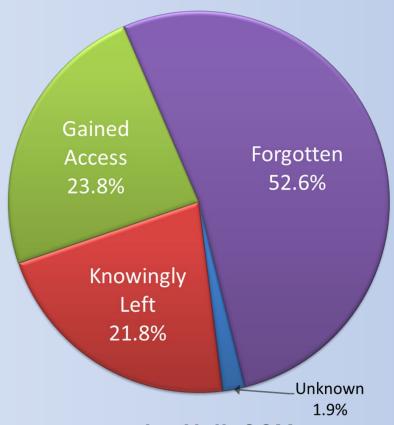
Pediatric Vehicular Heatstroke Deaths: By the Numbers (1998-2024)



Jan Null, CCM

Department of Meteorology and Climate Science San Jose State University January 2025 On average, 37.4 children die from heatstroke inside hot vehicles each year. During the period of 1998 through 2024 that's a total of 1010 Pediatric Vehicular Heatstroke (PVH) deaths that have been documented in the United States.

Data Collection

The statistics presented here were primarily gathered with customized online news searches of electronic media using tools such as Google News; but are supplemented with a deep dive into archived sources. These include newspaper archives, correspondence with reporters, court records, law enforcement officials, district attorneys, medical examiner/coroner offices, and child death review teams. Occasionally, a death is brought to the attention of the author from a third party that has verifiable information never caught by local media, happened in a locale without electronic media or were suppressed by the families or local authorities. It is also clear, that there are other additional cases that go "under the radar" for some of the reasons above, thus the numbers presented here are conservative.

Using electronic news sources yields nearly twice as many reported heatstroke deaths of children in vehicles as more formal methodologies by official agencies using public records. For example, the latest (March 2015) National Highway Traffic Safety Administration (NHTSA) Not-in-Traffic Surveillance (NiTS): Non-Crash Fatalities and Injuries report, based on death certificates from the special mortality files of the National Vital Statistics System (NVSS), estimated an annual average of only 19 fatalities of children (i.e., <14 years) due to heatstroke in vehicles. By tracking deaths via media reports, there were 112 deaths documented in that same 3-year period.

The data presented in this document is an amalgamation of material from the Noheatstroke.org website and its underlying database of the over 969 PVH deaths which have occurred in the United State since 1998. The data cutoff for inclusion in this document was January 15, 2025. Permission is granted to use these materials, with full attribution as: "Source: Jan Null, CCM, Department of Meteorology and Climate Science, San Jose State University, http://noheatstroke.org. A live link back to http://noheatstroke.org is preferred as data on the site changes frequently and this ensures that end users can gain access to the most accurate and up-to-date information.

Please direct all correspondence to: jnull@noheatstroke.org

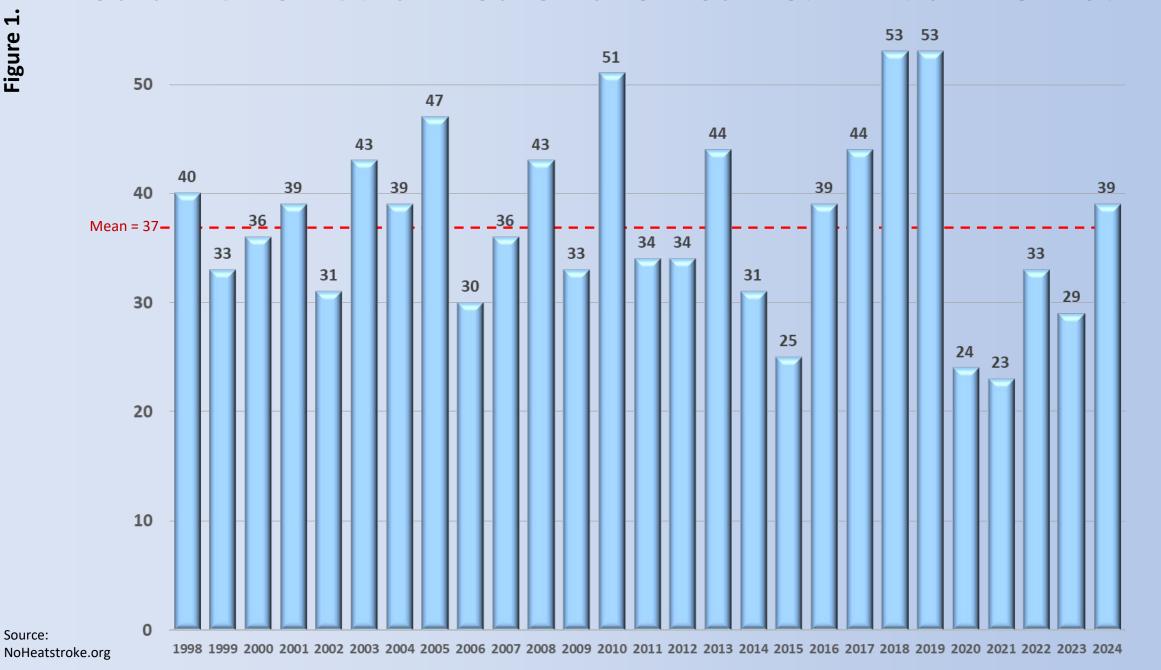
Contents - Pediatric Vehicular Heatstroke Deaths (1998-2024)

- Fig. 1. Annual Distribution
- Fig. 2. Monthly Distribution
- Fig. 3. Monthly Timeline
- Fig. 4. Running Total at the end Month
- Fig. 5. Date and Location of First Death
- Fig. 6. Circumstances Leading to PVH Deaths
- Fig. 7a-c. Annual Distribution by Circumstances
- Fig. 8. Day of the Week

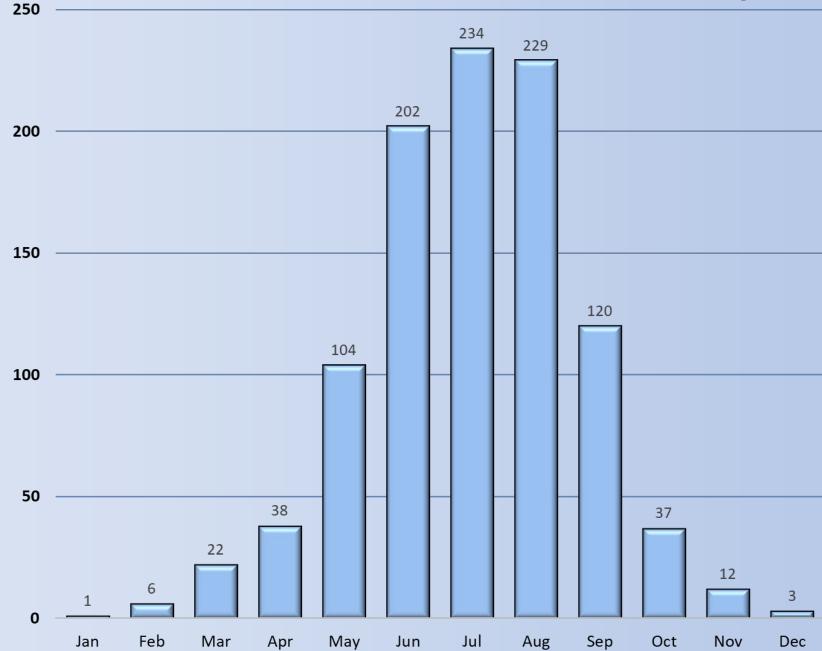
 Fig. 8a-c. Day of the Week by Circumstances
- Fig. 9. Age Distribution
 - Fig. 9a-c. Age Distribution by Circumstances

- Fig. 10. Relationship of Responsible Party
 - Fig. 10a c. Responsible Person by Circumstances
- Fig. 11. Location of the Vehicle
- Fig. 12. Temperature Range
- Fig. 13. PVH Deaths by State
- Fig. 14. Distribution by State Map
- Fig. 15. Per Capita State Distribution Map
- Fig. 16. State Percentage of PVH Deaths vs. National Avg.
- Fig. 17. States with Unattended Child in Vehicle Laws
- Fig. 18. States with "Good Samaritan" Child in Vehicle Laws

Pediatric Vehicular Heatstroke Deaths: Annual Distribution



Pediatric Vehicular Heatstroke Deaths: Monthly Distribution



Pediatric Vehicular Heatstroke Deaths: Monthly Totals

Monthly Totals														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unk	Total
1998				2	4	9	10	11	3				1	40
1999			1	1	2	8	16	4	1					33
2000			1		8	6	7	10	3	1				36
2001			2	1	4	8	10	10	2	1	1			39
2002			1		1	7	10	7	4	2				32
2003				2	4	10	10	12	2	3				43
2004		1	2	5	4	4	9	7	6	1				39
2005					3	9	12	11	10	2				47
2006				2	2	6	7	10			3			30
2007			2		3	6	9	7	8	1				36
2008		1	2	2	2	6	11	12	3	4				43
2009			1	2	3	11	7	6	2			1		33
2010			1	3	6	10	8	15	7	1				51
2011			2		6	10	8	3	3	2				34
2012					4	6	6	12	2		3	1		34
2013					8	9	9	8	9	1				44
2014				4	4	8	7	3	2	3				31
2015				1	1	6	3	8	5		1			25
2016	1		1	3	4	7	9	4	6	4				39
2017		2	2	3	3	10	13	7	2	2				44
2018		1	2	1	8	12	10	9	9				1	53
2019				3	7	8	8	14	7	5	1			53
2020				1	1	4	8	6	3	1		1		25
2021				1		6	3	7	5	1				23
2022					3	9	5	9	8		1			35
2023		1	2	1	6	2	6	7	2	2				29
2024					3	5	13	10	6		2			39
											Total 1998-2024 > 1010			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unk	Total
Avg.	< 1	<1	2	2	4	7	9	8	5	2	< 1	<1	< 1	37
Max.	1	2	2	5	8	12	16	15	10	5	3	1	1	53
Min.	0	0	0	1	1	2	3	3	1	1	1	1	1	23

Cumulative Monthly PVH Deaths

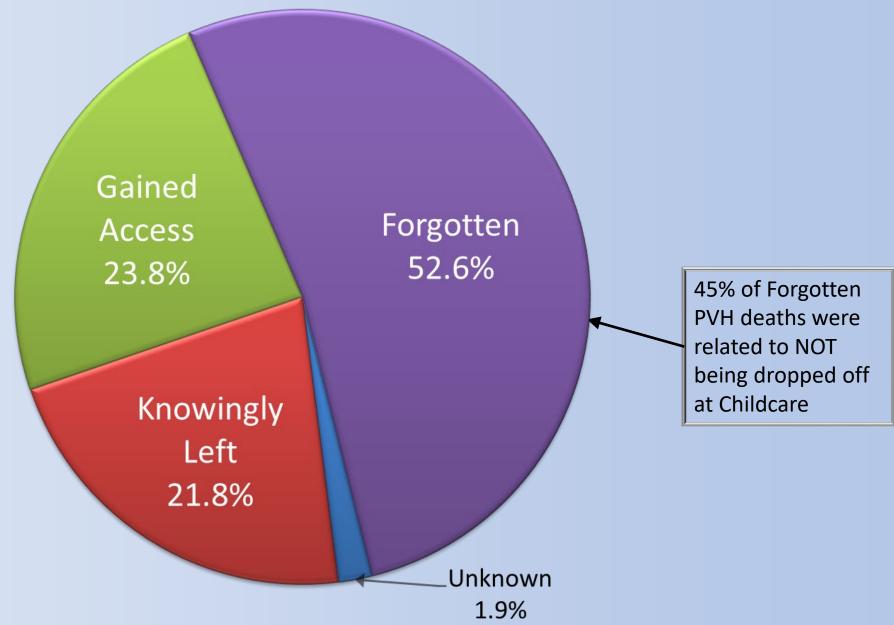
Running Totals through end of each month:													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Final
1998	0	0	0	2	6	15	25	36	39	39	39	39	40
1999	0	0	1	2	4	12	28	32	33	33	33	33	33
2000	0	0	1	1	9	15	22	32	35	36	36	36	36
2001	0	0	2	3	7	15	25	35	37	38	39	39	39
2002	0	0	1	1	2	9	19	26	30	32	32	32	32
2003	0	0	0	2	6	16	26	38	40	43	43	43	43
2004	0	1	3	8	12	16	25	32	38	39	39	39	39
2005	0	0	0	0	3	12	24	35	45	47	47	47	47
2006	0	0	0	2	4	10	17	27	27	27	30	30	30
2007	0	0	2	2	5	11	20	27	35	36	36	36	36
2008	0	1	3	5	7	13	24	36	39	43	43	43	43
2009	0	0	1	3	6	17	24	30	32	32	32	33	33
2010	0	0	1	4	10	20	28	43	50	51	51	51	51
2011	0	0	2	2	8	18	26	29	32	34	34	34	34
2012	0	0	0	0	4	10	16	28	30	30	33	34	34
2013	0	0	0	0	8	17	26	34	43	44	44	44	44
2014	0	0	0	4	8	16	23	26	28	31	31	31	31
2015	0	0	0	1	2	8	11	19	24	24	25	25	25
2016	1	1	2	5	9	16	25	29	35	39	39	39	39
2017	0	2	4	7	10	20	33	40	42	44	44	44	44
2018	0	1	3	4	12	24	34	43	52	52	52	52	53
2019	0	0	0	3	10	18	26	40	47	52	53	53	53
2020	0	0	0	1	2	6	14	20	23	24	24	25	25
2021	0	0	0	1	1	7	10	17	22	23	23	23	23
2022	0	0	0	0	3	12	17	26	34	34	35	35	35
2023	0	0	0	0	3	12	17	26	34	34	35	35	35
2024	0	0	0	0	3	8	21	31	37	37	39	39	39
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Final
Avg.	0	0	1	2	6	14	22	31	36	37	37	38	38
Max.	1	2	4	8	12	24	34	43	52	52	53	53	53
Min.	0	0	0	0	1	6	10	17	22	23	23	23	23

Pediatric Vehicular Heatstroke Deaths: First of Year

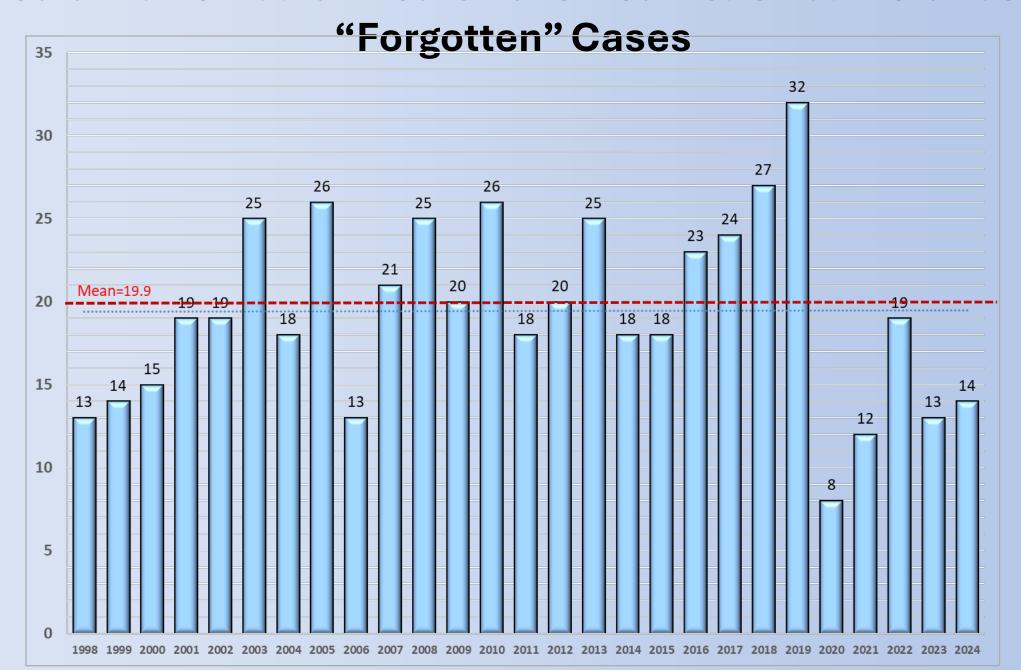
Date & Location of 1st Death							
Year	Date	State					
1998	24-Apr	AR					
1999	16-Mar	OH					
2000	6-Mar	FL					
2001	21-Mar	TX					
2002	14-Mar	ОН					
2003	6-Apr	FL					
2004	5-Feb	HI					
2005	13-May	NJ					
2006	4-Apr	SC					
2007	17-Mar	HI					
2008	15-Feb	WI					
2009	9-Mar	NC					
2010	8-Mar	FL					
2011	8-Mar	TX					
2012	12-May	TX					
2013	10-May	TX					
2014	16-Apr	CA					
2015	20-Apr	AZ					
2016	12-Jan	GA					
2017	6-Feb	FL					
2018	28-Feb	FL					
2019	4-Apr	FL					
2020	25-Apr	TX					
2021	26-Apr	NC					
2022	3-May	GA					
2023	27-Feb	AL					
2024	3-May	SC					
Average	27-Mar						

Pediatric Vehicular Heatstroke Deaths: Circumstances (1998)

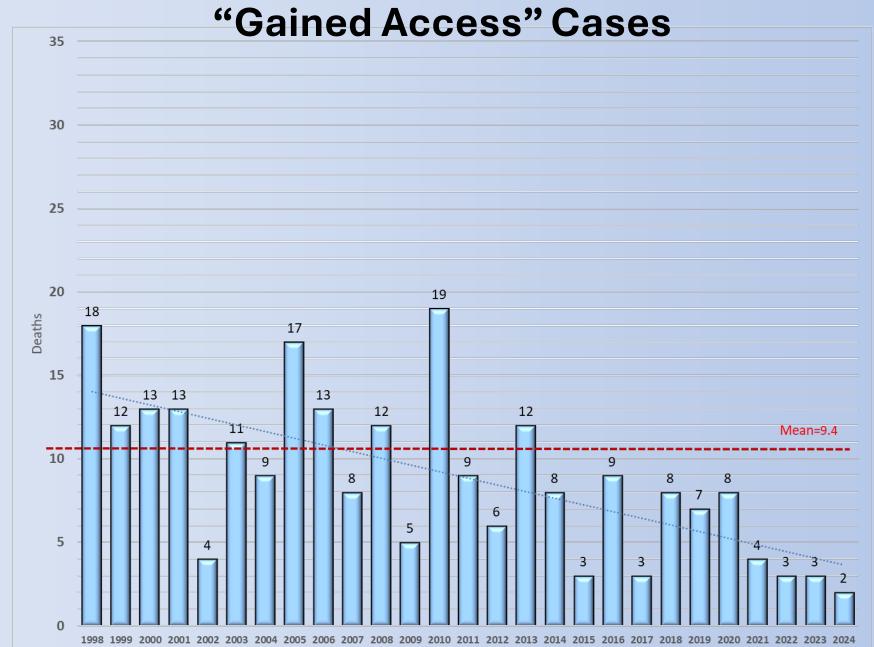




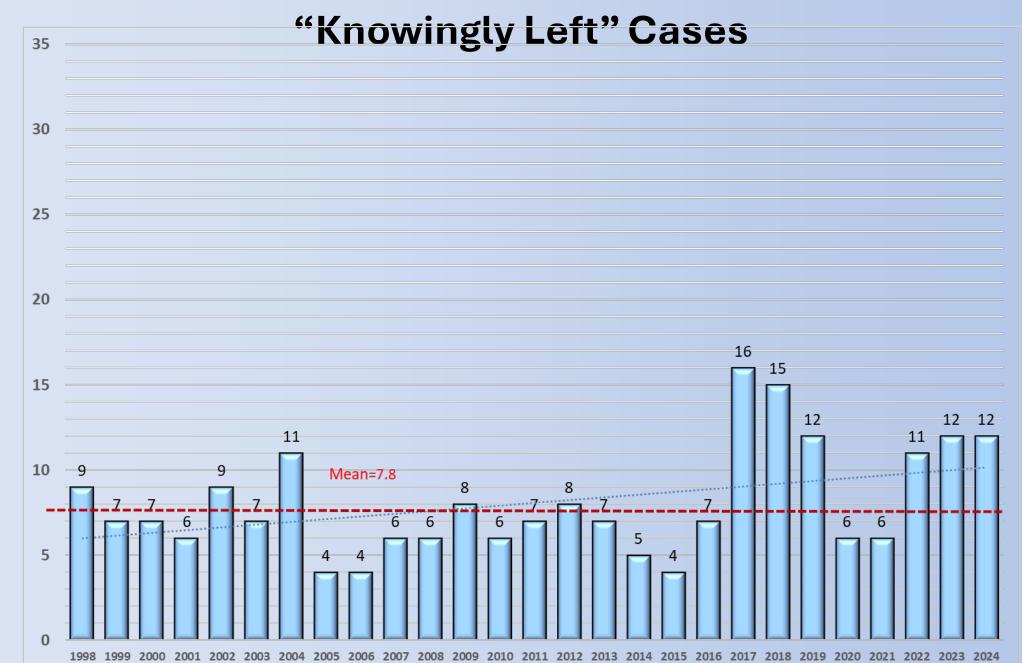
Pediatric Vehicular Heatstroke Deaths: Circumstances



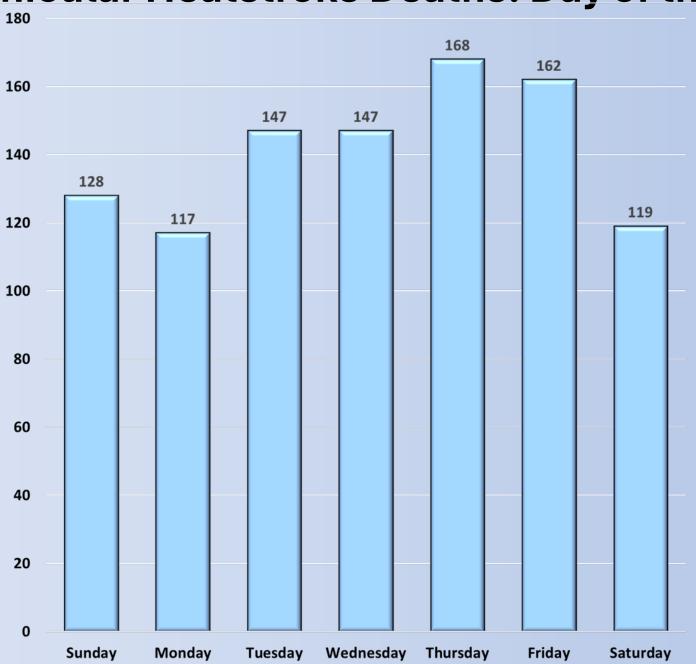
Pediatric Vehicular Heatstroke Deaths: Circumstances

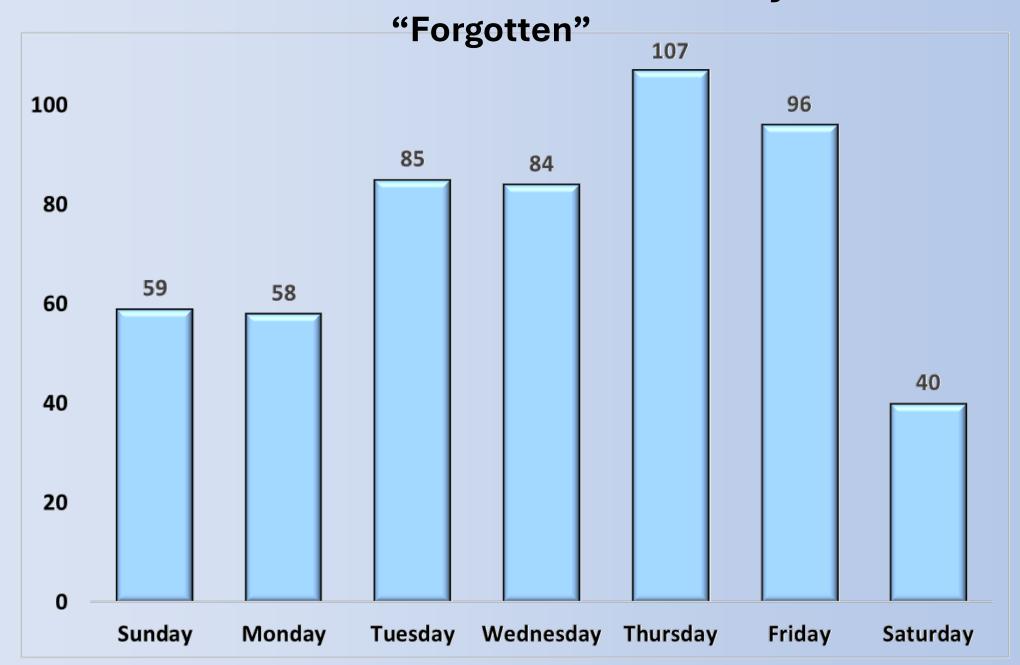


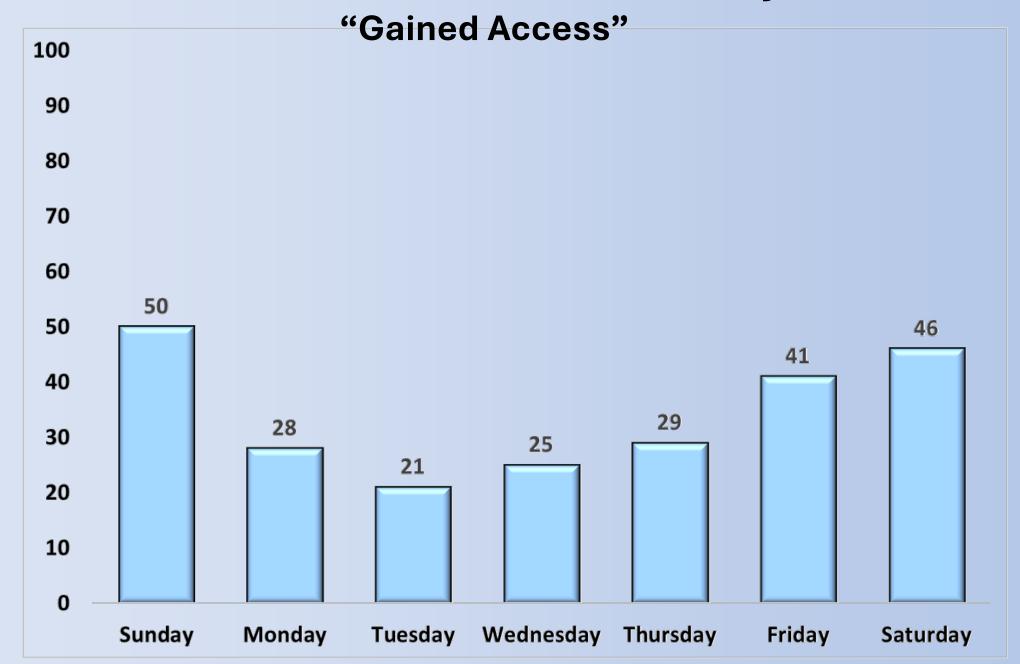
Pediatric Vehicular Heatstroke Deaths: Circumstances

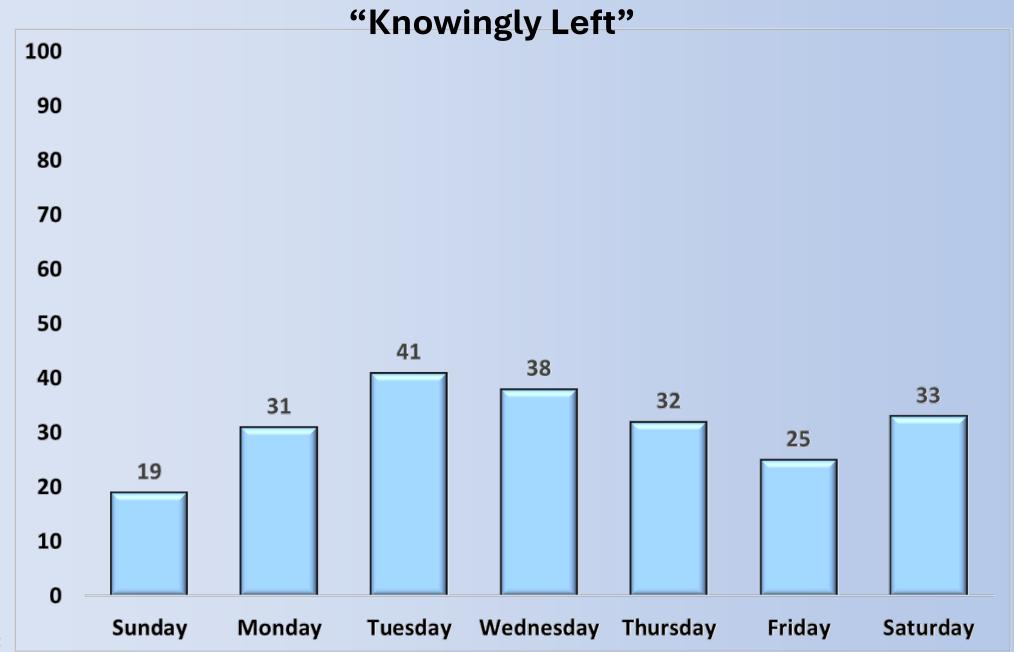


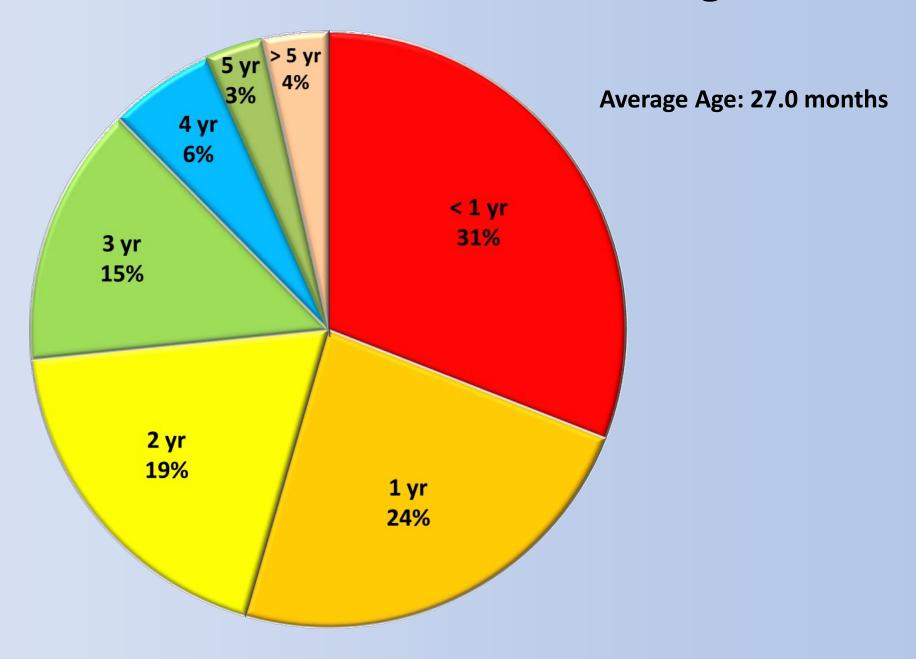
Source: NoHeatstroke.org



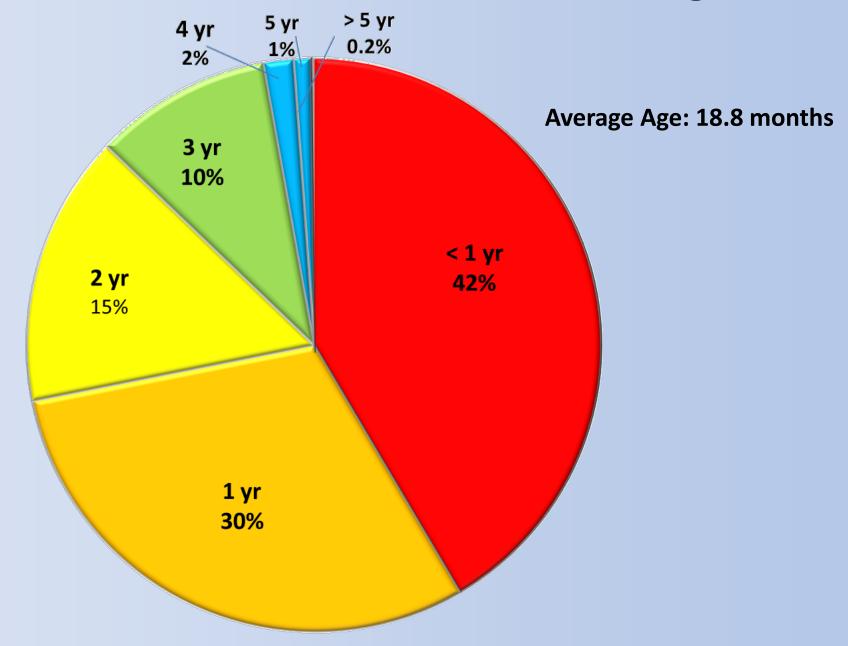


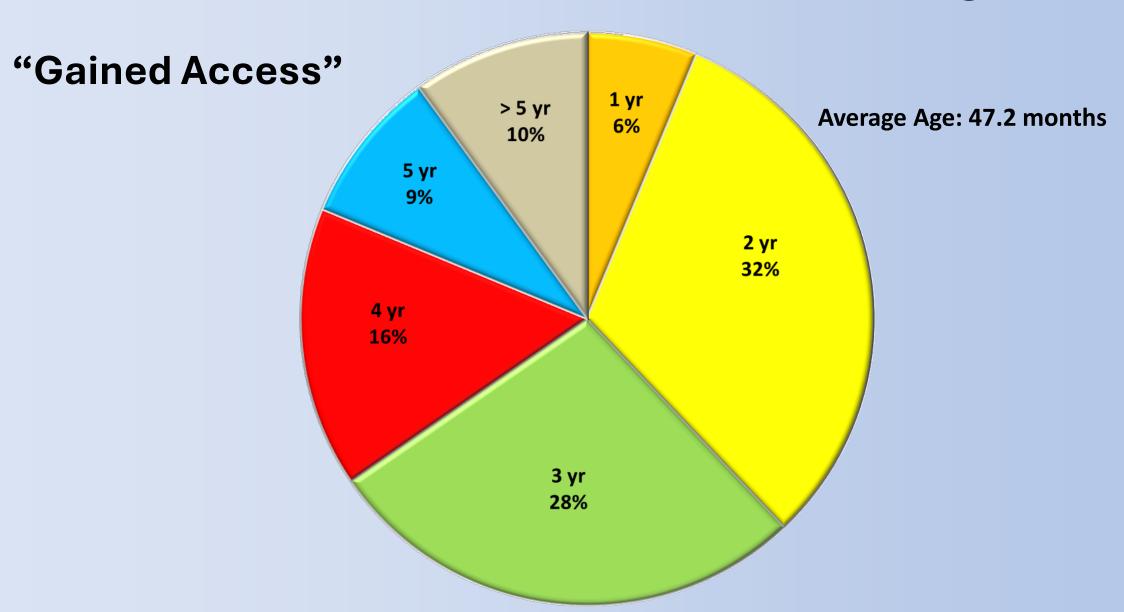


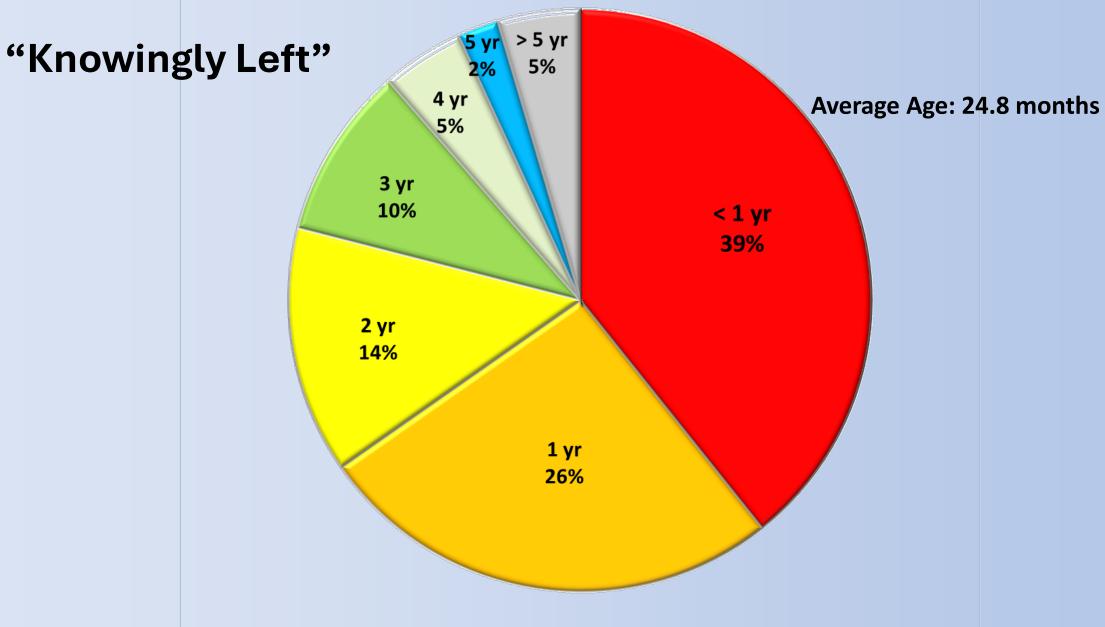




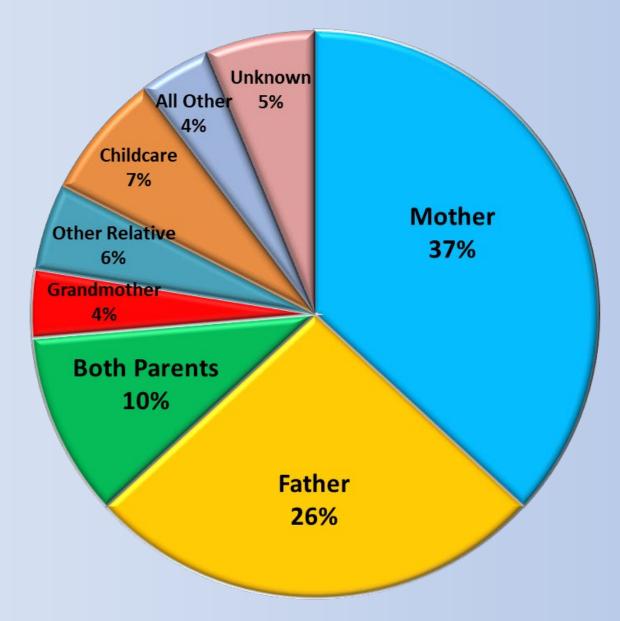


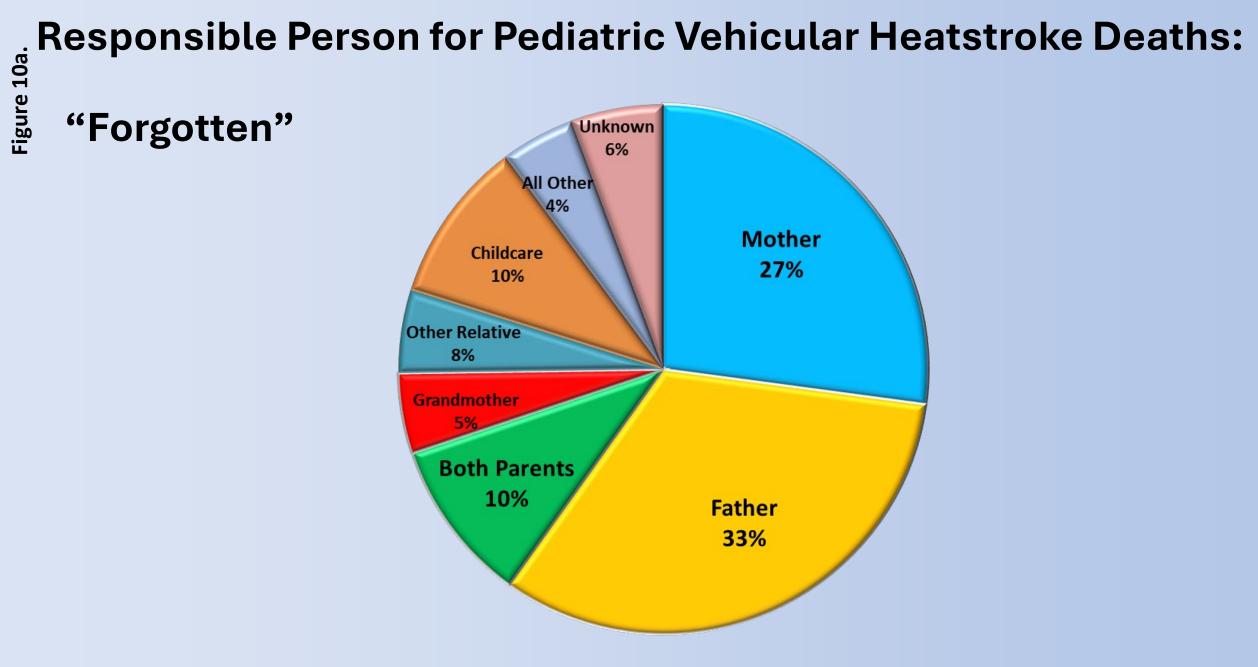


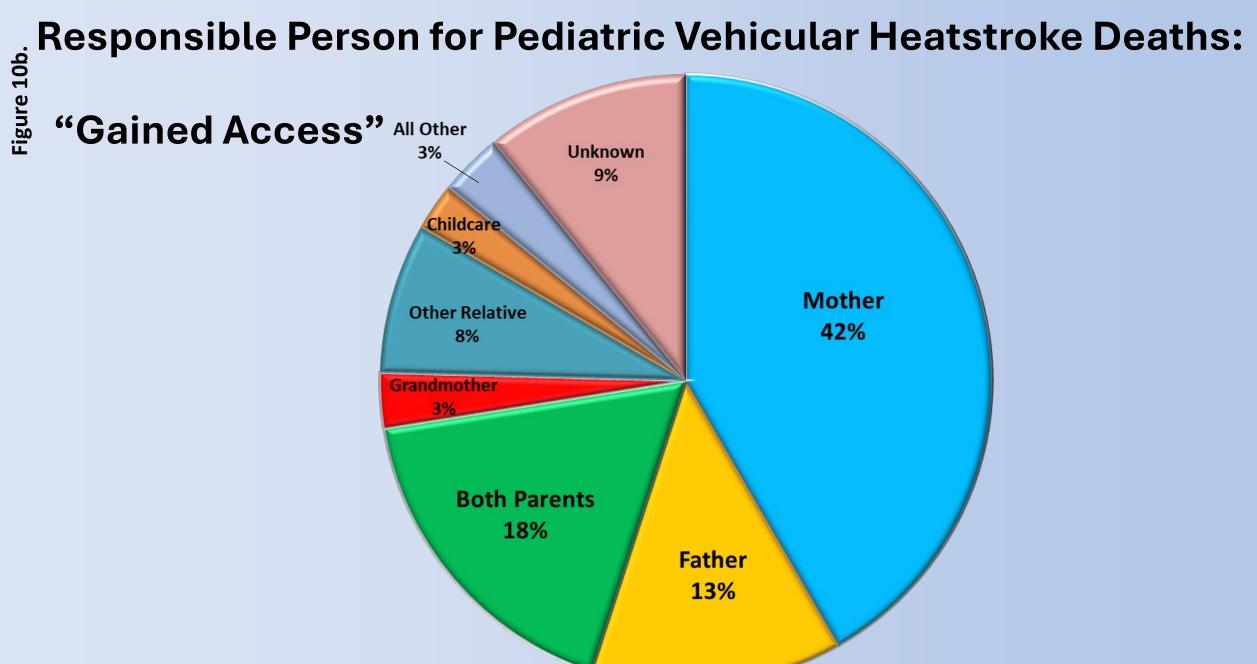


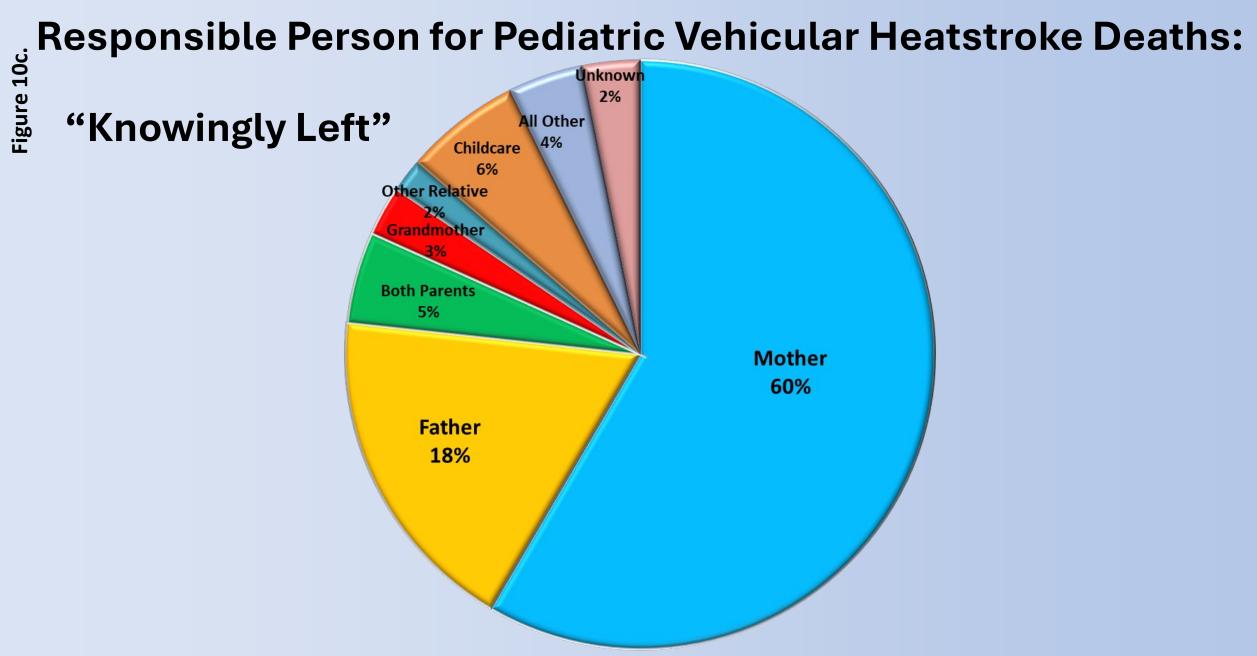


Responsible Person for Pediatric Vehicular Heatstroke Deaths

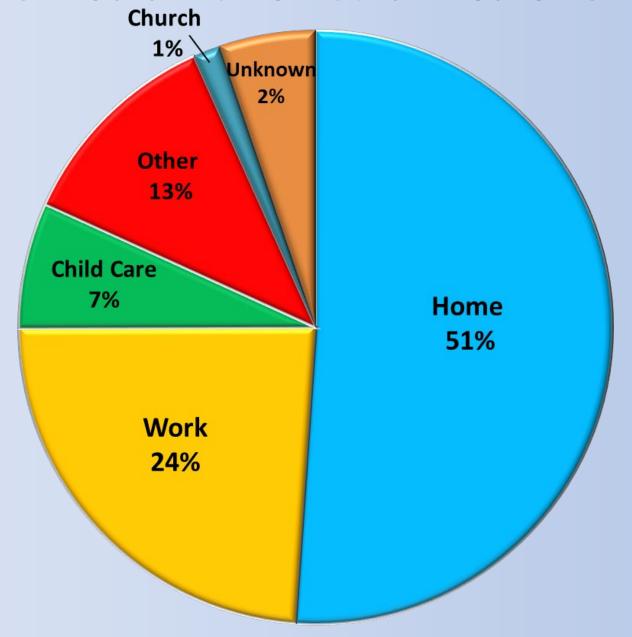


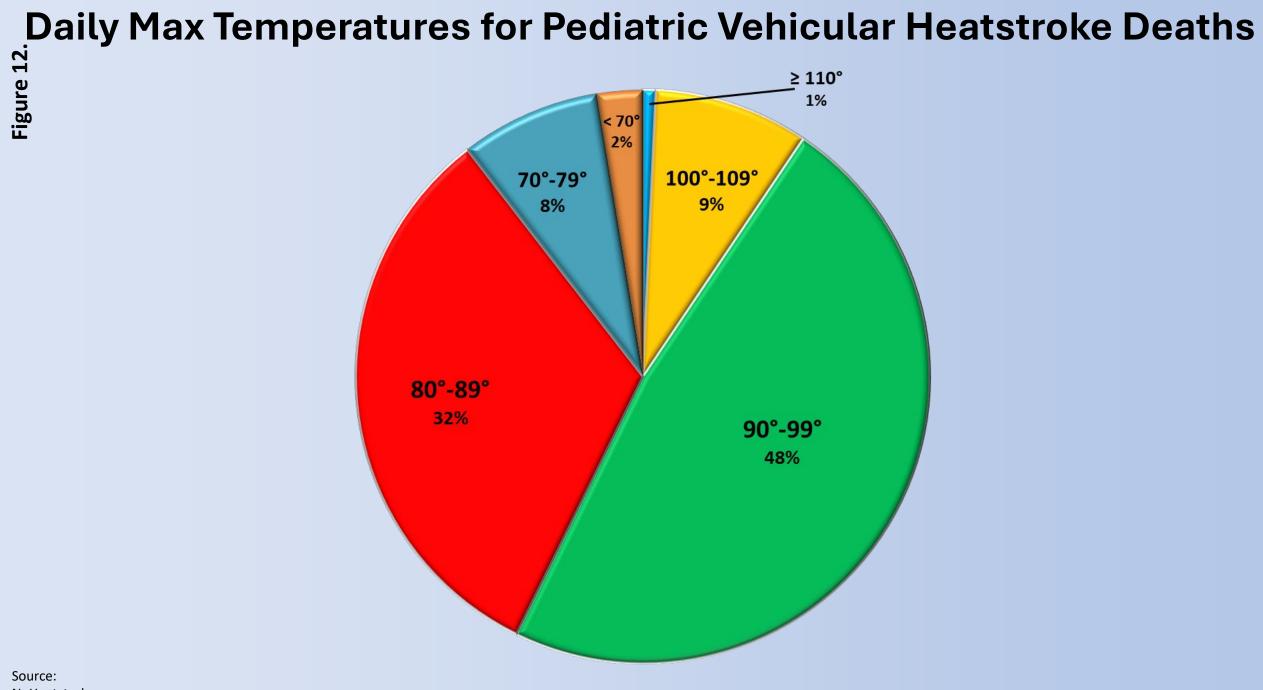






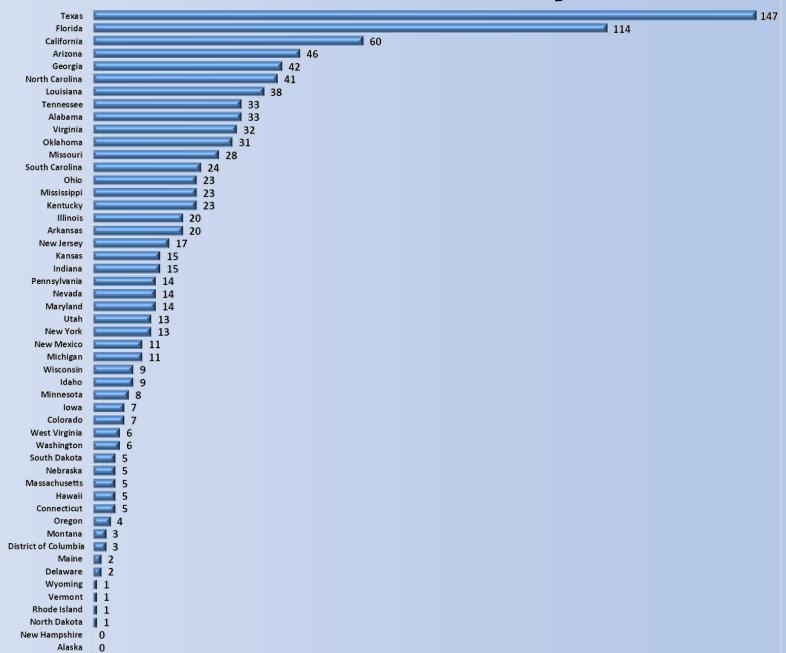
Location of Pediatric Vehicular Heatstroke Deaths



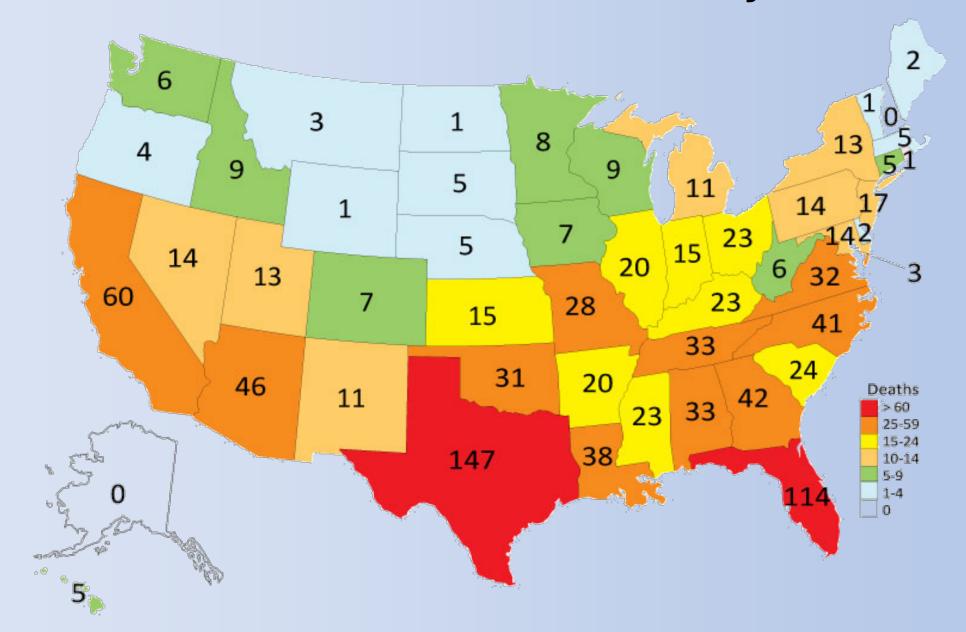


Pediatric Vehicular Heatstroke Deaths by State

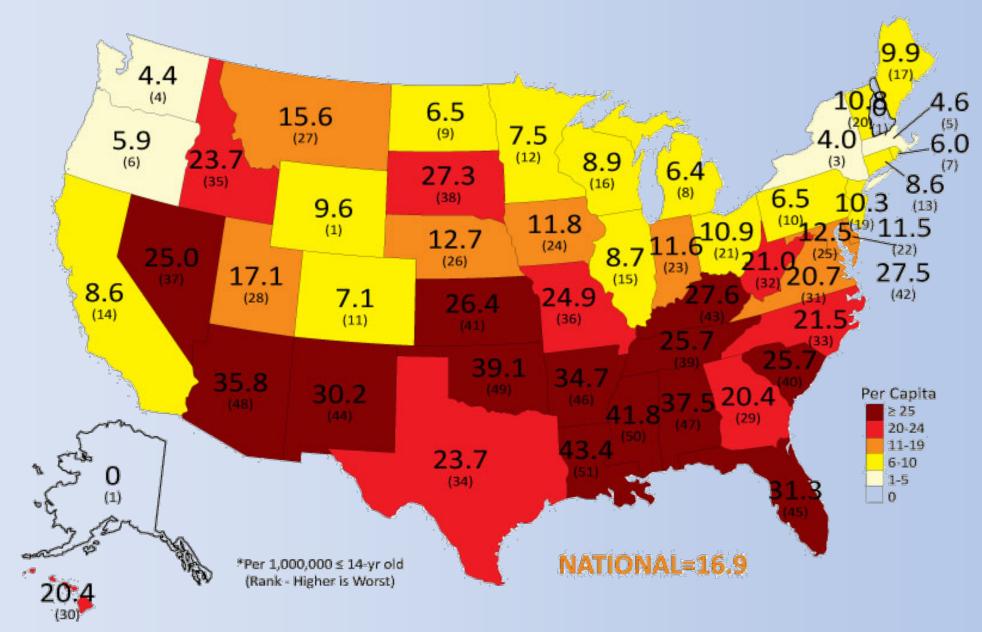
State	Deaths
Texas	147
Florida	114
California	60
Arizona	46
Georgia	42
North Carolina	41
Louisiana	38
Alabama	33
Tennessee	33
Virginia	32
Oklahoma	31
Missouri	28
South Carolina	24
Kentucky	23
Mississippi	23
Ohio	23
Arkansas	20
Illinois	20
New Jersey	17
Indiana	15
Kansas	15
Maryland	14
Nevada	14
Pennsylvania	14
New York	13
Utah	13
Michigan	11
New Mexico	11
Idaho	9
Wisconsin	9
Minnesota	8
Colorado	7
lowa	7
Washington	6
West Virginia	6
Connecticut	5
Hawaii	5
Massachusetts	5
Nebraska	5
South Dakota	5
Oregon	4
District of Columbia	3
Montana	3
Delaware	2
Maine	2
North Dakota	1
Rhode Island	1
Vermont	1
Wyoming	1
Alaska	0
New Hampshire	0



Pediatric Vehicular Heatstroke Deaths by State (1998-2024)



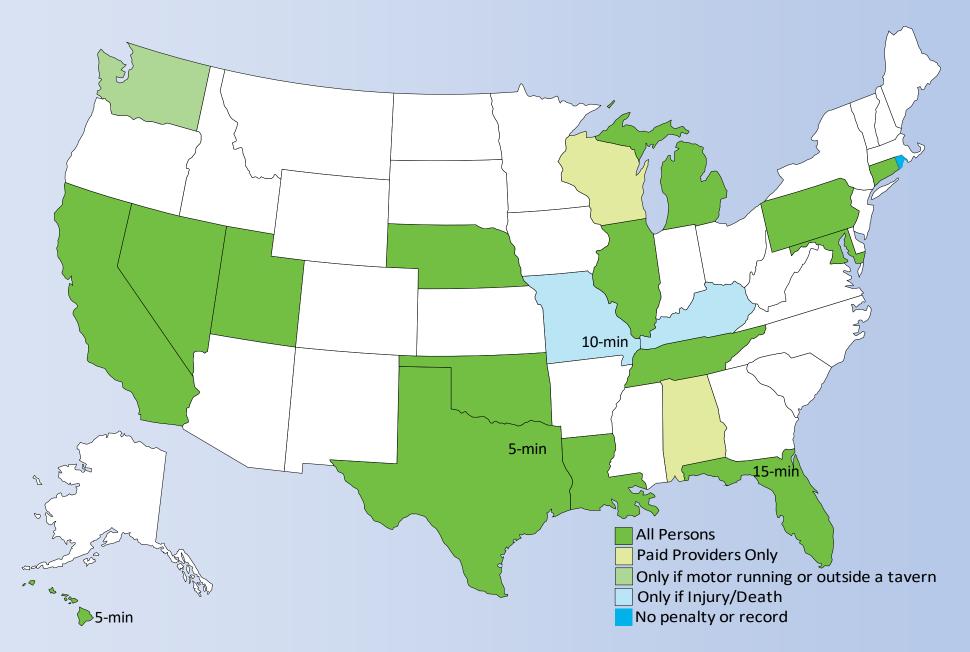
Per Capita Pediatric Vehicular Heatstroke Deaths by State (1998-2024)



Pediatric Vehicular Heatstroke Circumstances by State

Notio	nol Averegee	Forgotten	Gained	Left			
INALIO	nal Averages	52.6%	23.8%	21.8%			
1998-2024	Highlighted RED >5% N	lational Average. BLUE < 5% of Average					
Totals	State	Forgotten	Gained	Left			
147	Texas	61%	22%	15%			
114	Florida	68%	15%	15%			
60	California	47%	20%	30%			
46	Arizona	54%	24%	22%			
42	Georgia	45%	14%	36%			
41	North Carolina	49%	24%	27%			
38	Louisiana	55%	24%	21%			
33	Alabama	55%	27%	15%			
33	Tennessee	39%	27%	33%			
32	Virginia	69%	3%	25%			
31	Oklahoma	48%	32%	19%			
28	Missouri	29%	32%	29%			
24	South Carolina	50%	21%	29%			
23	Kentucky	43%	43%	13%			
23	Mississippi	57%	22%	17%			
23	Ohio	43%	30%	26%			
20	Arkansas	50%	30%	20%			
20	Illinois	40%	30%	25%			
17	New Jersey	59%	24%	18%			
15	Indiana	53%	33%	13%			
15	Kansas	47%	33%	13%			
14	Maryland	50%	14%	36%			
14	Nevada	64%	21%	14%			
14	Pennsylvania	50%	36%	14%			

21 States with Unattended Child in Vehicle Laws



Source: NoHeatstroke.org

