of Casualty:

Injuries: Number: (Driver, passenger, or pedestrian)

1. Driver & 3 pass. of veh. #2
2. 
3. 

Fatalities: Number: (Driver, passenger, pedestrian)

1. 
2. 
3. 

Federal and State Property Losses:
Vehicles: $3,200.00
Other Property: None

Probable Cause of Casualty:

Probable Cause of Casualty:

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**NATIONAL TRANSPORTATION SAFETY BOARD**  
Washington, D.C. 20594

**Agency:** Atlanta Field Office  
**Docket Number:** NY-67-78

**Location:**  
Road: Whitehall St., SW  
City: Atlanta  
Time: 01:08  
Date: 5/22/78  
Weather: Cloudy, Ground Fog  
Light Condition: Dark/lighted

**Vehicle:**  
<table>
<thead>
<tr>
<th>Year</th>
<th>Make</th>
<th>Model</th>
<th>Type</th>
<th>Operator (if commercial)</th>
<th>City &amp; State of Business</th>
</tr>
</thead>
<tbody>
<tr>
<td>1976</td>
<td>Dodge</td>
<td>Tradesman</td>
<td>Van</td>
<td>Privately owned</td>
<td></td>
</tr>
</tbody>
</table>

**Accident Description:** (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors)

Van was traveling west on Whitehall St. (a four-lane, two-way urban roadway). It left the travel path to the right and struck a utility pole. The driver of the van stated that he had passed out and lost control of the vehicle. There was evidence that the driver was impaired by alcohol at the time of the crash.

**Probable Cause:**  
1. Failure of van driver to maintain control of his vehicle.

**Other Factors:**
1. (Blank)
2. (Blank)
3. (Blank)

**Fatalities:**  
Number: (Driver, passenger, pedestrian)  
Injuries: Number: (Driver, passenger, or pedestrian)  
- 2 Driver and passenger

**Probable Cause of Casualty:**
1. Contact with steering wheel and dash area, occupant
2. was unrestrained
3. (Blank)

**Property Losses:**  
Vehicles: Van $4,000  
Other Property: None
**NATIONAL TRANSPORTATION SAFETY BOARD**  
Washington, D.C. 20594

**Docket Number:** HY-88-78  
**Highway Accident Number:** ATL-78-F-9015

**Reporting Agency:** Atlanta Field Office

**Location:**  
**Road:** King, Jr. Drive  
**City:** Atlanta  
**State:** Georgia  
**Intersecting Street:** Linkwood

**Time:** (local) 0220  
**Date:** 5/21/78  
**Weather:** Clear  
**Light Condition:** Dark/Lighted

**Vehicle:**  
1. **Year:** 1970  
   **Make:** Ford  
   **Model:**  
   **Type:** 2-door sedan  
   **Operator:** (if commercial) Privately owned  
   **Business:** City & State of Business

2. **Year:** 1977  
   **Make:** Dodge  
   **Model:** B-200  
   **Type:** Van  
   **Operator:** (if commercial) Privately owned

3. **Year:** 1976  
   **Make:** Oldsmobile  
   **Model:** 98  
   **Type:** 4-door sedan  
   **Operator:** (if commercial) Privately owned

**Accident Description:**  
(Type of accident and presence or absence of significant key precrash, crash, and postcrash factors)  
Veh. #1 and #2 traveling east on M. L. King Dr., vehicle #2 attempted to make a left turn onto Linkwood Rd. from M. L. King, and was struck in the rear by veh. #1 and pushed into veh. #3 which was traveling west on M. L. King.

**Probable Cause 1:** Failure of driver of veh. #1 to allow or stop for veh. #2 that was stopped ahead.

**Probable Cause 2:** Thereafter striking veh. #2 in the rear forcing it across the centerline into the path of opposing traffic, veh. #3.

**Probable Cause 3:** Driver of veh. #1 under the influence of alcohol. Driver of veh. #2 not using his seatbelt also his seatbelt failed.

**Fatality:**  
**Number:** (Driver, passenger, pedestrian)  
**Injuries:**  
**Number:** (Driver, passenger, or pedestrian)

1. Driver, vehicle #2  
2. Passengers, vehicle #3

**Probable Cause of Casualty:**  
1. Driver's head struck corner of cabinet installed on the left side of the van to the rear and above the driver's seat.

2. 3.

**Property Losses:**  
**Vehicles:** $10,000  
**Other Property:**
**Accident Description:** (Type of accident and presence or absence of significant pre-crash, crash, and post-crash factors) Veh. #1, W8 in the center lane of Normandy Dr., Veh. #2 also W8 on Normandy in the southernmost left lane. Veh. #3 was SB on Rue Notre Dame approaching the stop sign at the intersection with Normandy. Veh. #3 ran the stop sign at the intersection with Normandy. Veh. #3 ran the stop sign at a high rate of speed and the LF of veh. #3 collided with the RF of veh. #1. A chain reaction occurred with the LF and side of veh. #1 striking veh. #2. All three vehicles travelled southwest. Veh. #3 striking a light pole, veh. #2 striking a tree, veh. #1 came to rest on the front lawn of 1316 Normandy Drive.

**Probable Cause:**

1. The failure of the driver of vehicle #3 to stop at the stop sign and yield the right-of-way at a through intersection.

**Other Factors:**

1. None

**Fatalities:**

<table>
<thead>
<tr>
<th>Number</th>
<th>(Driver, passenger, pedestrian)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Driver of vehicle #3</td>
</tr>
</tbody>
</table>

**Injuries:**

<table>
<thead>
<tr>
<th>Number</th>
<th>(Driver, passenger, or pedestrian)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Driver &amp; 3 passengers of vehicle #1</td>
</tr>
<tr>
<td>4</td>
<td>Driver &amp; passengers of vehicle #2</td>
</tr>
</tbody>
</table>

**Probable Cause of Casualty:**

1. Driver of veh. #3 was ejected, his head apparently struck the curb of the sidewalk. None of the vehicles' occupants were wearing available seatbelts.
NATIONAL TRANSPORTATION SAFETY BOARD  
Washington, D.C.  20594

Docket Number:  HY-90-78

Highway Accident Number:  ATL-78-F-H017

REPORTING
Agency:  Atlanta Field Office

LOCATION:
Road:  Five Forks Road  City: Lilburn
Intersecting Street: Mondale Dr  State: Georgia

Vehicle:
1.  1975 Pontiac Ventura  Type: 2-door sedan  Operator: (if commercial)  Privately owned
2.  1977 Dodge B-200  Van  Privately owned

ACCIDENT DESCRIPTION:
Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors) Pontiac northbound, van was southbound on a 2-lane highway through rolling terrain. Pontiac driver onto eastern shoulder, overcorrected, went into a yaw, crossed both lanes and onto the western shoulder of the southbound lane, then returned to the southbound lane where it was struck in the left side by the van. Impact occurred in the southbound lane near the western shoulder.

Probable Cause:
1. Driver of Pontiac lost control of her vehicle and crossed the centerline of the highway into the path of the van.
2. Pontiac driver was under the influence of alcohol.
3. Pontiac driver was under the influence of alcohol.

OTHER FACTORS:
1. None
2. None
3. None

FATALITIES:  Number:  (Driver, passenger, pedestrian)

INJURIES:  Number:  (Driver, passenger, or pedestrian)

PROBABLE CAUSE OF CASUALTY:
1. Driver of Pontiac struck steering wheel. Her head was forced rearward when chin struck steering wheel and forehead struck windshield. None of the occupants of either vehicle were using available restraints.

PROPERTY LOSSES:
Vehicles:  $5,500
Other Property:  None
NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20594

Docket Number: KY-161-79
Highway Accident Number: ATL-79-F-H001

Location:
Road I-75 City Morrow Time: (local) 10:50 Date: 8/1/78 Weather: Clear, d-y Light Condition: Daylight

Intersecting Street Milepost 229.3 State Georgia City & State of Business

Vehicle: Year Make Model Type Operator: (if commercial) Privately owned
1. 1977 Ford Econoline 150 Van

Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors) Van was northbound on I-75 in right hand lane, when the right rear wheel lugs broke and the vehicle went out of control, crossing the left hand lane turning over and coming to rest in the median on its wheels.

Probable Cause:
1. The right rear wheel broke free from its axle causing the driver to lose control of the van.

2. 

3. 

Other Factors:
1. None

2. 

3. 

Fatalities: Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)

Driver & 2 passengers

Probable Cause of Casualty:
1. Victims thrown about during rollover. Impacting interior

2. components and sides.

3. 

Property Losses:
Vehicles: Van - $3,000

Other Property: None
NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20594

Docket Number: HY-137-79

Agency: Dulles Field Office

Highway Accident Number: IAD-78-F-B001

Location:
Road: Bealle Hill Road
City: Accokeek
State: Maryland

Intersecting Street: State Maryland

Time: (Local) 00:20
Date: 8/4/78
Weather: Raining
Light Condition: Darkness (nighttime)

Vehicle: Year Make Model Type Operator: (if commercial)
1. 1974 Ford Van 100 Privately owned
2. 1962 Volkswagen 2-door Bug Privately owned

City & State of Business

Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors)

Northbound Volkswagen crossed the centerline and struck the southbound Van head-on. Van tried to avoid the Volkswagen by steering to the left since the roadside area to the right was not a safe area.

Probable Cause:
1. Inexperienced, fatigued driver #2
2. Driver of the Volkswagen was under the influence of alcohol.
3. Driver of the Volkswagen was fatigued and probably fell asleep.

Other Factors:
1. No roadside clear area as an escape area for the van.
2. Occupants of vehicle #2 not wearing seatbelts available
3. 

Fatalities: Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)
1. Driver vehicle #2
2. Passenger vehicle #2

Probable Cause of Casualty:
1. Impact forces aggravated by shifting furnishings.
2. Fractured skull (2)
3. Broken neck (1)

Property Losses:
Vehicles: $975.00
Other Property: None
NATIONAL TRANSPORTATION SAFETY BOARD  
Washington, D.C.  70-594  
Docket Number: HY-160-79  
Highway Accident Number: IAD-78-F-0002

Location:
Road: State Route 638  
State: Virginia  
City: Richmond  
Intersecting Street: Rt 1413  
(Alexandria Rd)  
(Lanecown Rd)

Vehicle:
1. Year: 1968  
Make: Ford  
Model: 200  
Type: Van  
Operator: Privately owned
2.  
3.  

Accident Descriptive: (Type of accident and presence or absence of significant precrash, crash, and postcrash factors) Driver of van lost control in curve on wet pavement and ran off of the road.

Headed into a tree.

Probable 1. Driving too fast for condition - exceeded critical speed of the curve. Fatigue
Cause:  
2.  
3.  

Other 1. Existing Speed Limit not posted. No advisory speed reduction or curve sign posted in advance of curve.
Factors:  
2.  
3.  

Fatalities:  
Driver, passenger, pedestrian  
Injuries:  
Number: (Driver, passenger, or pedestrian)

2  
Driver and passenger

Probable Cause of Casualty:
1. Driver was ejected through windshield, passenger remained in vehicle and was ejected when van hit a ditch on opposite side of road.

Property Losses:
Vehicles:  
Other Property:  

NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20594

Reporting Agency: Dulles Field Office

Docket Number: NY-166-79

Highway Accident Number: IAD-78-F-0003

Location:
Road: E. College Avenue
City: Salisbury
Intersecting Street: Grant Ave.
State: Maryland

Time: Date: Weather: Light Condition:
1115 6/23/78 Clear - dry Daylight

Vehicle: Year Make Model Type Operator: (if commercial) City & State of Business
1. 1977 Dodge B-200 Van Privately owned
2. 1971 Ford Maverick 2-door sedan Privately owned
3. 

Accident Description: (Type of accident and presence or absence of significant precrash, crash, and postcrash factors) The driver of the Ford failed to stop at a stop sign. She was in pursuit of her husband, and was going straight across intersection, failed to see and yield right-of-way to van and both vehicles collided.

Probable Cause: 1. Driver of Ford failed to yield right-of-way at a stop sign.
Cause: 2. Driver of Ford was emotionally distraught due to family argument.
3. 

Other Factors:
1. 
2. 
3. 

Fatalities: Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)

Probable Cause of Casualty:
1. Van occupants were injured because the rear seat failed and not being equipped with restraints, and the lack of seats for the rear occupants.

Property Losses:
Vehicles: $4,000
Other Property: None
Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors) Driver of van had been drinking, wandered out of traveled path and hit pickup catapulting it onto the sidewalk and lawn, had second collision with parked Ford.

Probable Cause:
1. Driver of van under influence of alcohol.
2. Van driver’s lack of control due to excessive speed, lack of perception and failure to stay in traffic lane.

Faults:
1.
2.
3.

Fatalities: Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)

1

Property Losses:
Vehicles: $55,000
Other Property: None
NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20594

Reporting Agency: Dulles Field Office

Docket Number: HT-157-79

Highway Accident Number: IAD-78-F-4005

Location:
Road: Barnaby St., SE
City: Washington, D.C.
Intersecting Street: Wheeler Rd.
State: D.C.

Time: (Local) 2245
Date: 9/11/78
Weather: Clear - dry
Light Condition: Darkness

Vehicle: Year Make Model Type Operator: (if commercial)
1. 1973 Chevrolet 20 Van Privately owned
2. 1971 Cadillac Coupe Deville 2-door sedan Privately owned
3.

City & State of Business

Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors) Chevrolet was going southbound when driver lost control and hit the Cadillac which was stopped on the cross street waiting for the green traffic signal, the two vehicles came to rest in the southeastern quadrant of the intersection.

Probable Cause:
1. Loss of control as a result of hitting object in roadway while traveling at excessive speed.

Cause:
2.
3.

Other Factors:
1. Traffic signals were out of synchronization, van driver inattentive to objects in roadway.

Factors:
2.
3.

Fatalities:
Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)

1. Driver and passenger in van
2. Driver and passenger in van
3. Driver and passenger in van

Probable Cause of Causality:
1. Unrestrained driver struck steering wheel and dashboard.
2. Unrestrained passenger struck door and "A" pillar.
3. Occupants shoved forward by shifting components within the van.

Property Losses:
Vehicles: $3,200
Other Property: None
NATIONAL TRANSPORTATION SAFETY BOARD  
Washington, D.C. 20594

| Reporting Agency: Kansas City Field Office | Docket Number: HY-108-78 |
| Highway Accident Number: NKC-78-F-0004 |

<table>
<thead>
<tr>
<th>Location:</th>
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<th>Date:</th>
<th>Weather:</th>
<th>Light Condition:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road 1-70</td>
<td>City Concordia</td>
<td>1755</td>
<td>8/12/78</td>
<td>Clear-dry</td>
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<tr>
<td>Intersection Street: Lafayette City State Missouri</td>
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</table>

<table>
<thead>
<tr>
<th>Vehicle:</th>
<th>Year</th>
<th>Make</th>
<th>Model</th>
<th>Type</th>
<th>Operator: (if commercial)</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>1975</td>
<td>Chevrolet</td>
<td></td>
<td>Van</td>
<td>Privately owned</td>
</tr>
<tr>
<td>2.</td>
<td>1971</td>
<td>Chevrolet Vega</td>
<td></td>
<td>Stationwagon</td>
<td>Privately owned</td>
</tr>
<tr>
<td>3.</td>
<td></td>
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</tbody>
</table>

Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors) Westbound van passed an unknown vehicle, cut in, and struck the stationwagon. The van then skidded out of control around and in front of the westbound stationwagon. The van then slid off the north side of the road overturning five times and came to rest on its top.

Probable Cause: 1. The van driver's improper judgment of closing speed when he attempted to maneuver his vehicle into:

Probable Cause of Casualty:
1. Injuries of van passenger were fatal, coroner's estimate was ruptured
2. Spleen or other internal organs, steering wheel and column were
3. Believed to have caused fatal injuries to abdominal region.

Probable Cause of Casualty:
1. Property Losses: Vehicular: 55,500
2. Other Property: None
3. |

<table>
<thead>
<tr>
<th>Fatalities:</th>
<th>Injuries:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number: (Driver, passenger, pedestrian)</td>
<td>Number: (Driver, passenger, or pedestrian)</td>
</tr>
<tr>
<td>1</td>
<td>Passenger in van</td>
</tr>
<tr>
<td>1</td>
<td>Passenger of stationwagon</td>
</tr>
</tbody>
</table>

Other Factors:
1. Fatigue and alcohol impairment of van driver
2. |
3. |

Other Factors:
1. |
2. |
3. |
NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20594

Reporting Agency: Kansas City Field Office

Docket Number: NY-136-79

Highway Accident Number: MEC-78-7-MD05

Location:
Road US Route 70/71 City DeOxooen
Intersecting Street Milepost 10 State Arkansas

Time: (Local) Date: Weather: Light Condition:
12:35 8/18/78 Clear/dry Daylight

Vehicle: Year Make Model Type Operator: (if commercial) City & State of Business
1. 1963 Chevrolet Van Privately owned
2. 
3. 

Accident Description: (Type of accident and presence or absence of significant precrash, crash, and postcrash factors) The right front tire of the Van experienced an "air-out" apparently due to a tire bead separation due to a defective wheel rim. The Van swerved to the right, descended a 6° embankment, became airborne for 20 feet and collided head-on with a concrete culvert, and then overturned landing on its roof. The driver and one passenger were trapped by shifting cargo. Two passengers were ejected through the windshield area. Probable factors responsible for this accident were:

Probable 1. Bead separation of tire or rim resulted in flat tire and loss of control

Cause:
2. Defective wheel rim
3. 

Other Factors:
1. Overloading and improper loading of van
2. Loss of control due to application of brakes by driver
3. 

Fatalities: Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)
1. 
2. 
3. 

Probable Causes of Casualty:
1. Ejection
2. Trauma injuries from impact
3. 

Property Losses:
Vehicles: $7,500
Other Property: 

NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20594

Docket Number: HY-168-70
Highway Accident Number: OAK-78-F-0003

Reporting Agency: Oakland Field Office

Location:
Road: Rancho Drive
City: Las Vegas
Intersecting Street: Michael Way
State: Nevada

Time: (local) 1944
Date: 4/15/78
Weather: Clear - dry
Light Condition: Darkness

Vehicle: Year  Make  Model  Type  Operator: (if commercial)  City & State of Business
1. 1975  Fiat  121  RS sedan  Privately owned
2. 1977  Dodge  B-100  Van  Privately owned
3. 

Accident Description: (Type of accident and presence or absence of significant pre-accident, crash, and postcrash factors) The Fiat stopped at stop sign and then made left turn in front of the van without allowing sufficient clearance. The van struck the rear of the Fiat and forced it off the road to the right.

Probable 1. Driver of the Fiat failed to yield right of way at a stop sign when making a left turn into thru traffic

Other Causes:
flow in front of the van.

Probable Factors:
1. The Fiat was traveling without lights during hours of darkness.
2. Driver of the van diverting part of her attention to her husband in the rear of the vehicle.
3. 

Fatalities: Number: (Driver, passenger, pedestrian)

Injuries: Number: (Driver, passenger, or pedestrian)

1. Driver of Fiat

1. Passenger Fiat

2. Driver and passenger of van

3. Unrestrained occupants struck components inside of their vehicle.

Probable Cause of Casualty:

Property Losses:
Vehicles: $3,500
Other Property: None
Accident Description: A 1977 Chevrolet sedan forced the van off the road into the median. Van driver overcorrected steering and slid sideways striking several trees. The wheels dug into the soft ground and the van flipped over.

Probable Cause:
1. Reckless operation on the part of the driver of the Chevrolet forcing the van off of the road.
2. Unforgiving roadside area with no protective barrier for fixed objects.
3. 

Other Factors:
1. 
2. 
3. 

Fatalities: Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)

1 Driver of van

Property Losses:
Vehicles: Van - $500.00
Other Property: None
REPORTING
Agency: Oakland Field Office.

LOCATION:
Road: I-10 westbound
City: Buckeye
Intersecting Street: MT 98
State: Arizona

TIME: (Local) Date: Weather: Light Condition:
2250 5/15/78 Clear - dry

VEHICLE:
1. 1966 Ford Econoline Van Privately owned
2. 1972 Mack Truck Tractor Privately owned
3. 

ACCIDENT DESCRIPTION: (Type of accident and presence or absence of significant precrash, crash, and postcrash factors) Van traveling at approximately 45 to 50 mph was struck in the rear by the truck traveling at 55 to 60 mph. The truck was attempting to pass the van.

PROBABLE CAUSE:
1. Speed too fast for conditions and failure to maintain control of the vehicle.
2. Lack of attention.
3. Improper passing procedure.

OTHER FACTORS:
1. None
2.
3.

FATALITIES:
Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)

PROBABLE CAUSE OF CASUALTY:
2 unrestrained van passengers were lying on the bed in the rear and were ejected through the left rear door after it was torn off in the collision. Both victims received abrasions and contusions on their bodies when they came into contact with the dirt shoulder. Other van occupants received crush injuries due to contact with interior of van. Unrestrained truck driver struck steering column.

PROPERTY LOSSES:
Vehicles: $1,000

Property or Property:
The van was northbound on SR 85 at 42 mph when the southbound Pontiac, traveling at approximately 65 mph, crossed about 15 to 16 ft left of centerline and impacted the van headon. It was later determined that the driver of the Pontiac had only 3-4 hours of restful sleep in the past 24 hours prior to the accident and had consumed several beers. Blood/alcohol read .07 percent.

### Probable Cause
1. The van unrestrained driver received massive facial fractures and
2. Lacerations. Unrestrained rear seat passenger projected forward
3. Into back of front seat and windshield. All van occupants were unrestrained.
NATIONAL TRANSPORTATION SAFETY BOARD
Washington, D.C. 20594

Location:
Road: Lynwood City: Phoenix
Intersecting Street: Central State: Arizona

Time: (Local) 0037 Date: 5/19/78 Weather: Clear & dry

Vehicle:
1. Year: 1978 Make: Dodge Model: Van Type: Van
2. Operator: (if commercial) Privately owned
3. City & State of Business

Accident Description: (Type of accident and presence or absence of significant precrash, crash, and postcrash factors) Southbound van attempted to make a right turn, lost control of vehicle and ran into a palm tree.

Probable Cause:
1. Driver's inattention to driving environment.
2. Improper left turn from wrong lane.
3. Speed too fast for conditions.

Other Factors:
1. None
2. None
3. None

Fatalities: Number: (Driver, passenger, pedestrian)
Injuries: Number: (Driver, passenger, or pedestrian)
1. Driver of van

Probable Cause of Casualty:
1. Unrestrained van driver struck "A" pillar and door frame:
2. None
3. None

Property Losses:
Vehicles: $1,000
Other Property: None
Location:
Road: State Route 65
City: Bakersfield
Intersecting Street: None

Vehicle:
1. Year: 1977
   Make: Chevrolet
   Model: 2-door
   Type: Camaro
   Operator: (if commercial)
2. Year: 1972
   Make: Chevrolet
   Model: Van
   Type: Sportsvan
   Operator: (if commercial)

Accident Description:
Vehicle #1 ran off roadway, overcorrected, swerved across the two-lane highway and off of the road on the left shoulder. The driver again overcorrected and reentered the road struck the southbound 1972 Chevrolet headon. The speed of the 1972 Chevrolet was estimated at 55 mph. Fuel tanks of both vehicles ruptured, fire ensued and both vehicles were destroyed by fire.

Probable Cause:
1. Excess speed by vehicle #1.
2. Vehicle #1 ran off roadway loss of control due to shoulder drop.
3. Fuel System failure resulting in fire.

Other Factors:
1. Jammed doors of vehicle #1 precluded escape from burning vehicle.

Fatalities:
1. Driver - vehicle #1
2. Driver - vehicle #2
3. Passengers - vehicle #1
4. Passengers - vehicle #2

Injuries:
1. Passengers - vehicle #2

Probable Cause of Casualty:
1. Impact forces
2. Fire injuries

Property Losses:
Vehicles: $5,500
Other Property: None
NATIONAL TRANSPORTATION SAFETY BOARD  
Washington, D.C. 20594

Docket Number: HY-110-78
Highway Accident Number: OAK-78-P-H100

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<td>9/23/78</td>
<td>Clear &amp; DRY</td>
<td>Daylight</td>
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<td>City</td>
<td>Monterey</td>
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<tr>
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<th>Year</th>
<th>Make</th>
<th>Model</th>
<th>Type</th>
<th>Operator: (if commercial)</th>
<th>City &amp; State of Business</th>
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<tbody>
<tr>
<td>1.</td>
<td>1970</td>
<td>Ford</td>
<td>E-100</td>
<td>Van</td>
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<tr>
<td>2.</td>
<td>1965</td>
<td>Ford</td>
<td>Fairlane</td>
<td>2-door sedan</td>
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<td>3.</td>
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</table>

Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors) The van crossed the centerline and struck the Ford traveling in the opposite direction.

Probable Cause:
1. Loss of control due to improper brake adjustment
2. Inadequate maintenance
3. 

Other Factors:
1. 
2. 
3. 

Fatalities: Number: (Driver, passenger, pedestrian) Injuries: Number: (Driver, passenger, or pedestrian)

1. Driver of van
2. 
3. 

Probable Cause of Casualty:
1. Unrestrained van driver impacted the steering wheel.
2. Windshield, stereo, and CB radios
3. 

Property Losses:
Vehicles: $5,000
Other Property: None
NATIONAL TRANSPORTATION SAFETY BOARD  
Washington, D.C. 20594  

Reporting Agency: Oakland Field Office  

Docket Number: HY-111-78  

Highway Accident Number: OAK-79-F-001  

Location:  
Road: State Route 17  
State: California  
City: Oakland  
Intersecting Street: 1/2 mile south State California of 66th Ave.  

Time: (Local) 0745  
Date: 2/3/78  
Weather: Clear - dry  
Light Condition: Daylight  

Vehicle:  
1. Year: 1976  
Make: Ford  
Model: Granada  
Type: 4-door sedan  
Operator: Privately owned  

2. Year: 1977  
Make: Dodge  
Model: Tradesman  
Type: Van  
Operator: Privately owned  

Accident Description: (Type of accident and presence or absence of significant key precrash, crash, and postcrash factors) The driver of the southbound Ford stopped in the middle of a 4-lane highway to inspect the left front tire. Van driver not paying attention struck the Ford and driver of the Ford.  

Probable Cause of Casualty:  
1. Most injuries were caused by impact with steering wheel  
2.  
3.  

Other Factors:  
1.  
2.  
3.  

Fatalities: Number: (Driver, passenger, pedestrian)  

Injuries: Number: (Driver, passenger, or pedestrian)  

1. Driver of Ford  
2. Driver of van  

Property Losses:  

Vehicles: $7,500  

Other Property: None  

Probable Cause of Casualty:  
1. Most injuries were caused by impact with steering wheel  
2.  
3.  

Property Losses:  

Vehicles: $7,500  

Other Property: None
**NATIONAL TRANSPORTATION SAFETY BOARD**  
Washington, D.C. 20594

**Docket Number:** HY-112-78  
**Highway Accident Number:** OAK-79-P-8002

**Reporting Agency:** Oakland Field Office

**Location:**  
Road County Route 13  
City: Craig  
Intersecting Street: Milepost 86  
State: Colorado  
Time: (Local)  
Date: 11/25  
Weather: Clear - Dry  
Light Condition: Daylight

**Vehicle:**  
<table>
<thead>
<tr>
<th>Year</th>
<th>Make</th>
<th>Model</th>
<th>Type</th>
<th>Operator: (if commercial)</th>
<th>City &amp; State of Business</th>
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<tbody>
<tr>
<td>1.</td>
<td>1977</td>
<td>Chevrolet</td>
<td>620</td>
<td>Van</td>
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<td>2.</td>
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<tr>
<td>3.</td>
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</table>

**Accident Description:** (Type of accident and presence or absence of significant precrash, crash, and postcrash factors)  
Southbound van drove off right side of a left curve and traveled down steep embankment and onto gravel service road where it collided first with a cattle guard, then collided with embankment, then rolled on its left side.

**Probable Cause:**  
1. The driver failed to negotiate a curve to the left and continued off the roadway due to  
2. Excessive speed and fatigue.  
3. (Additional factors)

**Other Factors:**  
1.  
2.  
3.  

**Fatalities:**  
Number: (Driver, passenger, pedestrian)  
<table>
<thead>
<tr>
<th>Number</th>
<th>Driver, passenger, or pedestrian</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Driver &amp; passenger of van</td>
</tr>
</tbody>
</table>

**Probable Cause of Casualty:**  
1. Unrestrained passenger was ejected when the vehicle first impacted  
2. Ground prior to rollover. Unrestrained driver struck steering  

**Property Lost:**  
Vehicles: $5,500  
Other Property: None