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PURSUIT STUDY

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KENTUCKY STATE POLICE RESEARCH AND DEVELOPMENT SECTION

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KENTUCKY STATE POLICE PURSUIT STUDY, 1989-91

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Captain Randy Overstreet, Commander

June 1991

KENTUCKY STATE POLICE PURSUIT STUDY, 1989-91

Statistical analyses of police pursuit driving have typically been approached from a largely urban or suburban service population perspective. The California Highway Patrol study (1983) is perhaps the most widely-known of these studies, followed by the Alpert-Dunham studies examining pursuit driving data from the Metro-Dade County Police Department in Miami, Florida (1985-87). Other recent pursuit driving studies have focused on Mesa, Arizona; Nassau County, New York; Phoenix, Arizona; and St. Petersburg, Florida.

The Kentucky State Police is the primary and, in some cases, the only police department serving the smaller cities and the rural areas of Kentucky. Thinking that a statistical analysis of police pursuit driving from a rural police department perspective could prove insightful, this agency began compiling pursuit driving data from intra-agency teletypes in 1989. Now, with the first twenty-four months of data assembled, it is possible to state the contrasts and similarities apparent between urban and rural police pursuit driving.

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DEFINITION

For the purposes of this study, a "PURSUIT" is defined as: "AN ACTIVE ATTEMPT BY A LAW ENFORCEMENT OFFICER ON DUTY IN A PATROL CAR TO APPREHEND ONE OR MORE OCCUPANTS OF A MOVING MOTOR VEHICLE, PROVIDING THE DRIVER OF SUCH VEHICLE IS AWARE OF THE ATTEMPT AND IS RESISTING APPREHENSION BY MAINTAINING OR INCREASING HIS SPEED OR BY IGNORING THE LAW ENFORCEMENT OFFICER'S ATTEMPT TO STOP HIM."

COMPARISON OF URBAN AND RURAL POLICE DEPARTMENT RESULTS

As an overview to the 1989-91 Kentucky State Police pursuit driving data, a direct comparison with the 1985-86 Metro-Dade County Police Department is useful. Table I shows, in the category "DURATION IN MINUTES," a tendency in the urban police department towards more short-duration pursuits and fewer long-duration pursuits than the rural police department. 77.7% of the urban agency pursuits lasted 0-5 minutes, versus 64.5% of the rural agency pursuits. More significantly, only 6.5% of the urban agency pursuits extended 11 or more minutes, while 17.3% of the rural agency pursuits lasted that long.

In the "REASON FOR PURSUIT" category, the urban agency pursuit is shown to be instigated more often for Traffic offenses, a BOLO, a Felony offense or Other (such as equipment violations) than a pursuit in its rural agency counterpart. Conversely, by a margin of 4.0% to 33.9%, the urban agency pursuit is much less likely than a rural agency pursuit to be instigated by Reckless Driving/DUI.

In the "OUTCOME OF PURSUIT" category, the urban agency pursuit is less likely, by 61.8% to 77.1%, to result in an arrest; is more likely, by 37.2% to 22.7% to result in an escape; and is more likely, by 1.0% to 0.2%, to result in a death than a rural agency pursuit. Also, while 14.3% of urban agency pursuits result in personal injury, only 4.5% of rural agency pursuits result in same.

A "FORCIBLE STOP" is less likely to be utilized in the urban agency pursuit -than the rural agency pursuit by a margin of 7.0% to 12.9%, yet, the likelihood of accident illustrated by "TOTAL ACCIDENTS/TOTAL PURSUITS" is more probable in the urban agency pursuit by a margin of one (1) accident per 2.9 pursuits to

one (1) accident per 4.0 pursuits.

COMPARISON OF RURAL POLICE DEPARTMENT PURSUITS - WITHOUT AND WITH ACCIDENT

Beyond the comparison of urban and rural police department pursuit driving data, a second focus of the Kentucky State Police study was a comparative analysis of what types of pursuits lend themselves to an incidence of accident and, hence, injury, and what types don't. Table II shows, in the category "MONTH OF YEAR," that the plurality of pursuits without accident occurs in April, while the plurality of pursuits with accident occurs in April and December (a tie). Saturday is the "DAY OF WEEK" that any pursuit is most likely to occur - without or with accident. The 6-hour period from 18:01 to 24:00 is the "TIME OF DAY" that any pursuit is most likely to occur.

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74.1% of pursuits without accident take place on a 2-lane "TYPE OF ROADWAY" while a virtually-identical 77.0% of pursuits with accident also occur on 2-lane roadway. A 47.6% plurality of pursuits without accident and a 49.5% majority of pursuits with accident range in the 61-90 MPH "TOP SPEED (SUSPECT)." Interestingly, among the 510 reported pursuits in this study, only ten (10) involved suspect vehicle speed in excess of 120 MPH and only 10.0% of these involve an accident. Conversely, 109 reported pursuits involved suspect vehicle speed in the 0-60 MPH range and 18.3% of these involved an accident.

The average "TOP SPEED (SUSPECT)" of pursuits without accident rose from 79.5 MPH in the 1989-90 half of the study to 81.4 MPH in the 1990-91 half. A rise from 80.3 MPH to 84.2 MPH was noted in the average "TOP SPEED (SUSPECT)" of pursuits with accident. Instances of suspect vehicle speed in excess of 120 MPH grew from one (1) in 1989-90 to nine (9) in 1990-91. For the full

twenty-four month observation period, the average "TOP SPEED (SUSPECT)" of pursuits without accident was 80.5 MPH, with accident was 82.0 MPH, and for all pursuits was 81.0 MPH.

Under "POLICE UNITS INVOLVED," 58.6% of pursuits without accident and 53.1% of pursuits with accident involve only one police unit. A clearer difference emerges when four or more police units are involved: then, 13.4% of pursuits without accident are found in this category versus 23.9% of pursuits with accident. The average pursuit without accident involved 2.0 police units versus 2.7 units for the average pursuit with accident.

The majority of all pursuits, as shown under "DURATION IN MINUTES," lasts 0-5 minutes. There is an inclination for pursuits without accidents to be shorter in duration than pursuits with accidents; this is most plainly evidenced by a comparison of the 14.9% of pursuits without accident extending 11 or more minutes versus the 25.7% of pursuits with accident extending into the same range. The average pursuit without accident lasted 6.1 minutes versus 9.0 minutes for the average pursuit with accident.

A Traffic violation was the "REASON FOR PURSUIT" for the plurality of pursuits without accident, while Reckless Driving/DUI was the instigating incident for the plurality of pursuits with accident. In the same "REASON FOR PURSUIT" category, pursuits with accidents are more likely to ensue from a BOLO, Reckless Driving/DUI or Other (such as equipment violations) than pursuits without accidents, and less likely to ensue from Traffic offenses or Felony offenses.

Regarding the "OUTCOME OF PURSUIT," the driver of the suspect vehicle was arrested in 74.8% of the pursuits without accident and in 84.9% of the pursuits with accident. A darker way of looking at this is that, if the goal of a

pursuit is immediate apprehension, 25.2% of pursuits without accident and 15.1% of pursuits with accidents accomplish nothing. The ultimate in futility occurs when the suspect vehicle crashes and the suspect still manages to flee the scene on foot; this scenario plays out in 5.3% of pursuits with accidents. Overall, a "FORCIBLE STOP" had to be employed in 8.3% of the pursuits without accidents and in 29.2% of the pursuits with accidents.

Over half - 51.6% - of the pursuits without accidents were related to "ALCOHOL OR DRUGS," i.e., the suspect was either initially pursued on suspicion of an alcohol or drug offense and escaped or was apprehended and charged with an alcohol or drug offense. Even more - 61.9% - of the pursuits with accidents were related to "ALCOHOL OR DRUGS."

A composite profile of a typical pursuit with accident can be drawn to emphasize its differences from a typical pursuit without accident. It would look like this: A typical pursuit with accident is more likely, in comparison to a typical pursuit without accident, to occur in February, April, June, July, September, November or December; to occur on a Wednesday, Friday, or Saturday; to occur between 18:01 and 24:00; to occur on 4 or 4+ lane highways; to incur a suspect's top speed of from 61-90 MPH or from 91-120 MPH; to result in the involvement of four or more police units; to last 6-10 minutes or 11 or more minutes; to be instigated by a BOLO, Reckless Driving/DUI, or Other (typically an equipment violation); to lead to the suspect's apprehension or death; to require a forcible stop; and to be alcohol or drug-related.

INCIDENCE OF ACCIDENT, INJURY, OR DEATH IN RURAL POLICE DEPARTMENT PURSUITS

A third focus of the Kentucky State Police study was an examination of the

critical circumstances involved in accidents, injuries, or deaths stemming from pursuits. Table III shows that the greatest likelihood of a pursuit-engendered accident is when "SUSPECT VEHICLE OVERTURNS OR HITS BARRIER;" such an accident occurs in 1/7.5 pursuits. The second-greatest likelihood is a collision between "POLICE VEHICLE/SUSPECT VEHICLE;" this occurs in 1/10.6 pursuits. The remaining likelihoods of accidents are much more remote: "POLICE VEHICLE OVERTURNS OR HITS BARRIER" in 1/72.9 pursuits, "SUSPECT VEHICLE/CIVILIAN VEHICLE" collision in 1/72.9 pursuits, "POLICE VEHICLE/CIVILIAN VEHICLE" collision in 1/127.5 pursuits and "POLICE VEHICLE/POLICE VEHICLE" collision in 1/170.0 pursuits.

The greatest risk of personal injury in a pursuit-engendered accident is when a collision occurs between "POLICE VEHICLE/CIVILIAN VEHICLE;" the rate of injury here is 1/2.0 accidents. The second-greatest risk of injury is when "SUSPECT VEHICLE OVERTURNS OR HITS BARRIER;" the rate of injury is 1/2.7 accidents. The third-greatest risk is when "POLICE VEHICLE OVERTURNS OR HITS BARRIER;" the rate of injury is 1/7.0 accidents. No other categories of accident resulted in injury in this study.

Regarding the risk of death in a pursuit-engendered accident, only one death was attributable to pursuits in this study. That one death occurred when "SUSPECT VEHICLE OVERTURNS OR HITS BARRIER," yielding an incidence of death of 1/68.0 such accidents.

CONCLUSION

To bring this analysis of the 5/1/89-4/30/91 Kentucky State Police pursuit driving data to both a close and a summation, a quick comparison to the

findings of previous pursuit studies follows:

CENTER FOR ENVIRONMENT AND MAN STUDY, 1969-70

- Finding: Majority of pursuitrelated fatalities are incurred by the fleeing driver, passengers, or uninvolved bystanders.
- 2. Finding: Event that triggers pursuit is traffic violation in more than 90% of cases.
- 3. Finding: Alcohol plays a role in more than half the cases in which driver attempts to evade apprehension.
- 4. Finding: A significant number of known offenders (roughly 15%) driving without valid license at time of pursuit.
- Finding: Only a relatively small number (3 to 8%) of pursuits involve stolen vehicles.
- 6. The majority of pursuits occur at night or on weekends.

CALIFORNIA HIGHWAY PATROL STUDY, 1983

- Finding: Contrary to a 1968 study by Physicians for Automotive Safety that reported 70% of police pursuits to result in accident, this study found that only 29% result in accident.
- 2. Finding: Contrary to past studies that claimed up to 20% of pursuits resulted in death, this study found that only 1% result in death.

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KENTUCKY STATE POLICE STUDY, 1989-91

- 1. Finding: Only pursuit-related fatality was incurred by passenger.
- 2. Finding: Event that triggers pursuit is traffic violation in only 40.6% of cases.
- 3. Finding: <u>Slightly more than</u> <u>half (53.9%)</u> of the pursuits are alcohol or drug-related.
- 4. Finding: 24.7% of known are offenders are driving without valid license at time of pursuit.

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- 5. Finding: Only 2.5% of pursuits involve stolen vehicles.
- 6. Finding: 79.6% of pursuits occur between 18:01 and 06:00 and 50.0% of pursuits occur on either Saturday or Sunday.

KENTUCKY STATE POLICE STUDY, 1989-91

- 1. Finding: 22.2% of pursuits result in accident.
- 2. Finding: 0.2% of pursuits result in death.

- 3. Finding: Contrary to past studies that claimed up to 50% of pursuits resulted in serious injury, this study found that only 11% result in injury of any kind, including minor injury.
- 4. Finding: Pursuits result in an apprehension rate of approximately 77%.
- 5. Finding: Most pursuits last 10 minutes or less.

THE BECKMAN REPORT, 1985

- 1. Finding: When an officer does not have a back-up unit, the chance of the suspect's escaping is increased.
- 2. Finding: Use of roadblocks and ramming by police increases the apprehension rate while reducing the overall injury rate.

- 3. Finding: <u>5.1%</u> of pursuits result in injury of any kind, including minor injury.
- 4. Finding: Pursuits result in an overall apprehension rate of 77.1%.
- 5. Finding: 82.7% of pursuits last 10 minutes or less.

KENTUCKY STATE POLICE STUDY, 1989-91

- 1. Finding: Multiple-unit pursuits result in a 19.4% escape rate while single-unit pursuits result in a 25.2% escape rate. ".
- 2. Finding: Use of a forcible stop increases the apprehension rate from 76.0% to 95.6%; no injuries were incurred in the 48 collisions between a police vehicle and a suspect vehicle, while 28 injuries were incurred in the 89 other collisions recorded in this study.

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		¶ METRO-DA ¶ 8/1/85 ¶	ADE CO. P.D. - 7/31/86	<pre>KENTUCKY STATE POLICE 5/1/89 - 4/30/91 </pre>			
NUMBER OF PURSUITS		¶ ¶ 398	(100.0%)	¶ 510	(100.0%)		
DURATION IN MINUTES	- 0-5	309	(77.7)	93	(64.5)		
	- 6-10	63	(15.8)	93	(18.2)		
	- 11+	26	(6.5)	88	(17.3)		
REASON FOR PURSUIT	- Traffic	241	(60.5)	207	(40.6)		
	- BOLO	52	(13.1)	37	(7.3)		
	- Felony	35	(8.8)	25	(4.9)		
	- Reckless/DUI	16	(4.0)	173	(33.9)		
	- Other	54	(13.6)	68	(13.3)		
OUTCOME OF PURSUIT	- Arrest	1 246	(61.8)	393	(77.1)		
	- Escape	1 148	(37.2)	116	(22.7)		
	- Death*	1 4	(1.0)	1	(0.2)		
	- Accident	N.A.	N.A.	1 113	(22.2)		
	- No Accident	N.A.	N.A.	1 397	(77.8)		
	– Injury	¶ 57	(14.3)	1 23	(4.5)		
	– No Injury	¶ 341	(85.7)	1 487	(95.5)		
FORCIBLE STOPS	- Yes - No	¶ 28 ¶ 370	(7.0) (93.0)	¶ 66 ¶ 444 ¶	(12.9) (87.1)		
TOTAL ACCIDENTS/TOTAI	L PURSUITS	¶ ¶ ¶ 135/398 ¶	(1/2.9)	¶ ¶ 128/510 ¶	(1/4.0)		
TOTAL INJURIES/TOTAL	PURSUITS	¶ N.A.	<u>5</u> -	¶ 28/510	(1/18.2)		

*Excluded from Arrest count.



KENTUCKY STATE POLICE PURSUITS 5/1/89 - 4/30/91 TABLE II

	¶ TOTAL ¶ ¶	¶ ¶ ¶	JAN	FEB	MAR	APR	МАҮ	JUN	JUL	AUG	SEP	OCT	NOV	DEC ¶ ¶ ¶
PURSUITS WITHOUT ACCIDENT	1 397 1 (100.0 ¹ 1	¶ \$) ¶ ¶ ¶	34 (8.6)	31 (7.8)	34 (8.6)	45 (<u>11.3</u>)	36 (9.1)	26 (6.5)	41 (10.3)	29 (7.3)	20 (5.0)	33 (8.3)	30 (7.6)	38 ¶ (9.6) ¶ ¶
PURSUITS WITH ACCIDENT	1 113 1 (100.0 ³ 1 1	1 	6 (5.3)	12 (10.6)	6 (5.3)	13 (<u>11.5</u>)	8 (7.1)	10 (8.8)	12 (10.6)	5 (4.4)	12 (10.6)	5 (4.4)	11 (9.9)	13 ¶ (<u>11.5</u>)¶ ¶ ¶
ALL PURSUITS	¶ ¶ 510 ¶ (100.0	¶ ¶ 5)¶	40 (7.8)	43 (8.4)	40 (7.8)	58 (<u>11.4</u>)	44 (8.6)	36 (7.1)	53 (10.4)	34 (6.7)	32 (6.3)	38 (7.5)	41 (8.0)	۹ 51 ۹ (10.0)۹

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KENTUCKY STATE POLICE PURSUITS 5/1/89 - 4/30/91 TABLE II (cont.)

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		¶ •	TOTAL	¶[#1			1	DAY OF WEEP	K		
		¶ ¶		11 ¶[¶[¶[SU	Μ	Т	W	TH	F	SA
	PURSUITS WITHOUT ACCIDENT		397 (100.0%)	1 9 9 9 1	95 (23.9)	28 (7.1)	35 (8.8)	25 (6.3)	37 (9.3)	72 (18.1)	105 (<u>26.5</u>)
11	PURSUITS WITH ACCIDENT		113 (100.0%)	1 9 9 9 9 9	17 (15.0)	8 (7.1)	8 (7.1)	8 (7.1)	10 (8.8)	24 (21.2)	38 (<u>33.7</u>)
	ALL PURSUITS	¶ ¶ ¶	510 (100.0%)	¶ ¶ ¶	112 (22.0)	36 (7.1)	43 (8.4)	33 (6.5)	47 (9.2)	96 (18.8)	143 (28.0))

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		¶ ¶	TOTAL	¶ ¶		TYPE OF	' ROADWAY		¶ ¶		TOP SPEE	D (SUSPEC	T)		• •
		91 91		¶ ¶	1&2 LN	2 LN	2&4 LN	4 LN	¶ ¶	0-60	61-90	91-120	121+	RANGE	AVG.
	PURSUITS WITHOUT ACCIDENT		397 (100.0%)	1 9 9 9 9	26 (6.5)	294 (<u>74.1</u>)	28 (7.1)	49 (12.3)	11 91 91 91 91 91	89 (22.4)	189 (<u>47.6</u>)	110 (27.7)	9 (2.3)	10-155	80.5
	PURSUITS WITH ACCIDENT	11 ¶] ¶[¶[113 (100.0%)	7 4 4 4 4 4	7 (6.2)	87 (<u>77.0</u>)	8 (7.1)	11 (9.7)	1 9 9 9	20 (17.7)	56 (<u>49.5</u>)	36 (31.9)	1 (0.9)	25 - 122 -	82.4
13	ALL PURSUITS	4 4 4 4	510 (100.0%)		33 (6.5)	381 (74.6)	36 (7.1)	60 (11.8)	4 4 4 4	109 (21.4)	245 (48.0)	146 (28.6)	10 (2.0)	10-155	81.0

KENTUCKY STATE POLICE PURSUITS 5/1/89 - 4/30/91 TABLE II (cont.)

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KENTUCKY STATE POLICE PURSUITS 5/1/89 - 4/30/91 TABLE II (cont.)

	TOTAL ¶		REASON FOR PURSUIT						
		TRAFFIC	BOLO	FELONY	RECKLESS/DUI	OTHER			
PURSUITS WITHOUT ACCIDENT	위 397 위 위 (100.0%) 위 위 위 위 위	170 (<u>42.8</u>)	24. (6.0)	20 (5.0)	133 (33.6)	50 (12.6)			
PURSUITS WITH ACCIDENT	9 113 9 (100.0%) 9 9	37 (32.7)	13 (11.5)	5 (4.4)	40 (<u>35.5</u>)	18 (15.9)			
G ALL PURSUITS	१ १ 510 १ १ (100.0%) १	207 (<u>40.6</u>)	37 (7.3)	25 (4.9)	173 (33.9)	68 (13.3)			

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KENTUCKY STATE POLICE PURSUITS 5/1/89 - 4/30/91 TABLE II (cont.)

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		¶ ¶	TOTAL	¶ •1	OUTCOM	IE OF PURSU	JIT	¶] ¶]	FORCIBLE	STOP	¶ ¶	ALCOHOL OF	R DRUGS
		4 4 4		¶ ¶	ARREST	ESCAPE	DEATH*	11 ¶] ¶]	YES	NO	11 91 91	YES	NO
	PURSUITS WITHOUT ACCIDENT		397 (100.0%)	1 ¶ ¶ ¶	297 (<u>74.8</u>)	100 (25.2)	0(0.0)	1 9 9 9 9 1	33 (8.3)	364 (<u>91.7</u>)	1 9 9 9 9 1	205 (<u>51.6</u>)	192 (48.4)
	PURSUITS WITH ACCIDENT	1 5 5 7 7	113 (100.0%)		96 (<u>84.9</u>)	16 (14.2)	1 (0.9)	1 4 5 4 1 4	33 (29.2)	80 (<u>70.8</u>)	7) ¶[¶] ¶]	70 (<u>61.9</u>)	43 (38.1)
16	ALL PURSUITS	4 4 4 4	510 (100.0%)		393 (<u>77.1</u>)	116 (22.7)	1 (0.2)	4 4 4 4	66 (12.9)	444 (<u>87.1</u>)	11 ¶ ¶ ¶	275 (<u>53.9</u>)	2350 (46.1)

*Excluded from Arrest count.

KENTUCKY STATE POLICE PURSUITS 5/1/89 - 4/30/91 TABLE III

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	INCIDENCE OF ACCIDENT				
	ACCIDENTS/PURSUITS	INCIDENCE			
, second s					
POLICE VEHICLE/SUSPECT VEHICLE	48/510	1/10.6			
POLICE VEHICLE/POLICE VEHICLE	3/510	1/170.0			
POLICE VEHICLE/CIVILIAN VEHICLE	4/510	1/127.5			
na ana ao amin'ny faritr'i Ardérika. Ny INSEE dia mampina mampina mampina mandritry amin'ny faritr'ora dia mampina mandritry amin'ny faritr'ora dia m Ny INSEE dia mampina mandritry amin'ny faritr'ora dia mampina mandritry amin'ny faritr'ora dia mampina mandritry					
POLICE VEHICLE OVERTURNS OR HITS BARRIER¶	7/510	1/72.9			
SUSPECT VEHICLE/CIVILIAN VEHICLE	7/510	1/72.9			
SUSPECT VEHICLE OVERTURNS OR HITS BARRIER 9	68/510	1/7.5			
1		_,			
ALL ACCIDENTS	137/510	1/3.7			

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KENTUCKY STATE POLICE PURSUITS 5/1/89 - 4/30/91 TABLE III (cont.)

¶	INCIDENCE OF INJURY							
11 11 11 11 11 11 11 11 11 11 11 11 11	INJURIES/ACCIDENTS	INCIDENCE	INJURIES/PURSUITS	INCIDENCE				
POLICE VEHICLE/SUSPECT VEHICLE ¶ ¶ ¶	0/48	-	0/510	-				
POLICE VEHICLE/POLICE VEHICLE	0/3	-	0/510	-				
POLICE VEHICLE/CIVILIAN VEHICLE	2/4	1/2.0	2/510	1/255.0				
POLICE VEHICLE OVERTURNS OR HITS BARRIER	1/7	1/7.0	1/510	1/510.0				
SUSPECT VEHICLE/CIVILIAN VEHICLE	0/7	-	0/510	-				
SUSPECT VEHICLE OVERTURNS OR HITS BARRIER	25/68	1/2.7	25/510	1/20.4				
ALL ACCIDENTS	28/137	1/4.9	`* 28/510	1/18.2				

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KENTUCKY STATE POLICE PURSUITS 5/1/89 - 4/30/91 TABLE III (cont.)

			COF DEATH			
		DEATHS/ACCIDENTS	INCIDENCE	DEATHS/PURSUITS	INCIDENCE	
	POLICE VEHICLE/SUSPECT VEHICLE	0/48	-	0/510	-	
	POLICE VEHICLE · ·	0/3	-	0/510	 -	
19	POLICE VEHICLE/CIVILIAN VEHICLE	0/4		0/510		
	POLICE VEHICLE OVERTURNS OR HITS BARRIER	0/7	-	0/510	-	
	SUSPECT VEHICLE/CIVILIAN VEHICLE	0/7	- - -	0/510	· _	
	SUSPECT VEHICLE OVERTURNS OR HITS BARRIER	1/68	1/68.0	1/510	1/510.0	
	ALL ACCIDENTS	1/137	1/137.0	° 1/510	1/510.0	

¶ ¶

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