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Amusement Ride-Related Injuries and Deaths in the United States: 1987-1999

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Executive Summary

This report describes U.S. Consumer Product Safety Commission (CPSC) data on amusement ride-related fatalities and hospital emergency room-treated injuries. Fatality data are presented for calendar years 1987 through 1999. Injury data are presented for calendar years 1993 through 1999. Hazard scenario data derived from in-depth investigations and incident reports are presented for the period from 1 Jan 1990 through 30 April 2000.

- An estimated 10,400 hospital emergency room-treated *injuries* occurred in 1999, with about 7,000 involving fixed rides and 3,000 involving mobile rides. An estimated 23.5 injuries per million attendance occurred at fixed-site parks in 1999. Attendance data are not currently available for mobile rides.
- There was a marginally significant upward trend in fixed-site and total amusement ride-related *injuries* from 1993 through 1999 due to a sharp increase in fixed-site injuries beginning in 1997.
- The estimated annual average number of non-occupational amusement ride-related *fatalities* from 1987 through 1998 was 4.3 fatalities each year, and there was a marginally significant upward trend in fatalities from 1993 through 1999.
- A hazard sketch summarizing CPSC investigations of amusement ride incidents revealed *hazard patterns* associated with mechanical failure, operator behavior, consumer behavior, other factors, and combinations of these factors.

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Amusement Ride-Related Injuries and Deaths in the United States: 1987-1999

This report describes U.S. Consumer Product Safety Commission (CPSC) data on amusement ride-related fatalities and hospital emergency room-treated injuries. Fatality data are presented for calendar years 1987 through 1999. Injury data are presented for calendar years 1993 through 1999. A hazard sketch is presented to summarize in-depth investigations and incident reports of amusement ride incidents from 1 Jan 1990 through 30 April 2000. This report replaces previous CPSC reports summarizing amusement ride incidents [1,2,3,4].

Definition of Amusement Rides

Section 3(a)(1) of the Consumer Product Safety Act describes an *amusement ride* as:

...any mechanical device which carries or conveys passengers along, around, or over a fixed or restricted route within a defined area for the purpose of giving its passengers amusement, which is customarily controlled or directed by an individual who is employed for that purpose and who is not a consumer with respect to that device, and which is not permanently fixed to a site.

Although fixed-site amusement rides are excluded from CPSC jurisdiction by Section 3 (a) (1), CPSC data collection systems receive data on amusement rides that do not, at the outset, distinguish between fixed-site and mobile rides. Additional analysis must be undertaken in order to determine which incidents involve mobile rides and whether a fixed-site ride that was the subject of an incident is also a mobile ride. Data regarding fixed-site ride incidents are included in this report, along with data on mobile ride incidents, since those data are immediately available to CPSC through the process described above and are useful for comparison purposes. Only non-occupational incidents, which involve non-employee victims injured while on, in, or around an amusement ride, are included in this report.

Amusement Ride-Related Injuries

Method

Data on non-occupational amusement ride-related injuries were obtained from CPSC's National Electronic Injury Surveillance System (NEISS). The NEISS is a stratified probability sample of hospitals with emergency rooms and 6 or more beds in the United States. There are currently 100 participating hospitals in the NEISS. NEISS hospital coders identify injury incidents associated with amusement rides by using the NEISS product code for amusement rides (1293). In this analysis, all NEISS records for calendar years 1993 through 1999 containing product code 1293 were reviewed. Based on information in narrative comments in the records, a single experienced coder (the author) classified each case into 1 of 5 mutually exclusive and exhaustive categories: *not a ride* (out of scope), *fixed-site ride*, *mobile-site ride*, *unknown-site ride*, or *unknown if ride*. Cases involving coin-operated rides or free-play attractions often found at restaurants or shopping centers, alpine and water slide amusements, wave machines, "moon walks," inflatable slides, mechanical bulls, playground equipment, etc., are examples of cases coded *not a ride*. Cases involving roller coasters or "whirling" rides are examples of cases coded *fixed-site*, *mobile-site*, or *unknown-site ride*: if the comment stated the name of an amusement park or that the incident occurred at a park or involved an amusement park ride, then the case was coded *fixed-site*; if the comment stated that the incident occurred at a carnival, fair,

or festival, then the case was coded *mobile-site*; if the comment gave no site information, then the case was coded *unknown-site*. Cases involving a "merry go round," with no indication of whether it was playground equipment or an amusement ride as defined by the Consumer Product Safety Act, are examples of cases coded *unknown if ride*.

Estimate Adjustments

Adjustments of amusement ride-related injury estimates for prior years appear in this report. First, all NEISS cases from 1993 to 1999 were reviewed by an experienced coder to verify consistency in the coding of cases. A few codings were adjusted to improve consistency. Second, the NEISS sample of hospitals was updated in 1997 to reflect changes in the distribution and size of emergency room hospitals in the U.S. since the previous sample update in 1990. Periodic updates are required for the sample of NEISS hospitals to accurately represent the universe of hospitals with emergency rooms in the U.S. Data were collected concurrently from both the old and updated NEISS samples for 9 months in 1997 to provide a statistical basis for adjustments of prior estimates. Third, *unknown-site* estimates were allocated to *fixed-site* and *mobile-site* estimates in the proportions observed in *known-site* estimates each year. The adjusted estimates in this report differ from estimates given in previous CPSC publications.

Results

Figure 1 gives NEISS estimates with *unknown-site* estimates allocated to the *fixed-site* and *mobile-site* estimates in the proportions observed in *known-site* estimates each year. For example, the *fixed-site* estimate for 1999 is .699 of the sum of the *fixed-site* and *mobile-site* estimates, so .699 of the *unknown-site* estimate for 1999 is added to the *fixed-site* estimate, and .301 of the *unknown-site* estimate for 1999 is added to the *mobile-site* estimate. The proportions of *unknown-site* estimates allocated to *fixed-site* versus *mobile-site* estimates each year depend only on estimates for each year as in the above example for 1999. An estimated total of 10,400 \pm 5,600 hospital emergency room-treated injuries occurred in 1999. (The margin of error is 5,600 for a 95% confidence level). The increasing trends in fixed-site and total injuries from 1993 through 1999 were marginally significant, both $p = .07$, 1-tail exact Kendall Tau tests.

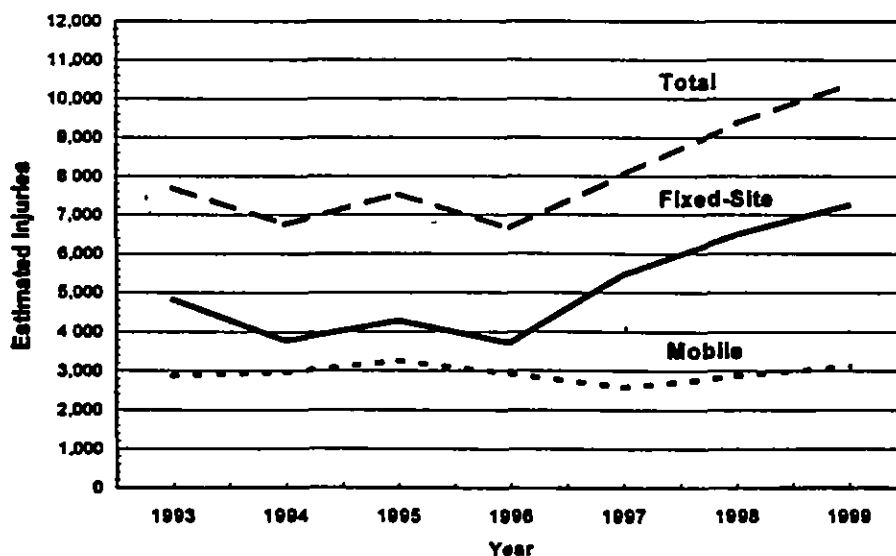


Figure 1. Estimated amusement ride-related injuries treated at US hospital emergency rooms from 1993 through 1999. Source: U.S. Consumer Product Safety Commission.

Table 1 gives the unallocated NEISS estimates for calendar years 1993 through 1999. Note that the *fixed-site* and *mobile-site* injury estimates in Table 1 underestimate actual totals due to the exclusion of *unknown-site* cases, all of which involve *fixed-site* or *mobile* amusement rides. The adjusted estimates in Figure 1 correct for the underestimation of *fixed-site* and *mobile* injuries in Table 1 by allocating the *unknown-site* estimates to the known *fixed-site* and *mobile* estimates in the same proportions observed in the known-site estimates (see Table 2).

Table 1
Unallocated Estimated Non-Occupational Amusement Ride Injuries by Year and Site of Ride

Year	Fixed	Mobile	Unknown-Site	Total	ME (Total)
1999	5,980	2,580	1,820	10,380	5,560
1998	4,760	2,110	2,500	9,370	3,950
1997	4,590	2,170	1,280	8,050	4,600
1996	3,220	2,530	900	6,650	4,010
1995	3,530	2,680	1,330	7,540	4,340
1994	3,080	2,420	1,260	6,760	3,930
1993	3,750	2,240	1,710	7,700	3,980

Note: Details may not sum to totals due to rounding. Margin of error (ME) for 95% confidence level. Source: U.S. Consumer Product Safety Commission.

Table 2 gives the allocated NEISS estimates for calendar years 1993 through 1999 presented graphically in Figure 1. As explained above, the adjusted estimates in Table 2 correct for the underestimation of *fixed-site* and *mobile* injuries in Table 1 by allocating the *unknown-site* estimates to the known *fixed-site* and *mobile* estimates in the same proportions observed in the known-site estimates.

Table 2
Allocated Estimated Non-Occupational Amusement Ride Injuries by Year and Site of Ride

Year	Fixed	Mobile	Total	ME (Total)
1999	7,260	3,120	10,380	5,560
1998	6,500	2,870	9,370	3,950
1997	5,460	2,580	8,050	4,600
1996	3,720	2,930	6,650	4,010
1995	4,290	3,260	7,540	4,340
1994	3,790	2,970	6,760	3,930
1993	4,830	2,880	7,700	3,980

Note: Details may not sum to totals due to rounding. Margin of error (ME) for 95% confidence level. Source: U.S. Consumer Product Safety Commission.

Table 3 gives estimated *fixed-site* injuries divided by estimated attendance at amusement parks [7] each year. The upward trend in risk is marginally significant, $p < .07$, 1-tail exact Kendall Tau test. *Unknown-site* estimates were allocated to fixed-site and mobile estimates as described above. Attendance data for *mobile* rides are not available.

Table 3
Risk of Non-Occupational Fixed-Site Amusement Ride Injury by Year

Year	Attendance (millions)	Risk
1999	309	23.5
1998	300	21.6
1997	300	18.2
1996	290	12.8
1995	280	15.3
1994	267	14.2
1993	275	17.5

Note: Risk is number of injuries per million attendance. Source: U.S. Consumer Product Safety Commission and International Association of Amusement Parks and Attractions.

Because an increasing trend in amusement ride-related injuries began in 1997, the same year the NEISS sample of hospitals was updated, it is important to determine whether the increase might be attributable to revision of the NEISS sample, i.e., replacement of about 30 hospitals in the sample of about 100 hospitals. Hospitals continuously present in NEISS from 1995 through 1999 were identified to determine the trend in amusement ride-related injuries at those hospitals. Table 4 gives sample counts, not estimates, from these hospitals. Although the total count dropped from 121 in 1995 to 95 in 1996, it steadily increased to 117 in 1997, 124 in 1998, and 167 in 1999. The increasing trend from 1996 to 1999 was statistically significant by an exact Kendall Tau 1-tailed test, $p = .04$. Thus, the trend in fixed-site and total amusement ride-related injuries does not appear to be an artifact of the updated NEISS sample in 1997.

Table 4
Non-Occupational Amusement Ride-Related Injury Counts for
Hospitals in NEISS from 1995 through 1999 by Year and Site of Ride

Year	Fixed	Mobile	Unknown	Total
1999	87	44	36	167
1998	62	29	33	124
1997	63	29	25	117
1996	49	33	13	95
1995	60	43	18	121

Source: U.S. Consumer Product Safety Commission.

Analysis of individual NEISS hospital data for calendar years 1995 through 1999 revealed one hospital (#58) that both records more amusement ride-related cases each year and exhibits a larger increasing trend over the period than all other NEISS hospitals. However, as discussed in Appendix A, reporting amusement ride-related injury estimates with hospital 58 excluded is inappropriate because the NEISS sample with hospital 58 removed is not statistically representative of all emergency room hospitals in the U.S.

In conclusion, current NEISS data indicate a total in 1999 of about $10,400 \pm 5,600$ emergency room-treated, amusement ride-related injuries, with about 7,000 involving *fixed-site* rides and about 3,000 involving *mobile* rides (Figure 1). From 1993 through 1999, there was a marginally significant upward trend in *fixed-site* and total amusement ride-related injuries and in the *risk* of *fixed-site* injury defined as the estimated number of injuries per million attendance at amusement parks. It should be noted that, although there are fewer *mobile* as compared to *fixed-site* ride injuries, the amount of exposure is probably different for *mobile* versus *fixed-site* rides, so the relative risk of injury attributable to one versus the other cannot be determined without comparable exposure information for both types of rides.

Amusement Ride-Related Fatalities

CPSC's files were searched for records of fatalities involving amusement rides during calendar years 1987 through 1999. These files were the death certificate file (DTHS), the injury or potential injury incident file (IPII), and the National Electronic Injury Surveillance System file (NEISS). Information in the narrative field of the records was used to classify cases using the criteria defined above in the *Method* section for the NEISS injury analyses.

DTHS and IPII files recorded 49 non-occupational fatalities from 1987 through 1999; NEISS files recorded no amusement ride-related fatalities during this period. Appendix B lists the 49 documented non-occupational fatality cases. Due to the logistical difficulty of capturing all fatalities related to any product or event, these counts do not account for all amusement ride-related fatalities. Methods for estimating true totals given 2 or more independent data sources are known as "capture-recapture" or "multiple record systems" methods [8,9]. Capture-recapture analyses were conducted on 43 documented cases during 1987 through 1998 to estimate the total and annual average number of non-occupational amusement ride-related fatalities during that period. Lags in fatality reporting preclude estimation of fatalities for the last full calendar year. The capture-recapture analyses treated the DTHS and IPII files as independent samples of all non-occupational amusement ride-related deaths during the study period. The estimated number of *non-occupational* amusement ride-related fatalities from 1987 through 1998 was 52 (95% confidence interval = 43 to 62), for an estimated annual average of 4.3 fatalities each year during that period.

Documented non-occupational fatalities from 1987 through 1999 were classified by ride *type*, *location* (state), and ride *site*. *Site* refers to *fixed-site* rides as in amusement parks, *mobile* rides as in carnivals or fairs, or rides of *unknown site*. From 1987 through 1999, there were 49 documented fatalities, including 30 *fixed* ride-related fatalities, 8 *mobile* ride-related fatalities, and 11 fatalities involving *unknown* ride mobility status. The following tables give documented fatalities by year and ride mobility (Table 4), ride type and mobility (Table 5), and state and ride mobility (Table 6).

Table 4 gives fatalities by year and site. The fatalities observed in 1998 (7) and 1999 (6) were the most since 1988. From 1993 through 1999, there was a marginally significant upward trend in both fixed-site and total fatalities, both $p = .08$, exact Kendall Tau 1-tailed tests.

Table 4
Non-Occupational Amusement Ride-Related Fatalities by Year and Ride Site

Year	Fixed	Mobile	Unknown	Total
1999	6	0	0	6*
1998	3	2	2	7*
1997	1	0	3	4
1996	2	1	0	3
1995	3	1	0	4
1994	2	0	0	2
1993	1	1	2	4
1992	0	2	0	2
1991	3	0	0	3
1990	0	0	0	0
1989	3	0	0	3
1988	2	1	4	7
1987	4	0	0	4
Total	30	8	11	49

* Data for 1998-1999 are incomplete; counts will increase if additional reports are received. Source: U.S. Consumer Product Safety Commission.

Table 5 gives documented non-occupational amusement ride fatalities by type and mobility. The majority of deaths were associated with roller coasters and "whirling" rides.

Table 5
Non-Occupational Amusement Ride-Related Fatalities from 1987 through 1999 by Ride Type and Mobility

Type of Ride	Fixed	Mobile	Unknown	Total
Roller Coaster	12	0	3	15
Whirling	2	4	4	10
Water	5	0	0	5
Train	2	1	0	3
Ferris Wheel	2	0	0	2
Sleigh	1	0	0	1
Unknown	6	3	4	13
Total	31	7	11	49

Note: Data for 1998-1999 are incomplete; counts will increase if additional reports are received. Source: U.S. Consumer Product Safety Commission.

Table 6 gives the number of documented non-occupational amusement ride fatalities by state and mobility. States with the largest number of documented fatalities included California (6), New Jersey (6), and New York (5).

Table 6
Non-Occupational Amusement Ride-Related Fatalities from 1987 through 1999 by State and Ride Mobility

State	Fixed	Mobile	Unknown	Total
CA	3	1	2	6
CT	1	0	0	1
FL	1	1	2	4
GA	0	0	1	1
IL	1	2	0	3
IN	1	0	0	1
MA	1	0	0	1
MD	0	0	1	1
MN	2	0	0	2
NE	1	0	0	1
NJ.	5	0	1	6
NM	0	1	0	1
NV	0	0	1	1
NY	4	1	0	5
OH	2	0	1	3
OK	0	0	1	1
PA	1	0	0	1
SC	2	0	0	2
TN	0	0	1	1
TX	2	2	0	4
UT	2	0	0	2
VA	1	0	0	1
Total	30	8	11	49

Note: Data for 1998-1999 are incomplete; counts will increase if additional reports are received. Source: U.S. Consumer Product Safety Commission.

Hazard Patterns Associated with Amusement Ride-Related Incidents

A review of in-depth investigation (INDP) reports by CPSC staff from 1 Jan 1990 through 30 April 2000 revealed several hazard patterns associated with amusement ride-related incidents. The investigated cases were neither a probability sample nor complete account of all such incidents, so estimates of the proportions or numbers of incidents involving the scenarios observed in these investigations are not provided. Appendix C lists selected information in CPSC files about each of 85 in-scope investigated incidents. Review of the 85 cases revealed hazard patterns involving mechanical failure, operator behavior, consumer behavior, other factors, and combinations of these factors.

Mechanical failures associated with amusement ride-related incidents included missing safety pins, broken welds or structural components, exposed electrical wires, broken drive chains, malfunctioning lap bars or other safety restraints, failure to shutoff, improper detachment of cars, and improper detachment of structural components.

Operator behaviors associated with amusement ride-related incidents included abruptly stopping the ride (e.g., following an apparent mechanical failure), improperly assembling or maintaining the ride, and defeating safety equipment such as brakes and automatic overheat cutoff switches.

Consumer behaviors associated with amusement ride-related incidents included intentionally rocking cars, standing up, defeating safety restraints, sitting improperly (e.g., sideways or with feet above lap bar), holding a child above the safety restraint, and in one instance, a disembarking passenger intentionally restarting the ride by pressing the start button as other passengers were disembarking.

The *other* hazard pattern applies to rides that can injure people while apparently functioning normally, without any unusual or inappropriate behavior on the part of consumers or operators. An example is a hand-powered ride called the "Spaceball" in which the occupant is spun extremely rapidly. Five reports of eye hemorrhage, and one report of retinal tear and possible cerebral edema, were associated with this ride. CPSC files document reported cases of amusement ride-related cerebral and retinal hemorrhage, subdural hematoma, loss of consciousness, headache, and dizziness. Fatalities with little or no overt trauma have occurred during or after rides which induce abrupt changes in speed and direction (e.g., cases 19, 27, 32, 36, 40, and 43 in Appendix B).

Several incidents involved combinations of the above hazard patterns. In one incident, for example, an operator abruptly stopped a ride upon hearing an unusual "thumping" sound due to a bent rail. In another case, the victim reported that the operator spun him longer and more vigorously than usual in a ride called the "Spaceball."

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Appendix A

Inspection of individual NEISS hospital data for calendar years 1995 through 1999 revealed one hospital (#58) that both contributes many more amusement ride-related cases to the NEISS each year and exhibits a larger increasing trend over the period than all other NEISS hospitals. To assess the "leverage" exerted by this hospital on estimates in the complete NEISS sample, national estimates were recomputed with this hospital removed from the sample. The revised unknown-site estimates were allocated to the revised fixed-site and mobile estimates in the same proportions as in the revised known-site estimates. Results were as follows.

Exclusion of hospital 58 *reduced* fixed-site annual injury estimates from 10% to 44%, depending on the year, with larger reductions for more recent years. In contrast, exclusion of hospital 58 *increased* mobile annual estimates from 1% to 9%, depending on the year, with larger increases for more recent years. Exclusion of hospital 58 reduced total (fixed-site plus mobile) annual injury estimates from 5% to 27%, depending on the year, with larger reductions for more recent years. None of the revised estimates yielded significant annual trends from 1993 through 1999, 1-tail exact Kendall Tau tests.

However, *reporting amusement ride-related injury estimates with hospital 58 excluded is inappropriate because the NEISS sample with hospital 58 removed is not a probability sample of all emergency room hospitals in the U.S.* The NEISS is a stratified sample of 100 hospitals out of the universe of 5,388 U.S. hospitals with emergency departments and 6 or more beds. There are 5 strata in the NEISS, with 4 strata corresponding to sizes in terms of annual emergency room visits (small, medium, large, and very large) and a 5th stratum corresponding to children's hospitals. Hospital 58 is one of 9 randomly sampled hospitals representing 674 "large" hospitals in the U.S. Because the 9 hospitals were randomly sampled from the universe of 674 "large" hospitals, the 9 hospitals are by definition a *probability sample* of the 674 "large" hospitals. However, if one of the 9 hospitals is removed based on the number of amusement ride cases it reported, then the resulting sample of 8 hospitals does not meet the random selection criterion of a probability sample, an essential requirement for valid statistical estimation. In particular, if the hospital with the *most* amusement ride cases is removed from the NEISS sample, the resulting sample is likely to *underestimate* the true total of amusement ride cases because other "large" hospitals with similar numbers of amusement ride cases in the universe of 674 hospitals are no longer represented in the NEISS sample.

Appendix B

Records of Reported Non-Occupational Amusement Ride Fatalities from 1987 through 1999 in CPSC Files

Appendix B lists records of amusement ride-related fatality cases in CPSC files. Many fatalities are documented in 2 or more records in CPSC files (and in Appendix B), with each record often providing additional information about the case. Fatality cases 48 and 49 occurred in the same incident and are documented in the same record in CPSC files (record number 112 in Appendix B). Ride *sites* F, M, and U, refer to fixed-, mobile, and unknown sites. Ride *types* RC and U refer to roller coasters and unknown types.

RECORD	CASE	FILE	DTACC	AGE	SEX	STATE	CITY	TKNO	DOCNO	MOBIL	TYPE
1	1	DTHS	04/19/87	15	M	TX	AMARILLO		8748035344	F	U
2	2	INDP	05/16/87	33	M	NJ		871013CCC0014	X87A5248A	F	RC
3	2	IPII	07/09/87	33	M	NJ	SEASIDE HEIGHTS	871013CCC0014	X87A5248A	F	RC
4	3	DTHS	06/16/87	19	F	NJ	FREEHOLO TWP	870618NYC5088	8734032977	F	RC
5	3	INDP	06/17/87	19	F	NJ		870618NYC5088	N8765088	F	RC
6	3	IPII	06/17/87	19	F	NJ	CHESTER	870618NYC5088	N8765088A	F	RC
7	3	IPII	06/17/87	19	F	NJ	JACKSON TWP	870618NYC5088	X8764119B	F	RC
8	3	IPII	06/17/87	19	F	NJ	TRENTON	870618NYC5088	X8774298A	F	RC
9	4	DTHS	07/18/87	18	M	MA	HOLYOKE	900309HCC1715	8725000595	F	TRAIN
10	4	INDP	07/18/87	18	M	MA	HOLYOKE	900309HCC1715	8725000595	F	TRAIN
11	4	IPII	07/17/87	18	M	MA	HOLYOKE	900309HCC1715	N8780115A	F	TRAIN
12	5	IPII	01/01/88	0	F	FL	BROWARD		N9440244C	U	U
13	5	IPII	01/01/88	0	U	FL	BROWARD COUNTY		X97C1427B	U	U
14	6	DTHS	03/26/88	15	M	FL	LAUDERDALE LAKES	880331CCC0266	8812026200	M	U
15	6	INDP	03/26/88	15	M	FL	LAUDERDALE LAKE	880331CCC0266	X8836769A	M	U
16	6	IPII	03/27/88	15	M	IL	LAUDERDALE LAKE	880331CCC0266	X8836769A	M	U
17	7	INDP	05/15/88	4	F	GA	ATLANTA	880517CEN1089	G8850100A	U	U
18	7	IPII	05/15/88	4	F	GA	ATLANTA	880517CEN1089	G8850100A	U	U
19	8	DTHS	05/15/88	5	F	TN	NASHVILLE		8947004026	U	WHIRLING
20	9	DTHS	08/10/88	30	M	NE	OMAHA		8831009287	F	U
21	9	IPII	01/01/88	0	M	NE	OMAHA		C8895003A	F	U
22	9	IPII	08/11/88	31	M	NE	OMAHA		X8888671A	F	U
23	10	INDP	08/23/88	26	M	NY	BROOKLYN	900327HCC1741	8836313951	F	RC
24	10	IPII	08/23/88	26	M	NY	CONEY ISLAND	900327HCC1741	N8880195A	F	RC
25	11	DTHS	11/23/88	17	F	FL	MIAMI	881125NYC5011	8812112936	U	WHIRLING
26	11	INDP	11/23/88	17	F	FL	HALLANDALE	881125NYC5011	N88B0142	U	WHIRLING
27	11	IPII	11/01/88	17	F	FL	FORT LANDERDALE	881125NYC5011	F8960123A	U	WHIRLING
28	11	IPII	11/01/88	17	F	FL	MIDWAY	881125NYC5011	N8990190A	U	WHIRLING
29	11	IPII	11/23/88	17	F	FL	HALLANDALE	881125NYC5011	N88B0142	U	WHIRLING
30	11	IPII	11/30/88	17	F	FL	COOPER CITY	881125NYC5011	N8990159B	U	WHIRLING
31	12	DTHS	04/30/89	6	M	UT	FARMINGTON	890522WES4002	8949003161	F	RC
32	12	INDP	04/30/89	6	M	UT	FARMINGTON	890522WES4002	F8954002	F	RC
33	12	IPII	04/30/89	6	M	UT	FARMINGTON	890522WES4002	X8952246A	F	RC
34	13	DTHS	06/09/89	13	F	UT	FARMINGTON		8949004082	F	RC
35	14	DTHS	07/03/89	9	M	CA	SANTA CLARA	890714WES5008	8906100727	F	LOG RIDE
36	14	INDP	07/03/89	9	M	CA	SANTA CLARA	890714WES5008	F8975008	F	LOG RIDE
37	14	IPII	01/01/89	9	M	CA	SANTA CLARA	890714WES5008	F9890039B	F	LOG RIDE
38	14	IPII	07/03/89	9	M	CA	SANTA CLARA	890714WES5008	F8975008A	F	LOG RIDE
39	15	IPII	06/09/91	0	F	OH	CINCINNATI		G9160095A	F	CAPSULE
40	16	IPII	01/01/91	17	M	SC	MYRTLE BEACH		X9951690C	F	FERRIS WHEEL
41	16	IPII	07/20/91	17	M	SC	MYRTLE		N9190131A	F	FERRIS WHEEL
42	17	IPII	08/11/91	14	M	NY	GRAND ISLAND		X9186478A	F	FERRIS WHEEL
43	18	DTHS	07/25/92	35	F	NM	TAOS	920730CWE6001	9235006257	M	WHIRLING
44	18	INDP	07/25/92	22	F	NM	TAOS	920730CWE6001	F9276001A	M	WHIRLING
45	18	IPII	07/25/92	22	F	NM	TAOS	920730CWE6001	F9276001A	M	WHIRLING
46	18	IPII	07/25/92	22	F	NM	TAOS	920730CWE6001	X92A0263A	M	WHIRLING
47	19	IPII	08/09/92	11	F	NY	EDAN		X9296202A	M	WHIRLING
48	19	IPII	08/09/92	11	F	NY	EDEN		N9290181A	M	WHIRLING
49	20	IPII	04/13/93	32	M	MD	HAGERSTOWN	930621CCC1417	N9350152A	U	WHIRLING
50	21	IPII	06/09/93	0	F	OH	HILLSBORO		G9360231A	U	U
51	22	DTHS	06/10/93	67	F	IL	ELGIN		9317034940	F	SLEIGH
52	23	DTHS	09/11/93	50	M	TX	LACKLAND AFB		9348090527	M	U
53	24	DTHS	07/09/94	6	F	SC	SPARTANBURG		9445017487	F	BUMPER BOAT
54	24	IPII	01/01/94	6	F	SC	SPARTANBURG		X9951690B	F	BUMPER BOAT
55	24	IPII	07/09/94	6	F	SC	SPARTANBURG		N9480105A	F	BUMPER BOAT

RECORD	CASE	NARRATIVE 1
1	1	FELL FROM AN AMUSEMENT PARK RIDE - BLUNT FORCE TRAUMA TO HEAD - AUTOPSY YES
2	2	A 33 YEAR OLD MALE SUSTAINED HEAD INJURIES WHEN HE APPARENTLY WAS LEANING OUT THE SIDE OF A CAR TO A FIXED SITE ROL
3	2	A 33-YEAR OLD MAN KILLED AFTER HE APPARENTLY UNFASTENED SEAT BELT ON AMUSEMENT RIDE AND FELL OUT
4	3	DECEDENT WAS THROWN FROM AMUSEMENT PARK RIDE LIGHTNING LOOPS - AVULSION OF THE BRAIN, MASSIVE SKULL FRACTURES -
5	3	A 19 YEAR OLD FEMALE FELL TO HER DEATH WHEN RIDING UPON A FIXED SITE ROLLER COASTER AT AN AMUSEMENT PARK. THE ROL
6	3	A 19YOF DIED WHEN SHE FELL FROM AN ROLLER COASTER AT AN AMUSEMENT PARK.
7	3	19 YEAR OLD WOMAN FELL OUT OF A ROLLER COASTER AND DIED
8	3	A 19-YEAR OLD WOMAN DIED WHEN SHE FELL FROM AN AMUSEMENT RIDE APPAREN TLY CAUSED BY FAILURE TO HAVE SAFETY HARN
9	4	RIDING ON SMALL TRAIN AT PARK WHICH DERAILED AND OVERTURNED - MULTIPLE INJURIES OF CHEST AND ABDOMEN; AMUSEMENT P
10	4	AN 18 YEAR OLD MALE RIDING A MINATURE TRAIN FIXED RIDE AT AN AMUSEMENT PARK WAS KILLED WHEN THE CAR IN WHICH HE WAS
11	4	18 YEAR OLD MAN DIED FROM INJURIES SUSTAINED WHILE RIDING AN AMUSEMENT RIDE.
12	5	A TEENAGE GIRL WAS KILLED WHEN AN AMUSEMENT RIDE MALFUNCTIONED
13	5	A TEENAGER KILLED IN AN AMUSEMENT RIDE. METAL FATIGUE WAS BLAMED
14	6	DECEASED FELL FROM CARNIVAL RIDE - EXSANGUINATION; INCISED WOUND OF ABDOMEN - AUTOPSY YES
15	6	AT ABOUT 9:15 PM ON 3/26/88 A 15 YEAR OLD MALE WAS EJECTED FROM A MOBILE AMUSEMENT RIDE WHILE ATTEMPTING EITHER TO
16	6	A 15 YEAR OLD BOY DIED AFTER HE CLIMBED UP UNDER SAFETY BAR OF AMUSEMENT RIDE AND FELL.
17	7	A 4-YEAR-OLD FEMALE RECEIVED A FRACTURED SKULL AND A LACERATED FORE- HEAD AFTER SHE SLIPPED OFF AN AMUSEMENT RID
18	7	A 4-YEAR OLD GIRL HOSPITALIZED AFTER THROWN FROM AMUSEMENT RIDE.
19	8	WAS THROWN FROM CAR OF 'TILT WHEEL' RIDE - RESPIRATORY FAILURE, TRACHEAL STENOSIS, ACCIDENT - AUTOPSY NO
20	9	FELL FROM RIDE AT AMUSEMENT PARK - MULTIPLE HEAD & INTERNAL INJURIES - FALL - AUTOPSY YES
21	9	YOUNG MAN DIED WHEN HE FELL OFF AN AMUSEMENT PARK RIDE.
22	9	A 31-YEAR OLD MAN WAS KILLED WHEN HE FELL FROM AN AMUSEMENT PARK RIDE
23	10	A 26 YEAR OLD MALE DIED WHEN HE FELL FROM A MOVING CYCLONE ROLLER COASTER RIDE AND LANDED ON THE STRUCTURE'S TRA
24	10	A 26-YEAR OLD MAN DIED WHEN HE FELL FROM AN AMUSEMENT RIDE HE WAS APP ARENTLY STANDING UP IN.
25	11	DECEASED, OCCUPANT OF AN AMUSEMENT RIDE THAT COLLAPSED STRUCK HER IN HEAD - BLUNT HEAD TRAUMA - AUTOPSY YES
26	11	A SEVENTEEN (17) YEAR OLD FEMALE WAS KILLED AND SIX OTHER INDIVIDUAL SUFFERED VARIOUS INJURIES WHEN THE SWEEP COM
27	11	17 YR OLD GIRL WAS KILLED AND 6 OTHER PEOPLE WERE INJURED WHEN THE FA ULTY ARM OF AN AMUSEMENT RIDE BROKE.
28	11	17 YEAR OLD GIRL WAS KILLED WHEN THE ARM OF AN AMUSEMENT RIDE BROKE AND FELL ON HER.
29	11	A 17-YEAR OLD FEMALE WAS KILLED, A 23-YEAR OLD MAN HOSPITALIZED AND FIVE OTHER PEOPLE SLIGHTLY INJURED WHEN AN ARM
30	11	A 17 YEAR OLD FEMALE WAS KILLED WHEN AN ARM BROKE OFF AN AMUSEMENT RI DE STRICKING HER ON ANOTHER RIDE BELOW
31	12	FELL AND STRUCK BY AMUSEMENT RIDE - BLUNT FORCE INJURIES TO HEAD AND TORSO - AUTOPSY NO
32	12	6 YEAR OLD MALE VICTIM DIED OF BLUNT INJURIES TO HEAD AND TORSO SUSTAINED WHEN HE WAS STURCK BY ROLLER COASTER RI
33	12	A 6-YEAR OLD BOY WAS KILLED WHEN HE WAS STRUCK BY AN AMUSEMENT RIDE T HAT HE HAD FALLEN FROM.
34	13	FELL FROM ROLLERCOASTER RIDE (40 FEET HEIGHT) - MULTIPLE INJURIES, BLUNT FORCE TRAUMA - AUTOPSY UNK
35	14	PINNED BETWEEN LOG-BOAT AND FLUME - MECHANICAL ASPHYXIA, ACCIDENT - AUTOPSY YES
36	14	THE VICTIM, A 9-YEAR OLD BOY, DIED AS A RESULT OF INJURIES SUSTAINED IN THIS ACCIDENT, INVOLVING AN AMUSEMENT RIDE. THE
37	14	A 9 YEAR OLD BOY WAS KILLED WHEN HE FELL UNDER A FIBERGLASS LOG ON A WATER RIDE AT AN AMUSEMENT PARK.
38	14	A 9-YEAR OLD BOY WAS CRUSHED TO DEATH WHEN HE JUMPED FROM A LOG FLUME RIDE AT AN AMUSEMENT PARK AND BECAME TR
39	15	A WOMAN WAS KILLED AT AN AMUSEMENT PARK AFTER SHE FELL OUT OF A RIDE.
40	16	A BOY, AGE 17, DIED IN A 40 FOOT FALL FROM A FERRIS WHEEL.
41	16	A 17 YEAR OLD MALE WAS KILLED AND EIGHT OTHERS INJURED (12 YEAR OLD FEMALE, 15 YEAR OLD MALE INCLUDED) WHEN THE SAF
42	17	A 14 YEAR OLD MALE DIED AFTER FALLING 60 FEET WHEN THE SEAT OF A FERRIS WHEEL SLIPPED OFF ITS AXLE.
43	18	FELL FROM CARNIVAL RIDE - CRANIOCEREBRAL INJURIES AUTOPSY YES - 920730CME6001
44	18	A 22 YEAR OLD FEMALE AND TWO OTHER YOUNG FEMALES WERE INJURED ON A MOBILE AMUSEMENT RIDE, THE HIMALAYA, WHEN A S
45	18	A 22 YEAR OLD FEMALE WAS KILLED AND A 16 YEAR OLD FEMALE AND 20 YEAR OLD FEMALE INJURED WHEN THROWN FROM AN AMUS
46	18	A 22 YEAR OLD FEMALE DIED WHEN SHE AND TWO FRIENDS WERE THROWN FROM A CARNIVAL RIDE WHEN THE SAFETY BAR FAILED
47	19	A 11 YEAR OLD FEMALE WAS FOUND DEAD AFTER THE AMUSEMENT RIDE SHE WAS ON STOPPED.
48	19	AN 11 YEAR OLD FEMALE DIED AFTER COLLAPSING ON AN AMUSEMENT RIDE AT A CARNIVAL.
49	20	A 32 YEAR OLD MALE DIED AFTER BEING CRUSHED IN THE SPOKES OF AN AMUSEMENT RIDE, ANOTHER MALE DIED AND ANOTHER WA
50	21	A FEMALE DIED AND A MALE AND FEMALE WERE INJURED WHEN APPARENTLY AN A MUSEMENT RIDE WAS STOP ABRUPTLY
51	22	SLEIGH-RIDE TIPPED OVER AT AMUSEMENT PARK - CARDIO RESPIRATORY ARREST, BASILAR SKULL FRACTURE, TRAUMA - AUTOPSY N
52	23	FELL OFF CARNIVAL RIDE STRUCK ON HEAD - CRANIOCEREBRAL INJURIES - AUTOPSY YES
53	24	TRAPPED UNDER BUMPER BOAT - RESPIRATORY INSUFFICIENCY, DROWNING - AUTOPSY YES
54	24	A GIRL, AGE 6, DROWNED WHEN SHE FELL OUT OF A WATER BOAT AMUSEMENT RIDE.
55	24	A 6 YEAR OLD FEMALE DROWNED WHEN SHE FELL FROM AN AMUSEMENT RIDE INTO WATER AND HER SHIRT GOT CAUGHT IN A PROP

RECORD	CASE	NARRATIVE 2
1	1	
2	2	IN OPERATION AND HIS HEAD STRUCK AN OBJECT IT APPEARS THE VICTIM INTENTIONALLY DISENGAGED HIS SEAT BELT CONTRARY
3	2	
4	3	
5	3	LOOPS DURING THE RUN AND THE CARS ARE EQUIPPED WITH SHOULDER TYPE HARNESS RESTRAINTS REPORTEDLY, THE VICTIM WA
6	3	
7	3	
8	3	
9	4	ACCIDENT - AUTOPSY YES
10	4	DERAILED AND TIPPED ON HIM. HE WAS REPORTED TO BE ROCKING THE CAR IMMEDIATELY PRIOR TO THE ACCIDENT THE EQUIPME
11	4	
12	5	
13	5	
14	6	
15	6	CHANGE SEATS WITH HIS YOUNGER SISTER OR TO STAND UP THE VICTIM, 5'6" TALL & 126 POUNDS, WAS PHYSICALLY AND MENTALLY
16	6	
17	7	PUBLIC AREA SHE WAS ADMITTED FOR HOSPITALIZATION AT A LOCAL HOSPITAL VICTIM DIED IN HOSPITAL ON JAN 12, 1989 FROM HE
18	7	
19	8	
20	9	
21	9	
22	9	
23	10	COASTER RIDE WAS PERMANENTLY INSTALLED IN AN AMUSEMENT PARK
24	10	
25	11	
26	11	RIDE THEY WERE ON, BROKE APART THE SWEEP FRACTURE CAUSED THE ATTACHED FOUR OCCUPIED BUCKETS TO FALL TO THE
27	11	
28	11	
29	11	ROKE CAUSING THEM TO FALL
30	11	
31	12	
32	12	ATTEMPTING TO GET OUT OF COASTER CAR WHICH HAD STOPPED COASTER RE- STARTED AND VICTIM FELL OUT OF CAR ONTO TRA
33	12	
34	13	
35	14	
36	14	ATTEMPTING TO JUMP OFF OF THE LOG TO ADJACENT SHORE, APPARENTLY SLIPPED AND FELL INTO THE WATER AND BECAME TRAP
37	14	
38	14	WALL OF FLUME RIDE
39	15	
40	16	
41	16	IS WHEEL AND THEY FELL
42	17	
43	18	
44	18	RELEASED WHILE THE RIDE WAS IN OPERATION AND THEY WERE EJECTED THE RIDE ROTATED ABOUT A CENTRAL MOTOR OVER A CI
45	18	
46	18	
47	19	
48	19	
49	20	OM THE RIDE
50	21	
51	22	
52	23	
53	24	
54	24	
55	24	

RECORD	CASE	NARRATIVE 3
1	1	
2	2	RULES. VICTIM WAS SEEN STANDING UP AND LEANING OUT OF THE CAR BY WITNESSES. VICTIM DIED 7 WEEKS LATER FROM COMPLI
3	2	
4	3	
5	3	SHOULDER TYPE HARNESS AND STATE INVESTIGATORS FAULT PARK EMPLOYEES FOR NOT HAND CHECKING THE HARNESS PRIOR TO
6	3	
7	3	
8	3	
9	4	
10	4	INSPECTION
11	4	
12	5	
13	5	
14	6	
15	6	APPARENTLY WAS COAXED TO RIDE BY HIS PARENTS. THE VICTIM LATER DIED FROM INJURIES RECEIVED IN HIS FALL FROM T
16	6	
17	7	
18	7	
19	8	
20	9	
21	9	
22	9	
23	10	
24	10	
25	11	
26	11	GROUND WHILE THEY WERE REVOLVING AT A HIGH RATE OF SPEED. THE FEMALE FATALITY WAS STRUCK IN THE HEAD BY ANOTHER
27	11	
28	11	
29	11	
30	11	
31	12	
32	12	TRACK TO GROUND, A DISTANCE OF 42 INCHES. VICTIM CLIMBED BACK ONTO TRACK AND WAS STRUCK BY COASTER AS IT RETURNE
33	12	
34	13	
35	14	
36	14	THE VICTIM'S FRIEND HAD SUCCESSFULLY JUMPED FROM THE LOG TO SHORE, AND THE VICTIM WAS ATTEMPTING TO FOLLOW HIS F
37	14	
38	14	
39	15	
40	16	
41	16	
42	17	
43	18*	
44	18	BY A RAILED WALKWAY. THE VICTIMS WERE DRAGGED ALONG THIS WALKWAY STRIKING THEIR HEADS.
45	18	
46	18	
47	19	
48	19	
49	20	
50	21	
51	22	
52	23	
53	24	
54	24	
55	24	

RECORD	CASE	NARRATIVE 4
1	1	
2	2	OF INCIDENT
3	2	
4	3	
5	3	PROBLEMS WERE NOTED WITH THE RIDE
6	3	
7	3	
8	3	
9	4	
10	4	
11	4	
12	5	
13	5	
14	6	
15	6	THE RIDE WAS IN GOOD OPERATING CONDITION AT THE TIME OF THE ACCIDENT THERE WERE NO OTHER INJURIES
16	6	
17	7	
18	7	
19	8	
20	9	
21	9	
22	9	
23	10	
24	10	
25	11	
26	11	VOLVED
27	11	
28	11	
29	11	
30	11	
31	12	
32	12	
33	12	
34	13	
35	14	
36	14	OF THE VICTIMS DEATH IS LISTED AS MECHANICAL ASPHYXIA
37	14	
38	14	
39	15	
40	16	
41	16	
42	17	
43	18	
44	18	
45	18	
46	18	
47	19	
48	19	
49	20	
50	21	
51	22	
52	23	
53	24	
54	24	
55	24	

RECORD	CASE	FILE	DTACC	AGE	SEX	STATE	CITY	TKNO	DOCNO	MOBIL	TYPE
56	25	DTHS	08/11/94	6	M	CT	WATERBURY	960730HCC5398	9409018505	F	WHIRLING
57	25	INDP	08/11/94	6	M	CT	MIDDLEBURY	960730HCC5398	9409018505	F	WHIRLING
58	25	INDP	08/11/94	6	M	CT	MIDDLEBURY	940922CCC1758	N9490119A	F	WHIRLING
59	25	IPII	08/01/94	6	M	NJ	BOWCRAFT		N9580417B	F	WHIRLING
60	25	IPII	08/11/94	6	M	CT	ANSONIA	940922CCC1758	N9490119A	F	WHIRLING
61	25	IPII	08/11/94	6	M	CT	MIDDLEBURY		N9480384A	F	WHIRLING
62	25	IPII	08/11/94	6	M	CT	MIDDLEBURY		X94C0726A	F	WHIRLING
63	26	IPII	06/01/95	13	F	FL	TAMPA		N9660173A	F	RC
64	27	DTHS	06/14/95	77	M	PA	ABINGTON	970424HCC1159	9542061243	F	RC
65	27	INDP	06/14/95	77	M	PA	ALLENTOWN	970424HCC1159	9542061243	F	RC
66	28	DTHS	06/30/95	14	F	MO	N KANSAS CITY		9529019093	F	RC
67	28	IPII	01/01/95	14	F	MO	UNKNOWN		G9580191C	F	RC
68	28	IPII	06/01/95	14	F	NJ	KANSAS		N9580294A	F	RC
69	28	IPII	06/30/95	14	F	MO	KANSAS CITY		G9570013A	F	RC
70	29	DTHS	11/25/95	2	F	FL	JACKSONVILLE		9512135919	M	U
71	29	IPII	11/25/95	2	F	FL	TALLAHASSEE	951128CAA1197	X95B0789A	M	U
72	30	DTHS	08/11/96	57	F	IN	THORNTOWN	960819HCC5534	9618025871	F	TRAIN
73	30	INDP	08/11/96	57	F	IN	THORNTOWN	960819HCC5534	G9680075A	F	TRAIN
74	30	IPII	08/11/96	57	F	IN	THORTOWN	960819HCC5534	G9680075A	F	TRAIN
75	31	DTHS	08/16/96	14	F	IL	SANGAMON	960819CCN1702	9617049777	M	WHIRLING
76	31	INDP	08/16/96	13	F	IL	SPRINGFIELD	960819CCN1702	G9680113A	M	WHIRLING
77	31	IPII	08/16/96	14	F	IL	SPRINGFIELD	960819CCN1702	G9680113A	M	WHIRLING
78	31	IPII	08/16/96	14	F	IL	SPRINGFIELD	960819CCN1702	X9683698A	M	WHIRLING
79	32	DTHS	08/19/96	52	M	NY	STATEN ISLAND	970328HCC1056	9666042423	F	U
80	32	INDP	08/19/96	52	M	NY	VERNON	970328HCC1056	9666042423	F	U
81	33	DTHS	02/22/97	3	F	NV	LAS VEGAS	970409HCC3090	9732002247	U	WHIRLING
82	33	INDP	02/22/97	3	F	NV	LAS VEGAS	970409HCC3090	X9741277A	U	WHIRLING
83	33	IPII	02/22/97	3	F	NV	LAS VEGAS	970409HCC3090	X9751749A	U	WHIRLING
84	33	IPII	02/22/97	3	F	NV	LAS VEGAS	970409HCC3090	X9741277A	U	WHIRLING
85	34	DTHS	04/20/97	14	M	OK	TULSA		9740009986	U	RC
86	35	IPII	05/23/97	14	F	OH	AURORA		G9760114A	F	RC
87	36	DTHS	07/11/97	49	M	NJ	HACKENSACK	980204HCC0018	9734039685	U	RC
88	36	INDP	07/11/97	49	M	NJ	JACKSON	980204HCC0018	9734039685	U	U
89	37	IPII	01/01/98	25	M	CA	SANTA CLARA		F9890039A	U	RC
90	37	IPII	09/07/98	24	M	CA	SANTA CLARA		X98B0385A	U	RC
91	38	DTHS	03/19/98	15	F	TX	AUSTIN	980320CWE7133	9848025078	M	WHIRLING
92	38	INDP	03/19/98	15	F	TX	AUSTIN	980320CWE7133	F9837026A	M	WHIRLING
93	38	IPII	03/19/98	15	F	TX	AUSTIN	980320CWE7133	F9837026A	M	WHIRLING
94	38	IPII	03/19/98	15	F	TX	AUSTIN	980320CWE7133	X9832564A	M	WHIRLING
95	39	IPII	08/01/98	12	M	MN	BLOOMINGTON		X9884596A	F	WATER
96	39	IPII	08/01/98	12	M	MN	MINNEAPOLIS		X9884463A	F	WATER
97	40	IPII	08/13/98	8	F	MN	BLOOMINGTON		X9993248I	F	U
98	41	INDP	08/30/98	213	M	CA	MENDOTA	980902CWE5016	F9895002A	M	TRAIN
99	41	IPII	08/30/98	214	F	CA	MENDOTA	980902CWE5016	F9895002A	M	TRAIN
100	42	IPII	12/24/98	33	M	CA	ANAHEIM		F9910017A	F	BOAT
101	42	IPII	12/24/98	33	M	CA	ANAHEIM		X9910197B	F	BOAT
102	43	IPII	12/31/98	46	F	CA	LAS VEGAS		X9951823A	U	RC
103	44	INDP	03/21/99	28	F	TX	ARLINGTON	990322HWE7187	F9937180A	F	RAFT
104	44	IPII	03/21/99	28	F	TX	ARLINGTON	990322HWE7187	F9937180A	F	RAFT
105	45	INDP	06/11/99	17	F	NY	BROOKLYN	990614CNE5191	N9960143A	F	WHIRLING
106	45	IPII	06/11/99	17	F	NY	CONEY ISLAND		X9962154A	F	WHIRLING
107	45	IPII	06/11/99	17	F	NY	NEW YORK	990614CNE5191	N9960143A	F	CARS
108	46	IPII	08/22/99	12	M	CA	SANTA CLARA		X0010186A	F	U
109	46	IPII	08/22/99	12	M	CA	SANTA CLARA		X9982937A	F	U
110	47	IPII	08/23/99	20	M	VA	DOSWELL		X9982972A	F	RC
111	47	IPII	08/23/99	20	M	VA	HANOVER		X98A3473A	F	RC
112	48	IPII	08/29/99	8	F	NJ	OCEAN CITY		X9993069A	F	RC
112	49	IPII	08/29/99	39	F	NJ	OCEAN CITY		X9993069A	F	RC

CASE	NARRATIVE 1
25	FELL UNDER AMUSEMENT PARK RIDE ON CAR TRACKS - CRANIOCEREBRAL TRAUMA, CRUSHING INJURY - AUTOPSY NO
25	6 YEAR OLD MALE SUSTAINED FATAL CRUSHING INJURY TO THE HEAD WHILE TRYING TO EXIT AN AMUSEMENT RIDE WHEN ANOTH
25	A 6 YEAR OLD MALE DIED WHEN HE BECAME ENTRAPPED BENEATH A RIDE THAT GOES IN CIRCLES AT AN AMUSEMENT PARK IT IS
25	A 6 YEAR OLD MALE WAS KILLED WHEN HE FELL FROM AN AMUSEMENT PARK RIDE A 7 YEAR OLD MALE AND 6 YEAR OLD MALE BR
25	A 6 YEAR OLD MALE DIED WHEN AN AMUSEMENT RIDE RESTARTED DRAGGING HIM UNDERNEATH AND CRUSHING HIM
25	A 6 YEAR OLD MALE DIED AFTER AN AMUSEMENT PARK RIDE'S CAR STRUCK HIM AND DRAGGED HIM ALONG THE TRACKS
25	A 6 YEAR OLD MALE DIED AFTER FALLING UNDER AN AMUSEMENT PARK RIDE
26	A GIRL, AGE 13, WHO SUFFERED FROM OTHER HEALTH PROBLEMS DIED AFTER SHE HAD A SEIZURE ON A ROLLER COASTER RIDE A
27	BUMPED HEAD ON ROLLER COASTER - INTRACEREBRAL HEMORRHAGE AND SUBDURAL HEMATOMA - AUTOPSY NO
27	A 77 YEAR OLD MALE WAS AT AN AMUSEMENT PARK WITH HIS GRANDCHILDREN THE VICTIM'S HEAD WAS BUMPED BY A ROLLER C
28	FELL FROM ROLLER COASTER RIDE AT AMUSEMENT PARK - MASSIVE HEAD TRAUMA, LACERATIONS OF LIVER AND SPLEEN - AUTOP
28	A 14 YEAR OLD FEMALE DIED FOLLOWING A 25 FOOT FALL FROM A ROLLER COAS TER
28	A 14 YEAR OLD FEMALE DIED WHEN SAFETY STRAPS ON A ROLLER COASTER FAIL ED
28	A 14 YEAR OLD FEMALE DIED OF MASSIVE HEAD INJURY IN A FALL FROM A ROL LER COASTER AT AN AMUSEMENT PARK
29	FELL FROM STAIRS ON CARNIVAL RIDE - CLOSED HEAD INJURY FALL FROM STAIRS ON CARNIVAL RIDE - AUTOPSY YES
29	A GIRL, AGE 2 DIED FOLLOWING A FALL ON THE STEPS LEADING TO A MOBILE AMUSEMENT RIDE
30	PASSENGER OF AMUSEMENT RIDE THROWN DURING DERAILMENT - BLUNT FORCE INJURY OF THE HEAD, AMUSEMENT RIDE- AUTO
30	A 57 YEAR OLD FEMALE DIED OF HEAD INJURIES AND A 4 YEAR OLD FEMALE SUSTAINED SEVERE HEAD INJURIES WHEN TWO CARS
30	A WOMAN, AGE 57 WAS KILLED AND HER GRAND-DAUGHTER SEVERELY INJURED WHEN TWO AMUSEMENT PARK TRAIN CARS FLIPP
31	FALL FROM AMUSEMENT PARK RIDE - DUE TO BRAIN TRAUMA, MULTIPLE TRAUMATIC INJURIES AND HEMORRHAG - AUTOPSY YES
31	THIS INVESTIGATION REVEALED THAT, ON 8/16/96, AT APPROXIMATELY 7 15 PM, A 13 YEAR OLD DEVELOPMENTALLY DISABLED GIRL
31	A GIRL, AGE 14, WAS KILLED AFTER SHE SLIPPED FROM A HARNESS IN THE GONDOLA OF AN AMUSEMENT RIDE AT A STATE FAIR A
31	A GIRL, AGE 14, WAS KILLED AFTER SHE SLIPPED FROM A HARNESS IN THE GONDOLA OF AN AMUSEMENT RIDE AT A STATE FAIR A
32	INJURED KNEE ON RIDE AT AMUSEMENT PARK - PULMONARY THROMBOEMBOLISM, PHLEBOTHROMBOSIS OF LEFT LEG, BLUNT IMP
32	A 52-YEAR OLD MALE INJURED HIS KNEE ON A RIDE AT AN AMUSEMENT PARK AND DIED 5 DAYS LATER FROM PULMONARY THROMB
33	FELL FROM AMUSEMENT PARK RIDE AND WAS CRUSHED - MULTIPLE TRAUMATIC INJURIES - AUTOPSY YES
33	A 3 YEAR OLD GIRL WAS RIDING IN A FIXED, ROTATING AMUSEMENT PARK RIDE SHE WAS IN A CAR WITH A SIX YEAR OLD CHILD T
33	A GIRL, AGE 3, DIED OF MULTIPLE TRAUMATIC INJURIES SHE WAS STANDING UP ON AN AMUSTEMENT RIDE WHILE IT WAS IN MOTI
33	A GIRL, AGE 3, DIED OF MULTIPLE INJURIES RECEIVED WHEN SHE STOOD UP ON AN AMUSEMENT RIDE IN MOTION, FELL, AND MAY H
34	ROLLER COASTER ACCIDENT WITH EJECTION - BLUNT TRAUMA OF HEAD - AUTOPSY YES
35	AN ASTHMATIC GIRL, AGE 14, DIED AFTER SHE RODE A DOUBLE LOOP ROLLER COASTER AT AN AMUSEMENT PARK HER ASTHMA A
36	STRUCK HEAD WHILE ON ROLLER-COASTER RIDE - COMPLICATIONS OF SUBDURAL HEMATOMA, HEAD INJURY - AUTOPSY
36	A 49 YEAR OLD MALE ALLEGEDLY SUFFERED A HEAD INJURY ON AN AMUSEMENT PARK RIDE WHICH CAUSED INJURY TO THE BRAIN
37	A MAN, AGE 25, WAS KILLED TRYING TO RETRIEVE A CAP FROM UNDER THE TRACKS OF A HIGH-SPEED ROLLER COASTER AT AN AM
42	A MAN, AGE 24, DIED OF INJURIES RECEIVED TRYING TO RETRIEVE HIS HAT (LOST WHILE RIDING A ROLLER COASTER) FROM A RES
38	LAP BAR OF A CARNIVAL RIDE BROKE AND SHE WAS EJECTED - CRANIOCEREBRAL TRAUMA - AUTOPSY YES - 980320CWE7133
38	THREE VICTIMS INCLUDING A 15 YEAR OLD FEMALE, A 16 YEAR OLD FEMALE AND A NINE YEAR OLD MALE WERE RIDING AN AMUSEM
38	A 15 YR OLD GIRL DIED AFTER BEING THROWN OFF A CARNIVAL RIDE A 9 YR OLD BOY AND A 16 YR OLD WERE TREATED AND RELE
38	A 15 YR OLD GIRL WAS KILLED AND A 9 YR OLD BOY AND ANOTHER 16 YR OLD WERE SLIGHTLY INJURED WHEN THEY WERE THROW
39	A BOY, AGE 12, DIED OF HEAD AND ABDOMINAL INJURIES RECIEVED IN A FALL FROM A WATER RIDE AT AN INDOOR AMUSEMENT PA
39	A 12 YEAR OLD BOY DIED OF MULTIPLE BLUNT TRAUMA A DAY AFTER HE FELL OFF A LOG FLUME RIDE AT AN AMUSEMENT PARK H
40	A GIRL, AGE 8, DIED OF HEART ATTACK AFTER RIDE IN AN AMUSEMENT PARK
41	A 13 MONTH OLD MALE VICTIM STOOD UP ON HIS SEAT OF A KIDDIE TRAIN MOBILE AMUSEMENT RIDE AS THE RIDE OPERATOR STAR
41	A 14 MONTH OLD FEMALE WAS KILLED IN A FALL FROM A KIDDIE TRAIN RIDE AT AN AMUSEMENT PARK
42	A MAN, AGE 33, KILLED AND HIS WIFE, AGE 43, WAS INJURED, AND AN EMPLOYEE WAS SERIOUSLY HURT WHEN A ROPE CLEAT PULL
42	A MAN, AGE 33, DIED AFTER HE AND HIS WIFE WERE HIT IN THE HEAD BY A METAL CLEAT THAT BROKE LOOSE ON AN AMUSEMENT
43	A WOMAN, AGE 46, DIED OF SUBDURAL HEMATOMA WITH BLEEDING INTO THE BRAIN 7 DAYS AFTER SHE WAS RIDING A ROLLERCOA
44	A 28 YEAR OLD FEMALE VICTIM DIED AND TEN OTHER INDIVIDUALS WERE INJURED WHEN A FIXED AMUSEMENT RIDE'S RAFT CAPSIZ
44	A WOMAN, AGE 28, DROWNED DURING A WATER RIDE AT AN AMUSEMENT PARK WHEN HER RAFT TIPPED OVER. 11 PEOPLE WERE I
45	A 17 YEAR OLD GIRL WAS KILLED AND EIGHT OTHER PEOPLE WERE INJURED WHEN A SUPER HIMALAYA RIDE MALFUNCTIONED IN A
45	A GIRL, AGE 17, WAS KILLED WHEN A COUPLING BETWEEN CARS ON AN AMUSEMENT PARK RIDE BROKE CAUSING VIOLENT GYRATI
45	AN AMUSEMENT PARK RIDE'S COUPLING BROKE BETWEEN TOW CARS 17 YEAR OLD FEMALE WAS THROWN OUT OF THE RIDE SH
46	A BOY, AGE 12, DIED OF MULTIPLE TRAUMATIC INJURIES SUSTAINED IN A FALL FROM A HEIGHT WHILE ON AN AMUSEMENT RIDE AT
46	A BOY, AGE 12, WAS KILLED AFTER HE FELL FROM AN AMUSEMENT RIDE AT PARK WHEN HE SLIPPED THROUGH A HARNESS ON THE
47	A MAN, AGE 20, DIED IN AN APPARENT ACCIDENT ON A ROLLER COASTER WHICH RIDERS STAND THROUGH SEVERAL LOOPS THAT T
47	A MAN, AGE 20, DIED OF BLUNT FORCE INJURED TO HEAD RECEIVED IN AN ACCIDENT ON A ROLLER COASTER WHICH RIDERS STA
48	A GIRL, AGE 8, AND HER MOTHER, AGE 39, BOTH WERE KILLED AND TWO OTHER PEOPLE WERE INJURED WHEN THEY WERE APPAR
49	A GIRL, AGE 8, AND HER MOTHER, AGE 39, BOTH WERE KILLED AND TWO OTHER PEOPLE WERE INJURED WHEN THEY WERE APPAR

RECORD	CASE	NARRATIVE 2
56	25	
57	25	BUTTON WHICH RE-STARTED THE RIDE AND THE SWEEP OF THE RIDE CAUGHT AND DRAGGED THE VICTIM.
58	25	EXITING THE CAR HE WAS SEATED IN, SOMEBODY STARTED THE RIDE MOVING HE WAS SWEEPED BENEATH THE ARM THAT THE CAR EX
59	25	TO SUPPORT BARS
60	25	
61	25	
62	25	
63	26	
64	27	
65	27	SEEK MEDICAL TREATMENT 4 DAYS LATER, THE VICTIM BECAME ILL AND LAPSED INTO A COMA. HE WAS ADMITTED TO THE HOSPIT
66	28	
67	28	
68	28	
69	28	
70	29	
71	29	
72	30	
73	30	AMUSEMENT RIDE TRAIN OVERTURNED, SPILLING THE RIDERS ONTO THE GROUND
74	30	EIGHT OTHER PEOPLE WERE ALSO INJURED
75	31	
76	31	COUNSELOR, AND THEY WERE RIDING AN AMUSEMENT RIDE AT A STATE FAIR, WHICH LOOKS SIMILAR TO TWO HAMMERS THAT APPA
77	31	STRUCK
78	31	STRUCK
79	32	AUTOPSY YES
80	32	
81	33	
82	33	BAR IN THE CAR WAS DESIGNED TO RESTRAIN THE LARGEST OCCUPANT THE VICTIM HAD BEEN STANDING UP WHILE THE RIDE WAS I
83	33	ONTO CONCRETE AND WAS POSSIBLY RUN OVER BY RUNNING PARTS OF THE RIDE.
84	33	MOVING PARTS
85	34	
86	35	THE OPERATION OF THE RIDE.
87	36	
88	36	ON HIS WAY HOME HE DETERIORATED AND WAS TAKEN TO A HOSPITAL WHERE HE DIED THE NEXT DAY OFFICIAL CAUSE OF DEATH
89	37	RIDE PASSED OVERHEAD HE WAS HIT IN THE HEAD BY THE DANGLING FOOT OF A WOMAN AGE 28, RIDING THE COASTER. SHE SUFFE
90	37	AMUSEMENT PARK WHEN STRUCK BY THE LEG OF A ROLLER COASTER RIDER. #98-250-007
91	38	
92	38	WERE EJECTED FROM THEIR CAR. THE 15 YEAR OLD FEMALE WAS PRONOUNCED DOA AND THE OTHER TWO VICTIMS WERE TREATED
93	38	
94	38	THE RIDE WHIPS PEOPLE AROUND AN UNDULATING TRACK AT HIGH SPEEDS
95	39	HE MAY HAVE BECOME SCARED AND TRIED TO CLIMB OUT DURING THE RIDE.
96	39	DURING THE RIDE. HE STOOD UP AND GRABBED THE RAILING, BUT HE FELL 30' ONTO THE ROCKS AND WATER POOL BELOW 98-1854
97	40	
98	41	THE VICTIM FELL OUT OF HIS SEAT AND WAS RUN OVER BY THE NEXT TRAIN CAR. THE VICTIM WAS PRONOUNCED DEAD AT THE HOSP
99	41	
100	42	BOAT (PART OF AN AMUSEMENT RIDE) AS THE TALL SHIP DOCKED AT AMUSEMENT PARK.
101	42	PARK. A FEMALE PARK EMPLOYEE SUFFERED A FOOT INJURY
102	43	
103	44	CAUSE OF DEATH OF THE VICTIM WAS DROWNING.
104	44	HAVE HAD DIFFICULTY GETTING THEIR SEAT BELTS OFF
105	45	
106	45	OFF EIGHT OTHERS WERE INJURED
107	45	INTERNAL INJURIES, 8 OTHERS INJURED
108	46	99-234-009
109	46	
110	47	AN AMUSEMENT PARK.
111	47	LOOPS THAT TURN THEM UPSIDE DOWN AT AN AMUSEMENT PARK. 130386
112	48	COASTER WHILE RIDING IN THE CAR THAT SLIPPED BACKWARD AND CRASHED INTO ANOTHER CAR BEING LOADED TO BEGIN THE RID
112	49	COASTER WHILE RIDING IN THE CAR THAT SLIPPED BACKWARD AND CRASHED INTO ANOTHER CAR BEING LOADED TO BEGIN THE RID

RECORD	CASE	NARRATIVE 3
56	25	
57	25	
58	25	
59	25	
60	25	
61	25	
62	25	
63	26	
64	27	
65	27	HEMORRHAGE. THE VICTIM WAS PLACED ON LIFE SUPPORT AND DIED WITHIN 24 HOURS OF THE REMOVAL OF LIFE SUPPORT
66	28	
67	28	
68	28	
69	28	
70	29	
71	29	
72	30	
73	30	
74	30	
75	31	
76	31	PENDULUM IN OPPOSITE DIRECTIONS AS THE RIDE WAS OPERATING, THE 13 YEAR OLD GIRL PANICKED, AND SHE WIGGLED-OUT F
77	31	
78	31	
79	32	
80	32	
81	33	1293
82	33	OPERATOR HAD WARNED HER TO STAY SEATED THE VICTIM APPARENTLY FELL UNDER THE CAR AND WAS DRAGGED FOR 3/4 OF A R
83	33	
84	33	
85	34	1293
86	35	
87	36	1293
88	36	SUBDURAL HEMATOMA.
89	37	
90	37	
91	38	1293
92	38	OF DEATH OF THE 15 YEAR OLD VICTIM WAS SEVERE HEAD INJURIES.
93	38	
94	38	
95	39	
96	39	
97	40	
98	41	OFFICIALS FEEL THAT THE RIDE'S RESTRAINT SYSTEM DID NOT ADEQUATELY RESTRAIN THE VICTIM. THE RIDE HAS BEEN BANNED BY
99	41	
100	42	
101	42	
102	43	
103	44	
104	44	
105	45	
106	45	
107	45	
108	46	
109	46	
110	47	
111	47	
112	48	
112	49	

NARRATIVE 4

RECORD	CASE	
55	25	
57	25	
58	25	
59	25	
60	25	
61	25	
62	25	
63	26	
64	27	
65	27	
66	28	
67	28	
68	28	
69	28	
70	29	
71	29	
72	30	
73	30	
74	30	
75	31	
76	31	SHOULDER RESTRAINT, & SHE THEN GOT OUT OF THE CAR THROUGH A HOLE IN THE CAR'S TOP THE GIRL THEN FELL FROM THE
77	31	
78	31	
79	32	
80	32	
81	33	
82	33	RIDE COULD BE STOPPED SHE SUFFERED FATAL HEAD INJURIES
83	33	
84	33	
85	34	
86	35	
87	35	
88	35	
89	37	
90	37	
91	38	
92	38	
93	38	
94	38	
95	39	
96	39	
97	40	
98	41	DEVELOPMENT OF A MORE ADEQUATE RESTRAINT SYSTEM.
99	41	
100	42	
101	42	
102	43	
103	44	
104	44	
105	45	
106	45	
107	45	
108	45	
109	45	
110	47	
111	47	
112	48	
112	48	

Appendix C

Investigation Reports of Amusement Ride-Related Incidents from 1 Jan 1990 to 30 April 2000

Appendix C lists the 85 in-scope in-depth investigation (INDP) records of amusement ride-related incidents in CPSC files. Complete investigation reports are not provided in Appendix C due to space constraints.

Case	Task No	Date	State	City	Age	Sex	Disp	Dist	BdPt	Head	Eye	Fatal
1	900810CCN2316	04/14/90	MO	TROY	26	M	3	64	89	0	0	N
2	900607CNE3194	05/19/90	NI	TRENTON	3	F	4	57	75	1	0	N
3	900803CCN2193	07/12/90	MO	TROY	18	M	2	54	81	0	0	N
4	900808CEP9006	08/03/90	WI	MILWAUKEE	35	F	9	64	89	0	0	N
5	900827CBA1628	08/17/90	PA	SMETSPORT	14	F	1	33	76	0	0	N
6	900827CCN2309	08/25/90	MN	ST PAUL	U	U	1	71	85	0	0	N
7	900830CCN2342	08/27/90	MN	ST PAUL	16	M	1	59	88	0	0	N
8	910307CNE3107	02/22/91	FL	KISSIMMEE	12	F	4	53	31	0	0	N
9	910925CC2781	05/09/91	IN	MONROVIA	20	M	1	53	82	0	0	N
10	910703CCN1556	06/09/91	WI	MERRILL	27	M	1	53	80	0	0	N
11	910812CCN1901	07/01/91	KS	BELOIT	12	M	1	57	37	0	0	N
12	910729CBB2632	07/17/91	IL	PEORIA	7	M	4	62	31	0	0	N
13	910722CEP9012	07/18/91	IA	AVOCA	15	M	4	70	75	0	0	N
14	910801CCN1810	07/19/91	OH	LESOURDAVILLE	U	U	9	71	99	0	0	N
15	910723CCN1752	07/21/91	IL	MIDLOTHIAN	13	M	1	53	84	0	0	N
16	910828CCN2063	08/12/91	OH	COLUMBUS	U	U	1	53	75	0	0	N
17	910821CCN1992	08/20/91	MO	SEBALIA	12	M	3	52	75	1	0	N
18	930812CC2490	08/01/91	OK	OKLAHOMA CITY	U	F	1	53	79	0	0	N
19	911009CWE3008	09/11/91	AZ	LAKE HAVASUE CI	3	F	4	53	31	0	0	N
20	910930CCN2446	09/12/91	IN	EDINBURG	26	F	1	53	75	0	0	N
21	911031CWE5024	10/17/91	AZ	PHOENIX	10	M	4	53	89	0	0	N
22	911031CWE5023	10/22/91	AZ	PHOENIX	10	M	1	53	88	0	0	N
23	930810CC1559	07/03/92	ME	BATH	11	M	3	59	75	0	0	N
24	940721CC2639	07/15/92	OH	BRUNSWICK	22	M	1	66	76	0	1	N
25	921013CWE3008	07/24/92	CO	THORNTON	17	M	1	66	77	1	1	N
26	930730CWE6001	07/25/92	NM	TAOS	22	F	8	57	89	1	0	Y
27	930826CC1534	08/25/92	VA	RICHMOND	22	M	1	70	99	1	1	N
28	930304CWE7030	02/21/93	TX	HOUSTON	33	M	1	71	75	1	0	N
29	930308CWE7031	02/22/93	TX	GARLAND	0	0	0	71	99	0	0	N
30	930413CNE3115	04/07/93	PA	PHILADELPHIA	13	M	1	53	85	0	0	N
31	930919CWE7048	04/30/93	AR	CONWAY	13	F	1	46	82	0	0	N
32	930519CNE1340	05/13/93	PA	MASON TOWN	15	F	4	57	75	0	0	N
33	930607CWE7048	06/04/93	LA	NEW ORLEANS	6	M	4	51	76	0	0	N
34	930729CC1483	06/18/93	NJ	VINELAND	6	F	1	53	89	0	0	N
35	930819CCN2280	07/13/93	MI	HARRISON	39	F	4	57	31	0	0	N
36	930809CBB2486	08/04/93	MO	SPRINGFIELD	9	M	4	57	76	0	0	N
37	931206CNE5027	08/13/93	WV	LEWISBURG	21	M	1	66	77	0	1	N
38	930927CC3631	08/15/93	CA	UKIAH	U	F	1	53	75	1	0	N
39	930916CC1557	08/15/93	WV	LEWISBURG	29	M	1	70	77	0	1	N
40	930917CEP9010	09/04/93	OH	GLOUSTER	8	M	1	67	83	0	0	N
41	940818CCN2310	07/07/94	MI	NEW BUFFALO	10	M	4	57	75	1	0	N
42	940817CCN2199	07/14/94	WI	RIVER FALLS	9	F	1	57	79	0	0	N
43	940803CNE3177	07/26/94	PA	WEST PARK	U	U	1	70	87	0	0	N
44	940922CC7758	08/11/94	CT	MIDDLEBURY	6	M	8	54	87	0	0	Y
45	940730HC3398	08/11/94	CT	MIDDLEBURY	6	M	8	54	75	1	0	Y
46	940830CAE5024	08/27/94	CA	SACRAMENTO	4	M	4	70	75	1	0	N
47	940829CAA1716	08/28/94	MD	TIMONIUM	4	M	1	57	76	0	0	N
48	950522CC1679	05/14/95	NY	ROCHESTER	6	F	4	57	81	0	0	N
49	970424HCC1159	06/14/95	PA	ALLENTOWN	77	M	8	58	75	1	0	Y
50	950623CCN2264	06/23/95	IL	EVERGREEN PARK	18	F	4	52	75	0	0	N
51	951128CAA1197	11/25/95	FL	PALATKA	2	F	0	62	75	1	0	U
52	960731CNE5190	07/21/96	MA	AGAWAM	U	U	1	53	87	0	0	N
53	960819HCC5534	08/11/96	IN	THORNTOWN	57	F	8	62	75	1	0	Y
54	960819CCN1702	08/16/96	IL	SPRINGFIELD	13	F	8	53	85	0	0	Y
55	970328HC1056	08/19/96	NY	VERNON	52	M	8	71	85	0	0	Y
56	960828CCN1753	08/22/96	KS	PAOLA	5	M	1	53	76	0	0	N
57	961016HCC3702	09/14/96	MA	WEYMOUTH	8	F	4	72	75	0	0	N
58	970220CNE3083	02/07/97	FL	TAMPA	30	M	4	50	83	0	0	N
59	970409HCC3090	02/22/97	NV	LAS VEGAS	3	F	8	62	75	1	0	Y
60	970304CNE5090	03/01/97	FL	PLANT CITY	10	M	1	57	37	0	0	N
61	980204HCC0018	07/11/97	NJ	JACKSON	49	M	8	65	85	1	0	Y
62	981210CCN0075	10/01/97	TN	GATLINBURG	57	M	1	57	80	0	0	N
63	971117CNE5020	11/15/97	FL	HOLLYWOOD	5	F	1	57	92	0	0	N
64	980320CWE7133	03/19/98	TX	AUSTIN	15	F	8	62	75	1	0	Y
65	980708CNE3183	04/25/98	MA	WALPOLE	13	F	1	57	37	0	0	N
66	980601CAA0468	05/01/98	MA	MARBLEHEAD	10	M	1	53	92	0	0	N
67	980609CWE7164	05/13/98	TX	NOCONA	18	M	4	57	75	1	0	N
68	980720CCN0339	07/18/98	IL	LANSING	43	F	4	64	79	0	0	N
69	990923CC0749	07/25/98	VA	WILLIAMSBURG	48	2	4	66	75	1	0	N
70	980924HCC0726	08/08/98	NJ	BERGENFIELD	6	M	0	71	76	0	0	U
71	980902CWE5016	08/30/98	CA	MENDOTA	1	M	8	62	75	0	0	Y
72	990305CEP9003	09/05/98	MI	RIVER ROUGE	21	F	1	64	79	0	0	N
73	981023CC3028	09/28/98	AR	PINE BLUFF	28	F	4	57	79	0	0	N
74	990328HWE7187	03/21/99	TX	ARLINGTON	28	F	8	69	85	0	0	Y
75	990524HCC00310	05/23/99	MO	JENNINGS	16	2	4	53	75	0	0	N
76	990712CNE5304	05/27/99	MA	FRAMINGHAM	13	2	1	52	75	1	0	N
77	991021CNE5318	05/30/99	MA	FRAMINGHAM	34	1	0	70	99	0	0	N
78	990614CNE5191	06/11/99	NY	NEW YORK	17	F	8	70	85	0	0	Y
79	990803CEP9009	07/11/99	IL	BLOOMINGTON	7	3	1	53	75	1	0	N
80	990921CC0732	07/25/99	NY	WALKILL	12	1	0	64	89	0	0	N
81	990903HEP9005	08/25/99	CA	SACRAMENTO	22	2	1	71	85	1	0	N
82	990917CWE6003	09/13/99	CA	SANTA CRUZ	22	1	4	57	34	0	0	N
83	991104CNE51379	09/24/99	RI	LINCOLN	0	0	0	70	87	0	0	N
84	000327HCC0512	02/22/00	FL	DADE CITY	19	2	1	52	75	1	0	N
85	000407CNE5485	04/01/00	PA	PHILADELPHIA	0	1	1	53	87	0	0	N

Case	Narrative
1	A TWENTY SIX YEAR OLD MAN AND HIS THREE YEAR OLD SON SUFFERED INJURIES RESULTING FROM A FALL OUT OF A FERRIS WHEEL THE BAR THAT
2	A 3-1/2 YEAR OLD FEMALE SUSTAINED A FRACTURED SKULL AND A BROKEN LEFT LEG WHEN SHE FELL FROM AN AMUSEMENT RIDE AT A CARNIVAL DURING
3	TWO MALES AGES EIGHTEEN AND TWENTY SEVEN WERE INJURED WHILE ON A RIDE AT A CARNIVAL IN THEIR RURAL HOME TOWN THE RIDE WHICH TURNS
4	VICTIM WAS WITH AN OUT-OF-TOWN CHURCH GROUP VISITING A STATE FAIR DURING THE AFTERNOON THE 35 YR OLD FEMALE VICTIM WITH HER NOECE AND NEP
5	A METAL BAR APPROXIMATELY 10 FT LONG DETACHED FROM A SPINNING AMUSEMENT RIDE AND FLEW INTO A CROWD OF SPECTATORS THE BAR STRUCK
6	THIS INVESTIGATION INVOLVED AN AMUSEMENT RIDE AT THE STATE FAIR THE SPINNING RIDE WENT INTO OPERATION AND THE RIDE OPERATOR WASNT ABLE
7	THE ACCIDENT INVOLVED AN AMUSEMENT RIDE AT THE STATE FAIR A PASSENGER CAR (TUB) BROKE LOOSE FROM THE RIDES ROTATING ARM (SWEEP)
8	A 12 YOF SUSTAINED SPLEEN & OTHER INJURIES IN A MOBILE AMUSEMENT RIDE AT A FAIRGROUND WHEN THE RESTRAINT SYSTEM WAS DEFEATED AS THE VICTIM
9	A 20 YEAR-OLD MALE GOT HIS LEFT HAND CAUGHT BETWEEN 2 BACKBOARDS OF A CENTRIFUGAL FORCE CARNIVAL RIDE WHEN HE WAS ABLE TO REMOVE HIS HAND
10	TWO ADULTS AND ONE 8 YR OLD FEMALE WERE INJURED WHEN THE SEAT ON THE PORTABLE AMUSEMENT RIDE THEY WERE OCCUPYING BECAME DETACHED FROM ITS
11	A 13 YEAR OLD BOY SUSTAINED A FRACTURE TO HIS ANKLE WHILE RIDING A MOBILE AMUSEMENT RIDE AT A COUNTY FAIR A SEAT COMPONENT FELL
12	A 7 YEAR OLD MALE SUSTAINED INJURIES REQUIRING REMOVAL OF 1/3 OF HIS PANCREAS & A SECTION OF INTESTANT WHEN A RIDE AT A COUNTY FAIR
13	TWO TEENAGE FEMALE VICTIMS FELL FROM AN AMUSEMENT PARK RIDE FROM A HEIGHT OF ABOUT 10' CAUSING INJURY TO BOTH TEENS
14	TWO SEPERATE RIDES HAD EQUIPMENT FAILURES NO INJURIES OCCURRED IN ONE INCIDENT TWO CARS ON A ROLLERCOASTER BECAME UNCOUPLED IN THE
15	A 16 YEAR OLD MALE AND A 15 YEAR OLD FEMALE SUFFERED MINOR INJURIES WHEN AN AMUSEMENT RIDE IN WHICH THEY WERE RIDING COLLAPSED STATE
16	A FERRIS WHEEL SEAT CUSHION BECAME DISLODGED AND FELL ONTO TWO RIDERS IN THE SEAT BELOW ONLY BRUISES OCCURRED ON THE HEAD AND
17	A 12 YEAR OLD MALE AND FEMALE RECEIVED CRITICAL HEAD INJURIES WHEN AN AMUSEMENT RIDE AT A STATE FAIR MALFUNCTIONED A THIRD VICTIM 12 YEAR
18	TWO VICTIMS A MOTHER AND HER SON OF UNKNOWN AGES SUFFERED MINOR INJURIES WHILE RIDING AN AMUSEMENT RIDE THE MOTHER SUFFERED A
19	THE STABILIZING BAR HOLDING UP AN AIRPLANE ON A CHILDRENS AMUSEMENT RIDE BROKE CAUSING THE RIDE TO FALL TO THE GROUND TWO CHILDREN
20	A 26 YEAR OLD FEMALE FELL TO THE GROUND WHEN THE SAFETY BELT ON THE CARNIVAL RIDE ON WHICH SHE WAS RIDING CAME LOOSE
21	TWO GROUPS OF CARS ON A ROLLER COASTER RIDE WERE BEING KEPT STATIONARY AT CERTAIN POINTS OF THE RIDE THE RIDE BRAKEMAN
22	THE REAR BRAKEMAN ON A ROLLER COASTER RIDE INADVERTENTLY HELD OPEN THE INCOMING BRAKES IN THE STATION THIS ALLOWED AN INCOMING CAR TO
23	AN 11 YEAR OLD MALE SUSTAINED A LACERATION ON HIS HEAD WHEN HE WAS STRUCK BY A LOADBINDER WHICH SEPARATED FROM AN OVERHEAD CABLE OF A
24	THE 22 YEAR OLD MALE VICTIM SUSTAINED A BROKEN BLOOD VESSEL IN HIS SINUSES AFTER RIDING IN AN AMUSEMENT DEVICE THAT SPIN HIM AROUND
25	A 17 YEAR OLD BOY SUFFERED EYE HEMORRHAGE INJURY AFTER RIDING A MOBILE "GYROSCOPE" TYPE AMUSEMENT RIDE THE VICTIM ALSO SUFFERED
26	A 22 YEAR OLD FEMALE AND TWO OTHER YOUNG FEMALES WERE INJURED ON A MOBILE AMUSEMENT RIDE THE HIMALAYA WHEN A SAFETY LAP BAR APPARENTLY
27	A 22 YEAR OLD MALE COMPLAINED OF HEADACHE AND EYE IRRITATION AFTER RIDING IN A MANUALLY OPERATED AMUSEMENT RIDE AT A STATE FAIR THE
28	A 33 YEAR OLD MALE SUSTAINED MINOR DIZZINESS WHEN A AMUSEMENT RIDE "JUMPER" MALFUNCTIONED THE RESTRAINT BAR OF THE RIDES CAR WAS IN
29	ON FEBRUARY 22 1993 AN ADULT MALE CONSUMER REPORTED A POSSIBLE ENTRAPMENT OR CRUSHING HAZARD ASSOCIATED WITH A CHILD'S ELECTRIC
30	SEVERAL CHILDREN SUSTAINED BRUISES AND CONTUSIONS WHEN TWO CIRCULAR CARS OF A FOUR CAR AMUSEMENT RIDE SPINNING COUNTERCLOCKWISE BROKE
31	13 YEAR OLD GIRL WAS RIDING AN AMUSEMENT (CARNIVAL) RIDE WHEN THE RIDE HAD CONCLUDED THE VICTIM REACHED UP WITH HER ARMS AND
32	A 15 YEAR OLD GIRL SUFFERED FACIAL FRACTURES AND NERVE DAMAGE OF THE SHOULDER AREA IN AN ACCIDENT OF A BARREL-O-PUN AMUSEMENT RIDE AT A
33	THIS IDI INVOLVED A MOBILE AMUSEMENT RIDE THAT CAUGHT ON FIRE AS IT WAS OPERATING THE FIRE ORIGINATED IN THE RIDE'S MOTOR AREA A
34	FOUR CHILDREN AGES 6 TO 11 YEARS WERE SLIGHTLY INJURED WHEN THE CARS TO THE MERRY MIXER AMUSEMENT RIDE THEY WERE IN AT THE TIME
35	A 19 YEAR OLD FEMALE & HER 9 YEAR OLD DAUGHTER WERE RIDING ON THE OCTOPUS AMUSEMENT RIDE AT A COUNTY FAIR A "COTTER KEY" THAT HELD A
36	A 9 YEAR OLD MALE RECEIVED A FRACTURED NOSE WHEN A METAL FLAP BAR ON AN AMUSEMENT RIDE CAME OPEN AND HE WAS THROWN OUT OF THE CAR
37	A 21 YEAR OLD MALE SUFFERED HEMORRHAGING OF BOTH EYES WHILE RIDING ON AN ONE PERSON CAPACITY AMUSEMENT RIDE AT A STATE FAIR THE RIDE WAS
38	A TEEN-AGED GIRL SUFFERED A "BUMP ON HER HEAD" WHEN A MOBILE AMUSEMENT RIDE STOPPED ABRUPTLY THE MAIN DRIVE CHAIN BROKE CAUSING
39	A 29 YEAR OLD MALE SUFFERED A RETINAL TEAR CONJUNCTIVAL HEMORRHAGING AND OTHER INJURIES WHILE RIDING ON A ONE PERSON CAPACITY HAND POWERED
40	RESPONDENTS WERE THE VICTIM AND HIS FATHER VICTIM WAS AT A CARNIVAL WITH HIS FATHER IN HIS HOMETOWN AS VICTIM WAS GETTING OFF A
41	A 10 YEAR OLD BOY WAS HOSPITALIZED FOR A HAIRLINE SKULL FRACTURE THAT HE RECEIVED AFTER BEING THROWN FROM A TIP TOP AMUSEMENT RIDE AT A
42	TWO FEMALES AGES 6 & 9 WERE INJURED WHEN THEY FELL APPROX 20 FEET FROM A FERRIS WHEEL SEAT THE RIDE WAS PART OF A TRAVELING CARNIVAL
43	13 PERSONS WERE TREATED AND RELEASED FOR MINOR INJURIES RESULTING FROM AN AMUSEMENT RIDE ACCIDENT AT A CARNIVAL THE ACCIDENT OCCURRED
44	A 6 YEAR OLD MALE DIED WHEN HE BECAME ENTRAPPED BENEATH A RIDE THAT GOES IN CIRCLES AT AN AMUSEMENT PARK IT IS BELIEVED THAT AS HE WAS
45	6 YEAR OLD MALE SUSTAINED FATAL CRUSHING INJURY TO THE HEAD WHILE TRYING TO EXIT AN AMUSEMENT RIDE WHEN ANOTHER CHILD PUSHED THE START
46	A FOUR YEAR OLD CHILD SUFFERED A BROKEN LEG AND SPINAL HEAD AND FACIAL INJURIES WHEN HE FELL OUT OF A FERRIS WHEEL CHAIR STATE
47	IT IS BELIEVED BY INSPECTORS FROM THE STATE OF MARYLAND THAT AN AMUSEMENT RIDE AT THE STATE FAIR HAD BEEN VANDALIZED BY PERSON(S)
48	THREE CHILDREN AGES 6 YEARS 4 YEARS AND 22 MONTHS WERE INJURED ON AN AMUSEMENT RIDE AT A FESTIVAL THE 6 YEAR OLD SUSTAINED A COMPOUND
49	A 77 YEAR OLD MALE WAS AT AN AMUSEMENT PARK WITH HIS GRANDCHILDREN THE VICTIM'S HEAD WAS BUMPED BY A ROLLER COASTER RIDE HE DID NOT
50	THIS INVESTIGATION WAS INITIATED FROM A NEWSPAPER ARTICLE WHICH STATED THAT SIX PEOPLE WERE INJURED WHEN A FERRIS WHEEL CAR BROKE
51	A 2 YEAR OLD FEMALE FELL APPROXIMATELY 14 FEET THROUGH AN OPENING BETWEEN THE STEPS AND SUPPORT TRUSS RAILS OF A MOBILE AMUSEMENT SLIDE
52	16 PASSENGERS ON A FIXED SITE AMUSEMENT RIDE SUSTAINED CONTUSIONS NECK OR BACK INJURIES WHEN THE OPERATOR STOPPED THIS RIDE BY
53	A 57 YEAR OLD FEMALE DIED OF HEAD INJURIES AND A 4 YEAR OLD FEMALE SUSTAINED SEVERE HEAD INJURIES WHEN TWO CARS OF A FIXED SITE
54	THIS INVESTIGATION REVEALED THAT ON 8/16/96 AT APPROXIMATELY 7 15 PM A 13 YEAR OLD DEVELOPMENTALLY DISABLED GIRL WAS WITH A
55	A 32-YEAR OLD MALE INJURED HIS KNEE ON A RIDE AT AN AMUSEMENT PARK AND DIED 3 DAYS LATER FROM PULMONARY THROMBOEMBOLISM
56	THE INVESTIGATED INCIDENT INVOLVED A KIDDIE MOBILE AMUSEMENT RIDE A FIVE YEAR OLD BOY WAS SITTING IN THE FRONT SEAT OF ONE OF THE RIDE S
57	WHILE RIDING ON A FIXED SITE AMUSEMENT RIDE AN 8 YEAR OLD FEMALE HAD HER SCALP RIPPED OFF WHEN HER HAIR FELL INTO THE MOTOR ON THE BACK
58	A 30 YEAR OLD MALE SUFFERED A 90% AMPUTATION OF HIS FOOT WHEN HE WAS EJECTED FROM HIS SEAT ON THE MOBILE RIDE AT THE STATE FAIRGROUND
59	A 3 YEAR OLD GIRL WAS RIDING IN A FIXED ROTATING AMUSEMENT PARK RIDE SHE WAS IN A CAR WITH A SIX YEAR OLD CHILD THE SINGLE LAP
60	AN 8-YEAR OLD MALE AND HIS 10-YEAR OLD BROTHER WERE RIDING AN AMUSEMENT RIDE AT A LOCAL FAIRGROUND THEY WERE THROWN FROM THEIR
61	A 49 YEAR OLD MALE ALLEGEDLY SUFFERED A HEAD INJURY ON AN AMUSEMENT PARK RIDE WHICH CAUSED INJURY TO THE BRAIN WITH NO EXTERNAL SIGNS
62	THE OWNER OF AN AMUSEMENT RIDE A 37 YEAR OLD MALE SUSTAINED A DISPLACED SHOULDER AND FRACTURES TO HIS RIGHT ARM WHEN HE GRABBED
63	ON 11-15-97 A NON-FIXED SITE / MOBILE MECHANIZED SWING AMUSEMENT RIDE TOPPLED OVER ONTO THE GROUND DURING OPERATION AT A WEEKEND
64	THREE VICTIMS INCLUDING A 15 YEAR OLD FEMALE A 16 YEAR OLD FEMALE AND A NINE YEAR OLD MALE WERE RIDING AN AMUSEMENT RIDE WHEN THEY
65	A 15 YEAR OLD FEMALE SUSTAINED A BROKEN RIGHT ANKLE AFTER BEING THROWN FROM AN AMUSEMENT RIDE WHEN THE SAFETY LAP BAR FAILED WHILE
66	A 10 YEAR OLD MALE SUSTAINED SMALL SCRAPES TO HIS KNUCKLES AFTER FALLING TO THE GROUND WHEN THE OPERATOR OF AN AMUSEMENT RIDE
67	THE VICTIM AN 18 YEAR OLD MALE WAS EJECTED FROM HIS SEAT ON AN AMUSEMENT RIDE WHILE IT WAS IN FULL MOTION THE VICTIM WAS STRUCK IN
68	AN AMUSEMENT RIDE ACCIDENT OCCURRED WHEN ONE CAR HIT THE RIDE STRUCTURE AND TURNED UPSIDE DOWN AND SEVERAL CARS THEN FIRED INTO
69	A 49 YEAR OLD MALE ALLEGEDLY SUFFERED A HEAD INJURY ON AN AMUSEMENT PARK RIDE WHICH CAUSED INJURY TO THE BRAIN WITH NO EXTERNAL SIGNS
70	SIX PEOPLE HAD TO BE RESCUED FROM A FERRIS WHEEL WHEN THE RIDE MALFUNCTIONED AND STRANDED RIDERS IN CARRIAGES OFF THE GROUND
71	A 13 MONTH OLD MALE VICTIM STOOD UP ON HIS SEAT OF A KIDDIE TRAIN MOBILE AMUSEMENT RIDE AS THE RIDE OPERATOR STARTED THE TRAIN AND
72	THE 31 YEAR OLD FEMALE VICTIM SUFFERED CONTUSIONS AND ABRASIONS TO HER LOWER TRUNK AFTER RIDING IN AN AMUSEMENT RIDE AT A FAIR WHICH
73	A 31 YEAR OLD WOMAN INCURRED SEVERAL FRACTURES TO HER LEGS BACK AND PELVIC AREA WHEN SHE WAS THROWN FROM A CHAIR SEAT OF AN AMUSEMENT
74	A 28 YEAR OLD FEMALE VICTIM DIED AND TEN OTHER INDIVIDUALS WERE INJURED WHEN A FIXED AMUSEMENT RIDE'S RAFT CAPSIZED THE OFFICIAL
75	TWO FEMALES AGES 16 AND 20 AND A 17 YEAR OLD MALE WERE INJURED WHEN THE LAP BAR TO AN AMUSEMENT CAR RIDE IN WHICH THEY AND ANOTHER 17
76	A 10 YEAR OLD BOY WAS HOSPITALIZED FOR A HAIRLINE SKULL FRACTURE THAT HE RECEIVED AFTER BEING THROWN FROM A TIP TOP AMUSEMENT RIDE AT A
77	THE 34-YEAR OLD MALE AND 33-YEAR OLD FEMALE VICTIMS WERE UNINJURED WHEN THE RESTRAINING BAR FOR THEIR SEAT ON A MOBILE AMUSEMENT RIDE
78	ONE DIED AND 8 WERE INJURED IN ACCIDENT INVOLVING HIMALAYA RIDE AT CONEY ISLAND PARK
79	A 3-1/2 YEAR OLD FEMALE SUSTAINED A FRACTURED SKULL AND A BROKEN LEFT LEG WHEN SHE FELL FROM AN AMUSEMENT RIDE AT A CARNIVAL DURING
80	A 12 YEAR OLD MALE AND A 13 YEAR OLD FEMALE RECEIVED NECK AND BACK INJURIES WHEN THE ROLLER COASTER CAR THEY WERE RIDING IN WAS HIT
81	A 33 YEAR OLD MALE SUSTAINED MINOR DIZZINESS WHEN A AMUSEMENT RIDE JUMPER MALFUNCTIONED THE RESTRAINT BAR OF THE RIDES CAR WAS IN
82	A MENTALLY HANDICAPPED 22 YEAR OLD MALE RIDING A TRAVELING TYPE AMUSEMENT RIDE KNOWN AS THE ORBITER BECAME FRIGHTENED AND SCREAMED
83	THERE WERE NO INJURIES WHEN A 10 YEAR OLD BOY HIS MOTHER AND 2 OTHER TEN YEAR OLD BOYS WERE STOPPED AT THE TOP OF A MOBILE
84	A 19 YR OLD FEMALE SUFFERED A SEVERE CONCUSSION WHEN SHE WAS TOSSED AROUND THE CAR OF AN AMUSEMENT PARK RIDE SHE HAS CONTINUED TO HAVE
85	A MECHANICAL MALFUNCTION OCCURRED DURING THE OPERATION OF A SWING RIDE AT A CARNIVAL SITE FOUR PEOPLE WERE INJURED DURING THE

Case	Narrative (continued)
1	WAS SUPPOSED TO LATCH THEM IN BECAUSE OPENED AT TWENTY FEET IN THE AIR THE TWO PEOPLE FELL TO THE GROUND AND WERE IMMEDIATELY TAKEN
2	OPERATION OF THE RIDE THE VICTIM WAS SEATED IN A CAR WITH HER 70 YEAR OLD GRANDFATHER AT THE TIME WHEN HER GRANDFATHER LIFTED HER UP
3	AT 160 DEGREE REVOLUTIONS AND HAS TWO CARS AT 180 DEGREES APART ON ONE METAL ARM BEGAN TO BEND AND BUCKLE SENDING ONE OF THE CARS
4	HEW WERE RIDING IN ONE TUB OF A LEVEL AMUSEMENT RIDE CONSISTING OF 3 OR 4 TUBS MOUNTED ON A CIRCULAR SPINNING HUB ALL RIDERS HAD SAFETY
5	THREE 14 YEAR OLD GIRLS IN THE CROWD ALL THREE GIRLS SUFFERED BODY BRUISES TWO OF THE GIRLS WERE EXAMINED AT A LOCAL HOSPITAL ONE
6	TO STOP IT BECAUSE OF A PROBLEM WITH THE ELECTRIC MOTOR THAT DRIVES THE HYDRAULIC SYSTEM FORTY RIDERS WERE KEPT SPINNING IN THE AIR FOR
7	AS THE DISC SHAPED PLATFORM WAS ROTATING IN THE OPPOSITE DIRECTION THE CAR SLIDE ACROSS THE PLATFORM COMING TO REST AGAINST THE FENCE
8	ATTEMPTED TO GET OUT OF THE RIDE AS IT WAS IN MOTION THE VICTIM WAS THROWN OUT THE CAR AND SUFFERED SPLEEN RIBS AND LUNG INJURIES IN
9	AFTER THE RIDE HAD STOPPED HE NOTICED THAT IT WAS ABRAISED AND SWOLLEN
10	SUPPORT ARMS A DEFECTIVE WELD ON THE SEAT SUPPORT IS BELIEVED TO BE THE CAUSE OF THE ACCIDENT THE THREE VICTIMS WERE TAKEN TO A
11	DOWN EXPOSING THE VICTIMS FEET/ANKLES TO THE MOVING METAL SUPPORT ARM THE SUPPORT ARM AND THE SEAT COMPONENT WHICH FELL DOWN
12	MAI FUNCTIONED AND STOPPED SUDDENLY CAUSING HIM TO BE THROWN FORWARD AGAINST THE RESTRAINING BAR
13	
14	OTHER INCIDENT AN UNOCCUPIED GONDOLA CAR ON A SKY RIDE FELL 25 FEET TO THE GROUND
15	INVESTIGATORS DETERMINED THAT AN "R" KEY SECURING A YOKE AND PIN SUPPORTING A RIDE COMPONENT FAILED THIS ALLOWING THE CAR IN WHICH
16	SHOULDER AREAS OF ONE INDIVIDUAL
17	OLD FEMALE WAS HOSPITALIZED WITH A BROKEN JAW AND A 19 YEAR OLD FEMALE WAS HOSPITALIZED FOR A HEAD INJURY THREE OTHER CHILDREN
18	CONUSION TO THE LOWER ABDOMEN AND RIGHT HIP AND THE SON SUFFERED A CONUSION TO THE RIGHT KNEE INSPECTION OF THE AMUSEMENT RIDE BY
19	SUFFERED MINOR INJURIES WHEN THE TOY AIRPLANE IN WHICH THEY WERE RIDING SLAMMED INTO THE SUPPORT FRAME OF THE RIDE
20	
21	INADVERTENTLY RELEASED THE BRAKE HOLDING ONE OF THE SETS OF CARS THAT CAR ROLLED ALONG THE TRACK AND STRUCK A SECOND SET OF CARS WHICH
22	GO INTO THE STATION WITHOUT SLOWING DOWN THIS IT BUMPED ANOTHER CAR WHICH WAS UNLOADING PASSENGERS
23	FERRIS WHEEL NO PERMANENT INJURIES RESULTED FROM THIS ACCIDENT
24	THE WHITES OF HIS EYES WERE RED AND HE WAS BLEEDING FROM THE NOSE AND SPITTING UP BLOOD HE WENT TO THE EMERGENCY ROOM WHERE HE WAS
25	BLURRED VISION HEADACHES AND BLACK EYES BELIEVED TO BE CAUSED BY THE GRAVITATIONAL FORCE GENERATED BY THE SPACEBALL RIDE
26	RELEASED WHILE THE RIDE WAS IN OPERATION AND THEY WERE EJECTED THE RIDE ROTATED ABOUT A CENTRAL MOTOR OVER A CIRCULAR TRACK SURROUNDED
27	RIDE TWIRLED BY HAND BY THE RIDE ATTENDANT USES THE WEIGHT AND FORCE OF THE RIDER TO SPIN THE PLASTIC GLOBE RIDE VICTIM DIZZY AND
28	THE DOWN AND LOCK POSITION WHEN THE CAR ELEVATED ABRUPTLY APPROXIMATELY 10 FEET IN THE AIR PROBABLE PRODUCT MALFUNCTION AND
29	AMUSEMENT RIDE THIS AMUSEMENT RIDE WAS LOCATED IN THE PLAY AREA OF A RESTAURANT NO INJURIES OCCURRED
30	LOOSE FROM ITS CENTER SPINDLE THE TWO CARS LANDED APPROXIMATELY 4 FT. FROM THE RIDE
31	EXTENDED HANDS AND TOUCHED A STRING OF ELECTRIC LIGHTS THAT WAS STRUNG ACROSS THE TOP METAL BAR OF THE RIDE SHE WAS BURNED BY
32	LOCAL CARNIVAL THE VICTIM WAS THROWN OR FELL FROM HER SEAT DURING THE OPERATION OF THE RIDE AND BECAME TRAPPED BETWEEN THE SEAT AND
33	TOTAL OF 24 RIDERS WERE INJURED WITH VARIOUS THERMAL BURNS
34	SUDDENLY DROPPED AND CAME IN CONTACT WITH THE BASE OF THE RIDE INVESTIGATION FOUND THAT TWO NUTS HAD NOT BEEN SECURED TO THE SHAFT
35	LARGE CYLINDRICAL PIN IN PLACE THAT HELD THE END OF THE ARM ONTO THE "ECCENTRIC" OF THE AMUSEMENT RIDE FELL OUT OF PLACE THIS ACTION
36	ONTO A RIDE EMPLOYEE VICTIM WAS TAKEN TO A HOSPITAL AND KEPT OVER NIGHT FOR OBSERVATION THE RIDE OWNER HAS ALL LAP BARS CHAINED
37	MANUALLY POWERED BY THE RIDE OPERATOR AT A HIGH RATE OF SPEED THE VICTIM RECOVERED FROM HIS INJURIES WITHIN 3 WEEKS
38	THE APPARATUS TO STOP NO MEDICAL ATTENTION WAS REQUIRED
39	AMUSEMENT RIDE THE MOTION OF THE RIDE SPIN THE VICTIMS BODY AT A HIGH RATE OF SPEED THE VICTIM HAS RECOVERED FROM HIS EYE INJURIES
40	HELICOPTER RIDE HE TOUCHED THE RIDE FENCE SUFFERING AN ELECTRIC SHOCK TO ALL PARTS OF BODY VICTIM WAS TAKEN TO THE HOSPITAL
41	CHURCH CARNIVAL RIDE USERS ARE NOT ALLOWED TO STAND IN THE CARS TO THE RIDE AND THE RIDE OPERATOR HAD PREVIOUSLY WARNED THE VICTIM NOT
42	AT A COMMUNITY FAIR INVESTIGATING OFFICIALS DETERMINED THAT THE RIDE HAD BEEN IMPROPERLY SET UP CAUSING THE SEAT TO TILT FORWARD AND
43	WHEN A HOLD DOWN STAKE FROM THE RIDE'S DRIVE TRAIN LOOSENED FROM THE GROUND AND BECAME ENTANGLED IN A DRIVE CABLE CAUSING THE RIDE TO AN
44	EXITING THE CAR HE WAS SEATED IN SOMEBODY STARTED THE RIDE MOVING HE WAS SWEEP BENEATH THE ARM THAT THE CAR EXTENDED FROM
45	BUTTON WHICH HE STARTED THE RIDE AND THE SWEEP OF THE RIDE CAUGHT AND DRAGGED THE VICTIM
46	AUTHORITIES CONCLUDED THE ATTENDANT FAILED TO PROPERLY SECURE THE SAFETY LAP BAR
47	UNKNOWN PRIOR TO THE ACCIDENT INVOLVING TWO CHILDREN FOUR AND THREE YEARS OF AGE THESE BOYS WERE RIDING ON THE RIDE WHEN THE "TUB" CAR
48	FRACTURE TO HER LEFT FEMUR THE OTHER TWO CHILDREN WERE TREATED AND RELEASED THE SIDE CAME UNSECURED FROM ITS MOORING ON A GUSTY DAY
49	SEEK MEDICAL TREATMENT 4 DAYS LATER THE VICTIM BECAME ILL AND LAPSED INTO A COMA HE WAS ADMITTED TO THE HOSPITAL WITH A BRAIN
50	LOOSE STRUCK A CAR BELOW IT AND THEN WEDGED AGAINST SUPPORTS THE INVESTIGATION REVEALED THAT ON 06/22/93 AT APPROX 11:15 PM A FERRIS
51	RIDE THE VICTIM FELL ONTO A STEEL HYDRAULIC TANK ON THE TRANSPORT TRAILER SECTION OF THE RIDE THE VICTIM DIED THE NEXT DAY OF HEAD
52	PRESSING AN EMERGENCY BUTTON AFTER HEARING A THUMPING SOUND AMANATING FROM THIS RIDE WHICH WAS SUBSEQUENTLY FOUND TO BE CAUSED
53	AMUSEMENT RIDE TRAIN OVERTURNED SPILLING THE RIDERS ONTO THE GROUND
54	COUNSELOR AND THEY WERE RIDING AN AMUSEMENT RIDE AT A STATE FAIR WHICH LOOKS SIMILAR TO TWO HAMMERS THAT APPARENTLY SWING LIKE A
55	
56	SPACE CAPSULES HE WAS ALONE IN THIS OPEN CAPSULE AFTER MAKING SEVERAL REVOLUTIONS THE METAL ARM SUPPORTING THE VICTIMS SPACE
57	OF HER SEAT THE DOCTORS UNSUCCESSFULLY ATTEMPTED TO REATTACH HER SCALP AND THE VICTIM WILL HAVE A PERMANENT DISFIGUREMENT
58	THE VICTIM STATED THAT HE WAS SEATED ALONE ON THE INSIDE OF THE SEAT WITH BOTH FEET ON THE FLOORBOARD AND THE LAP BAR IN PLACE WHEN HE
59	BAR IN THE CAR WAS DESIGNED TO RESTRAIN THE LARGEST OCCUPANT THE VICTIM HAD BEEN STANDING UP WHILE THE RIDE WAS IN MOTION THE
60	SEATS TO THE BOARDWALK WHEN THE LAP BAR SEPARATED FROM THE RIDE CAR AT THE JUNCTION OF THE LAP BAR/PIVOT ATTACHMENT ONE VICTIM
61	ON HIS WAY HOME HE DETERIORATED AND WAS TAKEN TO A HOSPITAL WHERE HE DIED THE NEXT DAY OFFICIAL CAUSE OF DEATH WAS COMPLICATIONS OF
62	THE "TRICYCLE" PORTION OF HIS AMUSEMENT RIDE IN AN ATTEMPT TO STOP IT THE INCIDENT OCCURRED WHEN A CUSTOMER A 30 YEAR OLD FEMALE
63	FESTIVAL AT A CITY PARK SEVERAL OF THE 12 RIDERS CONSISTING OF 2 ADULTS (17M 28E) AND 10 CHILDREN (16F 14F 12F 8M 6F 3F
64	WERE EJECTED FROM THEIR CAR THE 13 YEAR OLD FEMALE WAS PRONOUNCED DOA AND THE OTHER TWO VICTIMS WERE TREATED AND RELEASED THE CAUSE
65	THE RIDE WAS IN OPERATION
66	RELEASED THE SAFETY BAR TO THE RIDE BEFORE THE RIDE CAME TO A COMPLETE STOP
67	THE BACK OF THE HEAD BY EITHER ANOTHER SEAT OR THE FRAME OF THE RIDE THE VICTIM RECEIVED SERIOUS HEAD INJURIES AND WAS RUSHED TO A
68	IT 4 PASSENGERS ON THE RIDE WERE INJURED THE CAUSE WAS FOUND TO BE A MISSING R KEY AND A RESULTING BROKEN OR MISSING CONNECTOR PIN
69	ON HIS WAY HOME HE DETERIORATED AND WAS TAKEN TO A HOSPITAL WHERE HE DIED THE NEXT DAY OFFICIAL CAUSE OF DEATH WAS COMPLICATIONS OF
70	THERE WERE NO INJURIES
71	THE VICTIM FELL OUT OF HIS SEAT AND WAS RUN OVER BY THE NEXT TRAIN CAR THE VICTIM WAS PRONOUNCED DEAD AT THE HOSPITAL INVESTIGATING
72	WAS MISSING THE PROPER RESTRAINTS SHE WAS TRANSPORTED TO THE HOSPITAL TREATED AND RELEASED
73	PARK RIDE SHE WAS HOSPITALIZED FOR OVER A WEEK AND UNDERWENT SURGERY
74	CAUSE OF DEATH OF THE VICTIM WAS DROWNING
75	YEAR OLD MALE WERE RIDING IN RELEASED THE FIRST THREE VICTIMS WERE THROWN TO THE GROUND THE 4TH RIDER HELD ON UNTIL THE RIDE STOPPED
76	CHURCH CARNIVAL RIDE USERS ARE NOT ALLOWED TO STAND IN THE CARS TO THE RIDE AND THE RIDE OPERATOR HAD PREVIOUSLY WARNED THE VICTIM NOT
77	OPENED THE FERRIS WHEEL WAS STOPPED WITH THE VICTIMS SEAT IN THE TOPMOST POSITION THE LAP BELT HELD THE VICTIMS IN PLACE UNTIL THE
78	
79	OPERATION OF THE RIDE THE VICTIM WAS SEATED IN A CAR WITH HER 70 YEAR OLD GRANDFATHER AT THE TIME WHEN HER GRANDFATHER LIFTED HER UP
80	FROM BEHIND BY ANOTHER ROLLER COASTER CAR THE 13 YEAR OLD FEMALE WAS TREATED AND RELEASED FROM A LOCAL HOSPITAL
81	THE DOWN AND LOCK POSITION WHEN THE CAR ELEVATED ABRUPTLY APPROXIMATELY 10 FEET IN THE AIR PROBABLE PRODUCT MALFUNCTION AND
82	FREE FROM THE SECURITY BAR WHILE IN MOTION HE WAS THROWN FROM THE RIDE AND LANDED ON HIS SIDE ON A HARD SURFACE HE SUFFERED A BROKEN
83	AMUSEMENT RIDE FOR APPROXIMATELY 1 1/2 HOURS THE RIDE WAS STOPPED BY THE OPERATOR WHEN A STABILIZING ROD WHICH LIMITS THE VEHICLES
84	SEVERE HEADACHES DIZZINESS AND MEMORY LOSS AS A RESULT OF THIS INCIDENT
85	INCIDENT

Case	Narrative (continued)
1	TO THE HOSPITAL BY AN AMBULANCE THE INCIDENT HAPPENED AT A CARNIVAL IN A PARKING LOT OF A SHOPPING CENTER
2	ABOVE THE RESTRAINING BAR SO SHE COULD SEE BETTER AT THE SAME TIME THE CAR BEGAN TO SPIN EJECTING THE VICTIM TO THE GROUND SHE WAS
3	DOWNWARDS THE EIGHTEEN YEAR OLD SUFFERED A WHIPLASH OF HIS NECK
4	HANDLEBARS TIGHTLY HELD DOWN THE RIDE STARTED UP AND ON THE 3RD TIME AROUND CAME LOOSE THE TUB CAME OFF WHEN THE PIN SECURING IT TO THE
5	GIRL DID NOT SEEK ANY MEDICAL TREATMENT
6	ALMOST 30 MINUTES UNTIL THE RIDE WAS MANUALLY LOWERED THERE WERE 23 PEOPLE TREATED FOR NAUSEA INCLUDING TWO THAT WENT TO A HOSPITAL AND
7	THAT SURROUNDS THE RIDE ONE PASSENGER SUFFERED A CUT LIP (MINOR)
8	THE MISHAP
9	
10	HOSPITAL EMERGENCY ROOM WHERE THEY WERE TREATED AND RELEASED STATE OF WI IS INVESTIGATING AND WILL MONITOR REPAIRS BY THE RIDE OWNER
11	APPARENTLY STRUCK HIS ANKLE RESULTING IN THE FRACTURE
12	
13	
14	
15	THE VICTIMS WERE RIDING TO FALL TO THE GROUND
16	
17	RECEIVED MINOR INJURIES A RIDE PANEL WHERE THE THREE MOST SERIOUSLY HURT VICTIMS WERE RIDING CAME OFF THE RIDE WHEN A FLOORPIN AND FLOOR
18	STATE OFFICIALS REVEALED THE IMPROPER INSTALLATION OF A MECHANICAL DEVICE CAUSED THE RIDE TO FAIL AND RESULT IN THE INCIDENT
19	
20	
21	WERE BEING HELD ON AN ANTI-ROLLBACK SECTION OF THE TRACK ALL 14 PASSENGERS ON THE CARS WERE SENT TO THE HOSPITAL FOR TREATMENT OF
22	
23	
24	EXAMINED AND RELEASED
25	
26	BY A RAILED WALKWAY THE VICTIMS WERE DRAGGED ALONG THIS WALKWAY STRIKING THEIR HEADS
27	NASEOUS AFTER THE RIDE WAS SEEN AT A LOCAL MEDICAL FACILITY AND RELEASED WITH NO INJURY DETERMINED
28	OPERATOR ERROR CONTRIBUTED TO THIS INCIDENT
29	
30	
31	THE ELECTRICAL WIRE OF THE LIGHT SET SHE WAS TAKEN TO ER OF NEARBY HOSPITAL AND TREATED FOR 2ND DEGREE BURN ON HIS HAND
32	THE RIDE'S OUTER WALL THE VICTIM RECOVERED FROM HER FRACTURE INJURIES AND IS UNDERGOING PHYSICAL THERAPY FOR THE NERVE INJURY AN
33	
34	HOLDING THE JOD OF CARS SENDING IT TO THE GROUND THE OPERATOR WAS CITED FOR FAILURE TO PROPERLY ASSEMBLE THE RIDE
35	CAUSED THE STEEL PIN TO DROP AND THE ARM & CAR FELL TO THE GROUND THE 39 YEAR OLD VICTIM SUFFERED A FRACTURED NECK & BACK SHE WAS
36	DOWN AT HIS TIME THE RIDE WAS IN REVERSE WHEN THE ACCIDENT OCCURRED THE RIDE WILL NOW ONLY OPERATE IN THE FORWARD DIRECTION
37	
38	
39	SINCE THE ACCIDENT THE VICTIM IS UNDERGOING TREATMENT TO DETERMINE THE CAUSE OF AN EQUILIBRIUM PROBLEM RESULTING FROM THE ACCIDENT THE
40	EMERGENCY ROOM HE WAS OBSERVED FOR AN (1) HOUR AFTERWARD HE WAS TREATED & RELEASED WITHOUT ANY FURTHER MEDICAL TREATMENT
41	TO STAND IN THE CAR AFTER HE (OPERATOR) STOPPED THE RIDE WHEN THE VICTIM STOOD IN THE CAR THE SECOND TIME THE OPERATOR ATTEMPTED TO
42	THE LAP BAR TO RELEASE BOTH VICTIMS WERE TREATED AND RELEASED FROM A LOCAL HOSPITAL
43	ABRUPT STOP
44	
45	
46	
47	FELL FROM THE MAIN FRAME OF THE RIDE NEITHER BOY RECEIVED PERMANENT INJURIES HOWEVER ONE RECEIVED A BROKEN NOSE AND THE OTHER FACIAL
48	CAUSING IT TO BE LIFTED OFF THE GROUND TO A VERTICAL POSITION THE CHILDREN AND THE RIDE WERE CATAPULTED INTO A NEARBY TREE
49	HEMORRHAGE THE VICTIM WAS PLACED ON LIFE SUPPORT AND DIED WITHIN 24 HOURS OF THE REMOVAL OF LIFE SUPPORT
50	WHEEL AT A CHURCH CARNIVAL WAS ROTATING IN A COUNTERCLOCKWISE DIRECTION WHEN IT STRUCK A METAL RACKING SUPPORT TOWER ON THE
51	INJURIES ASSOCIATED WITH THE FALL THE RIDE WAS BEING OPERATED ON A LOCAL FAIRGROUND SITE AT THE TIME OF THE INCIDENT
52	BY A FRACTURED RAIL OF THIS RIDE
53	
54	PENDULUM IN OPPOSITE DIRECTIONS AS THE RIDE WAS OPERATING THE 13 YEAR OLD GIRL PANICKED AND SHE WIGGLED-OUT FROM UNDER HER
55	
56	CAPSULE DROPPED OF FELL ABOUT 3-7 FEET TO THE GROUND BEFORE THE OPERATOR COULD STOP THE RIDE THE VICTIM SEAT RESTRAINED IN THE
57	
58	WAS EJECTED CAUSING HIS FOOT TO CONTACT THE UPRIGHT SUPPORT ON THE RIDE BOARDWALK
59	OPERATOR HAD WARNED HER TO STAY SEATED THE VICTIM APPARENTLY FELL UNDER THE CAR AND WAS DRAGGED FOR 3/4 OF A REVOLUTION BEFORE THE
60	SUSTAINED A BROKEN ANKLE THE OTHER A BROKEN LEG
61	SUBDURAL HEMATOMA
62	LOST CONTROL OF THE "BICYCLE" AND BEGAN TO TRAVEL BACKWARDS ON THE AMUSEMENT RIDE TRACK THE CUSTOMER SUSTAINED ABRASIONS TO LOWER
63	IF 2F 3F) ON THE RIDE SUFFERED INJURIES RANGING FROM NECK / BACK STRAINS CONTUSIONS TO ARMS / LEGS TO ONE VICTIM WHO SUFFERED A
64	OF DEATH OF THE 13 YEAR OLD VICTIM WAS SEVERE HEAD INJURIES
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67	NEARBY HOSPITAL THE VICTIM IS NOW IN REHABILITATION TO RECOVER HIS HEALTH
68	
69	SUBDURAL HEMATOMA
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71	OFFICIALS FEEL THAT THE RIDE'S RESTRAINT SYSTEM DID NOT ADEQUATELY RESTRAIN THE VICTIM THE RIDE HAS BEEN BANNED BY THE STATE PENDING
72	
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75	
76	TO STAND IN THE CAR AFTER HE (OPERATOR) STOPPED THE RIDE WHEN THE VICTIM STOOD IN THE CAR THE SECOND TIME THE OPERATOR ATTEMPTED TO
77	WHEEL COULD BE TURNED ENOUGH TO ALLOW THEM TO EXIT
78	
79	ABOVE THE RESTRAINING BAR SO SHE COULD SEE BETTER AT THE SAME TIME THE CAR BEGAN TO SPIN EJECTING THE VICTIM TO THE GROUND SHE WAS
80	
81	OPERATOR ERROR CONTRIBUTED TO THIS INCIDENT
82	WRIST AND A FRACTURED CHEEK BONE
83	ROTATION SEPARATED FROM THE RIDE
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Case	Narrative (continued)
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4	VICTIM WENT TO HOSPITAL AT HOME THE NEXT DAY
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32	MALFUNCTION
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50	APPLIED THE BRAKES AND ONE CAR DROPPED DOWN ONTO ANOTHER CAR, APPARENTLY AFTER IT BROKE FREE FROM ITS REAR CONNECTION TO AN A FRAME
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54	ON THE PLATFORM OF THE RIDE & SHE WAS STRUCK BY THE CAR THAT SHE HAD BEEN RIDING IN & SHE WAS WIPED ACROSS THE PLATFORM, SHE WAS
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Case	Narrative (continued)
1	
2	TAKEN TO THE HOSPITAL UNCONSCIOUS BUT REPORTEDLY HAS GAINED CONSCIOUSNESS AND IS RECOVERING
3	
4	FRAME OF THE RIDE CAME OUT THE RIDE WAS STOPPED AND THE RIDERS INCLUDING THE VICTIM WERE OFFERED MEDICAL TREATMENT BUT DECLINED
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6	WERE RELEASED
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17	PLATE BROKE
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21	MINOR INJURIES
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31	RELEASED AFTER THE TREATMENT
32	INSPECTION OF THE RIDE AFTER THE ACCIDENT BY A STATE RIDE INSPECTOR DETERMINED THE ACCIDENT WAS NOT THE RESULT OF A MECHANICAL OPERATION
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34	
35	HOSPITALIZED THE 9 YEAR OLD VICTIM SUFFERED EXTENSIONS & ABRASIONS
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39	ACCIDENT OCCURRED AT A STATE FAIR
40	
41	STOP THE RIDE AGAIN BUT COULD NOT DO SO THE VICTIM WAS THROWN FROM THE RIDE
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47	LACERATIONS A CHECK OF THE RIDE INDICATED THAT A PIN HAD BEEN REMOVED FROM THE "TUB" WHICH CONNECTED IT TO THE FRAME
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49	
50	PLATFORM AT THE NORTH END OF THE FERUS WHEEL THE CAR THEN CONTINUED MOVING IN A COUNTERCLOCKWISE DIRECTION THE RIDE OPERATOR
51	
52	
53	
54	SHOULDER RESTRAINT & SHE THEN GOT OUT OF THE CAR THROUGH A HOLE IN THE CAR'S TOP THE GIRL THEN FELL FROM THE CAR & SHE LANDED
55	
56	SPACE CAPSULE WAS DRAGGED ALONG THE GROUND FOR 15-20 FEET NO SERIOUS INJURY
57	
58	
59	RIDE COULD BE STOPPED SHE SUFFERED FATAL HEAD INJURIES
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61	
62	LEGS THE OWNER FEELS THE RIDE IS HAZARDOUS
63	BROKEN KNUCKLE ON HER LEFT HAND WHILE OTHERS WERE NOT INJURED
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71	DEVELOPMENT OF A MORE ADEQUATE RESTRAINT SYSTEM
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75	
76	STOP THE RIDE AGAIN, BUT COULD NOT DO SO THE VICTIM WAS THROWN FROM THE RIDE
77	
78	
79	TAKEN TO THE HOSPITAL UNCONSCIOUS BUT REPORTEDLY HAS GAINED CONSCIOUSNESS AND IS RECOVERING
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Case	Narrative (continued)
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50	SUPPORT BAR THE CAR WHICH BROKE FREE FROM ITS REAR CONNECTION THEN DAMAGED THE CAR BELOW IT AS IT STRUCK THE CAR AND THE TWO CARS
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54	PRONOUNCED DECEASED
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