



Prepared for:
Road Traffic Management Corporation

Prepared by:

Research and Development Unit

Road Traffic Management Corporation







EXECUTIVE SUMMARY

An A-Typical Traffic Offence Survey (TOS) was conducted in 2014/15 based on traffic infringement data collected over a period of 22 months from April 2013 to January 2015 for the nine (9) provinces in South Africa.

This TOS 2016 study is a continuation of the TOS 2015 in that traffic infringement data collected over a period of 20 months from February 2015 to September 2016 for the nine (9) provinces were collected and analysed.

The principles of the A-Typical TOS and a conventional annual TOS are similar in that traffic offence data is collected and analysed however, the outcomes differ in that the A-Typical TOS is percentage orientated whereas the outcomes of a conventional TOS are based on indices where activities are weighted before evaluations are made and compared on an annual basis (based on number of vehicles stopped vs each infringement recorded).

A micro-level analysis could not be executed on the project data due to the unreliability of micro-level data received, however good correlation was found on a macro level. In addition, a comparison level between offences recorded over the 20 month period versus percentage fuel sales per province (to emulate vehicles per province) versus the number of traffic law enforcement officials in provinces showed good correlation with very low percentage variance.

Even though there has been huge focus over the past few years by the RTMC, government agencies and roads authorities on efforts directed towards pedestrian education, pedestrian enforcement and engineering to protect pedestrians, the problem with pedestrian fatalities in South Africa persists.

Whilst jaywalking pedestrians are the largest contributor to recorded road deaths at an unprecedented 41.6%, the number of pedestrians arrested for jaywalking over the 20 month study period, only 25,097 pedestrian arrests were made and even though this is significantly higher than the reported 1,255 jaywalking arrests reported over the 22 month TOS 2015 study period, the statistics show that pedestrian deaths are not being dealt with adequately. Arresting and prosecuting jaywalking pedestrians poses unique challenges and as long as there is spatial segregation with communities established along major roads, it is not anticipated that pedestrian fatalities would decrease drastically with jaywalking arrests.





Planning, engineering and education efforts at defined pedestrian hazardous locations will most probably be the only real actions to ensure a decrease in pedestrian road fatalities.

Notwithstanding all other parameters contributing to road related deaths, it is believed that by focussing on the main contributors to road related deaths i.e. pedestrian fatalities, speeding and driving under influence (DUI) the highest impact can be made to ensure that the number of road related fatalities are decreased not only to be in line with the Decade of Action initiatives but to contribute towards the goals of the National Development Plan and wellness in South Africa.

Analysing law enforcement activities on a continuous basis from a national perspective need to be a priority to compliment independent annual TOS's. Reliable monthly reporting on law enforcement activities by all spheres of government is crucial for the RTMC to be in a position to effectively lead the way towards safer roads in South Africa from a national perspective.

The following Way Forward is proposed:

- That a continuous law enforcement activity reporting model for all traffic law enforcement authorities is implemented by the RTMC.
- That the output from the internal national traffic offence database form the basis of annual outsourced traffic offence surveys.
- That the output from both traffic offence survey models are used as an additional planning tool towards safer roads in South Africa.





ACRONYMS

ANPR	Automatic Number-Plate Recognition
DoT	Department of Transport
DUI	Driving Under Influence
EC	Eastern Cape Province
eNATIS	Electronic National Administration Traffic Information System
FS	Free State Province
GP	Gauteng Province
H.M.V.	Heavy Motor Vehicle
KZN	Kwazulu Natal Province
L.D.V.	Light Delivery Vehicle Province
LIM	Limpopo Province
M.P.V.	Multi-Purpose vehicle
MP	Mpumalanga Province
NC	Northern Cape Province
NTP	National Traffic Police
NW	North West Province
RTMC	Road Traffic Management Corporation
S.U.V.	Sport Utility Vehicle
TOS	Traffic Offence Survey
WC	Western Cape Province





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1. INTRODUCTION

The international best practice to establish traffic offence rates of a country or in general, to establish the compliance of the public to traffic rules and regulations is to conduct a Road Traffic Offence Survey (TOS) on an annual basis. To this effect, TOS's have been conducted in South Africa by independent service providers since 1975 through the National Department of Transport (DoT) and the Road Traffic Management Corporation (RTMC).

The latest independent annual TOS was conducted in 2010. The survey methodology changed over the years in terms of the purpose of the survey, sampling methods and the determination of survey locations, as well as the offence types monitored. The need for the development of a new methodology for conducting road traffic offence surveys was identified and to this effect the RTMC appointed the Engineering Division of the Stellenbosch University to develop a methodology for conducting annual road traffic offence surveys, taking into account existing local and international solutions. The emergence of new and affordable technologies such as ANPR (automatic number-plate recognition) and speed over distance cameras etc. were also explored in terms of the potential value that each could bring to the process.

An A-Typical Traffic Offence Survey (TOS) was conducted in 2014/15 based on traffic infringement data collected over a period of 22 months from April 2013 to January 2015 for the nine (9) provinces; the findings of the study were published in the Traffic Offence Survey 2015 (TOS 2015) report March 2015.

This TOS 2016 study is a continuation of the TOS 2015 in that traffic infringement data collected over a period of 20 months from February 2015 to September 2016 for the nine (9) provinces were collected and analysed.

The principles of the A-Typical TOS and a conventional annual TOS is similar in that traffic offence data is collected and analysed however, the outcomes differ in that the outcomes of the A-Typical TOS are percentage orientated whereas the outcomes of a conventional TOS are based on indices where activities are weighted before evaluations are made and compared on an annual basis (based on number of vehicles stopped vs each infringement recorded).





The RTMC Research and Development Unit utilized an Excel System to analyse data recorded over the study period; extracts of the System are shown in the Annexures to this report.

A micro-level analysis could not be executed on the project data due to the unreliability of micro-level data received, however good correlation was found on a macro level. In addition, a comparison level between offences recorded over the 20 month period versus percentage fuel sales per province (to emulate vehicles per province) versus the number of traffic law enforcement officials in provinces showed good correlation with very low percentage variance.

The TOS study absorbed data collected on law enforcement activities under six (6) Item Groups and fifty (50) Action and Offence Activities reported by all provincial and the National Traffic Police (NTP) over a 20 month period from February 2015 to September 2016.

1.1 Objectives and Outcomes of the Project

The aim of the study is to

- establish trends of road user compliance to road traffic rules and regulations,
- establish a baseline to compare data of future offence surveys,
- provide input towards establishing a national database of traffic law enforcement offences on all authority levels,
- Compare trends between TOS 2015 and TOS 2016.

Other than a conventional traffic offence survey, the project will provide outputs in comparing different offence types with one another, analyse the reliability of reporting by traffic law enforcement authorities and propose the way forward for continuous reporting, collection and evaluation of law enforcement activity data in South Africa from national perspective. In addition, the way forward will propose a tool to compare the effectiveness of traffic law enforcement over all spheres of government.





1.2 Methodology Followed

The methodology followed was to collect and analyse traffic law enforcement data collected over a 20 month period from February 2015 to September 2016 from the nine (9) provinces and the NTP. An Excel database system was compiled and data analysed in accordance with statistical methods which ultimately projected outputs to analyse traffic offences on an item group and activity level.

The outcome of the project is not to compare provincial outcomes with one another but, will focus on macro level percentage outcomes in analysing and comparing offence activities and activity item groups.

2. DATA ANALYSIS

2.1 Data

The data analysed is based on summarised infringement reports submitted to the RTMC by the nine (9) provinces and NTP for a 20 month period from February 2015 to September 2016 which was reported on a standard form capturing fifty (50) key traffic law enforcement performance activities. An example of a monthly report form is attached at **Annexure A**.

A total number of 27 535 306 items were reported over the 20 months project study period.

The data were analysed in a matrix under the following six (6) Item Groups and fifty (50) Action/Offence Activities (defined in section 2.2 below):

•	Total	27 535 306
•	*Arrests	74 023
•	Road Worthy	119 367
•	Vehicle Defects	849 647
•	Moving Offences	4 775 320
•	Driving Document	514 820
•	Actions Completed	21 202 129

^{*}Arrests for separate offence types not included in other offence types





2.2 Data Reliability

Different levels of reliability was found for each of the matrix levels. The reporting format (**Annexure A**) included, in addition to Item/Groups and Offence Activities, a breakdown per month of each activity for different types of vehicles with totals per month provided for each of the 50 activities which could be analysed with relative reliability.

Over the 20 month study period an average of 17.2 months of data were available for analysis with some months not reported on by provinces. This effects an 85.8% reliability of available data which is acceptable for macro level analysis. The reliability of the availability of TOS 2016 and TOS 2015 data is almost the same in that the reliability of the availability for the TOS 2015 was 85.6%. The reliability of the actual data reported on is however dependant on the accuracy of the reporting by provinces and the NTP.

One of the objectives of this project is to propose the way forward for continuous reporting, collecting and evaluation of law enforcement activities in South Africa from a national perspective. The shortcomings and challenges identified during this project will pave the way forward to establish a reliable national databank on traffic law enforcement activities over all spheres of government. In addition, this will deliver a tool to compare the effectiveness of traffic law enforcement over all spheres of government. A summary of data recorded and analysed per Item Group per Activity is tabulated below:

Item Groups	No./Group	Total No.	Activities	Total	Average Per Month	Data Available (Ave Months)	% of Months Available
	1	1	No. of K78 Roadblocks held	56,815	2,841	18	90,0%
	2	2	No. of Vehicles stopped	16,233,847	829,887	18	90,0%
1 Actions	3	3	No. of Drivers tested for alcohol	211,432	10,572	18	90,0%
Completed	4	4	No of Vehicles Weighed	2,950,735	147,537	18	90,0%
Completed	5	5	No of Government vehicles stopped	901,819	45,091	18	90,0%
			Subtotal:	20,354,648	1,035,927	18	90,0%
	1	6	Driving licence (none)	2,431	122	17	85,0%
2 Deixing	2	7	Driving licence (Fail to carry)	161,933	8,097	17	85,0%
Driving Document	3	8	PRDP (None)	211,226	10,561	17	85,0%
Document	4	9	PRDP (fail to carry)	47,524	2,376	17	85,0%





Item Groups	No./Group	Total No.	Activities	Total	Average Per Month	Data Available (Ave Months)	% of Months Available
	5	10	Dangerous Goods Vehicles	68,053	3,403	17	85,0%
	6	11	Public Passenger Transport Permit Condition	23,653	1,183	17	85,0%
			Subtotal:	514,820	25,741	17	85,0%
	1	12	Inconsiderate Driving	101,359	5,068	17	85,0%
	2	13	Overtaking in Face/Barrier line	3,423	171	17	85,0%
	3	14	Road Sign/Marking -Traffic Signal Violation	54,970	2,749	17	85,0%
	4	15	Stopping on freeway	8,755	438	17	85,0%
	5	16	Speed-Manual (Hand Held Camera)	199,801	9,990	17	85,0%
	6	17	Speed- Camera (Fixed Camera)	68,934	3,447	17	85,0%
	7	18	Seat belt (driver)	67,458	3,373	17	85,0%
3	8	19	Seat belt (Passenger)	61,676	3,084	17	85,0%
Moving	9	20	Seat belt (Rear)	303,283	15,164	17	85,0%
Offences	10	21	Unlicensed Vehicles	329,667	16,483	17	85,0%
	11	22	Fail to display Licence Disc	160,355	8,018	17	85,0%
	12	23	Fail to display Operator Card	9,979	499	17	85,0%
	13	24	Overloading (goods)	2,038,724	101,936	17	85,0%
	14	25	Overloading (passengers)	1,115,462	55,773	17	85,0%
	15	26	Held Cell phone in Hand Whilst driving	13,371	669	17	85,0%
	16	27	Other Moving Offences	238,103	11,905	17	85,0%
			Subtotal:	4,775,320	238,766	17	85,0%
	1	28	Steering	53,814	2,691	17	85,0%
	2	29	Windscreen Wipers	9,271	464	17	85,0%
	3	30	Brakes (Service)	44,306	2,215	17	85,0%
	4	31	Brakes (Parking)	53,325	2,666	17	85,0%
	5	32	Tyres	98,000	4,900	17	85,0%
4	6	33	Front Lamps/Head lamps	272,462	13,623	17	85,0%
Vehicle	7	34	Rear lamps/Stop lamps	86,855	4,343	17	85,0%
Defects	8	35	Direction indicators	12,153	608	17	85,0%
	9	36	Number plate	2,266	113	17	85,0%
	10	37	Side and Rear Retro Reflective Markings	187,839	9,392	17	85,0%
	11	38	Other Defects	29,356	1,468	17	85,0%
			Subtotal:	849,647	42,482	17	85,0%
5	1	39	Vehicles discontinued	92,717	4,636	17	85,0%
Road	2	40	Vehicles impounded	26,650	1,333	17	85,0%
Worthy			Subtotal:	119,367	5,968	17	85,0%





Item Groups	No./Group	Total No.	Activities	Total	Average Per Month	Data Available (Ave Months)	% of Months Available
	1	41	Drunken Driving	27,143	1,357	17	85,0%
	2	42	No driving licence	756	38	17	85,0%
	3	43	Speed	1,667	83	17	85,0%
	4	44	Overload Goods	2,688	134	17	85,0%
-	5	45	Inco, Rec & Neg.	3,142	157	17	85,0%
6 Arrests	6	46	Permits /Operating Permits	1,940	97	17	85,0%
Airests	7	47	Warrants Executed	3,959	198	17	85,0%
	8	48	False Documentation	2,551	128	17	85,0%
	9	49	Other Arrests	5,080	254	17	85,0%
	10	50	Pedestrians Arrested	25,097	1,255	17	85,0%
			Subtotal:	74,023	3,701	17	85,0%
			Grand Total:	26,687,825	1,352,586	17,2	85,8%

3. DATABASE

Amongst others, the project aim is to establish a user friendly system to enable the analysis of law enforcement activities reported on a monthly bases.

The monthly data reports were, and can henceforth be imported with relative ease into an established Excel "TOS Data" sheet which is hyperlinked to six (6) outcome based sheets where a user can choose different activities to be analysed which are presented in matrices and interactive graphs. This is however dependant on the quality of reporting by provinces.

To ensure the integrity of the system, inputs can only be made in the "TOS Data" sheet as per reports received by different authorities. All other sheets only have selection options to select what data need to be analysed with user friendly interfaces.

A system is in the process of being developed by the RTMCs eNATIS which will enable authorities to report on infringements and actions on an online system to ensure that in future TOS analysis can be done on a micro level which will include amongst others, a breakdown per vehicle classification, time of day and day of the week.

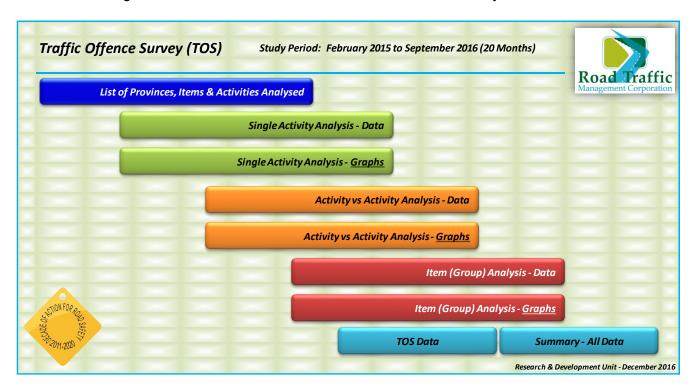


3.1 Database System Established

The Microsoft Excel database system used to analyse the data has a "Main" Input sheet which directs the users via hyperlinks to eight (8) different outcome based analysis sheets viz.:

- List of Provinces, Items & Activities Analysed
- Single Activity Analysis Data
- Single Activity Analysis Graphs
- Activity vs Activity Analysis Data
- Activity vs Activity Analysis Graphs
- Item (Offence Group) Analysis Data
- Item (Offence Group) Analysis Graphs
- TOS Data
- Summary of All Data

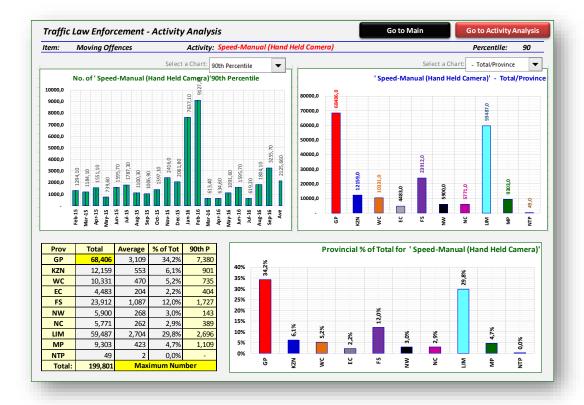
The following screenshot illustrates the "Main" sheet from where analyses can be conducted:



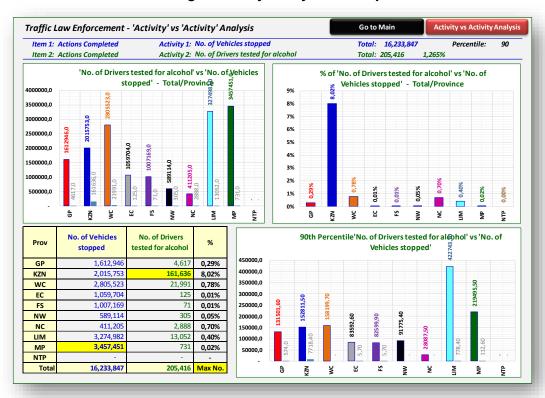
"Main" sheet

Screenshots of the three (3) major output sheets are illustrated below (A4 size example screenshots of all sheets of the System are attached at Annexures B to J:



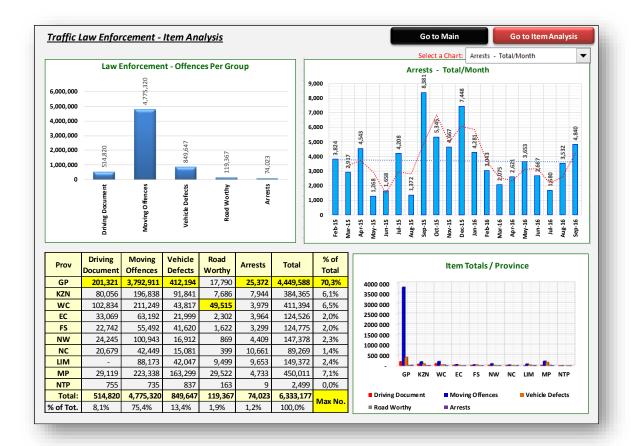


Single Activity Analyses - Graphs



Activity vs Activity Analyses - Graphs





Item Analyses - Graphs

3.2 Challenges

The data input was captured from monthly input forms developed by the RTMC in 2013.

The major challenge encountered during the establishment of a database to analyse the data were that some provinces altered the format of the monthly reporting forms and some monthly reports were not submitted to the RTMC's.

The data was captured from the forms through a tedious hand capturing process. An example of a monthly report form is attached at **Annexure A**.





4. ANALYSIS OF DATA

Note: All data quantified in this section are as recorded and reported by the nine (9) Provinces over the study period of 20 months (February 2015 – September 2016); unless otherwise stipulated.

4.1 Item Group Analysis

A total of 20,354,648 law enforcement actions were recorded for the 20 month study period at an average of 1,035,927 actions per month as tabulated below:

Item Groups	Activities	Total TOS 2016	Average Per Month TOS 2016	Average Per Month TOS 2015	Diff in Average Per Month
	No. of K78 Roadblocks held	56,815	2,841	1,023	-1,818
_	No. of Vehicles stopped	16,233,847	829,887	1,034,199	204,312
1 Actions	No. of Drivers tested for alcohol	211,432	10,572	212,588	202,017
Completed	No of Vehicles Weighed	2,950,735	147,537	164,380	16,843
Completed	No of Government vehicles stopped	901,819	45,091	12,550	-32,541
	Subtotal:	20,354,648	1,035,927	1,424,740	388,813

The 20,354,648 law enforcement actions recorded during the TOS 2016 twenty month study period at an average of 1,035,927 is much less than the 27,036,436 law enforcement actions recorded during the TOS 2015 (22 Months) at an average of 1,424,740 actions per month. It is cumbersome that the average actions completed is 388,813 less per month, it is not clear if this decrease is due to actual less actions completed or due to underreporting by some provinces.

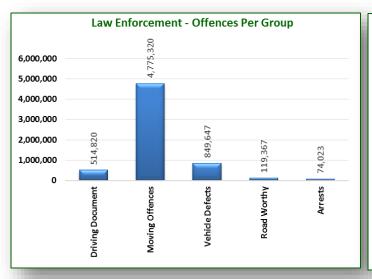
This Item Group analysis will form the baseline from which pertinent offence activities will be analysed later in the document.

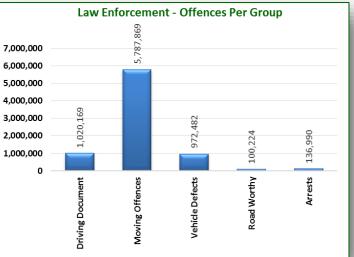
The total data recorded per Item Group for offences are illustrated on the graph below:



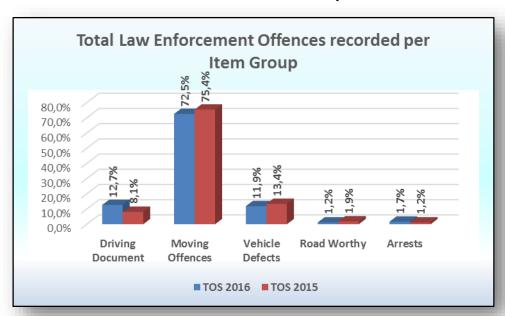
Total Law Enforcement Offences -TOS 2016

Total Law Enforcement Offences -TOS 2015





Total Law Enforcement Offences recorded per Item Group TOS 2016 vs TOS 2015 Comparison



The graphs above illustrate that the Moving Offences recorded far exceeds other offence groups with overloading offences being the major contributor. The comparison between the TOS 2015 and TOS 2016 offences per group is however consistent with only small variances between the two studies as illustrated in the comparison graph above indicating that similar traffic law enforcement activities are being conducted on an annual basis.





It would however be acceptable to calculate a representing factor for each Item Group to calculate the relative percentage (taking into account the number of activities per group) that each group represents from the total offences recorded. The following table summarises relative percentages that each group represents of the total offences recorded for the TOS 2016 and TOS 2015:

Item/Offence Group	Total Number of Offences Recorded	% of Total	No. of Activities per Group	Factor Calculated	Relative % of Total TOS 2016	Relative % of Total TOS 2015
Driving Document	514,820	8,1%	6	1,355	16,2%	24,9%
Moving Offences	4,775,320	75,4%	16	4,713	56,5%	52,9%
Vehicle Defects	849,647	13,4%	11	1,220	14,6%	12,9%
Road Worthy	119,367	1,9%	2	0,942	11,3%	7,3%
Arrests	74,023	1,2%	10	0,117	1,4%	2,0%
Total	6,333,177	100,0%	45	8,346	100,0%	100%

Relative good correlation exists between the study periods with Moving Offences again the highest at 56.5% with Arrests again the lowest with a slight decrease in the relative arrests from 2.0% to 1.4%.

The total data recorded per Item Group for offences are tabulated below for each of the TOS 2016 and TOS 2015:





TOS 2016

Province	Driving Document	Moving Offences	Vehicle Defects	Road Worthy	Arrests	Total	% of Total
GP	201,321	3,792,911	412,194	17,790	25,372	4,449,588	55,5%
KZN	80,056	196,838	91,841	7,686	7,944	384,365	4,8%
WC	102,834	211,249	43,817	49,515	3,979	411,394	5,1%
EC	33,069	63,192	21,999	2,302	3,964	124,526	1,6%
FS	22,742	55,492	41,620	1,622	3,299	124,775	1,6%
NW	24,245	100,943	16,912	869	4,409	147,378	1,8%
NC	20,679	42,449	15,081	399	10,661	89,269	1,1%
LIM	-	88,173	42,047	9,499	9,653	149,372	1,9%
MP	29,119	223,338	163,299	29,522	4,733	450,011	5,6%
NTP	755	735	837	163	9	2,499	0,0%
Total	514,820	4,775,320	849,647	119,367	74,023	6,333,177	Max
% of Total	8,1%	75,4%	13,4%	1,9%	1,2%	100,0%	IVIDX

From the above tables, the data show that the province which recorded the most offences during the study period was Gauteng with a total of 4,449,588 offences or 55.5% of all offences with the Northern Cape recording the least amount of offences i.e. 89,269 or 1.1% of the total offences recorded. NTP data for only February 2015 were received and even though included in the calculations does not represent activities for the total study period.

TOS 2015

103 2013							
Province	Driving Document	Moving Offences	Vehicle Defects	Road Worthy	Arrests	Total	% of Total
GP	202,718	3,165,328	285,661	24,609	26,401	3,704,717	46,2%
KZN	114,747	324,852	124,200	15,337	13,859	592,995	7,4%
WC	158,270	1,236,518	133,815	4,178	11,368	1,544,149	19,3%
EC	48,071	193,669	39,904	4,449	9,378	295,471	3,7%
FS	17,147	66,372	80,000	264	563	164,346	2,0%
NW	66,548	406,764	83,382	2,831	17,920	577,445	7,2%
NC	10,858	23,353	6,343	324	5,854	46,732	0,6%
LIM	-	60,154	ı	6,812	44,579	111,545	1,4%
MP	390,694	288,947	191,634	35,203	6,318	912,796	11,4%
NTP	11,116	21,912	27,543	6,217	750	67,538	0,8%
Total	1,020,169	5,787,869	972,482	100,224	136,990	8,017,734	Max
% of Total	12,7%	72,2%	12,1%	1,3%	1,7%	100,0%	IVIAX

From the above table for the TOS 2015, the data show that the province which recorded the most offences during the study period was Gauteng with a total of 3,704,717 offences or





46.2% of all offences with the Northern Cape recording the least amount of offences i.e. 46,732 or 0.6% of total offences recorded.

The trends are very similar over the TOS 2015 and TOS 2016 study periods with the Gauteng province again recording/reporting the most offences during the TOS 2016 study period i.e. 55.5% of the total (an increase of 9.3%) with the Western Cape and Mpumalanga showing increases from 5.1% to 19.3% and 5.6% to 11.4% respectively on total number of infringements recorded/reported.

It need to be highlighted that the product of the breakdown on law enforcement offences recorded per item group per province should be interpreted with caution as various factors could have influenced the numbers which should be taken into account such as:

- Poor recording and/or reporting by authorities
- Traffic Law enforcement workforce in each authority.
- Effort by provincial law enforcement.
- Traffic volumes in each judiciary.

Even though the analysis outcome indicates no real correlation between offences per item group per province, if compared to the percentage law enforcement officers per province and the "estimated vehicles" per province a definite correlation is evident.

It is challenging to estimate the actual vehicles per province in that many vehicles are registered in one province but are used in other provinces (large corporations) or travel mostly in other provinces. This anomaly was defined by using the actual fuel sales per province which should with relative reliability indicate the vehicle population on the roads in each province.

The comparison between offences recorded over the 20 month period versus percentage fuel sales per province versus traffic law enforcement officials in provinces show a relatively good correlation. For the purposes of this analysis the NTP data was omitted due to a lack of spatial data on where offences were actually recorded however, as the NTP data is only a small percentage of the data population, the omission thereof is acceptable on a macro level analysis.

The correlation between the above comparisons is verified by the practically insignificant calculated percentage variance between each of the three parameters for each province; tabulated below for both the TOS 2016 and TOS 2015:

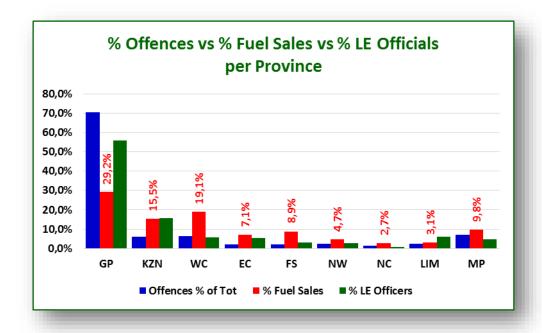




TOS 2016	Offences % of Total TOS 2016	% Fuel Sales 2015	% LE Officers 2016	% Variance
GP	70,3%	29,2%	55,9%	4,4%
KZN	6,1%	15,5%	15,7%	0,3%
WC	6,5%	19,1%	5,7%	0,6%
EC	2,0%	7,1%	5,3%	0,1%
FS	2,0%	8,9%	3,1%	0,1%
NW	2,3%	4,7%	2,7%	0,0%
NC	1,4%	2,7%	0,9%	0,0%
LIM	2,4%	3,1%	6,1%	0,0%
MP	7,1%	9,8%	4,7%	0,1%

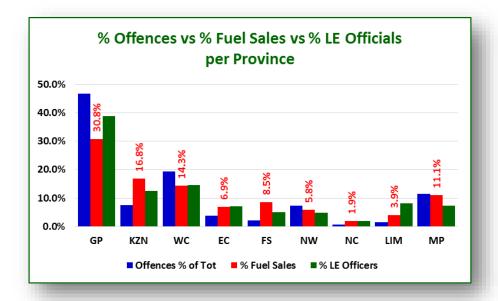
TOS 2015	Offences % of Total TOS 2015	% Fuel Sales 2014	% LE Officers 2014	% Variance
GP	46.6%	30.8%	38.8%	0.6%
KZN	7.5%	16.8%	12.6%	0.2%
WC	19.4%	14.3%	14.5%	0.1%
EC	3.7%	6.9%	7.1%	0.0%
FS	2.1%	8.5%	5.0%	0.1%
NW	7.3%	5.8%	4.7%	0.0%
NC	0.6%	1.9%	2.0%	0.0%
LIM	1.4%	3.9%	8.1%	0.1%
MP	11.5%	11.1%	7.3%	0.1%

The following graph illustrates the comparison for the TOS 2016 and TOS 2015:



Comparison TOS 2016





Comparison TOS 2015

Even though the percentage variance for the Gauteng Province between '% Offences', '% Fuel Sales' and '% LE Officials' increased from 0.6% to 4.4% from the TOS 2015 to the TOS 2016 the variation is still within an acceptable level.

4.1.1 Driving Document Offences

The driving documents offences grouping consists of six (6) offence activities tabulated below with the percentage of the Total Offences recorded indicated for the TOS 2015:

Offences Item Groups	Number	Activities	Group Offences TOS 2016	% of Total Offences TOS 2016	% of Total Offences TOS 2015
2	1	Driving licence (none)	2,431	0,0%	3,1%
Driving	2	Driving licence (Fail to carry)	161,933	2,6%	3,6%
Document	3	PRDP (None)	211,226	3,3%	3,7%
	4	PRDP (fail to carry)	47,524	0,8%	0,6%
	5	Dangerous Goods Vehicles	68,053	1,1%	0,1%
	6	Public Passenger Transport Permit Condition	23,653	0,4%	1,5%
		Sub-Total	514,820	8,1%	12,7%

Driving document offences reported contributed only 8.1% of the total offences in the TOS 2016; a decrease from 12.7% in the TOS 2015.





Very alarming is that 3.6% of the total offences recorded in the TOS 2016 or 211,226 drivers had no PRDP licenses; this number is unacceptably high and is a need for serious concern towards road safety.

4.1.2 Moving Offences

The moving offences grouping consists of sixteen (16) offence activities tabulated below with the percentage of the Total Offences recorded indicated for the TOS 2015:

Offences Item Groups	Number	Activities	Group Offences TOS 2016	% of Total Offences TOS 2016	% of Total Offences TOS 2015
3	1	Inconsiderate Driving	101,359	1,6%	0,2%
Moving	2	Overtaking in Face/Barrier line	3,423	0,1%	0,8%
Offences	3	Road Sign/Marking -Traffic Signal Violation	54,970	0,9%	5,7%
	4	Stopping on freeway	8,755	0,1%	0,3%
	5	Speed-Manual (Hand Held Camera)	199,801	3,2%	10,8%
	6	Speed- Camera (Fixed Camera)	68,934	1,1%	24,0%
	7	Seat belt (driver)	67,458	1,1%	4,1%
	8	Seat belt (Passenger)	61,676	1,0%	14,4%
	9	Seat belt (Rear)	303,283	4,8%	0,3%
	10	Unlicensed Vehicles	329,667	5,2%	3,4%
	11	Fail to display Licence Disc	160,355	2,5%	1,9%
	12	Fail to display Operator Card	9,979	0,2%	0,5%
	13	Overloading (goods)	2,038,724	32,2%	1,1%
	14	Overloading (passengers)	1,115,462	17,6%	1,1%
	15	Held Cell phone in Hand Whilst driving	13,371	0,2%	1,0%
	16	Other Moving Offences	238,103	3,8%	2,8%
		Sub-Total	4,775,320	75,4%	72,2%

Moving offences contributed to 75.4% of the total offences in the TOS 2016; a slight increase from 72.2% in the TOS 2015. From the entire dataset, the top 5 offences are highlighted in yellow; In the TOS 2015, all of the top 5 offences were recorded under the moving offences group whereas the top 4 number of offences were recorded under moving offences in the TOS 2016.

Overloading (goods) offences increased drastically to 32.2% from the TOS 2015 which was 1.1% of total offences. This could be due to drastic traffic law enforcement measurements





taken towards overloading. Alarming is that the second highest infringement activity reported increased from 1.1% in the TOS 2015 to 17.6% in the TOS 2016.

Other unacceptable high offence rates which are alarming are rear seatbelt infringements (4.8%) and unlicensed vehicles (5.2%).

4.1.3 Vehicle Defects

The Vehicle Defects grouping consists of eleven (11) offence activities tabulated below with the percentage of the Total Offences recorded indicated for the TOS 2015:

Offences Item Groups	Number	Activities	Group Offences TOS 2016	% of Total Offences TOS 2016	% of Total Offences TOS 2015
4	1	Steering	53,814	0,8%	0,1%
Vehicle	2	Windscreen Wipers	9,271	0,1%	0,2%
Defects	3	Brakes (Service)	44,306	0,7%	0,3%
	4	Brakes (Parking)	53,325	0,8%	0,8%
	5	Tyres	98,000	1,5%	2,3%
	6	Front Lamps/Head lamps	272,462	4,3%	1,1%
	7	Rear lamps/Stop lamps	86,855	1,4%	1,3%
	8	Direction indicators	12,153	0,2%	0,4%
	9	Number plate	2,266	0,0%	1,1%
	10	Side and Rear Retro Reflective Markings	187,839	3,0%	0,7%
	11	Other Defects	29,356	0,5%	3,8%
		Sub-Total	849,647	13,4%	12,1%

Vehicle defects contributed to 13.4% of the total offences in the TOS 2016; a slight increase from 12.1% in the TOS 2015. The 5th highest offence of the total offences reported for the TOS 2016 i.e. Front Lamps / Head Lamps is 4.3%, an increase from 1.1% in the TOS 2015.

Even though other offence types recorded in this grouping contributes only small percentages towards all offences recorded, the seriousness of these parameters as a contributor towards road crashes cannot be ignored.





4.1.4 Road Worthiness Offences

The Road Worthiness Offences grouping consists of two (2) offence activities tabulated below with the percentage of the Total Offences recorded indicated for the TOS 2015:

	Offences m Groups	Number	Activities	Group Offences	% of Total Offences	% of Total Offences
	5	1	Vehicles discontinued	92,717	1,5%	0,9%
	Road	2	Vehicles impounded	26,650	0,4%	0,3%
١	Worthy		Sub-Total	119,367	1,9%	1,3%

Even though the offence types recorded in the Road Worthiness grouping contributes only small percentages towards all offences recorded, the seriousness of these parameters as a contributor towards road crashes cannot be ignored.

4.1.5 Arrests

The Arrests grouping consists of two (10) offence parameters tabulated below with the percentage of the Total Offences recorded indicated for the TOS 2015:

Offences Item Groups	Number	Activities	Group Offences TOS 2016	% of Total Offences TOS 2016	% of Total Offences TOS 2015
6	1	Drunken Driving	27,143	0,4%	0,6%
Arrests	2	No driving licence	756	0,0%	0,0%
	3	Speed	1,667	0,0%	0,2%
	4	Overload Goods	2,688	0,0%	0,1%
	5	Inco, Rec &Neg	3,142	0,0%	0,0%
	6	Permits /Operating Permits	1,940	0,0%	0,1%
	7	Warrants Executed	3,959	0,1%	0,6%
	8	False Documentation	2,551	0,0%	0,0%
	9	Other Arrests	5,080	0,1%	0,1%
	10	Pedestrians Arrested	25,097	0,4%	0,1%
		Sub-Total	74,023	1,2%	1,7%

The significance of the 10 offence items reported under the Arrests are most critical towards ensuring safer roads in South Africa. The data records show that arrests made are only a small percentage of the total data set with a slight decrease from the TOS 2015.

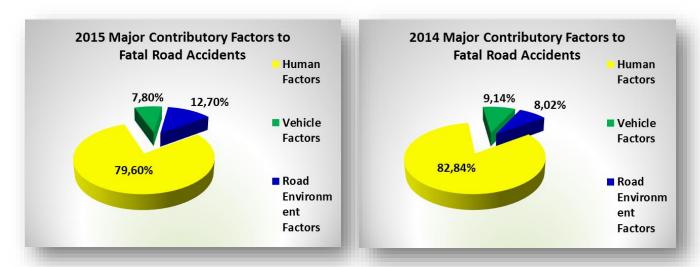




It need to be highlighted that the analysis breakdown on arrests recorded should be interpreted with caution as poor recording and/or reporting by of arrests made could be the reason for the low percentages.

4.2 Most Significant Factors contributing to Fatalities on Roads

RTMC statistics showed that 95% of road traffic crashes occur as a direct result of one or more traffic offences. The main contributory factors to fatal road accidents for 2015 and 2014, reported by SAPS to the RTMC on fatal accident report forms and categorised as human, vehicle and road environment are illustrated in the following graph:



According to the statistics, Human Factor is the most significant fatal crash contributory parameter to fatal road crashes at 79.6% with a slight decrease from 2015; Vehicle and Road environment factors contributed 7.8% and 12.7% respectively in 2015.

The following table is an analysis of the type of Major Contributory factors reported on in 2015 by the SAPS; the 5 highest contributory factors as reported by the SAPS for 2015 are highlighted in Yellow:

2015 Major Contributory Factors to Fatal Road Accidents	% of Sub-Tot	% of All Fatal Accidents reported
Human Factors	7	9,6%
Jay-walking pedestrian	52,0%	41,6%
Speed too high for circumstances	11,5%	9,2%
Hit and run	11,1%	8,8%
Intoxicated driver with liquor/drug usage	5,3%	4,3%





2015 Major Contributory Factors to Fatal Road Accidents	% of Sub-Tot	% of All Fatal Accidents reported
Overtook in face of oncoming traffic	4,6%	3,7%
Fatigue: driver falling asleep	2,9%	2,3%
Intoxicated pedestrian with liquor/drug usage	2,7%	2,2%
Turned in front of oncoming traffic	2,3%	1,8%
Disregard for stop sign	1,8%	1,4%
Overtook across barrier line	1,7%	1,3%
Disregard fro red traffic lights	1,3%	1,0%
U-turn	1,1%	0,9%
Followed vehicle too closely	0,9%	0,7%
Intoxicated cyclist with liquor/drug usage	0,4%	0,3%
Cell phone holding/usage	0,3%	0,2%
Disregard for yield sign	0,2%	0,2%
Accident With Fixed Object	0,1%	0,1%
Vehicle Factors		7,8%
Tyres: burst prior to accident	62,8%	4,7%
Brakes faulty	14,0%	1,0%
Tyres: smooth	6,2%	0,5%
Bicycle no rear reflectors	4,7%	0,3%
Overload: passengers	4,7%	0,3%
Headlights blinding	3,1%	0,2%
Bicycle no head lamp	1,6%	0,1%
Tyre burst Prior to Accident	1,6%	0,1%
Headlights faulty	0,8%	0,1%
Steering: faulty	0,8%	0,1%
Road Factors		2,7%
Sharp bend	20,1%	2,5%
Visibility poor	15,5%	2,0%
Road surface wet/slippery	12,3%	1,6%
Animal: stray/wild	10,5%	1,3%
Road surface poor	9,6%	1,2%
Lighting: poor	8,2%	1,0%
Road works	7,3%	0,9%
Visibility smoke/fog/rain/etc.	4,6%	0,6%
Blind corner	2,7%	0,3%
Road markings poor/inadequate/none	2,7%	0,3%
Road signs poor/inadequate/none	1,8%	0,2%
Traffic lights defective	1,8%	0,2%
Blind rise	0,9%	0,1%
Road traffic lane narrow	0,9%	0,1%
Lighting, road surface: poor	0,5%	0,1%
Pothole	0,5%	0,1%





Jay-walking totalling 41.6% of all contributory factors was the highest recorded road related fatality contributor which together with Speeding (9.2%), Hit and run (11.1%), Tyre burst prior to accident (4.7%) and Driving under Influence (DIY: 4.3%) are the top five road related fatality contributory factors recorded for 2015.

Even though there has been huge focus over the past few years by the RTMC, government agencies and roads authorities which were directed towards pedestrian education, pedestrian enforcement and engineering to protect pedestrians, the problem with pedestrian fatalities in South Africa persists.

The reported number of pedestrians arrested for jaywalking over the 20 month study period were 25,097and even though this is significantly higher than the reported 1,255 jaywalking arrests reported over the 22 month TOS 2015 study period, the statistics show that pedestrian deaths are not being dealt with adequately.

Arresting and prosecuting jaywalking pedestrians poses unique challenges and as long as there is spatial segregation with communities established along major roads, it is not anticipated that pedestrian fatalities would decrease drastically with jaywalking arrests. Planning, engineering and education efforts at defined pedestrian hazardous locations will most probably be the only real actions to ensure a decrease in pedestrian road fatalities.

Albeit all other tabulated parameters contributing to road related deaths are significant it is believed that by focussing on the main contributors to road related deaths i.e. pedestrian fatalities, speeding and driving under influence (DIY) the highest impact can be made to ensure that the number of road related fatalities are decreased not only to be in line with the Decade of Action initiatives but to contribute towards safe roads in South Africa.



5. PROPOSED WAY FORWARD

Analysing law enforcement activities on a continuous basis from a national perspective should be a priority of the RTMC to compliment independent annual TOS's. Reliable monthly reporting on law enforcement activities by all spheres of government is crucial for the RTMC to be in a position to effectively lead the way towards safer roads in South Africa from a national perspective.

The following Way Forward is proposed:

- That a continuous law enforcement activity reporting model for all traffic law enforcement authorities is implemented by the RTMC.
- That the output from the internal national traffic offence database form the basis of annual outsourced traffic offence surveys.
- That the output from both traffic offence survey models are used by all RTMC units as an alternative to other methods as a planning tool towards safer roads in South Africa.

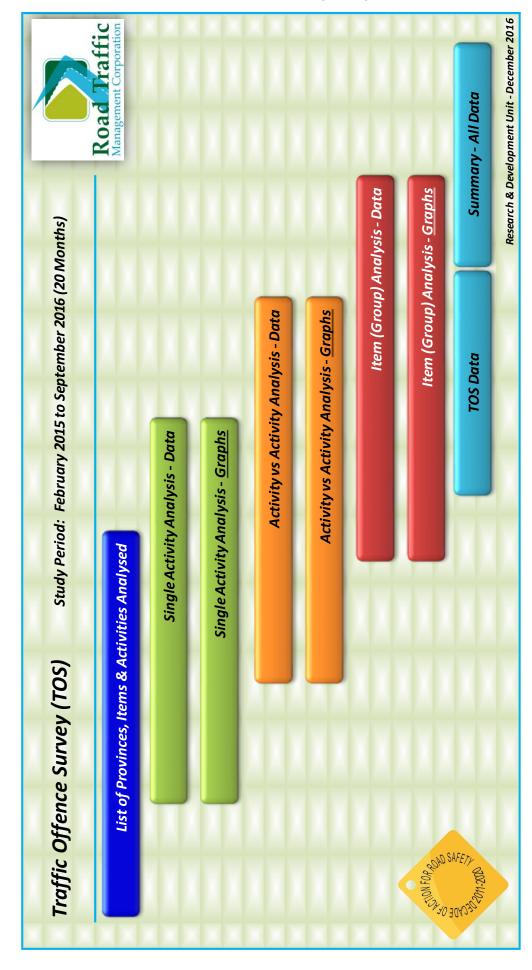


ANNEXURES

Input – Example of Monthly Reporting Form

	OAD TRAFFI						ION		
	OAD INAITI							2/04/24	
			DATE		2013/0)1/01	TO 201	3/01/31	
Traffic Offenc	e Report	H.M.V. 's	BUSSES	MINIBU S TAXIS	MINIBUSES M.P.V.'s S.U.V.'S	L.D.V.'s	MOTOR CYCLES	SEDANS	TOTAL
No of k78 Roadblocks Held								6	6
No. of Vehicles Stopped		9,745	9,562	25,069	23,170	20,777	136	80,080	168,539
No. of Drivers Tested for Ald	ohol	40	36	500	10	200		1,000	1,786
No. of Vehicles Weighed		16,307	284	278	233	175			17,277
Driving Lineage	DRIVING DOCUMEN							710	2 405
Driving Licence	NONE FAIL to CARRY	509 20	434 81	489 126	481 186	531 127	22	719 205	3,185 747
Driving Licence PrDP	NONE	221	202	285	256	7		18	989
PrDP	FAIL to CARRY	12	11	109	128	19		27	306
Dangerous Goods Vehicles		2		103	120	13		21	2
Public Passanger Transpo		9		195	50				254
Public Passangel franspo	MOVING OFFENCE		SEC /WDIT			CES ON	<u> </u>		254
Inconsiderate Driving	WOVING OFFENCE	2	42	55	41	89	2	43	274
Overtaking in Face / Barrier	line	6	1	36	61	82		119	305
Road Sign / Marking - Traffic		2,222	2,219	2,299	2,300	2,302		2,540	13,882
Stopping on Freeway	- Januar Violationio	71	42	81	2,300 85	188		346	813
Speed - Manual (Hand held	camera)	371	2	98	- 00	239	29	2,103	2,842
Speed - Camera (Fixed Can		<u> </u>		- 55				22,450	22,450
Seat Belt	Drivers	796	737	945	835	878		1,397	5,588
Seat Belt	Front Seat Passengers			2	- 555	1		11	14
Seat Belt	Rear Seat Passengers			3		2			5
Unlicensed Vehicles	l	855	707	685	653	744	17	1,010	4,671
Fail to Display Licence Disc	<u> </u>	55	54	162	132	95	5	200	703
Overloading	GOODS	57	<u> </u>	50	63	57		491	718
Overloading	PASSENGERS	114		185	134	07		128	561
Held Cell phone in Hand Wh		46	47	65	52	53		117	380
Other Moving Offences	<u> </u>	252	236	250	367	257	5	505	1,872
	VEHICLE DEFE	CT CHA	RGES (WI		OTICE CHA	RGES)		I.	
Steering		1		19	14	18		11	63
Windscreen Wipers		13	8	87	59	50		103	320
Brakes	SERVICE	4	2	47	42	34		41	170
Brakes	PARKING	7	19	97	71	47		50	291
Tyres		284	185	312	255	369	4	548	1,957
Front Lamps / Headlamps		264	258	346	307	272	1	387	1,835
Rear Lamps / Stop Lamps		48	12	68	49	69	3	144	393
Direction Indicators		17	10	40	32	51		101	251
Number Plate		160	149	189	184	195	16	307	1,200
Side and Rear Retro Reflect	ive Markings	7	2	7				28	44
Other Defects		374	274	374	343	359	2	739	2,465
TOTAL WRITTEN NOTICE	CHARGE	32,891	15,616	33,553	30,593	28,287	244	8,547	257,152
Vehicles Discontinued		3	3	311	105	15		152	589
Vehicles Impounded				209					209
	Drunken Driving			27	2			115	144
	No Driving Licence							13	13
(0	Speed							52	52
Arrests	Overload Goods	10	4					4	18
ĕ	Inco,Rec. & Neg.				2			114	116
Ā	Permits / Operating Permits			13					13
	Warrants Executed							213	
	False Documentation							1	1
	Other Arrests			1	1			105	105
Total Arrests		13	7	561	110	15		769	1,475
Pedestrians Arrested								51	51
Grand Total (Charges+Sus)	pensions+Arrests)	32,917	15,630	34,675	30,813	28,317	244	10,136	259,938

"Main" sheet of Excel Analysis System



List of Provinces, Items & Activities Analysed

<u>Traffic Offence Study (TOS) - Provinces / Items & Activities</u>

Go to Main

Province:	1	Gauteng
	2	Kwazulu Natal
	3	Western Cape
	4	Eastern Cape
	5	Free State
	6	North West
	7	Northern Cape
	8	Limpopo
	9	Mpumalanga
National:	10	NTP's

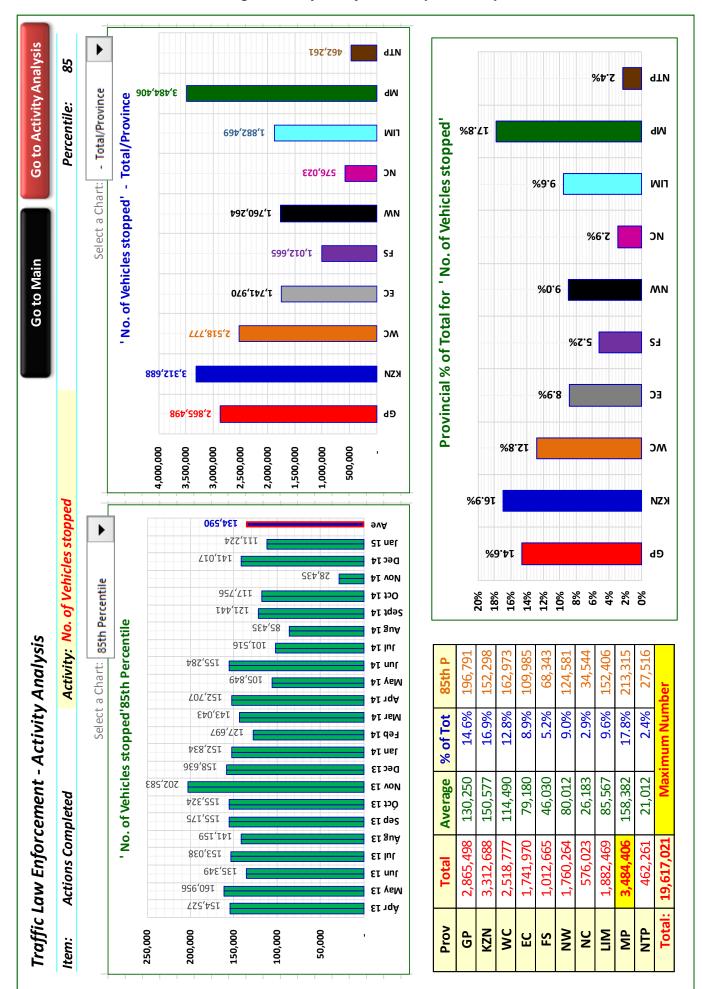
Items:	1	Actions Completed
	2	Driving Document
	3	Moving Offences
	4	Vehicle Defects
	5	Road Worthy
	6	Arrests

Activities:	1	No. of K78 Roadblocks held
	2	No. of Vehicles stopped
		No. of Drivers tested for alcohol
	4	No of Vehicles Weighed
		No of Government vehicles stopped
		Driving licence (none)
		Driving licence (Fail to carry)
		PRDP (None)
		PRDP (fail to carry)
	_	Dangerous Goods Vehicles
		Public Passenger Transport Permit Condition
		Inconsiderate Driving
	_	Overtaking in Face/Barrier line
		Road Sign/Marking -Traffic Signal Violation
		Stopping on freeway
		Speed-Manual (Hand Held Camera)
		Speed- Camera (Fixed Camera)
	_	Seat belt (driver)
		Seat belt (Passenger)
		Seat belt (Rear)
		Unlicensed Vehicles
	_	Fail to display Licence Disc
		Fail to display Cicence Disc
		Overloading (goods)
		Overloading (passengers)
		Held Cell phone in Hand Whilst driving
		Other Moving Offences
		Steering Windscreen Wipers
	_	Brakes (Service) Brakes (Parking)
	_	
		Tyres Front Lamps (Head Jamps
		Front Lamps/Head lamps
		Rear lamps/Stop lamps
		Direction indicators
		Number plate
		Side and Rear Retro Reflective Markings Other Defects
		Vehicles discontinued
		Vehicles impounded
		Drunken Driving No driving licence
		-
		Speed Overland Coods
		Overload Goods
		Inco, Rec &Neg
		Permits / Operating Permits
		Warrants Executed
		False Documentation
		Other Arrests
	50	Pedestrians Arrested

Single Activity Analysis – Data Example

Traffic	Law En	Traffic Law Enforcement - Item Analysis	em Anai	ysis	٥	Go to Activity Charts	ity Charts		Go to Main	٥																
Activity:		No. of Vehicles stopped	cles stopp	pa	Fr	From: Apr-13	13	To: Jan-15		Months: 22		Total: 19,	19,617,021	Ave	Ave / Mnth: 891,683	,683										
Prov	90th P	Average % of Tot	ot Total		Ápr 13 May 13		Jun 13 Jul	Jul 13 Áu	Áug 13 Sep	Sep 13 Ó	Óct 13 N	Nov 13	Dec 13	lan 14 Fe	Feb 14 N	Mar 14 /	Apr 14 N	May 14 J	lun 14	lul 14 A	Aug 14 Se	Sept 14 C	Oct 14	Nov 14	Dec 14	lan 15
В	196,791	130,250	14.6% 2,865,498		207,916 197,814		131,134 10	105,619 12	129,950		138,947	335,795	93,641	48,504	61,521	133,812	152,707	121,727	151,020	172,475	160,791	187,585	136,130		133,959	64,451
KZN	152,298	150,577	16.9% 3,312,688		102,413 145,381		127,722	124,219 11	116,142 9	92,739	11,207	109,550	148,474	152,723	128,657	99,669	968'E9E'	-	108,173			104,947	91,594	-	161,756	118,426
WC	162,973	114,490	12.8% 2,518,777		163,387 159,247		131,224 15	156,698 14	147,194 16:	163,451	133,520	184,875	134,479	127,874	100,312	121,130	152,707				-	119,101	117,467	129,795	131,424	144,892
EC	109,985	79,180	8.9% 1,741,970	Ļ	110,748 106,271		100,690	77,651	84,790 13	139,806	990'96	95,896	110,398	75,427	67,337	65,456	78,332	76,360	60,577	74,865	83,673	62,335	79,188		99,104	
FS	68,343	46,030	5.2% 1,012,665		57,795 53,9	53,976 4	45,602 5:	51,996	56,394 4	49,769	44,313	65,473	84,172	68,509	13,534	57,757	13,410	66,848	14,022	73,520	61,688	14,315	35,045	27,351	55,507	1,669
ΝN	124,581	80,012	9.0% 1,760,264		126,349 100,813		92,165 12	125,500 11	116,309 10	105,457	105,673	92,871	129,845	107,616	74,279	78,451	111,165		90,653		1	91,427	83,155		98,164	30,372
NC	34,544	26,183	2.9% 576	576,023 3	34,577 36,6	36,683 2	23,244 3:	33,352	34,245 2	27,195	35,096	28,490	26,648	28,336	32,875	27,648	33,791		29,372		26,711	29,019	29,019		31,570	28,152
IIM	152,406	85,567	9.6% 1,882,469		123,377 128,543		137,570 14	146,241	97,428	-	164,143	136,352	164,108	152,894	125,913	148,014	147,014		•			122,701	88,171			
MP	213,315	158,382	17.8% 3,484,406		138,074 161,876		151,634 16	160,851 21	219,446 19	196,242	195,841	212,118	208,692	213,369 2	207,035	212,830	82,024	225,952	206,324	115,866	86,384	100,252	117,911	29,019	144,817	97,849
NTP	27,516	21,012	2.4% 462,261		21,797 22,6	22,624 1	18,783 2,	24,058	21,513 2	21,006	20,921	14,909	13,067	18,422	14,857	13,000		2,923	157,580			35,714	13,187	-	27,900	
		Tota	Total: 19,617,021		1,086,433 1,113,228		959,768 1,00	1,006,185 1,0	1,023,411 80	800,665	945,727 1	,273,329 1,	,113,524	993,674	826,320	957,767 2,	2,135,046	493,810	817,721	436,726	419,247	867,396	790,867	186,165	884,201	485,811
		Averag	Average: 1,961,702		108,643 111,	111,323	95,977 10	100,619	102,341 8	80,067	94,573	127,333	111,352	99,367	82,632	95,777	213,505	49,381	81,772	43,673	41,925	86,740	79,087	18,617	88,420	48,581
		% of Total:	tal: 100.0%	_	5.5% 5.7%		4.9% 5.1	5.1% 5.	5.2% 4.1	4.1%	4.8%	6.5%	5.7%	5.1%	4.2%	4.9%	10.9%	2.5%	4.2%	2.2%	2.1%	4.4%	4.0%	%6.0	4.5%	2.5%
82	th ;	Percenti	Percentile: 3,329,860		154,527 160,956		135,349 15:	153,038 14	141,159 15	155,175	155,324	202,583	158,636	152,834	127,697	143,043	152,707	105,849	155,284	101,516	85,435	121,441	117,756	28,435	141,017	111,224
		Minimum Value:		462,261 2	21,797 22,6	22,624	18,783 2-	24,058	21,513		11,207	14,909	13,067	18,422	13,534	13,000	-				-	14,315	13,187			
		Maximum Value: 3,484,406	ve: 3,484		207,916 197,814		151,634 16	160,851 23	219,446 19	196,242	195,841	335, 795	208,692	213,369 2	202,035	212,830 1,	1,363,896	225,952	206,324	172,475	160,791	187,585	136,130	129,795	161,756	144,892
		Standard Deviation 1,029,025	ion 1,025		48,123 51,0	51,089 5	53,480 5.	55,651	66,407 7.	72,180	66,719	67,178	70,612	69,420	908'69	70,642	53,493	83,251	77,226	49,091	39,664	40,822	38,148	13,761	50,732	35,879

Single Activity Analysis - Graphs Example

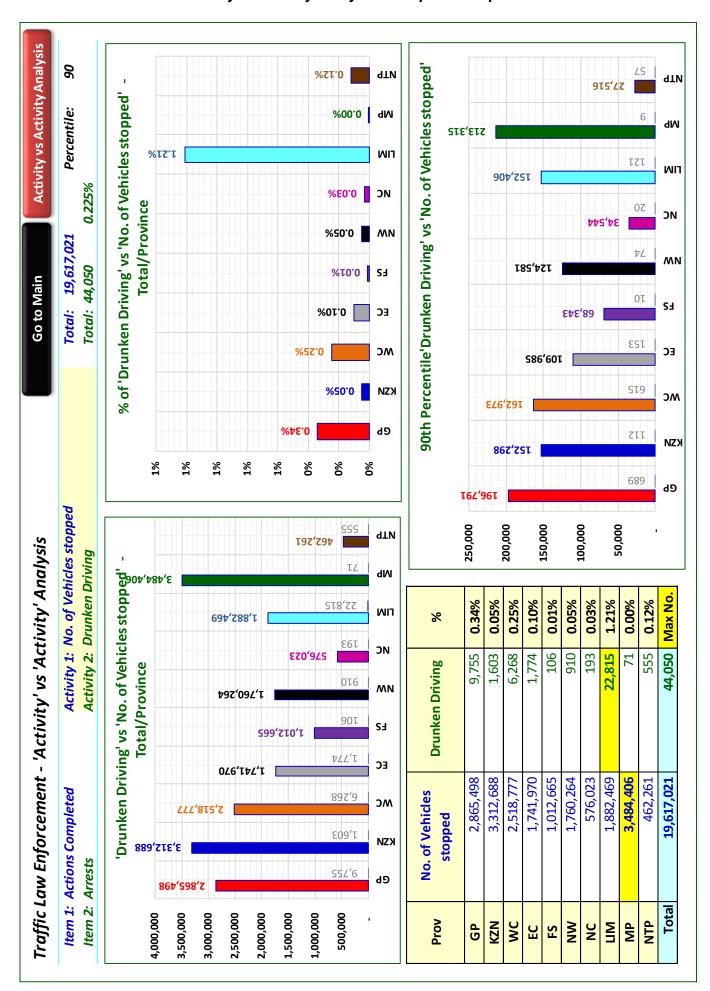


Activity vs Activity Analysis – Data Example

Prov	Item	Average	Total	Ápr 13	May 13	Jun 13	Jul 13	Áug 13	Sep 13	Óct 13	Nov 13	Dec 13	Jan 14	Feb 14	Mar 14	Apr 14	May 14	Jun 14	Jul 14	Aug 14	Sept 14	Oct 14	Nov 14	Dec 14	Jan 15
9	1	130,250	2,865,498	207,916	197,814	131,134	105,619	129,950	-	138,947	332,795	93,641	48,504	61,521	133,812	152,707	121,727	151,020	172,475	160,791	187,585	136,130		133,959	64,451
5	2	443	9,755	147	557	519	279	361		426	423	167	63	138	434	486	669	260	811	2,450	200	265		575	163
NZA	1	150,577	3,312,688	102,413	145,381	127,722	124,219	116,142	92,739	11,207	109,550	148,474	152,723	128,657	699'66	1,363,896		108,173			104,947	91,594		161,756	118,426
2	2	73	1,603	42	36	48	45	19	55	46	62	114	29	31	56	283		35			30	49		226	26
2,41	1	114,490	2,518,777	163,387	159,247	131,224	156,698	147,194	163,451	133,520	184,875	134,479	127,874	100,312	121,130	152,707		-	-		119,101	117,467	129,795	131,424	144,892
3	2	285	6,268	458	733	321	341	623	955	96	238	473	109	112	127	486					134	247	136	183	198
ú	1	79,180	1,741,970	110,748	106,271	100,690	77,651	84,790	139,806	990'96	95,896	110,398	75,427	67,337	65,456	78,332	76,360	60,577	74,865	83,673	62,335	79,188	-	99,104	
3	2	81	1,774	138	96	139	69	83	116	154	159	146	31	10	11	119	22	110	80	156	105	11	•	19	•
31	1	46,030	1,012,665	57,795	53,976	45,602	51,996	56,394	49,769	44,313	65,473	84,172	68,509	13,534	57,757	13,410	66,848	14,022	73,520	61,688	14,315	35,045	27,351	25,507	1,669
2	2	5	106	9	4	4	-	1	1	8	7	10		8	7	3	9		17		11		3	10	1
MIM	1	80,012	1,760,264	126,349	100,813	92,165	125,500	116,309	105,457	105,673	92,871	129,845	107,616	74,279	78,451	111,165		90,653			91,427	83,155		98,164	30,372
2	2	41	910	37	23	15	28	73	84	35	29	143	55	32	31	74		17			52	37		45	43
į	1	26,183	576,023	34,577	36,683	23,244	33,352	34,245	27,195	32,096	28,490	26,648	28,336	32,875	27,648	33,791		29,372		26,711	29,019	29,019		31,570	28,152
3	2	9	193	1	2	3		-	9	2	45	21		1	2	10		-		8	8	8	-	74	
MI	1	85,567	1,882,469	123,377	128,543	137,570	146,241	97,428		164,143	136,352	164,108	152,894	125,913	148,014	147,014		-	-		122,701	88,171	-		
	2	1,037	22,815	18	71	22,233	9	8		22	11	127	43	43	58	40		-		-	132	-		-	
QV	1	158,382	3,484,406	138,074	161,876	151,634	160,851	219,446	196,242	195,841	212,118	208,692	213,369	207,035	212,830	82,024	225,952	206,324	115,866	86,384	100,252	117,911	29,019	144,817	97,849
	2	3	71					-	1	-	-	2	-	1		10	9	9	4	1	1	17	8	8	1
QEN	1	21,012	462,261	21,797	22,624	18,783	24,058	21,513	21,006	20,921	14,909	13,067	18,422	14,857	13,000		2,923	157,580			35,714	13,187		27,900	
	2	25	555	15	8	12	1	24	33	7	55	43	3	47	164			22			5	17		64	1
Total	1		19,617,021	1,086,433	1,113,228	892'656	1,006,185	1,023,411	800,665	945,727	1,273,329	1,113,524	993,674	826,320	22,767	2,135,046	493,810	817,721	436,726	419,247	867,396	790,867	186,165	884,201	485,811
lota	2		44,050	861	1,530	23,294	802	1,192	1,253	794	1,356	1,246	363	423	860	1,811	736	488	912	2,615	678	983	147	1,204	205
Ανουσαο	1			108,643	111,323	95,977	100,619	102,341	80,067	94,573	127,333	111,352	99,367	82,632	95,777	213,505	49,381	81,772	43,673	41,925	86,740	79,087	18,617	88,420	48,581
YACI BEC	2			98	153	2,329	80	119	125	29	136	125	36	42	98	181	74	49	91	797	89	86	15	120	20

Traffic Law Enforcement - 'Activity' vs 'Activity' Analysis

Activity vs Activity Analysis – Graphs Example

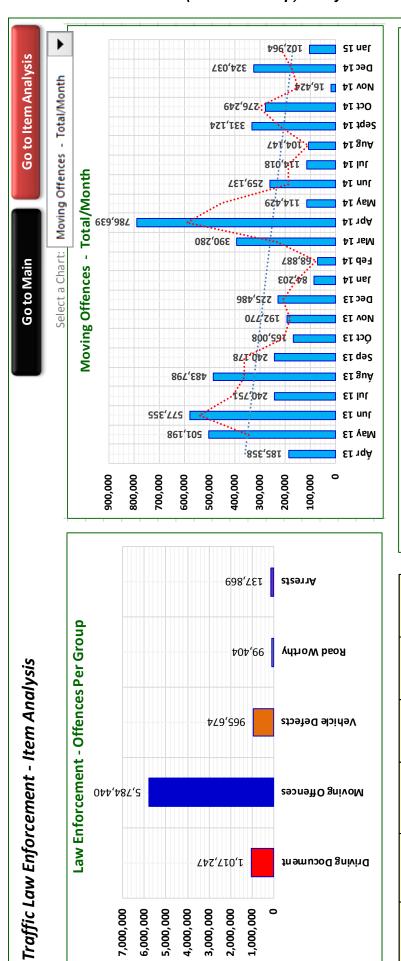


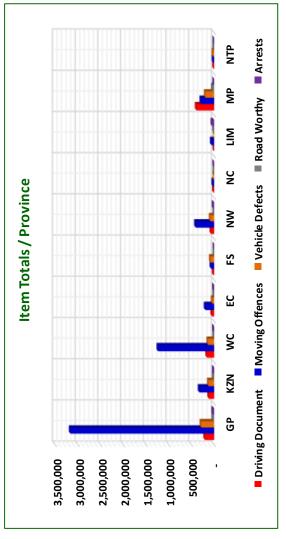
Annexure H

Item (Offence Group) Analysis – Data Example

Ito	m Charts		Go to Main																						
	Items (Number of)	Average	Total	Ápr 13	May 13	Jun 13	Jul 13	Áug 13	Sep 13	Óct 13	Nov 13	Dec 13	Jan 14	Feb 14	Mar 14	Apr 14	May 14	Jun 14	Jul 14	Aug 14	Sept 14	Oct 14	Nov 14	Dec 14	Jan 15
Tot	Actions Completed Driving Document	1,228,101 46,239	27,018,216 1,017,247	1,329,680 40,967	1,452,980 41,277	1,268,775 36,443	1,390,691 28.694	1,349,801 37,225	1,104,754 33,509	1,503,777 389,196	1,622,909 26,580	1,435,435 31,051	1,338,963 20,996	1,111,797 17,913	1,235,730 20,912	3,432,616 73,519	602,102 13,739	1,083,428 27,294	562,461 19,459	529,765 19,011	1,296,508 33,803	1,110,555 34,964	267,948 7,748	1,238,573 39,503	748,968 23,444
Tot	Moving Offences	262,929	5,784,440	185,358	501,198	577,355	240,751	483,798	240,178	165,008	192,770	225,486	84,203	68,887	390,280	786,639	114,429	259,137	114,018	104,147	331,124	276,249	16,424	324,037	102,964
Tot	Vehicle Defects	43,894	965,674	55,984	57,472	45,926	42,107	50,815	53,506	45,365	44,252	52,287	32,996	28,568	38,010	94,762	31,305	49,736	40,976	25,077	41,156	49,260	4,936	54,914	26,264
Tot	Road Worthy	4,518	99,404	5,217	4,755	4,048	4,486	4,400	2,542	5,190	3,935	4,751	3,868	4,497	4,089	10,985	4,014	4,835	4,292	3,623	4,055	4,594	179	6,960	4,089
Tot	Arrests Total	6,267 1,591,948	137,869 35.022.850	3,580 1,620,786	5,849 2,063,531	27,997 1,960,544	5,380 1,712,109	6,088 1,932,127	5,819	3,174 2,111,710	9,243	4,668 1,753,678	3,139 1,484,165	3,823 1,235,485	3,228 1,692,249	23,610 4,422,131	2,113 767,702	4,753 1,429,183	2,648 743,854	5,044 686,667	6,165 1,712,811	3,592 1,479,214	694 297,929	5,108 1,669,095	2,154 907,883
	Total	Average	5,837,142	270,131	343,922	326,757	285,352	322,021	240,051	351,952	316,615	292,280	247,361	205,914	282,042	737,022	127,950	238,197	123,976	114,445		246,536	49,655	278,183	151,314
Prov	Items (Number of)	Average	Total	Ápr 13	May 13	Jun 13	Jul 13	Áug 13	Sep 13	Óct 13	Nov 13	Dec 13	Jan 14	Feb 14	Mar 14	Apr 14	May 14	Jun 14	Jul 14	Aug 14	Sept 14	Oct 14	Nov 14	Dec 14	Jan 15
GP GP	Actions Completed Driving Document	144,864 9,214	3,187,013 202,718	216,733 19,671	205,458 9,106	134,964 11,978	110,667 3,933	133,233 8,455	-	167,152 7,567	358,223 8,419	107,208 5,415	50,598 1,335	63,244 2,394	135,214 6,676	155,212 9,308	133,419 9,203	164,767 15,635	192,937 14,796	173,716 15,080	300,041 16,532	152,036 16,571	-	152,408 13,047	79,783 7,597
GP	Moving Offences	143,879	3.165.328	67,569	295,008	442.009	52,497	302,684	-	48.816	39,351	32,635	3,952	7,501	333,580	291,400	85,382	202,737	85,026	89,377	257,610	217,453	-	248,121	62,620
GP	Vehicle Defects	12,985	285,661	18,524	14,385	16,837	8,444	13,926	-	14,416	10,894	7,091	2,107	5,030	11,538	13,464	15,917	25,059	24,981	17,817	15,832	21,981	-	19,417	8,001
GP	Road Worthy	1,119	24,609	1,634	1,559	561	365	1,010	-	1,532	977	820	700	920	1,371	1,132	1,052	1,629	1,945	1,883	797	1,477	-	1,897	1,348
GP KZN	Arrests Actions Completed	1,200 277,131	26,401 6.096.874	548 102,413	814 261,409	1,296 233,005	673 225,015	925 209,733	180,009	1,531 111,871	5,775 198,699	488 271,499	340 288,644	324 244,540	1,283 189,883	970 2,494,666	1,215	952 198,431	1,641	3,054	864 200,173	1,429 178,768	-	1,481 295,457	798 212,659
KZN	Driving Document	5,216	114,747	- 102,413	5,218	4,490	3,998	3,752	3,035	3,683	3,563	5,627	4,890	4,254	3,235	45,714		3,702		-	4,005	3,448	-	7,527	4,606
KZN	Moving Offences	14,766	324,852	1,456	14,809	14,341	12,758	11,877	13,721	9,765	9,818	13,424	12,579	10,135	8,898	133,581	-	10,220	-	-	9,950	8,618	-	17,590	11,312
KZN	Vehicle Defects	5,645	124,200	-	5,165	3,888	3,966	3,850	4,779	3,640	3,604	4,686	4,211	3,213	3,055	51,956	-	4,608	-	-	5,069	4,536	-	7,982	5,992
KZN KZN	Road Worthy Arrests	697 630	15,337 13.859	386 420	570 378	517 576	490 754	461 601	466 313	558 378	493 780	716 310	710 243	499 536	399 216	6,265 5,505		438 317	-	-	434 617	528 497		856 852	551 566
WC	Actions Completed	161,020	3,542,436	220,786	213,931	174,100	214,537	202,683	221,009	210,217	253,009	181,031	186,838	150,481	184,650	155,212	-	-	-	-	175,144	178,097	204,668	192,439	223,604
wc	Driving Document	7,194	158,270	10,094	16,930	10,972	12,249	16,137	20,265	4,914	5,122	8,562	6,033	4,555	4,344	9,308	-	-	-	-	5,188	5,427	4,974	6,207	6,989
wc	Moving Offences	56,205	1,236,518	47,930	132,992	60,163	106,645	115,993	152,566	41,310	63,692	119,415	14,068	13,808	12,952	291,400	-	-	-	-	19,612	9,830	10,303	9,419	14,420
wc	Vehicle Defects Road Worthy	6,083 190	133,815 4,178	13,647 111	12,310 197	7,932 125	9,533 203	12,027 233	22,829 354	2,878 174	7,399 138	13,243 143	3,977 170	2,713 139	2,804 129	13,626 1,132	-	-	-	-	3,238 125	2,676 197	1,036 131	931 252	1,016 225
wc	Arrests	517	11,368	519	956	504	1,113	1,721	2,823	131	590	510	146	149	157	970		-	-		149	284	166	232	255
EC	Actions Completed	80,810	1,777,822	117,624	108,991	103,585	80,746	88,236	143,580	99,196	95,435	113,155	75,427	67,337	66,253	79,552	76,491	60,904	74,979	83,987	62,547	80,443	-	99,354	-
EC	Driving Document	2,185	48,071	3,487	3,189	2,851	2,080	2,291	4,066	3,275	3,252	3,286	1,897	1,426	1,355	2,335	1,728	1,664	1,830	1,642	1,749	1,851	-	2,817	-
EC EC	Moving Offences Vehicle Defects	8,803 1,814	193,669 39,904	12,673 2,335	12,358 1,976	11,498 2,141	9,612 1,454	10,460 1,793	14,141 3,464	13,591 2,796	23,184 2,188	7,907 1,966	4,725 1,798	2,726 1,213	4,075 1,533	9,458 1,791	10,010 1,765	7,708 1,740	11,991 1,374	8,257 1,734	9,212 1,526	3,616 2,039	-	6,467 3,278	
EC	Road Worthy	202	4,449	2,333	278	348	302	1,793	3,404	429	167	202	1,798	1,215	1,333	1,791	1,765	238	1,374	1,734	259	129		241	-
EC	Arrests	426	9,378	305	686	980	722	504	659	262	317	262	114	301	67	690	366	619	756	1,020	526	170	-	52	-
FS	Actions Completed	52,552	1,156,143	62,191	58,487	53,977	67,344	64,707	56,328	53,852	78,848	91,388	75,843	14,777	63,184	13,623	75,369	16,376	85,817	70,919	17,523	43,956	31,178	58,787	1,669
FS	Driving Document Moving Offences	779 3,017	17,147 66.372	819 3,816	1,174 3,840	659 2,449	709 2,263	735 3,124	562 3,132	493 3,123	621 4,599	1,065 7,752	741 5,847	181 761	837 3,270	180 673	1,036 3,481	151 711	1,115 3,029	1,139 2,557	206 652	915 3,094	1,484 2,758	2,267 5,362	58 79
FS	Vehicle Defects	3,636	80,000	4,965	5,534	3,767	3,762	4,245	4,078	3,571	4,824	7,107	4,960	1,184	5,111	1,158	5,095	1,159	4,042	4,087	939	3,183	2,856	4,311	62
FS	Road Worthy	12	264	65	25	26	6	16	16	-		33	10	-	7	2	2	6	4	7	2	7	14	16	-
FS	Arrests Actions Completed	26 133.874	563 2.945.220	23 223,713	26 176,578	36 155,838	241,004	28 191,660	9 177,353	9 165.058	19 163,240	125 184,987	42 172,128	14 104,991	14 120,064	197.016	11	167,245	19	8	15 163,877	137.312	30	114 165,129	2 38,027
NW	Driving Document	3,025	2,945,220 66.548	4,530	3,795	3,812	4,450	4,370	3,993	3,457	3,598	5,688	4,321	3,361	2,863	4,341		3,112			3,199	3,060	- 1	3,225	1,373
NW	Moving Offences	18,489	406,764	40,017	30,082	34,867	24,593	26,875	42,538	21,198	24,639	19,536	18,857	16,451	12,273	20,828	-	20,088	-	-	18,975	15,195	-	17,947	1,805
NW	Vehicle Defects	3,790	83,382	6,053	5,777	2,874	5,629	6,487	5,588	3,747	4,170	5,766	4,650	4,121	4,180	6,222	-	6,786		-	3,734	3,137	-	3,965	496
NW	Road Worthy Arrests	129 815	2,831 17.920	1,118 740	1,565	149 1,455	107 854	463 1,830	110 1,881	94 59	70 65	81 1,547	79 209	79 1,245	52 48	113 1,884	-	41 1,506	-	-	49 1,674	89 116	-	1,194	53 48
NC	Actions Completed	26,999	593,982	34,577	36,683	23,244	33,352	34,245	27,195	35,096	28,490	26,648	28,336	32,875	27,648	35,977	-	30,971	-	28,375	32,065	32,102	-	33,832	32,271
NC	Driving Document	494	10,858	974	-		-	-	-	-	-	-	-	-	-	1,503	-	1,284	-	1,033	1,290	1,290	-	2,153	1,331
NC	Moving Offences	1,062	23,353	292	318	190	294	339	227	386	208	94	120	294	207	2,880	-	2,835	-	2,510	3,363	3,363	-	2,688	2,745
NC NC	Vehicle Defects Road Worthy	288 15	6,343 324	- 7	10	- 15		- 24	- 2	- 21	- 21	- 21	- 9	- 8	- 2	1,135 23	-	1,218	-	798 19	686 34	686 34	-	923 15	897 47
NC	Arrests	266	5,854	271	311	13	171	259	9	3	734	29	228	372	3	276	-	383	-	434	508	508	-	879	463
LIM	Actions Completed	85,991	1,891,799	123,377	128,543	137,570	146,241	97,428		164,143	136,352	164,108	152,894	125,913	148,014	147,014	-			-	126,768	93,434	-	-	-
LIM	Driving Document		-	-	-	4 201	- 22.200	- 4 270	-	4.705	-	- 2 200	- 2 470	-	4.000	-	-	-	-	-	-	-	-	-	
LIM	Moving Offences Vehicle Defects	2,734	60,154	- 2	-	1,394	23,383	1,276	-	1,785	24	2,268	2,470	-	1,846	25,706	-	-	-	-		-	-	-	
LIM	Road Worthy	310	6,812	268	158	244	806	212	-	543	533	609	543	902	591	663	-	-	-	-	740	-	-	-	
LIM	Arrests	2,026	44,579	600	715	22,661	662	36	-	672	786	796	1,676	660	1,125	13,099	-	-	-	-	1,091	-	-	-	-
MP	Actions Completed Driving Document	242,979 17.759	5,345,534 390.694	206,469	236,042	226,594 990	247,727 655	306,363 793	278,274	476,271 365.019	294,345 1.389	277,658	289,833 1.190	292,782 944	286,082 895	154,344 830	313,900 1.772	287,154 1.746	208,728 1.718	172,768	182,656 1.154	201,220	32,102 1.290	213,267 2.160	160,955 1,490
MP	Moving Offences	17,759	288,947	1,139	1,048	9,103	7,435	9,726	1,132	23,284	25,916	21,973	20,192	15,509	12,175	10,713	1,772	1,746	1,718	1,446	1,154	14,628	3,363	16,372	9,983
MP	Vehicle Defects	8,711	191,634	8,688	10,349	6,818	7,706	6,881	11,677	12,342	9,680	11,912	9,518	8,984	8,589	5,410	8,528	9,166	10,579	641	9,128	10,303	1,044	13,891	9,800
MP	Road Worthy	1,600	35,203	1,046	1,577	1,669	1,948	1,622	1,006	1,397	1,170	1,785	1,038	1,496	1,159	1,514	2,337	2,053	2,170	1,524	1,449	2,083	34	3,261	1,865
MP	Actions Completed	287 21,882	6,318	119	390 26,858	450 25,898	427 24,058	153 21,513	82 21,006	103 20,921	113 16,268	558 17,753	126 18,422	169 14,857	145 14,738	213	214 2,923	259 157,580	232	528	712 35,714	560 13,187	498	245 27,900	- 22
NTP	Actions Completed Driving Document	372	481,393 8.194	21,797 253	26,858	25,898	620	692	456	788	616	276	18,422	798	707		2,323	- 137,360	-	-	480	311		100	
NTP	Moving Offences	840	18,483	465	1,631	1,341	1,271	1,444	943	1,750	1,339	482	1,393	1,702	1,004	-	135	2,164	-	-	896	452	-	71	-
NTP	Vehicle Defects	943	20,735	1,772	1,976	1,669	1,613	1,606	1,091	1,975	1,493	516	1,775	2,110	1,200	-	-	-		-	1,004	719		216	-
NTP	Road Worthy	245	5,397 1.629	324 35	381	394 26	259	177 31	263 43	442 26	366 64	341 43	446 15	315 53	232 170	-	485 307	418 713	-	-	166	50 19	-	338	-
NIP	Arrests	74	1,629	35	- 8	26	1	31	43	26	64	43	15	53	170		307	/13	-	-	9	19	-	66	-

Item (Offence Group) Analysis – Graphs Example





Document Offences Defects W 202,718 3,165,328 285,661 2 114,747 324,852 124,200 2 158,270 1,236,518 133,815 2 48,071 193,669 39,904 2 17,147 66,372 80,000 6 66,548 406,764 83,382 6 10,858 23,353 6,343 - 60,154 - 60,154 - 8,194 18,483 20,735 8,194 18,483 20,735	NO A	Driving	Moving	Vehicle	Road	0+30xx
202,718 3,165,328 285,661 114,747 324,852 124,200 158,270 1,236,518 133,815 48,071 193,669 39,904 17,147 66,372 80,000 66,548 406,764 83,382 10,858 23,353 6,343 - 60,154 - 8,194 18,483 20,735 8,194 18,483 20,735	2	Document	Offences	Defects	Worthy	Allests
114,747 324,852 124,200 158,270 1,236,518 133,815 48,071 193,669 39,904 17,147 66,372 80,000 66,548 406,764 83,382 10,858 23,353 6,343 - 60,154 - 8,194 18,483 20,735 8,194 18,483 20,735	GP	202,718	3,165,328	285,661	24,609	26,401
158,270 1,236,518 133,815 48,071 193,669 39,904 17,147 66,372 80,000 66,548 406,764 83,382 10,858 23,353 6,343 - 60,154 - 8,194 18,483 20,735 8,194 18,483 20,735	KZN	114,747	324,852	124,200	15,337	13,859
48,071 193,669 39,904 17,147 66,372 80,000 66,548 406,764 83,382 10,858 23,353 6,343 - 60,154 - 8,194 288,947 191,634 8,194 18,483 20,735 1,017,247 5,784,440 965,674	WC	158,270	1,236,518	133,815	4,178	11,368
17,147 66,372 80,000 66,548 406,764 83,382 10,858 23,353 6,343 - 60,154 - 8,194 288,947 191,634 8,194 18,483 20,735 1,017,247 5,784,440 965,674	EC	48,071	193,669	39,904	4,449	9,378
66,548 406,764 83,382 10,858 23,353 6,343 - 60,154 - 60,154 - 60,154 83,982 81,947 191,634 81,948 20,735 91,17,247 5,784,440 965,674	FS	17,147	66,372	80,000	264	263
10,858 23,353 6,343	ΝN	66,548	406,764	83,382	2,831	17,920
8,194 18,483 20,735 8,194 5,784,440 965,674	NC	10,858	23,353	6,343	324	5,854
390,694 288,947 191,634 3 8,194 18,483 20,735 3 8,194 5,784,440 965,674 3	MI	1	60,154	1	6,812	44,579
8,194 18,483 20,735 all 1017,247 5,784,440 965,674	MP	390,694	288,947	191,634	35,203	6,318
1 017 247 5 784 440 965 674	NTP	8,194	18,483	20,735	5,397	1,629
יייייייייייייייייייייייייייייייייייייי	Total:	1,017,247	5,784,440	965,674	99,404	137,869

TOS Data (Extract)

Goto Main		,																		
Item 🔻 Activity (Number of)	v Average v Tota	Total v Á	Ápr 13 v Ma	May 13 v Jun 13 v	, v Jul 13 ∨	v Áug 13 v	v Sep 13 v	v Óct 13 v	Nov 13 v	Dec 13 🔻	Jan 14 🔻	Feb 14 v Mar 14	ar14 v Apr14 v	v May 14 v	v Jun 14	v Jul 14 v	v Aug 14 v	Sept 14 🔻	Oct 14 v Nov 14	/14 v Dec14 v
Completed No. of K78 Roadblocks held		- 020	110 740		ľ				200 00	110 300	75 433	2 222	0L 4EC					- 200 03	30 100	8
No. of	863 1	17,254		240 2,	2,895 2,0	2,014 252	2 1,673	73 3,130	2,539	191				59 131		327 114	4 314	212	3	122
т		8,415	3,837	2,462	- 1,(3,175	2,	101		2,566			796 1						1,248	
$^{+}$		183	1 505			12 19	ľ		1 063	1 623		. 22						- 204	4 4	
Driving Document Driving licence (Fail to carry)		5,744	576		304	177 20			302	294	245	225						240	7.86	1
Oriving Document PRDP (None)		7,589	453	406		291 33		708 689	375	496	322	193		479 3	338	237 27	5 324	366	326	
П	165	3,300	260						238	315	307	177				62 131		163	219	
Т		180								139	4						3	1	. :	
_		901	612					52 395	375	409	153	197		361		507 22		295	258	+
T		4 294	30.8							920	224	153						167	238	
ing Offences Road Sign/ Marking - Traffic Signal Violation	609	1817	1.053	1,249	877	387 529		982 766	1	528	498	131	271		436		404	486	234	
Stopping on freeway		338	6							32	35	7								
Moving Offences Speed-Manual (Hand Held Camera)		9,108	2,752	2,959 2,		1,641 1,776	1,		-	1,478	1,396	603	1,345		1,651		1,		1,072	1,674
Moving Offences Speed- Camera (Fixed Camera)		0,716	2,446			2,346 1,848		3,526 3,827		1,186	148	126						2,677	30	
		5,213	1,425	1,		1,092		2,013 1,999	1,986	1,118	740	633					1,127	1,084	652	
Moving Offences Seat belt (Passenger)	39	783	45	125	32	24 2	11	70 22	28	37	17	31	24			127	0 1	18	31	
		287	49		43	3		15 9	m 500	6	4	2	16	6	10	11		12	25 5	
T		7,944	1,006			1,			1,808	1,034	269	383	387				2 654	8698	448	
T		130	334		195	153	7	1/ 300	997	757	163	\$			IUS			1/5	19/	1
Moving Offences rall to display Operator Card		2 102	190	84	30	127			115	348				γ (1)	21	10 3/	2 0	101	9 9	
1		3 311	815					40 814	583	511	658	420				ľ		9EE	200	
1		1.842	127			114 10			173	95	27	27					2 54	75	37	
Moving Offences Other Moving Offences	1,514 3	0,287	2,001	1,204 2,	2,482 2,	105 2,420		2,168 2,972	2,351	867	240	114	248 1		1,580	1,489 2,35	1	2,161	171	
		253	4		59	12 1	0	11 3	3			2	64		53	23 -		1	4	
- 1		8	,						4		15		2				1 9	14	9	
Vehicle Defects Brakes (Service)	217	4,348	302	223	261	150 222		319 303	199	166	140	124	225	178	195	151 176	9. 176	133	219	+
П	. 323	1 505						1 152	. 103	. 610	. 03	300	. 000				. 003	, 90P	. 8	
efects front/amos/Head Jamos		2.758	131					18 221	117	108	5 5	43	27	148	93			133	8	
Vehicle Defects Rear lamps/Stop lamps	255	5,091	536	262	406	203 214		429 309	229	275	226	181	131			169 144	4 234	146	242	
Vehicle Defects Direction indicators		1,135	88		102	39	2	99	23	48	36	22	45					45	99	
T		3,551	177			137 14	140	09 215	339	195	208	94	100		129	131 122	2 124	151	149	
Vehicle Defects Side and Rear Retro Reflective Markings		751	90		39	9	7		12	51	13	2	151			28 3	3 15	00	128	
T	521 1	10,418	733	370	353	357 398	7	223 701	511	513	209	347	434	502	534	218	382	326	2887	
Road Worthy Vehicles disconninged		4,449	730						10/	707	TOT	139	747					607	123	
	- 68	1.774	138	96	130	69	33	116 154	159	146	31	. 01	. 11	119	. 22	110	80	105	. 11	+
No driving licence		614	27		125	3 8	0		10	24	13	239	24						1 8	
Speed		355	33		17	23 3	8	32 10	25	8	1			9	4	55 4	48 29	8		
Overload Goods		15							15	,							,			
Inco, Rec &Neg	7	145	20	80	∞	4	4	10 8	10	2	1	2	12	3	11	11	7	11		1
Permits/Operating Permits		10											10					. !		
Warrants Executed		5,403	. 3		290	588 35	3	393			45	03	-	517 2	286	413 522	_	372	112	
False Documentation	4 4	73	11		, ,			7 1	1	, one	0 [1 4	1 1			,	1 2	
Dedectrians Arrested	97	62	9/	21	124	3		0,	'n	6/	/4		OT	0 2	31	9 .	8 6	PR .	a -	
Completed No. of K78 Roadblocks held		đ .															*		4	<u> </u>
Т	46,030 1,01	1,012,665	57,795	53,976 45,	45,602 51,996	56,35	49,769	69 44,313	65,473	84,172	68,509	13,534	13,757	13,410 66,848		14,022 73,520	0 61,688	14,315	35,045	7,351 55
Actions Completed No. of Drivers tested for alcohol	44	1961	290		21			21					114	1		215	- 2			
	5,879	129,346	2,919	3,593 7,	603 14,773				12,634	6,133	6,542	1,053	4,355		7,549 2,	2,180 11,086			8,337	3,827
$^{+}$		3,171	887		751	790		89 581	741	1,083	792	190	958				1,083	204	574	
Driving Document Driving licence (none)	387	8,503	510			162 33			343	946	452	// 98	177	/9 5	255	40 75			3.74	920
+		1.290	38						40	63	23 25	6	40		68				5 12	149
+		1.378	3						2	3	S)	2	2 23	127				286	32
T.		88	3	80	1	4	4	3 6	1	1	15		2		3	3			92	2
т		1,845	75	264	66	20	38		39	18	36	29	207	ľ						425
П	19	408	21		19			26 19	8	56	15	18	28	18	19	1 1	13 17		30	10
Overtaking in Face/Barrie		2,899	121	207	107	151 18			169	279	280	21	127		165	39 14	7 139	33	107	135
Moving Offences Road Sign/Marking - Traffic Signal Violation			. :		_				. :	. 1	. :		. '	+	_				. *	
Т	19	425	48	27	27	14 6		7 27	22	51	39	2	17	1	17	7	34	9	22 23	24
Speed-Manual (Hand		020,7	304		136	35 61		T)	1,485	1,911	2 465	067	1013		767				1,109	377
Spat helt (driver)		4.098	286						217	215	222	40	181		133	63		95	8	103
Moving Offences Seat belt (Passenger)		2,826	369						116	184	179	33	131		140			32	N N	51
Seat belt	133	2,936	416	250	265	195 221		145 51	88	223	267	42	88	14 14	115			102	105	46
		8,348	490						200	669	529	102	482		294			119	337	294
┑		6,933	424						420	534	338	89	374		175			89	339	251
T		2,150	109			103		05 95	213	148	133	32	150	23 1	129			17	137	108
Moving Offences Overloading (goods)	171	3,767	107												-					
П				11					292	202	140	36	26		164			82	265	118
Т		797							292	207	140	36	98	27	183	16 108	7 186 8 125	82	265	118