



Internal Audit Overview
"Vigilance Through Knowing"
Preventable Vehicular Annual Review 11-02
March, 2012

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CHIEFS OFFICE

Objectives

Conduct an annual audit of preventable vehicular accidents involving department members to determine their cost to the department.

Analyze the past five years of preventable vehicular accident data to identify any trends that may exist that increase/decrease the department's liability.

Methodology and Scope

Review preventable accident reports for the years 2007 through 2011.

Review estimated repair costs to police vehicles and the outlay of funds paid to citizens.

Compare the preventable vehicular accident information for the years 2007 through 2011.

Interview Department personnel as needed.

Findings

1. There were 63 preventable vehicular accidents in 2011.
2. The age group 21-30 was responsible for 216 or 41.5% of the preventable accidents during the last 5 calendar years (2007 – 2011).
3. Department members with less than 6 years of service were responsible for 238 or 45.7% of the preventable accidents during the last 5 calendar years (2007 – 2011).
4. Inattention was the top causal factor during the last 5 calendar years (2007 – 2011) accounting for 38.7% of all preventable accidents but is trending downward.
5. Preventable accidents cost the department a total of \$2,006,867 during the last 5 calendar years (2007 – 2011).
6. Both the number of accidents and amount of money has trended downward over the last 4 years
7. The number of preventable vehicular accidents and amount of money has trended downward over the last 4 calendar years (2008-2011).
8. The number of preventable vehicular accidents for 2011 was the lowest in 10 years

Endorsement Page

Re: Preventable Vehicular Annual Report - 11-02

Unit/Section Supervisor

Unit Commander

Major Pruetting,

Attached is the annual preventable vehicular report for 2011. It should be noted that 2011 was the lowest point for preventable vehiculars in 10 years. This number has been trending down since 2008. I believe that this decrease in preventables is in large part due to the drivers' training provided by the Academy. In addition intention which generally is the leading causal factor for preventables has trended downward since the introduction of the training.

Recommend review by the Chief and distribution to all Bureaus.

H. Lee 3/1/12

Division Commander

Chief,

for your review and dissemination to all bureaus.

May. Pruetting

Bureau Commander

Copy to DC's

chief Dept 3-6-12

Chief of Police

per Chief Forte, this item is approved for forwarding to the Audit Committee.

*May. Pruetting
5/11/12*

Preventable Vehicular Annual Review 11-02

March 2012

Internal Audit Unit

Kansas City, Missouri Police Department

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Introduction

The Internal Audit Unit prepares an annual preventable vehicular report for analysis at the Chief's direction. The preventable vehicular annual review provides information about the preventable accidents involving department members. The information provided allows a more in depth look at trends among all accidents for a given year.

Scope

The scope of the audit encompasses all preventable vehicular accidents involving department members between the calendar years of 2007 through 2011.

Objective

Conduct an annual audit of preventable vehicular accidents involving department members to determine their cost to the department.

Analyze the past five years of preventable vehicular accident data to identify any trends that may exist that increase/decrease the department's liability.

Methodology

Review preventable accident reports for the years 2007 through 2011.

Review estimated repair costs to police vehicles and the outlay of funds paid to citizens.

Compare the preventable vehicular accident information for the years 2007 through 2011.

Interview Department personnel as needed.

Discussion

The information contained in this review compares the last five calendar years of preventable vehicular accident data. Some of the data was obtained through the Department's computer unit. However, the majority of the data was obtained from the "Risk Master" and "Sort Master" computer systems through the Office of the General Counsel.

The "amount to citizens" category contained in the data received from the Office of the General Counsel can fluctuate significantly. The data for this report was obtained during the first week of January 2012. This data is updated regularly as money is paid to citizens. There can be significant delays in this process due to cases that are navigating the judicial process. Data obtained at different times can be dramatically different especially if a large monetary payout was awarded. Therefore, the newest data is most sensitive to large fluctuation changes from year to year.

A cost analysis was prepared for the past five years to summarize the appraised damage to police department vehicles and the dollar amounts paid to citizens as a result of preventable accidents. As shown in table 1, officers assigned to the Patrol Bureau were responsible for \$141,044.56 in appraised department vehicle damages as well as, \$24,682.54* paid out to citizens in 2011. This equates to 89.1% of all appraised damages and 83.2% of all monies paid out to citizens in 2011. Over the past five year period, preventable vehicular accidents have cost the department over \$2.0M* with officers assigned to the Patrol Bureau accounting for 86.8% of the costs associated with these accidents.

*The data for 2011 could change significantly if there are accidents from 2011 navigating their way through the judicial process.

*The 2.0 million dollars are not actual department costs, but rather the appraised damage costs in addition to the monies paid to citizens.

Table 1 – Monetary Amounts Paid By Bureau

Year	Bureau		Damage App \$	Paid to Cit \$	Total
2007	Chief of Police Office	+ -	\$1,890.52	\$2,350.08	\$4,240.60
	Executive Services Bureau	+ -	\$2,330.33	\$0.00	\$2,330.33
	Investigations Bureau	+ -	\$11,102.33	\$37,871.89	\$48,974.22
	Patrol Bureau	+ -	\$188,388.34	\$216,757.45	\$405,145.79
	Total	+ -	\$203,711.52	\$256,979.42	\$460,690.94
2008	Administration Bureau	+ -	\$280.41	\$0.00	\$280.41
	Chief of Police Office	+ -	\$12,462.02	\$32,897.42	\$45,359.44
	Investigations Bureau	+ -	\$19,484.05	\$11,567.44	\$31,051.49
	Patrol Bureau	+ -	\$193,953.90	\$271,541.51	\$465,495.41
	Total	+ -	\$226,180.38	\$316,006.37	\$542,186.75
2009	Chief of Police Office	+ -	\$35.16	\$1,996.29	\$2,031.45
	Executive Services Bureau	+ -	\$1,127.28	\$0.00	\$1,127.28
	Investigations Bureau	+ -	\$10,915.23	\$17,238.70	\$28,153.93
	Patrol Bureau	+ -	\$156,140.42	\$247,060.04	\$403,200.46
	Total	+ -	\$168,218.09	\$266,295.03	\$434,513.12
2010	Chief of Police Office	+ -	\$12,271.20	\$8,510.53	\$20,781.73
	Executive Services Bureau	+ -	\$898.70	\$0.00	\$898.70
	Investigations Bureau	+ -	\$35,246.67	\$21,045.91	\$56,292.58
	Patrol Bureau	+ -	\$181,362.94	\$122,118.18	\$303,481.12
	Total	+ -	\$229,779.51	\$151,674.62	\$381,454.13
2011	Administration Bureau	+ -	\$219.45	\$0.00	\$219.45
	Chief of Police Office	+ -	\$675.90	\$0.00	\$675.90
	Investigations Bureau	+ -	\$16,405.25	\$4,994.40	\$21,399.65
	Patrol Bureau	+ -	\$141,044.56	\$24,682.54	\$165,727.10
	Total	+ -	\$158,345.16	\$29,676.94	\$188,022.10
Grand Total		+ -	\$986,234.66	\$1,020,632.38	\$2,006,867.04

*Not all bureaus are listed each year because there may be no data to list for a particular bureau.

Table 2 displays frequency data of accidents by the same department member and by calendar year. During the past five years, most department members that were involved in one accident were not involved in another accident during the same year. The calendar year is located across the top of the table. The frequency category appears on left side of the table. Frequency indicates the number of accidents a department member had during the listed calendar year. For example, in 2007 there were two department members that were involved in 3 preventable accidents.

Table 2 – Frequency of Accident per Member by Calendar Year

		Year ▼				
		2007	2008	2009	2010	2011
		+ -	+ -	+ -	+ -	+ -
frequency ▼		count ▼				
1	+ -	94	115	91	77	59
2	+ -	10	15	4	4	2
3	+ -	2	2	1		

Table 3 examines the same data but without breaking it down by calendar year. Therefore the frequency and count data represent calendar year 2007 through 2011. This information reveals that 5 department member had 4 preventable accidents in a 5 year period of time

Table 3 – Frequency of Accident per Member for 5 Year Range

Frequency ▼	Count ▼
1	390
2	107
3	25
4	5

Table 4 displays preventable vehicular accidents by year and age. In 2011, the highest number of preventable accidents occurred among those department members between the ages 31 – 40 (53.9%). Over the listed 5 year period, the age group 21-30 was responsible for 216 or 41.5% of the preventable accidents.

Table 4 – Accident by Member Age

AgeCategory ▼	Year ▼					
	2007	2008	2009	2010	2011	Grand Total
	+ -	+ -	+ -	+ -	+ -	+ -
Count	Count	Count	Count	Count	Count	
1. under 21	1					1
2. 21-30	67	78	35	22	14	216
3. 31-40	38	46	35	40	34	193
4. 41-50	4	23	22	20	11	80
5. 51-60	9	4	7	3	3	26
6. 61 and over	1		3		1	5
Grand Total	120	151	102	85	63	521

Table 5 displays the preventable vehicular accidents by year and tenure. In 2011, the highest number of preventable accidents occurred among those department members with less than 6 years of service. This group was responsible for 22 or 34.9% of the preventable accidents. Over the five-year period, members with less than 6 years of service again were responsible for the majority of the preventable accidents that occurred accounting for 238 or 45.7% of the total.

Table 5 – Accident by Member Tenure

TenureCategory ▼	Year ▼					
	2007	2008	2009	2010	2011	Grand Total
	Count	Count	Count	Count	Count	Count
1. under 1 yr	2	2	2	3		9
2. 1-5	75	73	36	32	22	238
3. 6-10	23	40	26	17	15	121
4. 11-15	10	18	10	14	16	68
5. 16-20	3	8	9	7	6	33
6. 21-26	5	8	14	11	3	41
7. 27-30	2	2	4		1	9
8. greater than 30			1	1		2
Grand Total	120	151	102	85	63	521

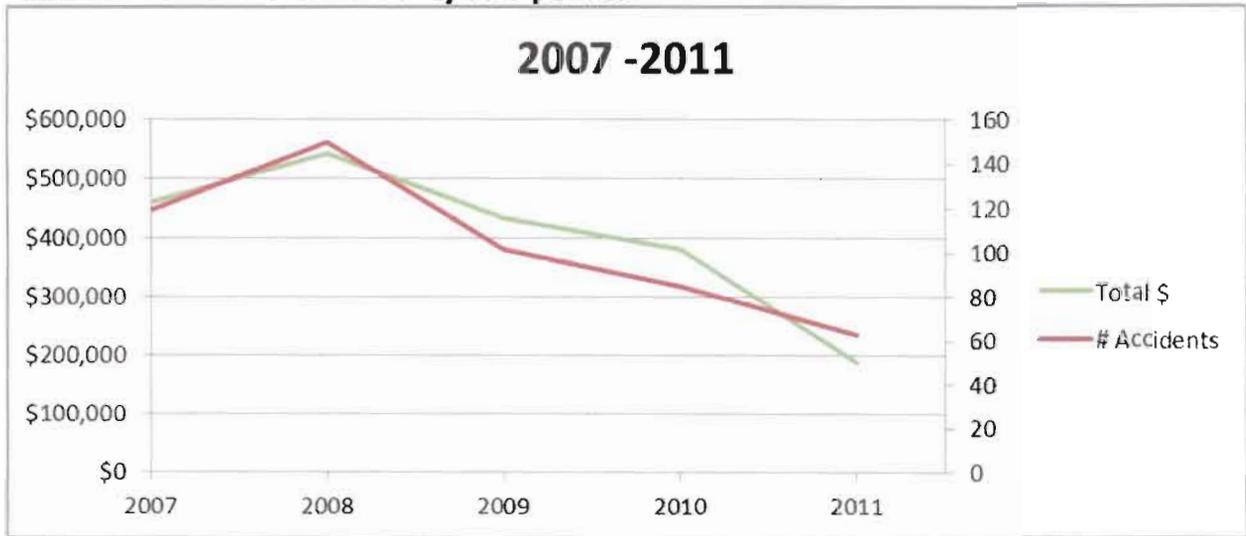
Table 6 displays the preventable vehicular accidents by year and cause. In 2011, the top contributing factor for a preventable vehicular accident was “inattention” which accounted for 39.7% of the total. Inattention was also the top factor over the five-year period accounting for 38.7% of all preventable accidents. The following chart displays all contributing factors reported and their frequencies over the past five years for all preventable vehicular accidents.

Table 6 – Accident by Cause

Accident Cause	Year						Grand Total				
	2007		2008		2009			2010		2011	
	+	-	+	-	+	-		+	-	+	-
	#	#	#	#	#	#	#	#	#	#	
INATTENTION	+	53		49		45		29		25	201
SPEED - TOO FAST FOR CONDITIONS	+	17		12		13		11		7	60
IMPROPER BACKING	+	14		18		9		10		5	56
FAILED TO YIELD	+	6		13		10		9		9	47
FOLLOWING TOO CLOSE	+	6		4				7		2	19
STRUCK OBJECT	+	3		8		5		2		1	19
IMPROPER TURN	+	3		7		1		1		3	15
IMPROPERLY PARKED	+	2		10		2				1	15
VIOLATION SIGNAL	+	1		5		3		3		1	13
IMPROPER LANE CHANGE	+	1		3		2		2			8
Avoiding vehicle	+			2		2		1		1	6
POOR ROAD CONDITIONS	+	4		2							6
VIOLATION - SIGN	+	1		2		2				1	6
IMPROPER U-TURN	+	1		1		2		1			5
OTHER	+	1		3						1	5
IMPROPER LANE USAGE	+			2				2			4
SPEED - EXCEEDED LIMITS	+					2		1		1	4
IMPROPER PASSING	+			1						2	3
IMPROPERLY STOPPED IN ROADWAY	+			2				1			3
NATURAL PERIL	+			3							3
WRONG WAY - ONE WAY STREET	+	2						1			3
DEFECTIVE EQUIPMENT	+	1				1					2
DM struck NDM in rear	+					1				1	2
No Data Provided	+	1								1	2
OFF-ROAD PATROL	+			1						1	2
Struck by Object	+	1						1			2
AVOIDING OBJECT IN ROADWAY	+							1			1
AVOIDING PERSON IN ROADWAY	+					1					1
Collision involving animal	+			1							1
DRIVING WHILE INTOXICATED	+							1			1
OCCURRED DURING ARREST	+							1			1
PEDESTRIAN INTO PC	+	1									1
Struck Pedestrian	+					1					1
UNKNOWN	+			1							1
Grand Total	+	119		150		102		85		63	519

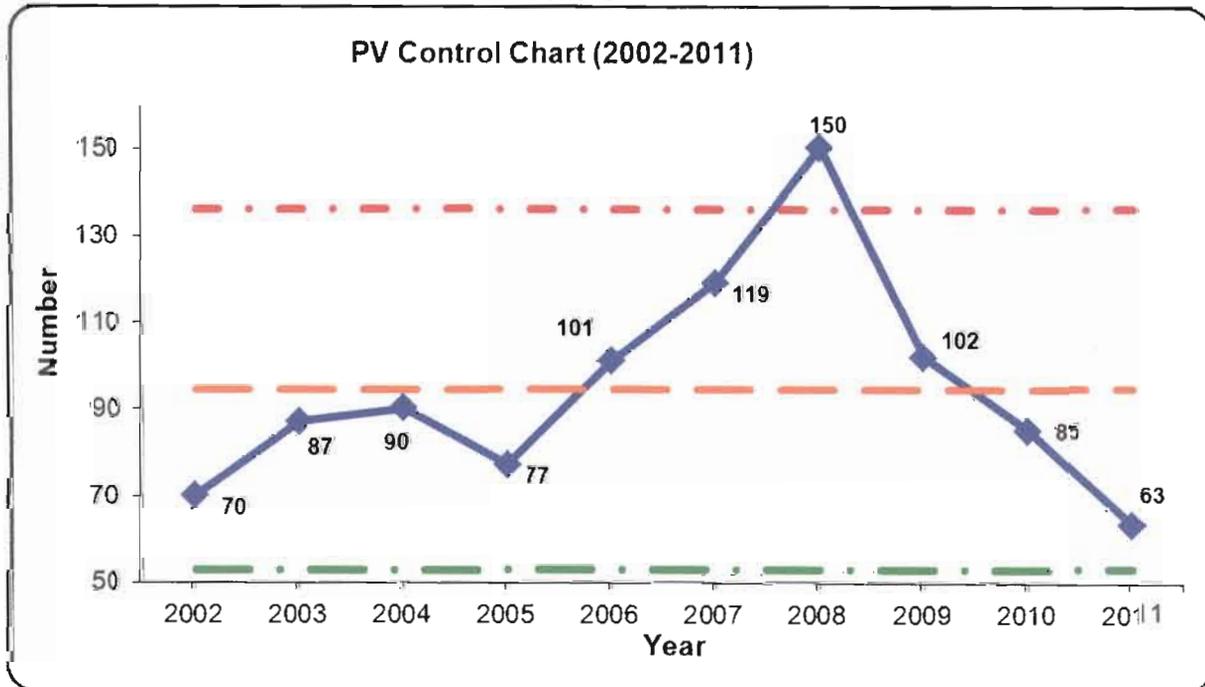
Table 7 displays the number of accidents and monies paid trend over the last 5 calendar years 2007 through 2011. Both the number of accidents and amount of money has trended downward over the last 4 years. The amount of money paid appears to be closely correlated to the number of accidents.

Table 7 - # of Accidents VS Money Paid per Year



Although this report examined the last 5 calendar years, table 8 was included to highlight the point that the number of preventable accidents for 2011 was the lowest in 10 years.

Table 8 – Preventable Vehicular Control Chart



Findings

There were 63 preventable vehicular accidents in 2011.

The age group 21-30 was responsible for 216 or 41.5% of the preventable accidents during the last 5 calendar years (2007 – 2011).

Department members with less than 6 years of service were responsible for 238 or 45.7% of the preventable accidents during the last 5 calendar years (2007 – 2011).

Inattention was the top causal factor during the last 5 calendar years (2007 – 2011) accounting for 38.7% of all preventable accidents but is trending downward.

Preventable accidents cost the department a total of \$2,006,867 during the last 5 calendar years (2007 – 2011).

Both the number of accidents and amount of money has trended downward over the last 4 years

The number of preventable vehicular accidents and amount of money has trended downward over the last 4 calendar years (2008-2011).

The number of preventable vehicular accidents for 2011 was the lowest in 10 years



Officer Marvin Forbes
Internal Audit Unit

Exhibit 1

Management's Response

Gee, Thomas E

From: Schofield, Mike
Sent: Tuesday, May 15, 2012 1:39 PM
To: Gee, Thomas E
Cc: McCune, Jay J
Subject: RE: Preventable Vehicular Audit

1. Preventable Vehicular Annual Review 11-02

Major Pruetting introduced the item. He explained that the number of preventable vehicular continue to drop. He attributed this to a number of factors, such as the limited number of new hires, and the aging workforce. The item was approved to forward to the BOPC Audit Committee.

From: Gee, Thomas E
Sent: Tuesday, May 15, 2012 1:37 PM
To: Schofield, Mike
Subject: Preventable Vehicular Audit

Mike,

I just got the preventable vehicular audit back. Was this discussed at a bureau co's meeting? If so I need to get the minutes of the meeting to attach as management's response. Thanks. Tom

Thomas Gee
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