



Amusement Ride-Related Injuries and Deaths in the United States: 1987-2000



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Executive Summary

This report describes U.S. Consumer Product Safety Commission (CPSC) data on fatalities and hospital emergency room-treated injuries involving amusement rides and inflatable amusement attractions. Injury data are presented for calendar years 1993 through 2000. Fatality data are presented for calendar years 1987 through 2000. Hazard scenario data derived from in-depth investigations are based on the period from 1 Jan 1990 through 21 June 2001.

There are two basic types of amusement rides – mobile and fixed-site. CPSC currently has jurisdiction over mobile rides, but not fixed-site rides.

- In 2000, there were an estimated 10,580 emergency room-treated injuries associated with both fixed-site and mobile amusement rides. From 1993 through 2000, there was a statistically significant increase in the total number of amusement ride injuries.
- Fixed-site rides accounted for 6,590 of the total injuries in 2000 and there were 20.8 injuries per million attendance at fixed-site amusement parks. From 1993 through 2000, there was a statistically significant increase in fixed-site injuries and a marginally significant increase in the risk of fixed-site injury, defined as injuries per million attendance at amusement parks.
- Mobile rides accounted for 3,990 of the total injuries in 2000. There was no significant trend in mobile ride injuries from 1993 through 2000. Attendance data are not available for mobile rides.
- CPSC has reports of 2 amusement ride-related fatalities in 2000, 6 in 1999, and 7 in 1998. From 1987 through 1999, there was an estimated average of 4.5 fatalities each year. Fatality reporting for 1999 and 2000 is incomplete at this time.
- Most injuries occurred to children 10-14 years old (17.9%), with children 5-9 (12.6%) and 15-19 years old (13.8%) next, but with many victims 0-4 years old (6.3%).
- Females (60.8%) were injured about 1.5 times more often than males (39.2%), and this difference held across ride sites, age groups, injured body parts, and diagnoses.

Inflatable Amusement Attraction-Related Injuries

- From 1993 through 2000, the estimated number of inflatable attraction-related injuries increased from 850 to 1,918, a statistically significant increase.
- Most victims of these injuries were young children 0-4 years old (21.3%), 5-9 years old (40.9%), or 10-14 years old (26.1%). Thus, about 62.1% of injuries involved children under 10 years old, and 88.2% involved children under 15 years old.
- The injuries were almost evenly distributed across males and females, with males involved in 53.2% and females in 46.8% of such injuries.

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Amusement Ride-Related Injuries and Deaths in the United States: 1987-2000

This report describes U.S. Consumer Product Safety Commission (CPSC) data on fatalities and hospital emergency room-treated injuries involving amusement rides and inflatable amusement attractions. Injury data are presented for calendar years 1993 through 2000. Fatality data are presented for calendar years 1987 through 2000. Hazard scenario data derived from in-depth investigations are based on the period from 1 Jan 1990 through 21 June 2001. This report updates previous CPSC reports summarizing amusement ride incidents [1,2,3,4,5].

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) [6]. 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. 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. 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 2000 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 case narrative 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 narrative stated that the incident occurred at a carnival, fair, or festival, then the case was coded *mobile-site*; if the narrative 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*. Since the July 2000 annual CPSC report on amusement ride-related injuries [5], an independent coder has reviewed cases from 1993 through 1999 and a few codings have been adjusted for consistency. As discussed in [5], a large number of amusement ride-related injury cases in the NEISS data are from one hospital in the northeastern U.S., but reporting injury estimates with that hospital excluded is inappropriate, because the NEISS sample with that hospital removed is no longer a probability sample of all emergency room hospitals in the U.S.

Results

Annual Trends in Amusement Ride-Related Injuries

Figure 1 gives emergency room-treated, amusement ride-related injuries by year, with *unknown-site* estimates allocated to *fixed-site* and *mobile-site* estimates in the proportions observed in *known-site* estimates each year. For example, the *fixed-site* estimate for 2000 is .62 of the sum of the *fixed-site* and *mobile-site* estimates, so .62 of the *unknown-site* estimate for 2000 is added to the *fixed-site* estimate, and .38 of the *unknown-site* estimate for 2000 is added to the *mobile-site* estimate. The proportions of *unknown-site* estimates allocated to *fixed-site* and *mobile-site* estimates each year depend only on yearly estimates as explained for 2000. An estimated total of $10,580 \pm 5,260$ hospital emergency room-treated injuries occurred in 2000. The statistical margin of error (ME) is about 5,260 for a 95% confidence level.

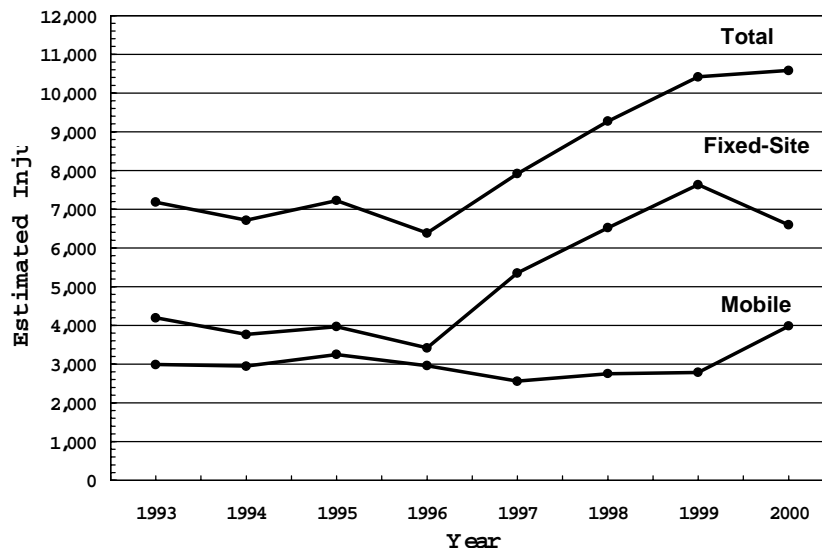


Figure 1. Estimated amusement ride-related injuries treated at U.S. hospital emergency rooms from 1993 through 2000. Source: U.S. Consumer Product Safety Commission.

Exact 1-tailed Kendall Tau tests [7] were used to assess the statistical significance of trends in injuries and injury risk. The increase was statistically significant for *total* injuries, $p = .006$, and *fixed-site* injuries, $p = .03$, but not for *mobile* injuries, $p = .91$. It is conceivable that the revision of the NEISS sample in 1997 might explain some of the difference between 1997 and earlier estimates but it can not explain the sustained increases in 1998, 1999, and 2000 above 1997 levels [see 5]. In addition, an analysis of hospitals continuously present in NEISS from 1995 through 1999 revealed the same general upward trend.

Table 1 gives the NEISS estimates presented graphically in Figure 1. Estimates in Table 1 avoid underestimation of *fixed-site* and *mobile* injuries by allocating *unknown-site* estimates to *fixed-site* and *mobile* estimates in the same proportions observed in the known latter estimates.

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

Year	Fixed	Mobile	Total	ME (Total)
1993	4,195	2,990	7,185	3,980
1994	3,766	2,949	6,715	3,930
1995	3,969	3,251	7,220	4,340
1996	3,419	2,963	6,383	4,010
1997	5,353	2,562	7,915	4,630
1998	6,523	2,751	9,274	4,010
1999	7,629	2,788	10,417	5,610
2000	6,594	3,985	10,580	5,260

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Table 2 gives *fixed-site* injuries divided by attendance at amusement parks [8], with unknown-site estimates allocated to fixed-site and mobile estimates. The increase in risk was marginally significant, $p = .057$. Attendance data for *mobile* rides are not available.

Table 2
Risk of Non-Occupational Fixed-Site Amusement Ride Injury by Year

Year	Attendance (millions)	Risk
1993	275	15.3
1994	267	14.1
1995	280	14.2
1996	290	11.8
1997	300	17.8
1998	300	21.7
1999	309	24.7
2000	317	20.8

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

Seasonal Trends in Amusement Ride-Related Injuries

Table 3 gives fixed-site, mobile, and total injuries by month and ride site. A strong seasonal pattern appears, with injuries increasing in the spring, peaking in the summer, and declining in the fall.

Table 3
Estimated Non-Occupational Amusement Ride Injuries by Month and
Site of Ride for Calendar Years 1993 through 2000

Month	Fixed	Mobile	Total	% Total
01	23	295	318	0.48
02	684	316	1,000	1.52
03	805	902	1,707	2.60
04	2,187	2,156	4,342	6.61
05	4,430	3,093	7,523	11.45
06	6,209	1,519	7,729	11.77
07	10,401	5,114	15,515	23.62
08	10,246	4,600	14,846	22.60
09	3,882	3,370	7,252	11.04
10	1,598	2,333	3,931	5.98
11	487	432	919	1.40
12	497	109	606	0.92

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Victim Age and Sex in Amusement Ride-Related Injuries

Table 4 gives fixed-site, mobile, and total injuries by victim age and ride site. The greatest injury frequency was for children 10-14 years old (17.9%), with children 5-9 (12.6%) and 15-19 years old (13.8%) next, but with many injuries involving children 0-4 years old (6.3%).

Table 4
Estimated Non-Occupational Amusement Ride Injuries by Age Group and Site of Ride for Calendar Years 1993 through 2000

Age (Years)	Fixed	Mobile	Total	% Total
0-4	2,143	2,024	4,168	6.34
5-9	3,676	4,620	8,296	12.63
10-14	6,385	5,376	11,761	17.90
15-19	5,344	3,706	9,050	13.78
20-24	4,583	2,304	6,887	10.48
25-29	5,197	1,518	6,715	10.22
30-34	5,179	1,261	6,441	9.80
35-39	2,741	1,158	3,899	5.94
40-44	2,462	621	3,082	4.69
45-49	1,671	689	2,359	3.59
50-54	911	514	1,425	2.17
55-59	371	397	768	1.17
60-64	227	0	227	0.35
65-69	269	52	321	0.49
70-74	186	0	186	0.28
75-80	0	0	0	0.00
80-84	102	0	102	0.16

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Table 5 gives fixed-site, mobile, and total injuries by victim sex and site of ride. Females were injured about 1.5 times more often than males (i.e., the ratio of 60.81/39.19 is 1.55).

Table 5
Estimated Non-Occupational Amusement Ride Injuries by Sex and Site of Ride for Calendar Years 1993 through 2000

Sex	Fixed	Mobile	Total	% Total
Male	16,036	9,709	25,746	39.19
Female	25,412	14,531	39,943	60.81

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Table 6 gives total injuries by victim age and sex. For all ages from 10 to 34 years, females had almost twice as many injuries as males. Although it is difficult to interpret the gender difference in amusement ride-related injuries without gender exposure data, it would be surprising if the difference in exposure were large enough to account for the 3:2 female to male ratio of injuries across all ages and 2:1 ratio across ages 10 to 34 years.

Table 6
Estimated Non-Occupational Amusement Ride Injuries by Age and Sex for Calendar Years 1993 through 2000

Age (Years)	Male	Female	Ratio (F/M)
0-4	2,495	1,673	0.67
5-9	4,035	4,261	1.06
10-14	3,976	7,785	1.96
15-19	2,957	6,093	2.06
20-24	2,384	4,503	1.89
25-29	2,234	4,481	2.01
30-34	2,298	4,142	1.80
35-39	1,839	2,060	1.12
40-44	1,444	1,639	1.14
45-49	1,093	1,266	1.16
50-54	507	918	1.81
55-59	215	553	2.57
60-64	146	82	0.56
65-69	123	198	1.61
70-74	0	186	—
75-79	0	0	—
80-84	0	102	—

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Injured Body Parts in Amusement Ride-Related Injuries

Table 7 gives fixed-site, mobile, and total injuries by injured body part and ride site. The most frequently injured body parts were the neck (16.2%), head (10.1%), lower trunk (11.9%), and upper trunk (9.2%). Together, these four body parts accounted for 47.5% of emergency room-treated, amusement ride-related injuries. Note that upper and lower trunk injuries consist at least partly of upper and lower back injuries. The similar patterns of body part injuries for fixed-site and mobile incidents suggest similar injury mechanisms in amusement ride-related injuries in both ride site settings.

Table 7
Estimated Non-Occupational Amusement Ride Injuries by Injured Body Part
and Ride Site for Calendar Years 1993 through 2000

Body Part	Fixed	Mobile	Total	% Total
25-50% of body	278	54	332	0.51
All of (> 50%) body	785	913	1,698	2.59
Ankle	1,425	1,439	2,864	4.36
Arm, lower	952	53	1,005	1.53
Arm, upper	89	105	194	0.30
Ear	697	101	798	1.22
Elbow	1,181	339	1,520	2.31
Eyeball	803	756	1,559	2.37
Face	3,147	2,149	5,296	8.06
Finger	1,538	868	2,406	3.66
Foot	1,895	759	2,653	4.04
Hand	1,018	228	1,246	1.90
Head	3,937	2,704	6,641	10.11
Knee	1,976	965	2,941	4.48
Leg, lower	808	769	1,576	2.40
Leg, upper	482	461	943	1.44
Mouth	439	477	916	1.39
Neck	7,821	2,848	10,669	16.24
Not recorded	64	85	149	0.23
Pubic area	42	87	129	0.20
Shoulder	1,799	1,334	3,133	4.77
Toe	258	370	628	0.96
Trunk, lower	5,265	2,578	7,842	11.94
Trunk, upper	3,631	2,428	6,059	9.22
Wrist	1,119	1,370	2,489	3.79

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Table 8 gives combined fixed-site and mobile injuries by injured body part and sex. The prevalence of injuries to females appears across virtually all body part categories.

Table 8
Estimated Non-Occupational Amusement Ride Injuries by Injured Body Part
and Sex for Calendar Years 1993 through 2000

Body Part	Male	Female	Ratio (F/M)
25-50% of body	223	109	0.49
All of (> 50%) body	743	955	1.29
Ankle	922	1,942	2.11
Arm , lower	296	708	2.39
Arm , upper	24	171	7.13
Ear	49	749	15.29
Elbow	476	1,043	2.19
Eyeball	698	860	1.23
Face	2,461	2,835	1.15
Finger	1,150	1,256	1.09
Foot	701	1,953	2.79
Hand	695	551	0.79
Head	3,104	3,537	1.14
Knee	753	2,188	2.91
Leg , lower	730	847	1.16
Leg , upper	425	519	1.22
M outh	555	361	0.65
Neck	3,708	6,961	1.88
Not recorded	23	126	5.48
Pubic area	87	42	0.48
Shoulder	1,469	1,664	1.13
Toe	196	432	2.20
Trunk , lower	3,065	4,778	1.56
Trunk , upper	2,101	3,958	1.88
W rist	1,091	1,398	1.28

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Injury Diagnoses in Amusement Ride-Related Injuries

Table 9 gives fixed-site, mobile, and total injuries by diagnosis and ride site. The most frequent diagnoses were *strain/sprain* (35.1%), *contusion/abrasion* (27.3%), and *laceration* (11.2%). Together, these three diagnoses accounted for 73.6% of emergency room-treated, amusement ride-related injuries. The similar patterns of diagnoses for fixed-site and mobile injuries, as with the similar patterns of injured body parts, suggest similar injury mechanisms in amusement ride-related injuries in both ride site settings.

Table 9
Estimated Non-Occupational Amusement Ride Injuries by Diagnosis and Site of Ride for Calendar Years 1993 through 2000

Diagnosis	Fixed	Mobile	Total	% Total
Avulsion	0	42	42	0.06
Burns, thermal	21	85	106	0.16
Concussion	826	551	1,376	2.10
Contusion, Abrasion	10,715	7,222	17,936	27.31
Crushing	0	128	128	0.19
Dental injury	112	66	178	0.27
Dermatitis, Conjunctivitis	42	22	64	0.10
Dislocation	205	85	289	0.44
Electric shock	0	62	62	0.09
Foreign body	515	504	1,019	1.55
Fracture	3,697	1,481	5,179	7.88
Hematom a	51	350	401	0.61
Hemorrhage	85	193	278	0.42
Internal organ injury	584	550	1,134	1.73
Laceration	4,549	2,818	7,366	11.21
Not recorded	393	64	457	0.70
Other	4,155	2,224	6,380	9.71
Puncture	259	0	259	0.39
Strain or Sprain	15,241	7,794	23,035	35.07

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Table 10 gives combined fixed-site and mobile injuries by diagnosis and sex. Females were about twice as often as males the victim of a *concussion, contusion/abrasion, strain/sprain, or other* injury.

Table 10
Estimated Non-Occupational Amusement Ride Injuries by Diagnosis and Sex for
Calendar Years 1993 through 2000

Diagnosis	Male	Female	Ratio (F/M)
Avulsion	42	0	0.00
Burns, thermal	0	106	—
Concussion	358	1,018	2.84
Contusion, Abrasion	6,135	11,801	1.92
Crushing	52	76	1.46
Dental injury	136	42	0.31
Dermatitis, Conjunctivitis	42	22	0.52
Dislocation	266	24	0.09
Electric shock	62	0	0.00
Foreign body	402	617	1.53
Fracture	2,412	2,766	1.15
Hematoma	190	211	1.11
Hemorrhage	190	88	0.46
Internal organ injury	479	655	1.37
Laceration	4,201	3,166	0.75
Not recorded	151	306	2.03
Other	2,287	4,093	1.79
Puncture	133	126	0.95
Strain or Sprain	8,207	14,828	1.81

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Injury Disposition in Amusement Ride-Related Injuries

Table 11 gives estimated fixed-site, mobile, and total injuries by disposition and ride site. The most frequent disposition was *treated/examined and released* (98.5%), but about 1.4% of cases were either *treated and admitted* or *treated and transferred* to another facility.

Table 11
Estimated Non-Occupational Amusement Ride Injuries by Disposition and Site of
Ride for Calendar Years 1993 through 2000

Disposition	Fixed	Mobile	Total	% Total
Treated/exam & released	40,592	24,091	64,683	98.47
Treated & transferred	91	0	91	0.14
Treated & admitted	766	96	862	1.31
Not recorded	0	52	52	0.08

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Inflatable Amusement Attractions

Inflatable amusement attractions include inflatable slides and jumping attractions called *moon walks*, *jumping balloons*, and so on, and combinations of inflatable slides with jumping balloons. These attractions may be found in fixed-site, mobile, and many other public or private locations, and are often rented by groups or families for temporary use. Although injuries related to such inflatable amusement attractions have been excluded from the amusement ride-related injury statistics in this report and in previous CPSC reports [1-5], such injuries are collected in the NEISS along with amusement ride-related cases under the same product code (1293) and are thus reviewed with all other cases under that code during the analyses required by this report. During the 8-year period from 1 Jan 1993 through 31 Dec 2000, there were an estimated 10,252 inflatable amusement attraction-related, emergency room-treated injuries in the U.S. Additional NEISS data on inflatable attractions are provided below.

Annual Trends in Inflatable Amusement Attraction-Related Injuries

Table 12 indicates that inflatable amusement attraction-related injuries increased from an estimated 850 in 1993 to 1,918 in 2000, a statistically significant upward trend, $p = .001$.

Table 12
Estimated Inflatable Amusement Attraction-Related Injuries
by Year for Calendar Years 1993 through 2000

Year	Total	% Total M E (Total)	
1993	850	8.30	720
1994	774	7.55	720
1995	778	7.59	750
1996	1,271	12.39	1,310
1997	1,331	12.98	1,000
1998	1,418	13.83	930
1999	1,912	18.65	1,030
2000	1,918	18.71	1,250

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Seasonal Trends in Inflatable Amusement Attraction-Related Injuries

Table 13 indicates that inflatable amusement attraction-related injuries tended to rise in the spring, peak in the summer, and decline in the fall, with the majority during March, July, August, and September.

Table 13
Estimated Inflatable Amusement Attraction-Related Injuries by
Month for Calendar Years 1993 through 2000

Month	Total	% Total
01	281	2.74
02	229	2.24
03	1,056	10.30
04	759	7.41
05	786	7.67
06	969	9.45
07	1,023	9.98
08	1,587	15.48
09	1,658	16.18
10	833	8.13
11	639	6.23
12	430	4.20

Note: Details may not sum to totals due to rounding. Source:
U.S. Consumer Product Safety Commission.

Victim Age and Sex in Inflatable Amusement Attraction-Related Injuries

Table 14 indicates that the victims of inflatable amusement attraction-related injuries were mostly young children, with 21.3% of the injuries involving children under 5 years old, 40.9% involving children 5-9 years old, and 26.1% involving children 10-14 years old. About 62.1% of such injuries involved children under 10 years old, and 88.2% involved children under 15 years old.

Table 14
Estimated Inflatable Amusement Attraction-Related Injuries by
Victim Age for Calendar Years 1993 through 2000

Age (years)	Total	% Total
0-4	2,182	21.28
5-9	4,190	40.87
10-14	2,678	26.13
15-19	555	5.41
20-24	343	3.35
25-29	71	0.69
30-34	53	0.52
35-39	95	0.93
40-44	66	0.65
45-49	18	0.17

Note: Details may not sum to totals due to rounding. Source:
U.S. Consumer Product Safety Commission.

Table 15 indicates that inflatable amusement attraction-related injuries were almost evenly distributed across males and females, with males involved in 53.2% and females involved in 46.8% of such injuries.

Table 15
Estimated Inflatable Amusement Attraction-Related Injuries by
Victim Sex for Calendar Years 1993 through 2000

Sex	Total	% Total
Male	5,453	53.19
Female	4,798	46.81

Note: Details may not sum to totals due to rounding. Source:
U.S. Consumer Product Safety Commission.

Injured Body Parts in Inflatable Amusement Attraction-Related Injuries

Table 16 indicates that, as with amusement ride-related injuries, the most frequently injured body part in inflatable amusement attraction-related injuries was the neck (11.8%), with the remaining injuries broadly distributed across many other body parts.

Table 16
Estimated Inflatable Amusement Attraction-Related Injuries by
Injured Body Part for Calendar Years 1993 through 2000

Body Part	Total	% Total
25-50% of body	47	0.46
All of (> 50%) body	71	0.69
Ankle	824	8.04
Arm , lower	410	4.00
Arm , upper	270	2.63
Elbow	900	8.78
Eyeball	6	0.06
Face	650	6.34
Finger	192	1.87
Foot	570	5.56
Hand	167	1.63
Head	880	8.59
Knee	518	5.05
Leg, lower	666	6.50
Leg, upper	54	0.53
Mouth	509	4.96
Neck	1,205	11.76
Shoulder	259	2.53
Toe	134	1.31
Trunk, lower	597	5.82
Trunk, upper	783	7.64
Wrist	540	5.26

Note: Details may not sum to totals due to rounding. Source:
U.S. Consumer Product Safety Commission.

Diagnoses in Inflatable Amusement Attraction-Related Injuries

Table 17 indicates that the most frequent diagnoses were *strain/sprain* (27.9%), *fracture* (23.8%), and *contusion/abrasion* (22.2%).

Table 17
Estimated Inflatable Amusement Attraction-Related Injuries
by Diagnosis for Calendar Years 1993 through 2000

Diagnosis	Total	% Total
Avulsion	117	1.14
Concussion	24	0.23
Contusion, Abrasion	2,281	22.25
Dental injury	56	0.55
Dematitis, Conjunctivitis	6	0.06
Dislocation	356	3.48
Fracture	2,439	23.79
Hematoma	90	0.88
Internal organ injury	472	4.61
Laceration	841	8.20
Not recorded	6	0.06
Other	624	6.09
Puncture	76	0.74
Strain or Sprain	2,863	27.93

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Injury Disposition in Inflatable Amusement Attraction-Related Injuries

Table 18 gives inflatable amusement attraction-related injury disposition. As with amusement ride-related injuries, the most frequent disposition was *treated/examined and released* (96.8%), but about 2.7% of cases were *treated and admitted* to the hospital.

Table 18
Estimated Inflatable Amusement Attraction-Related Injuries
by Disposition for Calendar Years 1993 through 2000

Disposition	Total	% Total
Treated/exam & released	9,920	96.77
Treated & admitted	278	2.71
Not recorded	53	0.52

Note: Details may not sum to totals due to rounding. Source: U.S. Consumer Product Safety Commission.

Amusement Ride-Related Fatalities

Method

CPSC's files were searched for records of fatalities involving amusement rides during calendar years 1987 through 2000. 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.

Results

DTHS and IPII files recorded 51 non-occupational fatalities from 1987 through 2000; NEISS files recorded no amusement ride-related fatalities during this period. **Appendix A** lists the 51 documented non-occupational fatality cases. Due to the logistical difficulty of capturing all fatalities related to any product or event, these counts may 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 [9,10]. Capture-recapture analyses were conducted on 49 documented cases during 1987 through 1999 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 1999 was 59 (95% confidence interval = 49 to 70), for an estimated average of 4.5 fatalities each year during that period.

Documented non-occupational fatalities from 1987 through 2000 were classified by ride *type*, *location* (state), and ride *site*. Careful review of information in multiple records for each case resulted in a few classification changes since the previous CPSC amusement ride injury and fatality report [5]. *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 2000, there were 51 documented fatalities, including 34 fixed ride-related fatalities, 8 mobile ride-related fatalities, and 9 fatalities involving unknown ride mobility status.

The following tables give documented fatalities by year and ride mobility (**Table 17**), ride type and mobility (**Table 18**), and state and ride mobility (**Table 19**).

Table 17 gives fatalities by year and site. The fatalities observed in 1998 (7) and 1999 (6) were the most since 1988. From 1987 through 1999, there was no significant upward trend in fixed-site, mobile, unknown, or total fatalities (all $p > .15$, exact Kendall Tau 1-tailed tests).

Table 17
Non-Occupational Amusement Ride-Related Fatalities by Year and Ride Site

Year	Fixed	Mobile	Unknown	Total
1987	4	0	0	4
1988	3	1	3	7
1989	3	0	0	3
1990	0	0	0	0
1991	3	0	0	3
1992	0	2	0	2
1993	1	1	2	4
1994	2	0	0	2
1995	3	1	0	4
1996	2	1	0	3
1997	1	0	3	4
1998	4	2	1	7
1999	6	0	0	6*
2000	2	0	0	2*
Total	34	8	9	51

* Data for 1999-2000 are incomplete; counts will increase if additional reports are received. Source: U.S. Consumer Product Safety Commission.

Table 18 gives documented non-occupational amusement ride fatalities by type and ride site. The majority of deaths were associated with roller coasters and “whirling” rides.

Table 18
Non-Occupational Amusement Ride-Related Fatalities from 1987 through
2000 by Ride Type and Site

Type of Ride	Fixed	Mobile	Unknown	Total
Roller Coaster	13	0	3	16
Whirling	2	4	4	10
Water	7	0	0	7
Train	2	1	0	3
Ferris Wheel	2	0	0	2
Sleigh	1	0	0	1
Unknown	7	3	2	12
Total	34	8	11	51

Note: Data for 1999-2000 are incomplete; counts will increase if additional reports are received. Source: U.S. Consumer Product Safety Commission.

Table 19 gives the number of documented non-occupational amusement ride fatalities by state and mobility. States with the largest number of documented fatalities include California (6), Florida (6), New Jersey (5), New York (5), and Texas (4).

Table 19
Non-Occupational Amusement Ride-Related Fatalities from 1987 through 2000 by
State and Ride Site

State	Fixed	Mobile	Unknown	Total
CA	4	1	1	6
CT	2	0	0	2
FL	2	2	2	6
GA	1	0	0	1
IL	1	1	0	2
IN	1	0	0	1
MA	1	0	0	1
MD	0	0	1	1
MN	2	0	0	2
MO	1	0	0	1
NE	1	0	0	1
NJ	4	0	1	5
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	34	8	9	51

Note: Data for 1999-2000 are incomplete; counts will increase if additional reports are received. Source: U.S. Consumer Product Safety Commission.

Hazard Patterns in Amusement Ride-Related Incidents

A review of in-depth investigation (INDP) reports by CPSC staff from 1 Jan 1990 through 21 June 2001 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 B** lists selected information in CPSC files about each of 90 investigated incidents. Review of the 90 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.”

Hazard Patterns in Inflatable Amusement Attraction-Related Incidents

A review of in-depth investigation (INDP) reports by CPSC staff from 1 Jan 1990 through 21 June 2001 revealed the following hazard patterns in inflatable amusement attraction-related incidents:

- Collision of one person with another, especially a larger child with a smaller one, when several children are jumping or sliding at the same time.
- Falling out of a jumping balloon or off an inflatable slide onto a hard object outside the attraction device.
- Catching a foot or other appendage in some part of the attraction while jumping.
- Jumping or sliding head down or attempting flips with a resulting head or neck injury.
- Wind gusts unexpectedly blowing over an inadequately secured inflatable attraction thereby throwing children onto the ground or other objects.
- Rapid deflation of an inflatable slide upon fan power loss causing children to fall onto the ground or other object.

Conclusion

Amusement Ride-Related Incidents. NEISS data indicate a total in calendar year 2000 of about 10,580 emergency room-treated, amusement ride-related injuries, with about 6,590 involving *fixed-site* rides and 3,990 involving *mobile* rides, and with 20.8 injuries per million attendance at fixed-site parks. Although there were fewer *mobile* as compared to *fixed-site* injuries, the amount of exposure probably differs for *mobile* versus *fixed-site* rides, and the relative risk of injury attributable to one or the other cannot be determined without comparable exposure information for both types of rides. From 1993 through 2000, there were statistically significant increases in *fixed-site and total injuries* and a marginally significant increase in the *risk* of fixed-site injury defined as injuries per million attendance at amusement parks. There was no significant trend in annual *mobile* ride injuries over the same period, although there were 42.9% more mobile injuries in 2000 than in 1999. Both fixed-site and mobile injuries tended to rise in the spring, peak in the summer, and decline in the fall.

From 1987 through 2000, there were 51 documented non-occupational amusement ride-related *fatalities*, including 32 fixed ride-related fatalities, 8 mobile ride-related fatalities, and 11 fatalities involving unknown ride mobility status. The estimated number of non-occupational amusement ride-related fatalities from 1987 through 1999 was 59 (95% confidence interval = 49 to 70), for an estimated average of 4.5 fatalities each year during that period.

CPSC in-depth investigations revealed amusement ride-related incident hazard patterns involving *mechanical failure, operator behavior, consumer behavior, other factors, and combinations* of these factors.

Inflatable Amusement Attraction-Related Incidents. NEISS data indicate a total in calendar year 2000 of 1,918 inflatable amusement attraction-related injuries. Injuries increased from 850 in 1993 to 1,918 in 2000, a statistically significant upward trend. Injuries also tended to rise in the spring, peak in the summer, and decline in the fall, with the majority of injuries during March, July, August, and September.

Most victims of these injuries were young children 0-4 years old (21.3%), 5-9 years old (40.9%), or 10-14 years old (26.1%). Thus, about 62.1% of injuries involved children under 10 years old, and 88.2% involved children under 15 years old. Injuries were almost evenly distributed across males and females, with males involved in 53.2% and females involved in 46.8% of such injuries.

CPSC in-depth investigations revealed amusement ride-related incident *hazard patterns* involving collisions between people, falls, caught appendages, jumping or flipping, wind gusts blowing over unsecured amusement devices, and falls due to rapid deflation of amusement devices.

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Appendix A

Records of Reported Non-Occupational Amusement Ride Fatalities from 1987 through 2000 in CPSC Files

Appendix A 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 this appendix, 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 this appendix). 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	FREEHOLE 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	F	U
18	7	IPII	05/15/88	4	F	GA	ATLANTA	880517CEN1089	G8850100A	F	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	N8880142	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	N8880142	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	F8990039B	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		N9290191A	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
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	ALLEN TOWN	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	9732022247	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

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 ROLLER COASTER WHILE
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 - AUTOPSY YES
5	3	A 19 YEAR OLD FEMALE FELL TO HER DEATH WHEN RIDING UPON A FIXED SITE ROLLER COASTER AT AN AMUSEMENT PARK THE ROLLER COASTER RIDE HAS 2
6	3	A 19 YOF 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 APPARENTLY CAUSED BY FAILURE TO HAVE SAFETY HARNESS LOCKED
9	4	RIDING ON SMALL TRAIN AT PARK WHICH DERAILED AND OVERTURNED - MULTIPLE INJURIES OF CHEST AND ABDOMEN; AMUSEMENT PARK
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 A PASSENGER
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 RIDE AT A LOCAL FAIR IN A
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 TRACKS THE ROLLER
24	10	A 26-YEAR OLD MAN DIED WHEN HE FELL FROM AN AMUSEMENT RIDE HE WAS APPARENTLY 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 COMPONENT OF AN AMUSEMENT
27	11	17 YR OLD GIRL WAS KILLED AND 6 OTHER PEOPLE WERE INJURED WHEN THE FAULTY ARM OF AN AMUSEMENT RIDE BROKE
28	11	17 YEAR OLD GIRL WAS KILLED WHEN THE ARM OF AN AMUSEMENT RIDE BROKE A ND 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 ON AN AMUSEMENT RIDE BR
30	11	A 17 YEAR OLD FEMALE WAS KILLED WHEN AN ARM BROKE OFF AN AMUSEMENT RIDE 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 RIDE VICTIM WAS
33	12	A 6-YEAR OLD BOY WAS KILLED WHEN HE WAS STRUCK BY AN AMUSEMENT RIDE THAT HE HAD FALLEN FROM
34	13	FELL FROM ROLLER COASTER 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 VICTIM WHILE
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 TRAPPED BETWEEN A BOAT AND THE
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 SAFETY BAR FELL OFF A FERR
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 - 920730CWE6001
44	18	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
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 AMUSEMENT RIDE
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 WAS INJURED AFTER FALLING FR
50	21	A FEMALE DIED AND A MALE AND FEMALE WERE INJURED WHEN APPARENTLY AN AMUSEMENT RIDE WAS STOP ABRUPTLY
51	22	SLIGHTRIDE TIPPED OVER AT AMUSEMENT PARK - CARDIO RESPIRATORY ARREST; BASILAR SKULL FRACTURE; TRAUMA - AUTOPSY NO
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 PROPELLER ON THE RIDE
56	25	FELL UNDER AMUSEMENT PARK RIDE ON CAR TRACKS - CRANIOCEREBRAL TRAUMA; CRUSHING INJURY - AUTOPSY NO
57	25	6 YEAR OLD MALE SUSTAINED FATAL CRUSHING INJURY TO THE HEAD WHILE TRYING TO EXIT AN AMUSEMENT RIDE WHEN ANOTHER CHILD PUSHED THE START
58	25	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
59	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 BROKE THEIR FALL HOLDING ON
60	25	A 6 YEAR OLD MALE DIED WHEN AN AMUSEMENT RIDE RESTARTED DRAGGING HIM UNDERNEATH AND CRUSHING HIM
61	25	A 6 YEAR OLD MALE DIED AFTER AN AMUSEMENT PARK RIDE'S CAR STRUCK HIM AND DRAGGED HIM ALONG THE TRACKS
62	25	A 6 YEAR OLD MALE DIED AFTER FALLING UNDER AN AMUSEMENT PARK RIDE
63	26	A GIRL, AGE 13, WHO SUFFERED FROM OTHER HEALTH PROBLEMS DIED AFTER SHE HAD A SEIZURE ON A ROLLER COASTER RIDE AT AN AMUSEMENT PARK
64	27	BUMPED HEAD ON ROLLER COASTER - INTRACEREBRAL HEMORRHAGE AND SUBDURAL HEMATOMA - AUTOPSY NO
65	27	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
66	28	FELL FROM ROLLER COASTER RIDE AT AMUSEMENT PARK - MASSIVE HEAD TRAUMA; MULTIPLE TRAUMATIC INJURIES AND HEMORRHAGE - AUTOPSY YES
67	28	A 14 YEAR OLD FEMALE DIED FOLLOWING A 25 FOOT FALL FROM A ROLLER COAS TER
68	28	A 14 YEAR OLD FEMALE DIED WHEN SAFETY STRAPS ON A ROLLER COASTER FAIL ED
69	28	A 14 YEAR OLD FEMALE DIED OF MASSIVE HEAD INJURY IN A FALL FROM A ROLLER COASTER AT AN AMUSEMENT PARK
70	29	FELL FROM STAIRS ON CARNIVAL RIDE - CLOSED HEAD INJURY FALL FROM STAIRS ON CARNIVAL RIDE - AUTOPSY YES
71	29	A GIRL, AGE 2 DIED FOLLOWING A FALL ON THE STEPS LEADING TO A MOBILE AMUSEMENT RIDE
72	30	PASSENGER OF AMUSEMENT RIDE THROWN DURING DERAILMENT - BLUNT FORCE INJURY OF THE HEAD; AMUSEMENT RIDE - AUTOPSY YES
73	30	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
74	30	A WOMAN, AGE 57 WAS KILLED AND HER GRAND DAUGHTER SEVERELY INJURED WHEN TWO AMUSEMENT PARK TRAIN CARS FLIPPED OVER ROUNDING A CURVE
75	31	FALL FROM AMUSEMENT PARK RIDE - DUE TO BRAIN TRAUMA, MULTIPLE TRAUMATIC INJURIES AND HEMORRHAGE - AUTOPSY YES
76	31	THIS INVESTIGATION REVEALED THAT ON 8/16/96 AT APPROXIMATELY 7:15 PM A 13 YEAR OLD DEVELOPMENTALLY DISABLED GIRL WAS WITH A
77	31	A GIRL, AGE 14, WAS KILLED AFTER SHE SLIPPED FROM A HARNESS IN THE GONDOLA OF AN AMUSEMENT RIDE AT A STATE FAIR AND FELL AFTER SHE WAS
78	31	A GIRL, AGE 14, WAS KILLED AFTER SHE SLIPPED FROM A HARNESS IN THE GONDOLA OF AN AMUSEMENT RIDE AT A STATE FAIR AND FELL AFTER SHE WAS
79	32	INJURED KNEE ON RIDE AT AMUSEMENT PARK - PULMONARY THROMBOEMBOLISM - PHLEBOTROMBOSIS OF LEFT LEG; BLUNT IMPACT INJURY OF LEFT KNEE -
80	32	A 52-YEAR-OLD MALE INJURED HIS KNEE ON A RIDE AT AN AMUSEMENT PARK AND DIED 5 DAYS LATER FROM PULMONARY THROMBOEMBOLISM
81	33	FELL FROM AMUSEMENT PARK RIDE AND WAS CRUSHED - MULTIPLE TRAUMATIC INJURIES - AUTOPSY YES
82	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 THE SINGLE LAP
83	33	A GIRL, AGE 3, DIED OF MULTIPLE TRAUMATIC INJURIES SHE WAS STANDING UP ON AN AMUSEMENT RIDE WHILE IT WAS IN MOTION FELL FROM HER SEAT
84	33	A GIRL, AGE 3, DIED OF MULTIPLE INJURIES RECEIVED WHEN SHE STOOD UP ON AN AMUSEMENT RIDE IN MOTION, FELL, AND MAY HAVE BEEN RUN OVER BY
85	34	ROLLER COASTER ACCIDENT WITH EJECTION - BLUNT TRAUMA OF HEAD - AUTOPSY YES

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 TO POSTED SAFETY
3	2	
4	3	
5	3	LOOPS DURING THE RUN AND THE CARS ARE EQUIPPED WITH SHOULDER TYPE HARNESS RESTRAINTS. REPORTEDLY, THE VICTIM WAS NOT SECURED UNDER THE
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 EQUIPMENT SUBSEQUENTLY PASSED
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 HANDICAPPED &
16	6	
17	7	PUBLIC AREA. SHE WAS ADMITTED FOR HOSPITALIZATION AT A LOCAL HOSPITAL. VICTIM DIED IN HOSPITAL ON JAN 12, 1989 FROM HER INJURIES.
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 TRACK. VICTIM FELL THROUGH
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 TRAPPED UNDERNEATH THE LOG
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 CIRCULAR TRACK, SURROUNDED
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	
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 SWEEP BENEATH THE ARM THAT THE CAR EXTENDED FROM
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 HOSPITAL WITH A BRAIN
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 APPARENTLY SWING LIKE A
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 IN MOTION. THE
83	33	ONTO CONCRETE AND WAS POSSIBLY RUN OVER BY RUNNING PARTS OF THE RIDE.
84	33	MOVING PARTS.
85	34	

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 COMPLICATIONS AS RESULT
3	2	
4	3	
5	3	SHOULDER TYPE HARNESS AND STATE INVESTIGATORS FAULT PARK EMPLOYEES FOR NOT HAND CHECKING THE HARNESS PRIOR TO OPERATION. NO MECHANICAL
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 THE RIDE.
16	6	
17	7	
18	7	
19	8	
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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 BUCKET AS IT RE-
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 RETURNED.
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 FRIEND. THE CAUSE
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	
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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 FROM UNDER HER
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 REVOLUTION BEFORE THE
83	33	
84	33	
85	34	1293

RECORD	CASE	NARRATIVE 4
1	1	
2	2	OF INCIDENT.
3	2	
4	3	
5	3	PROBLEMS WERE NOTED WITH THE RIDE.
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7	3	
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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	
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23	10	
24	10	
25	11	
26	11	INVOLVED.
27	11	
28	11	
29	11	
30	11	
31	12	
32	12	
33	12	
34	13	
35	14	
36	14	OF THE VICTIM'S DEATH IS LISTED AS MECHANICAL ASPHYXIA.
37	14	
38	14	
39	15	
40	16	
41	16	
42	17	
43	18	
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67	28	
68	28	
69	28	
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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 CAR, & SHE LANDED
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	

RECORD	CASE	NARRATIVE 5
1	1	
2	2	
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75	31	
76	31	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
77	31	
78	31	
79	32	
80	32	
81	33	
82	33	
83	33	
84	33	
85	34	

RECORD	CASE	FILE	DTACC	AGE	SEX	STATE	CITY	TKNO	DOCNO	MOBIL	TYPE
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	F	RC
90	37	IPII	09/07/98	24	M	CA	SANTA CLARA		X98B0385A	F	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	DTHS	06/11/99	17	F	NY	BROOKLYN		9966029245	F	WHIRLING
106	45	INDP	06/11/99	17	F	NY	BROOKLYN	990614CNE5191	N9960143A	F	WHIRLING
107	45	IPII	06/11/99	17	F	NY	CONY ISLAND		X9962154A	F	WHIRLING
108	45	IPII	06/11/99	17	F	NY	NEW YORK	990614CNE5191	N9960143A	F	WHIRLING
109	46	IPII	08/22/99	12	M	CA	SANTA CLARA		X0010186A	F	U
110	46	IPII	08/22/99	12	M	CA	SANTA CLARA		X9982937A	F	U
111	47	DTHS	08/23/99	20	M	VA	DOSWELL		9951034087	F	RC
112	47	IPII	08/23/99	20	M	VA	DOSWELL		X9982972A	F	RC
113	47	IPII	08/23/99	20	M	VA	HANOVER		X99A3473A	F	RC
114	48	IPII	08/29/99	8	F	NJ	OCEAN CITY		X9993069A	F	RC
114	49	IPII	08/29/99	39	F	NJ	OCEAN CITY		X9993069A	F	RC
114	49	IPII	01/01/99	0	F	NJ	OCEAN CITY		N00A0140A	F	RC
115	50	IPII	07/01/00	5	M	CT	HARTFORD		N0080085A	F	RAFT
116	51	IPII	11/05/00	37	M	FL	ORLANDO		N00C0085A	F	BOAT
117	51	IPII	11/05/00	37	M	FL	ORLANDO		X0110232A	F	BOAT

RECORD	CASE	NARRATIVE 1
86	35	AN ASTHMATIC GIRL, AGE 14, DIED AFTER SHE RODE A DOUBLE LOOP ROLLER COASTER AT AN AMUSEMENT PARK. HER ASTHMA ATTACK WAS NOT RELATED TO
87	36	STRUCK HEAD WHILE ON ROLLER-COASTER RIDE - COMPLICATIONS OF SUBDURAL HEMATOMA; HEAD INJURY - AUTOPSY
88	36	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.
89	37	A MAN, AGE 25, WAS KILLED TRYING TO RETRIEVE A CAP FROM UNDER THE TRACKS OF A HIGH-SPEED ROLLER COASTER AT AN AMUSEMENT PARK. AS THE
90	37	A MAN, AGE 24, DIED OF INJURIES RECEIVED TRYING TO RETRIEVE HIS HAT (LOST WHILE RIDING A ROLLER COASTER) FROM A RESTRICTED AREA OF AN
91	38	LAP BAR OF A CARNIVAL RIDE BROKE AND SHE WAS EJECTED - CRANIOCEREBRAL TRAUMA - AUTOPSY YES - 980320CWE7133
92	38	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
93	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 RELEASED.
94	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 THROWN OFF OF A CARNIVAL RIDE.
95	39	A BOY, AGE 12, DIED OF HEAD AND ABDOMINAL INJURIES RECEIVED IN A FALL FROM A WATER RIDE AT AN INDOOR AMUSEMENT PARK A FEW DAYS EARLIER.
96	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. HE ATTEMPTED TO GET OUT
97	40	A GIRL, AGE 8, DIED OF HEART ATTACK AFTER RIDE IN AN AMUSEMENT PARK.
98	41	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
99	41	A 14 MONTH OLD FEMALE WAS KILLED IN A FALL FROM A KIDDIE TRAIN RIDE AT AN AMUSEMENT PARK.
100	42	A MAN, AGE 33, KILLED AND HIS WIFE, AGE 43, WAS INJURED, AND AN EMPLOYEE WAS SERIOUSLY HURT WHEN A ROPE CLEAT PULLED LOOSE FROM THE
101	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 SAILING SHIP RIDE AT A
102	43	A WOMAN, AGE 46, DIED OF SUBDURAL HEMATOMA WITH BLEEDING INTO THE BRAIN 7 DAYS AFTER SHE WAS RIDING A ROLLER COASTER. 99-283
103	44	A 28 YEAR OLD FEMALE VICTIM DIED AND TEN OTHER INDIVIDUALS WERE INJURED WHEN A FIXED AMUSEMENT RIDE'S RAFT CAPSIZED. THE OFFICIAL
104	44	A WOMAN, AGE 28, DROWNED DURING A WATER RIDE AT AN AMUSEMENT PARK WHEN HER RAFT TIPPED OVER. 11 PEOPLE WERE INJURED. VICTIMS MAY
105	45	FELL FROM AMUSEMENT PARK RIDE. BLUNT FORCE INJURIES OF BODY.
106	45	A 17 YEAR OLD GIRL WAS KILLED AND EIGHT OTHER PEOPLE WERE INJURED WHEN A SUPER HIMALAYA RIDE MALFUNCTIONED IN AN AMUSEMENT PARK.
107	45	A GIRL, AGE 17, WAS KILLED WHEN A COUPLING BETWEEN CARS ON AN AMUSEMENT PARK RIDE BROKE CAUSING VIOLENT GYRATIONS THAT THREW HER
108	45	AN AMUSEMENT PARK RIDE'S COUPLING BROKE BETWEEN TOW CARS. 17 YEAR OLD FEMALE WAS THROWN OUT OF THE RIDE. SHE DIED OF HEAD AND
109	46	A BOY, AGE 12, DIED OF MULTIPLE TRAUMATIC INJURIES SUSTAINED IN A FALL FROM A HEIGHT WHILE ON AN AMUSEMENT RIDE AT A THEME PARK.
110	46	A BOY, AGE 12, WAS KILLED AFTER HE FELL FROM AN AMUSEMENT RIDE AT PARK WHEN HE SLIPPED THROUGH A HARNESS ON THE RIDE.
111	47	FELL OFF AMUSEMENT PARK RIDE - BLUNT FORCE INJURY TO HEAD - AUTOPSY
112	47	A MAN, AGE 20, DIED IN AN APPARENT ACCIDENT ON A ROLLER COASTER WHICH RIDERS STAND THROUGH SEVERAL LOOPS THAT TURN THEM UPSIDE DOWN AT
113	47	A MAN, AGE 20, DIED OF BLUNT FORCE INJURED TO HEAD RECEIVED IN AN ACCIDENT ON A ROLLER COASTER WHICH RIDERS STAND THROUGH SEVERAL
114	48	A GIRL, AGE 8, AND HER MOTHER, AGE 39, BOTH WERE KILLED AND TWO OTHER PEOPLE WERE INJURED WHEN THEY WERE APPARENTLY THROWN FROM A ROLLER
114	49	A GIRL, AGE 8, AND HER MOTHER, AGE 39, BOTH WERE KILLED AND TWO OTHER PEOPLE WERE INJURED WHEN THEY WERE APPARENTLY THROWN FROM A ROLLER
114	49	A FEMALE AND HER DAUGHTER WERE KILLED ON A DEFECTIVE ROLLER COASTER AT AN AMUSEMENT PARK.
115	50	A BOY, AGE 5, DROWNED WHEN HE FELL OFF AN INNER TUBE INTO THE PARK'S LAKE WHILE RIDING THE WATER RIDE AT AN AMUSEMENT PARK. HE COULD NOT
116	51	A MALE, AGE 37, DIED AFTER HE STEPPED OUT OF THE WATER RIDE MIDWAY THROUGH IT AND WAS HIT BY ANOTHER BOAT AT AN AMUSEMENT ATTRACTION.
117	51	A MALE, AGE 37, DIED AFTER HE STEPPED OUT OF THE WATER RIDE MIDWAY THROUGH IT AND WAS HIT BY ANOTHER BOAT AT AN AMUSEMENT ATTRACTION.

RECORD	CASE	NARRATIVE 2
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 WAS COMPLICATIONS OF
89	37	RIDE PASSED OVERHEAD HE WAS HIT IN THE HEAD BY THE DANGLING FOOT OF A WOMAN. AGE 28. RIDING THE COASTER. SHE SUFFERED A FRACTURED LEG.
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 AND RELEASED. THE CAUSE
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 HOSPITAL. INVESTIGATING
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	AUTOPSY: YES
106	45	
107	45	OFF. EIGHT OTHERS WERE INJURED.
108	45	INTERNAL INJURIES, 8 OTHERS INJURED.
109	46	99-234-009
110	46	
111	47	YES
112	47	AN AMUSEMENT PARK.
113	47	LOOPS THAT TURN THEM UPSIDE DOWN AT AN AMUSEMENT PARK. 130386
114	48	COASTER WHILE RIDING IN THE CAR THAT SLIPPED BACKWARD AND CRASHED INTO ANOTHER CAR BEING LOADED TO BEGIN THE RIDE
114	49	COASTER WHILE RIDING IN THE CAR THAT SLIPPED BACKWARD AND CRASHED INTO ANOTHER CAR BEING LOADED TO BEGIN THE RIDE
114	49	
115	50	SWIM AND WAS NOT WEARING THE OPTIONAL LEFT VEST PROVIDED FOR WATER
116	51	
117	51	00-04857

RECORD	CASE	NARRATIVE 3
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 THE STATE PENDING
99	41	
100	42	
101	42	
102	43	
103	44	
104	44	
105	45	
106	45	
107	45	
108	45	
109	46	
110	46	
111	47	
112	47	
113	47	
114	48	
114	49	
114	49	
115	50	
116	51	
117	51	

RECORD	CASE	NARRATIVE 4
86	35	
87	36	
88	36	
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	46	
110	46	
111	47	
112	47	
113	47	
114	48	
114	49	
114	49	
115	50	RIDES.
116	51	
117	51	

Appendix B

CPSC In-Depth Investigation Reports of Amusement Ride-Related Incidents from 1 Jan 1990 to 21 June 2001

Appendix B lists 90 in-scope in-depth investigation (INDP) records of amusement ride-related incidents in CPSC files. A complete listing of all investigation reports to date is not provided in this appendix due to space constraints.

Case	Task No	Date	State	City	Age	Sex	Disp	Diag	BdPt	Head	Eye	Fatal
1	900810CCN2216	04/14/90	MO	TROY	26	M	3	64	89	0	0	N
2	900607CNE5194	05/19/90	NJ	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	SMETHPORT	14	F	1	53	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	910307CNE5107	02/22/91	FL	KISSIMMEE	12	F	4	53	31	0	0	N
9	910925CCC2781	05/09/91	IN	MONROVIA	20	M	1	53	82	0	0	N
10	910701CCN1556	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	SEDALIA	12	M	3	52	75	1	0	N
18	930812CCC2490	09/01/91	OK	OKLAHOMA CITY	U	F	1	53	79	0	0	N
19	911009CWE5008	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	911031CWE5025	10/22/91	AZ	PHOENIX	10	M	1	53	88	0	0	N
23	920810CCC1559	07/03/92	ME	BATH	11	M	1	59	75	0	0	N
24	940721CCC2639	07/15/92	OH	BRUNSWICK	22	M	1	66	76	0	1	N
25	921013CWE5008	07/24/92	CO	THORNTON	17	M	1	66	77	1	1	N
26	920730CWE6001	07/25/92	NM	TAOS	22	F	8	57	89	1	0	Y
27	930826CCC1534	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	930413CNE5115	04/07/93	PA	PHILADELPHIA	13	M	1	53	85	0	0	N
31	930915CWE7048	04/30/93	AR	CONWAY	13	F	1	46	82	0	0	N
32	930519CNE5140	05/13/93	PA	MASONTOWN	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	930729CCC1483	06/18/93	NJ	VINELAND	6	F	1	53	89	0	0	N
35	930825CCN2280	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	930927CCC3631	08/15/93	CA	UKIAH	U	F	1	53	75	1	0	N
39	930916CCC1557	08/15/93	WV	LEWISBURG	29	M	1	70	77	0	1	N
40	930917CEP9010	09/04/93	OH	GLOUSTER	8	M	1	67	85	0	0	N
41	940818CCN2210	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	940803CNE5177	07/26/94	PA	WEST PARK	U	U	1	70	87	0	0	N
44	940922CCC1758	08/11/94	CT	MIDDLEBURY	6	M	8	54	87	0	0	Y
45	960730HCC5398	08/11/94	CT	MIDDLEBURY	6	M	8	54	75	1	0	Y
46	940830CWE5024	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	950522CCC1679	05/14/95	NY	ROCHESTER	6	F	4	57	81	0	0	N
49	970424HCC1159	06/14/95	PA	ALLEN TOWN	77	M	8	58	75	1	0	Y
50	950623CCN2264	06/22/95	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	970328HCC1056	08/19/96	NY	VERNON	52	M	8	71	85	0	0	Y
56	960828CCN1755	08/22/96	KS	PAOLA	5	M	1	53	76	0	0	N
57	961016HCC5702	09/14/96	MA	WEYMOUTH	8	F	4	72	75	0	0	N
58	970220CNE5083	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	980708CNE5183	04/25/98	MA	WALPOLE	15	F	1	57	37	0	0	N
66	980601CAA0468	05/07/98	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	990923CCC0749	07/25/98	VA	WILLIAMSBURG	48	F	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	990205CEP9003	09/05/98	MI	RIVER ROUGE	21	F	1	64	79	0	0	N
73	981022CCC3028	09/28/98	AR	PINE BLUFF	28	F	4	57	79	0	0	N
74	990322HWE7187	03/21/99	TX	ARLINGTON	28	F	8	69	85	0	0	Y
75	990524HCN0210	05/23/99	MO	JENNINGS	16	F	4	53	75	0	0	N
76	990712CNE5204	05/27/99	MA	FRAMINGHAM	13	F	1	52	75	1	0	N
77	991021CNE5318	05/30/99	MA	FRAMINGHAM	34	M	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	F	1	53	75	1	0	N
80	990921CCC0732	07/25/99	NY	WALKILL	12	M	0	64	89	0	0	N
81	990903HEP9005	08/25/99	CA	SACRAMENTO	22	F	1	71	85	1	0	N
82	990917CWE6003	09/15/99	CA	SANTA CRUZ	22	M	4	57	34	0	0	N
83	991104CNE5339	09/24/99	RI	LINCOLN	0	0	0	70	87	0	0	N
84	000327HCC0512	02/22/00	FL	DADE CITY	19	F	1	52	75	1	0	N
85	000407CNE5485	04/01/00	PA	PHILADELPHIA	0	M	1	53	87	0	0	N
86	010302CAA2275	04/06/00	TX	BEAUMONT	12	F	1	64	35	0	0	N
87	000822CNE5732	08/18/00	NY	STATEN ISLAND	2	M	1	70	99	0	0	N
88	010103CCC2169	09/30/00	OK	TULSA	8	F	1	53	82	0	0	N
89	010116CNE6063	01/12/01	FL	WEST PALM BEACH	2	M	4	50	92	0	0	N
90	010122CNE6084	01/14/01	FL	WEST PALM BEACH	39	M	4	53	35	0	0	N

Case	Narrative 1
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 WASN'T 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 12 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 CHILDREN'S 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, AND 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-FUN 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 39 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 8 & 9 WERE INJURED WHEN THEY FELL APPROX. 20 FEET FROM A FERRIS WHEEL SEAT. THE RIDE WAS PART OF A TRAVELING CARNIVAL
43	12 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 A 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 52-YEAR OLD MALE INJURED HIS KNEE ON A RIDE AT AN AMUSEMENT PARK AND DIED 5 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 57 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. HE 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 PILED 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 21 YEAR OLD FEMALE VICTIM SUFFERED CONTUSIONS AND ABRASIONS TO HER LOWER TRUNK AFTER RIDING IN AN AMUSEMENT RIDE AT A FAIR WHICH
73	A 28 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 RESTAINING 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 SQUIRMED
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
86	AN AMUSEMENT INFLATABLE 25' SLIDE'S ONE INFLATION FAN LOST POWER AND ONE SIDE OF THE SLIDE DEFLATED. A 12 YEAR OLD FEMALE FELL AN UNKNOWN
87	A TWO YEAR OLD MALE WAS TREATED AND RELEASED FROM THE EMERGENCY ROOM WITH NO INJURIES AFTER HE RAN INTO A MOBILE AMUSEMENT RIDE
88	AN 8-YEAR OLD FEMALE'S LEFT HAND BECAME ENTRAPPED WHILE CLIMBING MOVING STAIRS ON A MOBILE AMUSEMENT RIDE BETWEEN THE STAIR AND SIDE-WALL. THE VICTIM
89	A TWO YEAR OLD MALE SUSTAINED A PARTIAL AMPUTATION OF HIS RIGHT THUMB WHEN HE FELL WHILE WALKING THROUGH A FUNHOUSE AMUSEMENT ATTRACTION AT A FAIR
90	A THIRTY-NINE YEAR OLD MALE SUFFERED BACK AND KNEE INJURIES WHEN THE RIDING TUB HE WAS SEATED IN ON A NON-FIXED AMUSEMENT RIDE HE WAS ON.

Case	Narrative 2
1	WAS SUPPOSED TO LATCH THEM IN BECAME 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 360 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 5 OR 6 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 ABRASION 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	MALFUNCTIONED 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 THUS 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	CONTUSION TO THE LOWER ABDOMEN AND RIGHT HIP AND THE SON SUFFERED A CONTUSION 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, THUS 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 25 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 CYNDRICAL 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 SPUN THE VICTIM'S 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 SWEEPED BENEATH THE ARM THAT THE CAR EXTENDED FROM.
45	BUTTON WHICH RE-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 06/22/95, AT APPROX 8:15 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 VICTIM'S 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 "BICYCLE" 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 (37M, 28F) AND 10 CHILDREN (16F, 14F, 12F, 8F, 8M, 6F, 5F,
64	WERE EJECTED FROM THEIR CAR. THE 15 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 VICTIM'S 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.
86	DISTANCE ONTO A GRASSY SURFACE. THE VICTIM SUFFERED A SPRAINED KNEE.
87	THROUGH AN OPENING IN A FENCE. THE TODDLER WAS PINNED UNDERNEATH THE LEAD CAR OF THE AMUSEMENT RIDE.
88	AN 8-YEAR OLD FEMALE'S LEFT HAND BECAME ENTRAPPED WHILE CLIMBING MOVING STAIRS ON A MOBILE AMUSEMENT RIDE BETWEEN THE STAIR AND SIDE-WALL.
89	AT A FAIRGROUND. HIS THUMB ENTERED THE SPACE BETWEEN A REVOLVING FLOOR MOUNTED TURNTABLE AND THE STATIONARY FLOOR, RESULTING IN THE INJURY.
90	TIPPED OVER. HE FELL APPROXIMATELY TWELVE FEET TO THE ASPHALT SURFACE BELOW. THE VICTIM WHO IS UNDERGOING CONTINUED TREATMENT

Case	Narrative 3
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 VICTIM'S 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 IN- JURIES AND IS UNDERGOING PHYSICAL THERAPY FOR THE NERVE INJURY. AN
33	
34	HOLDING THE POD 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.
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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.
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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 5-7 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	3F, 2F, 2F) 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 15 YEAR OLD VICTIM WAS SEVERE HEAD INJURIES.
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67	NEARBY HOSPITAL. THE VICTIM IS NOW IN REHABILITATION TO RECOVER HIS HEALTH.
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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
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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
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81	OPERATOR ERROR CONTRIBUTED TO THIS INCIDENT.
82	WRIST AND A FRACTURED CHEEK BONE.
83	ROTATION, SEPARATED FROM THE RIDE.
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88	THE VICTIM SUSTAINED A CONTUSION WITH NO BROKEN BONES TO THE HAND. SHE WAS TREATED AND RELEASED FROM A LOCAL HOSPITAL.
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Case	Narrative 4
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2	TAKEN TO THE HOSPITAL UNCONSCIOUS BUT REPORTEDLY HAS GAINED CONSCIOUSNESS AND IS RECOVERING.
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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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35	HOSPITALIZED. THE 9 YEAR OLD VICTIM SUFFERED EXTENSIONS & ABRASIONS.
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39	ACCIDENT OCCURRED AT A STATE FAIR.
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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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50	PLATFORM AT THE NORTH END OF THE FERRIS WHEEL. THE CAR THEN CONTINUED MOVING IN A COUNTERCLOCKWISE DIRECTION, THE RIDE OPERATOR
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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
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56	SPACE CAPSULE, WAS DRAGGED ALONG THE GROUND FOR 15-20 FEET. NO SERIOUS INJURY.
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59	RIDE COULD BE STOPPED. SHE SUFFERED FATAL HEAD INJURIES.
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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.
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78	
79	TAKEN TO THE HOSPITAL UNCONSCIOUS BUT REPORTEDLY HAS GAINED CONSCIOUSNESS AND IS RECOVERING.
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Case	Narrative 5
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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 6
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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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