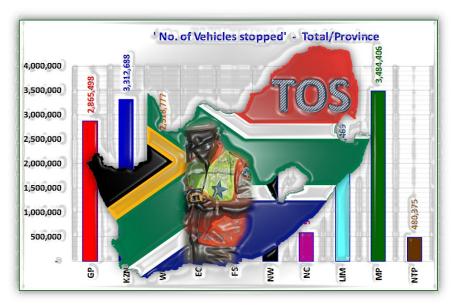




TOS - Traffic Offence Survey



March 2015

Compiled by: RTMC: Research and Development Unit





EXECUTIVE SUMMARY

The Research and Development Unit of the Road Traffic Management Corporation (RTMC) identified the need to execute an atypical Traffic Offence Survey (TOS) project in 2014/15 based on traffic infringement data collected over a period of 22 months from the nine (9) provinces and the National Traffic Police (NTP). The principles of the project and a conventional annual TOS is very similar in that traffic offence data is collected and analysed however, the outcomes however differ in that this project outcomes are percentage orientated whereas the outcomes of a conventional TOS is based on indices where activities are weighted before evaluations are made and compared on an annual basis.

This TOS will complement the intended annual TOS by analysing traffic offences in a broader context under normal traffic law enforcement conditions. The outcomes of the study will provide amongst others a baseline to compare data of future TOS's as well provide input towards establishing a national database of traffic law enforcement offences across all levels of authority.

The RTMC Research and Development Unit established an Excel System to analyse data reported on. The system will be used to analyse and report on data collected from provinces and the NTP and from 2015/16 include analysis on data from Metro's and Local Municipalities on a continuous basis. The unit in conjunction with the Law Enforcement Branch of the RTMC is in the process of establishing a reliable input system for all law enforcement authorities to be able to report to the RTMC on activities on a monthly basis.

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 analysis where outputs were compared to AARTO 2013 offence statistics. In addition, a comparison level between offences recorded over the 22 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.

From the data analysed, speeding as the major contributor of road fatalities are also the offence with the highest infringement proportion reported on. It appears that even though speed law enforcement is being done aggressively, drivers are still speeding and it does not appear as if the number of speeding offences are decreasing.





With pedestrian fatalities as the second highest contributor to road fatalities, jaywalking arrests was amongst the lowest offence proportions recorded. Arresting and prosecuting for jaywalking 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 will most probably be the only real actions to ensure a decrease in pedestrian road fatalities.

Even though all the analysed proportions of infringements contributing to road related deaths are important it is believed that by focussing on the two main contributors to road related deaths i.e. speeding and jaywalking the highest impact can be made to ensure a decrease in the number of road related fatalities on South African Roads.

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, endorsed by the NDoT to ensure that reliable reporting standards are met.
- The Research and Development Unit in conjunction with the RTMC Law Enforcement Branch establish the reporting and analysis model.
- The Research and Development Unit import monthly infringement data as per the modal and publish quarterly internal traffic offence survey reports on both a macro and micro level through the database system that was developed and discussed in section 3 of this document.
- 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.





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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 (NDoT) and the Road Traffic Management Corporation (RTMC).

The latest independent annual TOS was conducted in 2010. The survey methodology however 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 annual TOS in line with the new developed methodology will be executed by an independent service provider during the 2015/16 financial year.

In the interim, the Research and Development Unit of the RTMC identified the need to execute an atypical TOS project in 2014/15 based on data collected over a period of time from the nine (9) provinces and the National Traffic Police (NTP) under normal traffic law enforcement operations ahead of the annual TOS to be executed in 2015/16. The principles of the project and a conventional TOS is the same in that traffic offence data is collected and analysed. The outcomes however differ in that the project outcomes are percentage orientated whereas the outcomes of a conventional TOS is based on indices where activities are weighted before evaluations are made.

This TOS will complement the intended annual TOS by analysing traffic offences in a broader context under normal traffic law enforcement conditions. The outcomes of the study will provide amongst others a baseline to compare data of future TOS's as well provide input





towards establishing a national database of traffic law enforcement offences across all levels of authority.

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 NTP over a 22 month period from April 2013 to January 2015.

1.1 Objectives and Outcomes of the Project

The aim of the study project 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,

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, collecting 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 period of 22 months from April 2013 until January 2015 from the nine (9) provinces and the NTP.

An Excel database system was established 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 utilised for analysis is based on summarised infringement reports submitted to the RTMC by the nine (9) provinces and NTP from April 2013 to January 2015 which was reported on a 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 35,054,170 items were reported over the 22 months project study period.

The data was analysed in a matrix under six (6) Item Groups and fifty (50) Action/Offence Activities (tabulated under paragraph 2.2 below).

2.2 Data Reliability

The data collected was captured and analysed by the RTMC's Research and Development team. Different levels of reliability was found for each of the matrix levels. The micro data received was not in accordance with acceptable levels of reliability in accordance with statistical analysis prescripts to analyse the data on a micro level. The criteria was however met to analyse the data on a macro level.

The reporting format (Annexure A) established by the RTMC in 2013 included, in addition to Item/Groups and Offence Activities, a breakdown per month of each activity for different types of vehicles. Unfortunately some provinces opted to alter the reporting format which resulted in the data on activities/offences per vehicle class not reliable; however, totals per month were provided for each of the 50 activities which could be analysed with relative reliability.

Over the 22 month study period an average of 19 months of data were available for analysis with some months not reported on. This effects an 85.6% reliability of available data which is





acceptable for macro level analysis. The reliability of the actual data reported on is however dependent 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:

ltem Groups	No./Group	Total No.	Activities	Total Recorded	Average Per Month	Data Available (Ave Months)	% of Months Available Data
1	1	1	No. of K78 Roadblocks held	17,567	1,023	17	78.0%
Actions	2	2	No. of Vehicles stopped	19,635,135	1,034,199	19	86.3%
Completed	3	3	No. of Drivers tested for alcohol	3,841,448	212,588	18	82.1%
	4	4	No of Vehicles Weighed	3,297,525	164,380	20	91.2%
	5	5	No of Government vehicles stopped	244,761	12,550	20	88.7%
			Subtotal:	27,036,436	1,424,740	19	85.3%
2	1	6	Driving licence (none)	252,453	13,854	18	82.8%
Driving	2	7	Driving licence (Fail to carry)	289,708	15,237	19	86.4%
Document	3	8	PRDP (None)	297,245	14,443	21	93.6%
	4	9	PRDP (fail to carry)	50,109	2,829	18	80.5%
	5	10	Dangerous Goods Vehicles	11,679	683	17	77.7%
	6	11	Public Passenger Transport Permit Condition	118,975	5,836	20	92.7%
			Subtotal:	1,020,169	52,882	19	85.6%
3	1	12	Inconsiderate Driving	12,447	641	19	88.3%
Moving	2	13	Overtaking in Face/Barrier line	66,549	3,304	20	91.6%
Offences	3	14	Road Sign/Marking -Traffic Signal Violation	454,462	23,024	20	89.7%
	4	15	Stopping on freeway	20,125	1,092	18	83.8%
	5	16	Speed-Manual (Hand Held Camera)	867,083	45,708	19	86.2%
	6	17	Speed- Camera (Fixed Camera)	1,921,243	102,980	19	84.8%
	7	18	Seat belt (driver)	328,258	18,832	17	79.2%
	8	19	Seat belt (Passenger)	1,150,806	60,641	19	86.3%





ltem Groups	No./Group	Total No.	Activities	Total Recorded	Average Per Month	Data Available (Ave Months)	% of Months Available Data
	9	20	Seat belt (Rear)	25,389	1,373	18	84.1%
	10	21	Unlicensed Vehicles	275,139	14,528	19	86.1%
	11	22	Fail to display Licence Disc	148,765	8,698	17	77.7%
	12	23	Fail to display Operator Card	41,004	2,445	17	76.2%
	13	24	Overloading (goods)	86,389	4,555	19	86.2%
	14	25	Overloading (passengers)	91,775	4,991	18	83.6%
	15	26	Held Cell phone in Hand Whilst driving	76 <i>,</i> 486	3,920	20	88.7%
	16	27	Other Moving Offences	221,949	11,713	19	86.1%
			Subtotal:	5,787,869	308,444	19	84.9%
4	1	28	Steering	5,025	236	21	96.7%
Vehicle	2	29	Windscreen Wipers	18,995	965	20	89.4%
Defects	3	30	Brakes (Service)	26,761	1,365	20	89.1%
	4	31	Brakes (Parking)	61,750	3,103	20	90.5%
	5	32	Tyres	184,694	10,942	17	76.7%
	6	33	Front Lamps/Head lamps	89,535	4,620	19	88.1%
	7	34	Rear lamps/Stop lamps	104,926	5,397	19	88.4%
	8	35	Direction indicators	35,639	1,791	20	90.5%
	9	36	Number plate	84,355	4,421	19	86.7%
	10	37	Side and Rear Retro Reflective Markings	55,787	2,595	22	97.7%
	11	38	Other Defects	305,015	16,042	19	86.4%
			Subtotal:	972,482	51,477	20	89.1%
5	1	39	Vehicles discontinued	73,681	3,723	20	89.9%
Road	2	40	Vehicles impounded	26,543	1,381	19	87.3%
Worthy			Subtotal:	100,224	5,105	20	88.6%
	1	41	Drunken Driving	44,113	2,742	16	73.1%
	2	42	No driving licence	1,729	89	19	88.4%
	3	43	Speed	16,144	1,064	15	69.0%
	4	44	Overload Goods	4,646	305	15	69.1%
6	5	45	Inco, Rec & Neg.	1,547	80	19	88.0%
Arrests	6	46	Permits /Operating Permits	8,386	444	19	85.8%
,	7	47	Warrants Executed	48,541	2,827	17	78.0%
	8	48	False Documentation	917	50	18	82.5%
	9	49	Other Arrests	5,625	294	19	86.9%
	10	50	Pedestrians Arrested	5,342	301	18	80.7%
			Subtotal:	136,990	8,196	18	80.2%
			Grand Total:	35,054,170	1,850,844	19	85.6%





3. DATABASE

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

The monthly data reports was, 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.

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.

An input format is being developed which will be password protected for authorities not to make alterations which will in turn ensure that in future such analysis can be done on a micro level which will include amongst others, a breakdown per vehicle classification, time of day, day of the week etc. The Research and Development team of the RTMC is in the process of establishing a concept system which will be submitted for approval to the RTMC Executive after work-shopping the concept with all provinces, metros and the NTP.

3.1 Database System Established

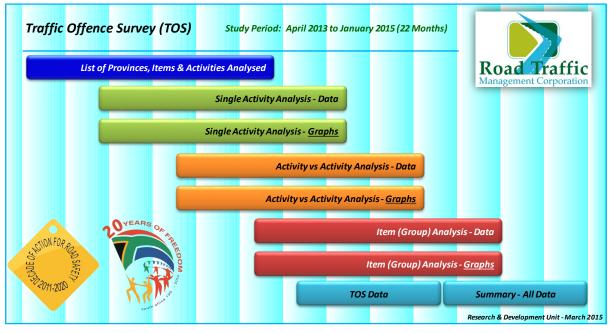
A Microsoft Excel database system was established to analyse the data with a "Main" Input sheet which directs the users via hyperlinks to eight (8) different outcome based analysis sheets viz.:

- 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



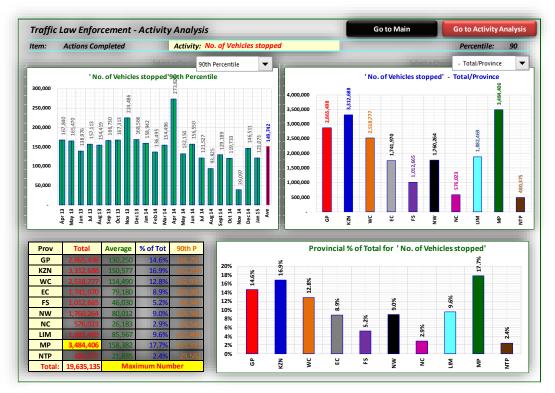


The following screenshot illustrates the "Main" sheet from where analyses can be conducted:



"Main" sheet

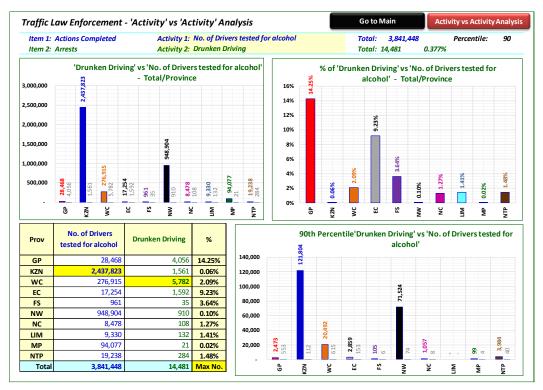
Screenshots of the three (3) major output sheets are illustrated below (A4 size example screenshots of all sheets of the System are attached at Annexures B to J:



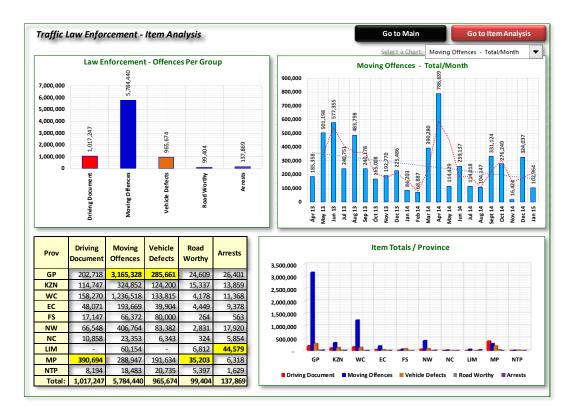
Single Activity Analyses – Graphs







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 Information Unit which inhibited analysis on a micro level.

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

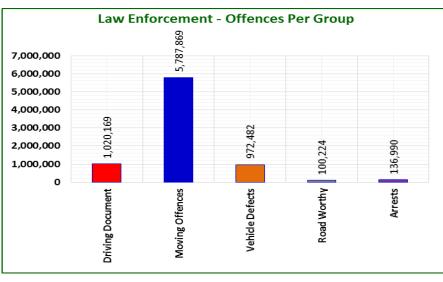
Note: All data quantified in this section are as recorded and reported by the nine (9) Provinces and the NTP over the study period of 22 months (April 2013 – January 2015); unless otherwise stipulated.

4.1 Item Group Analysis

A total of 27,036,436 law enforcement actions were recorded at an average of 1,424,740 actions per month as tabulated below:

Item Group	Activities	Total	Average Per Month
	No. of K78 Roadblocks held	17,567	1,023
	No. of Vehicles stopped	19,635,135	1,034,199
Actions	No. of Drivers tested for alcohol	3,841,448	212,588
Completed	No of Vehicles Weighed	3,297,525	164,380
	No of Government vehicles stopped	244,761	12,550
	Total:	27,036,436	1,424,740

This part of the 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 recorded per Item Group





The above graph illustrates that the Moving Offences recorded far exceeds other offence groups. A linear evaluation on the amount of offences per group can however not be done due to a different number of activities recorded per group

It would however be acceptable to calculate a representing factor for each Item Group to calculate the relative percentage that each group represents from the total offences recorded. The following table summarises relative percentages that each group represents of the total offences recorded:

Item/Offence Group	Total Number of Offences Recorded	% of Total	No. of Activities per Group	Factor Calculated	Relative % of Total
Driving Document	1,020,169	12.7%	6	2.121	24.9%
Moving Offences	5,787,869	72.2%	16	4.512	52.9%
Vehicle Defects	972,482	12.1%	11	1.103	12.9%
Road Worthiness	100,224	1.3%	2	0.625	7.3%
Arrests	136,990	1.7%	10	0.171	2.0%
Total	8,017,734	100.0%	45	8.531	100.0%

From the above, moving offences tended to in fact be the most offences recorded at 52.9% of all offences with arrests made the least recorded activity at 2.0% of the total.

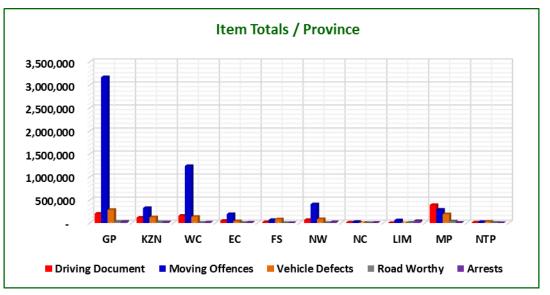
Prov/Auth	Driving Document	Moving Offences	Vehicle Defects	Road Worthy	Arrests	Total	% of Total
GP	202,718	3,165,328	285,661	24,609	26,401	3,704,717	46.2%
KZN	114,747	324,852	124,200	15,337	13,859	592,995	7.4%
WC	158,270	1,236,518	133,815	4,178	11,368	1,544,149	19.3%
EC	48,071	193,669	39,904	4,449	9,378	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	-	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	
% of Tot.	12.7%	72.2%	12.1%	1.3%	1.7%	100.0%	Max No.

The total data recorded per Item Group for offences are tabulated below:





From the above table, 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; the latter illustrated per province in the graph below:



Total Law Enforcement Offences recorded per Item Group

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 results which should be taken into account such as:

- Poor recording and/or reporting by provinces or the NTP
- 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 difficult to estimate the actual vehicles per province in that many vehicles are registered in one province but are used in another province or travel mostly in other provinces. This anomaly was overcome by using the actual fuel sales per province which should with relative reliability indicate the vehicle population in each province.



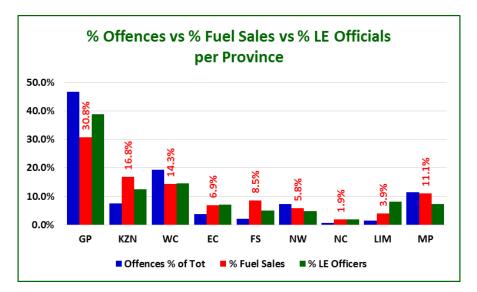


The comparison between offences recorded over the 22 month period versus percentage fuel sales per province versus traffic law enforcement officials in provinces show a definite correlation. For the purposes of this analysis the NTP data was omitted due to a lack of spatial data on where offences were actually recorded however, as the NTP data is only 0.8% 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:

Province	Offences % of Total Apr13 – Jan15	% Fuel Sales 2014	% Law Enforcement 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:







It should be kept in mind that offences recorded in the eight (8) metros and local municipalities did not form part of the study data however, as stated, a definite correlation can be seen if the three parameters are compared. Future such studies will most definitely take into account offences recorded over all spheres of government which could be a tool to indicate a shortfall or surplus in law enforcement officials in South Africa and among the different law enforcement authorities.

In addition, the data was compared with the 2013 AARTO offences recorded, which showed relative good correlation except for speeding which has a calculated variance of 12.264%. The reason for the latter might be under-reporting, or the focus of law enforcement activities shifting or most probably due the non-inclusion of the offence data from the eight (8) metros and local municipalities.

Even though the variance for speeding is 12.264%, speeding is still by far the most recorded infringement with a total of 34.98% of all recorded offences.

Activity / Infringements	% AARTO 2013	% TOS 2014/15	% Variance
Registration & Licencing	1.89%	1.86%	0.000%
Number plates	0.07%	1.05%	0.005%
Driver Licences	0.76%	6.78%	0.181%
PrDP	0.38%	4.33%	0.078%
Roadworthiness	0.87%	1.25%	0.001%
Brakes	0.16%	1.10%	0.004%
Lights	0.60%	2.43%	0.017%
Steering	0.00%	0.06%	0.000%
Tyres	0.49%	2.30%	0.017%
Seatbelts	1.74%	4.09%	0.028%
Overloading	0.20%	0.06%	0.000%
Dangerous Goods	0.10%	0.15%	0.000%
Road Signs, Markings & Signals	3.93%	6.75%	0.040%
Driving Signals	3.07%	0.44%	0.034%
Drunken Driving	0.05%	0.55%	0.001%
Speeding	84.51%	34.98%	12.264%

The table below illustrates the comparison of the data with the 2013 AARTO data:





4.1.1 Driving Document Offences

The driving documents offences grouping consists of six (6) offence activities tabulated below:

Offences Item Groups	Number	Activities	Group Offences	% of Total Offences
2	1	Driving licence (none)	252,453	3.1%
Driving	2	Driving licence (Fail to carry)	289,708	3.6%
Document	3	PRDP (None)	297,245	3.7%
	4	PRDP (fail to carry)	50,109	0.6%
	5	Dangerous Goods Vehicles	11,679	0.1%
	6	Public Passenger Transport Permit Condition	118,975	1.5%
		Sub-Total	1,020,169	12.7%

A very alarming finding is that 3.6% of all offences recorded were drivers without driving licences and 3.7% drivers of public carrier vehicles not having Professional Driving Permits (PrDP). These percentages are unacceptably high and is a need for serious concern towards road safety as a whole.

4.1.2 Moving Offences

The moving offences grouping consists of sixteen (16) offence activities tabulated below:

Offences Item Groups	Number	Activities	Group Offences	% of Total Offences
3 Maying	1	Inconsiderate Driving	12,447	0.2%
Moving Offences	2	Overtaking in Face/Barrier line	66,549	0.8%
onenees	3	Road Sign/Marking -Traffic Signal Violation	454,462	5.7%
	4	Stopping on freeway	20,125	0.3%
	5	Speed-Manual (Hand Held Camera)	867,083	10.8%
	6	Speed- Camera (Fixed Camera)	1,921,243	24.0%
	7	Seat belt (driver)	328,258	4.1%
	8	Seat belt (Passenger)	1,150,806	14.4%
	9	Seat belt (Rear)	25,389	0.3%
	10	Unlicensed Vehicles	275,139	3.4%





Offences Item Groups	Number	Activities	Group Offences	% of Total Offences
	11	Fail to display Licence Disc	148,765	1.9%
	12	Fail to display Operator Card	41,004	0.5%
	13	Overloading (goods)	86,389	1.1%
	14	Overloading (passengers)	91,775	1.1%
	15	Held Cell phone in Hand Whilst driving	76,486	1.0%
	16	Other Moving Offences	221,949	2.8%
		Sub-Total	5,787,869	72.2%

Most critical of the findings are that speeding contributes to 34.8% (10.8% + 24.0%) of all offences recorded over the study period. The effect of the high percentage recorded for speeding in combination with other human and vehicle defect factors on crashes and especially the effect that speeding has on the severity of crashes, is detrimental and is a serious cause for concern.

The second highest contributor from this grouping to the total offences recorded is seatbelt offences. With a total of 14.4% passenger seatbelt offences recorded and a further 4.1% for drivers not wearing seatbelts, this parameter contributes to a large degree of serious and fatal injuries during crashes and is a serious cause for concern.

Other unacceptable high offence rates which are alarming is drivers ignoring road signage, traffic signals and road markings which contributes to 5.7% of all recorded offences; as well as unlicensed vehicles at 3.4%.





4.1.3 Vehicle Defects

The Vehicle Defects grouping consists of eleven (11) offence activities tabulated below:

Offences Item Groups	Number	Activities	Group Offences	% of Total Offences
4	1	Steering	5,025	0.1%
Vehicle	2	Windscreen Wipers	18,995	0.2%
Defects	3	Brakes (Service)	26,761	0.3%
	4	Brakes (Parking)	61,750	0.8%
	5	Tyres	184,694	2.3%
	6	Front Lamps/Head lamps	89,535	1.1%
	7	Rear lamps/Stop lamps	104,926	1.3%
	8	Direction indicators	35,639	0.4%
	9	Number plate	84,355	1.1%
	10	Side and Rear Retro Reflective Markings	55,787	0.7%
	11	Other Defects	305,015	3.8%
		Sub-Total	972,482	12.1%

The most critical offence activity in this grouping is tyre offences at 2.3% of the total offences recorded. Even though other offence types recorded in this grouping contributes only small percentages towards all offences recorded, the seriousness of these parameters as 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:

Offences Item Groups	Number	Activities	Group Offences	% of Total Offences
5	1	Vehicles discontinued	73,681	0.9%
Road	2	Vehicles impounded	26,543	0.3%
Worthy		Sub-Total	100,224	1.3%

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





4.1.5 Arrests

The Arrests grouping consists of two (10) offence parameters tabulated below:

Offences Item Groups	Number	Activities	Group Offences	% of Total Offences
6	1	Drunken Driving	44,113	0.6%
Arrests	2	No driving licence	1,729	0.0%
	3	Speed	16,144	0.2%
	4	Overload Goods	4,646	0.1%
	5	Inco, Rec & Neg.	1,547	0.0%
	6	Permits /Operating Permits	8,386	0.1%
	7	Warrants Executed	48,541	0.6%
	8	False Documentation	917	0.0%
	9	Other Arrests	5,625	0.1%
	10	Pedestrians Arrested	5,342	0.1%
		Sub-Total	136,990	1.7%

The significance of the 10 offence parameters 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.

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

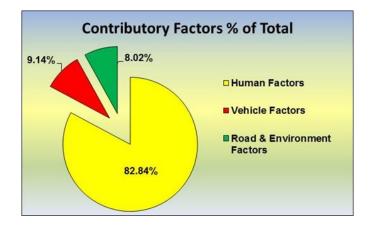
In addition, the arrest parameters will be much higher when metro and local municipality data is taken into account in future.





4.2 Most Significant Factors contributing to Fatalities on Roads

RTMC statistics showed that 95% of road traffic crashes occur as a district result of one or more traffic offences. The main contributory factors to fatal road crashes, as submitted over a number of years by the 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 Factors are the most significant fatal crashes contributory parameter to fatal road crashes at 82.84%; Vehicle and Road environment factors contributes to 17.16% with 9.14% and 8.02% respectively.

When broken down further, the statistics show that the most significant factors that contribute to fatalities in South African Roads are Speed and Pedestrian Jaywalking which contribute to a total of 56.44% of all road related fatalities. The following table quantifies the proportions:

Major Contributory Factors to Fatal Road Crashes		% of Tot
Human Factors	Group %	82.84%
Speed too high for Circumstances	36.40%	30.15%
Pedestrian: Jay Walking	31.74%	26.29%
Overtook when unlawful / unsafe	7.33%	6.07%
Turn in front of oncoming traffic	3.23%	2.68%
Disregard: red traffic light / stop sign / yield sign	3.12%	2.58%
Vehicle Factors	Group %	9.14%
Tyres: Burst prior to Crash	36.30%	3.32%
Brakes: Faulty	25.04%	2.29%
Steering Faulty	24.15%	2.21%
Vehicle Lights: Faulty, not on etc.	2.07%	0.19%
Road Environment Factors	Group %	8.02%
Sharp Bend	27.99%	2.24%
Poor condition of road surface	20.40%	1.64%
Poor visibility (rain, mist, etc.)	15.01%	1.20%





From the TOS analysis in section 4.1 above, speed was recorded as the largest contributor to offences recorded over the study period. The alarming fact is that even though speeding infringements are the highest, speeding is still the highest contributing factor to fatalities in road crashes. It appears that even though speed law enforcement is being done aggressively, drivers are still speeding and it does not appear as if the number of speeding offences are decreasing.

Even though jaywalking fatalities is the second largest contributor to recorded road deaths, the number of pedestrians arrested for jaywalking over the 22 month study period is among the lowest of the arrests reported at 5,342 or 0.067%. 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 will most probably be the only real actions to ensure a decrease in pedestrian road fatalities.

Even though all the tabulated parameters contributing to road related deaths are important it is believed that by focussing on the two main contributors to road related deaths i.e. speeding and jaywalking the highest impact can be made to ensure that the number of road related fatalities are decreased.





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, endorsed by the NDoT to ensure that reliable reporting standards are met.
- The Research and Development Unit in conjunction with the RTMC Law Enforcement Branch establish the reporting and analysis model.
- The Research and Development Unit import monthly infringement data as per the modal and publish quarterly internal traffic offence survey reports on both a macro and micro level through the database system that was developed and discussed in section 3 of this document.
- 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

//	nput – Example	e of N	Ionthly	Repor	tina Fo	rm		Annexu			
			MANAGEMENT CORPORATION								
ĸ			NAGE		CORP	URAI	ION				
			DATE		2013/0	01/01	TO 201	3/01/31			
Traffic Offend	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 Alc	ohol	40	36	500	10	200		1,000	1,786		
No. of Vehicles Weighed		16,307	284	278	233	175			17,277		
Driving Lineane	DRIVING DOCUMEN	1						710	2 4 9 5		
Driving Licence	NONE FAIL to CARRY	509 20	434 81	489 126	481 186	531 127	22 2	719 205	3,185 747		
Driving Licence PrDP	NONE	20	202	285	256	7	2	18	989		
PrDP	FAIL to CARRY	12	11	109	128	, 19		27	305		
Dangerous Goods Vehicles		2		100	120	10		21	2		
Public Passanger Transpo		9		195	50				254		
	MOVING OFFENCE		SES (WRIT			GES ONI	Y)		204		
Inconsiderate Driving		2	42	55	41	89	2	43	274		
Overtaking in Face / Barrier	line	6	1	36	61	82		119	305		
Road Sign / Marking - Traffi		2,222	2,219	2,299	2,300	2,302		2,540	13,882		
Stopping on Freeway		71	42	81	85	188		346	813		
Speed - Manual (Hand held	camera)	371	2	98		239	29	2,103	2,842		
Speed - Camera (Fixed Car	nera)							22,450	22,450		
Seat Belt	Drivers	796	737	945	835	878		1,397	5,588		
Seat Belt	Front Seat Passengers			2		1		11	14		
Seat Belt	Rear Seat Passengers			3		2			5		
Unlicensed Vehicles		855	707	685	653	744	17	1,010	4,671		
Fail to Display Licence Disc	;	55	54	162	132	95	5	200	703		
Overloading	GOODS	57		50	63	57		491	718		
Overloading	PASSENGERS	114		185	134			128	561		
Held Cell phone in Hand WI	nilst Driving	46	47	65	52	53		117	380		
Other Moving Offences		252	236	250	367	257	5	505	1,872		
Chaoring	VEHICLE DEFE	r	RGES (W					11	62		
Steering Windscreen Wipers	1 13	8	19 87	14 59	18 50		11 103	63 320			
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	12	40	32	51	5	101	251		
Number Plate		160	149	40 189	32 184	195	16	307	1,200		
Side and Rear Retro Reflect	tive Markings	7	2	7	104	195	10	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		
ts	Speed	10						52	52		
Arrests	Overload Goods	10	4					4	18		
LLE	Inco,Rec. & Neg.			40	2			114	116		
▲	Permits / Operating Permits Warrants Executed			13				010	13		
	False Documentation							213 1	1		
	Other Arrests			1	1			105	105		
Total Arrests		13	7	561	110	15		769	1,475		
		13	1	501	110	10					
Pedestrians Arrested		22 047	15 620	24 675	20.942	28 217	244	51	51 250 038		
Grand Total (Charges+Sus	pensions+Arrests)	32,917	15,630	34,6/5	30,813	28,317	244	10,136	259,938		



"Main" sheet of Excel Analysis System

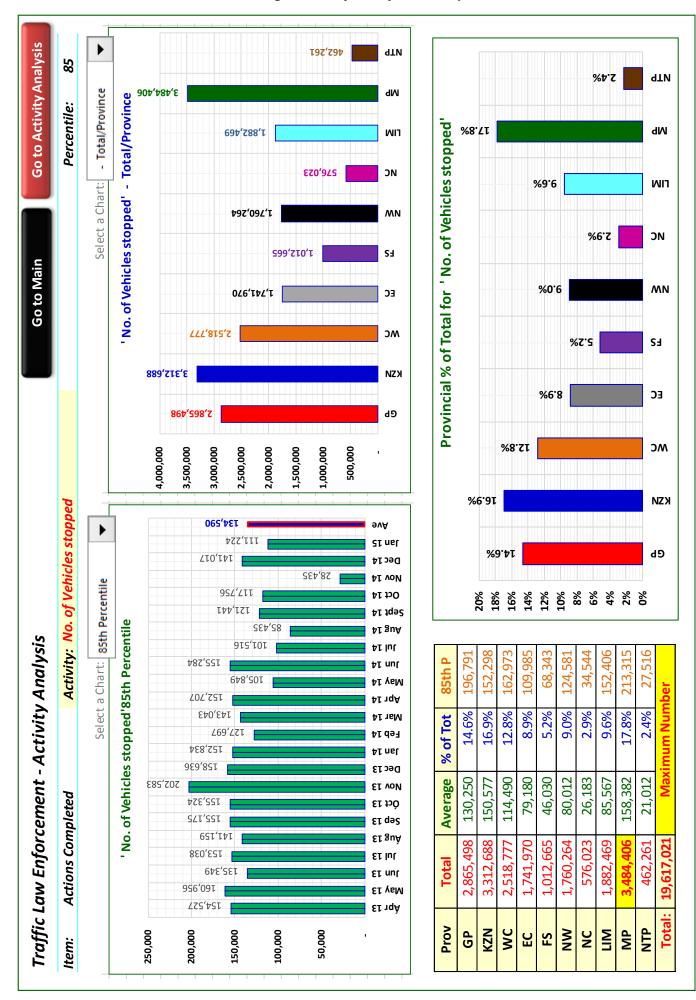
List of Provinces, Items & Activities Analysed

Province:	1 Gauteng	Activities:	1	No. of K78 Roadblocks held
	2 Kwazulu Natal			No. of Vehicles stopped
	3 Western Cape			No. of Drivers tested for alcohol
	4 Eastern Cape			No of Vehicles Weighed
	5 Free State			No of Government vehicles stopped
	6 North West			Driving licence (none)
	7 Northern Cape			Driving licence (Fail to carry)
	8 Limpopo			PRDP (None)
	9 Mpumalanga			PRDP (fail to carry)
National:	10 NTP's		10	Dangerous Goods Vehicles
		-	11	Public Passenger Transport Permit Condition
Items:	1 Actions Completed		12	Inconsiderate Driving
	2 Driving Document		13	Overtaking in Face/Barrier line
	3 Moving Offences		14	Road Sign/Marking -Traffic Signal Violation
	4 Vehicle Defects		15	Stopping on freeway
	5 Road Worthy		16	Speed-Manual (Hand Held Camera)
	6 Arrests		17	Speed- Camera (Fixed Camera)
			18	Seat belt (driver)
			19	Seat belt (Passenger)
			20	Seat belt (Rear)
			21	Unlicensed Vehicles
			22	Fail to display Licence Disc
			23	Fail to display Operator Card
			24	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 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
				Overload Goods
				Inco, Rec &Neg
				Permits /Operating Permits
				Warrants Executed
			48	False Documentation

Traffic	Law En	Traffic Law Enforcement - Item Analysis	em Analy.	sis	6	Go to Activity Charts	yCharts	ĕ	Go to Main																
Activity:		No. of Vehicles stopped	cles stopped	Ŧ	F	From: Apr-13		To: Jan-15	Months:	s: 22	Total: 1	19,617,021	4	Ave / Mnth: 891,	891,683										
Prov	90th P	Average % of Tot	rot Total		Ápr 13 May 13	13 Jun 13	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	196,791	130,250	14.6% 2,865,498		207,916 197,814		131,134 105,619	129,950	- 05	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	116,142	t2 97,739	9 11,207	109,550	148,474	152,723	128,657	99,669	1,363,896		108,173			104,947	91,594		161,756	118,426
wc	162,973	114,490	12.8% 2,518,777		163,387 159,247		131,224 156,698	38 147,194	94 163,451	1 133,520	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		110,748 106,271		100,690 77,651	51 84,790	90 139,806	5 96,066	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 45,	45,602 51,996	96 56,394	94 49,769	9 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
MN	124,581	80,012 9.0	9.0% 1,760,264		126,349 100,813		92,165 125,500	00 116,309	105,457	7 105,673	92,871	129,845	107,616	74,279	78,451	111,165	•	90,653			91,427	83,155	•	98,164	30,372
NC	34,544	26,183	2.9% 576,023		34,577 36,0	36,683 23,	23,244 33,352	34,245	45 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
LIM	152,406	85,567	9.6% 1,882,469		123,377 128,543		137,570 146,241	11 97,428	- 8	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		151,634 160,851	51 219,446	196,242 to 196,242	2 195,841	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
NTP	27,516	21,012	2.4% 462,261		21,797 22,6	22,624 18,	18,783 24,058	58 21,513	13 21,006	5 20,921	14,909	13,067	18,422	14,857	13,000		2,923	157,580			35,714	13,187		27,900	
		Tot	Total: 19,617,021		1,086,433 1,113,228		959,768 1,006,185	85 1,023,411	11 800,665	5 945,727	1,273,329	1,113,524	993,674	826,320	957,767	2,135,046	493,810	817,721	436,726	419,247	867,396	790,867	186,165	884,201	485,811
		Avera	Average: 1,961,702		108,643 111,	111,323 95	95,977 100,619	19 102,341	41 80,067	7 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%	6 4.9%	% 5.1%	5.2%	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%	0.9%	4.5%	2.5%
85	th	Percentile:	ile: 3,329,860		154,527 160,956		135,349 153,038	88 141,159	59 155,175	5 155,324	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:	ue: 462,261		21,797 22,0	22,624 18,	18,783 24,058	58 21,513	13 -	11,207	14,909	13,067	18,422	13,534	13,000	•					14,315	13,187			
		Maximum Value: 3,484,406	ue: 3,484,4		207,916 197,814		151,634 160,851	51 219,446	46 196,242	2 195,841	335, 795	208,692	213,369	207,035	212,830	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 1,029,L		48,123 51,0	51,089 53,	53,480 55,651	51 66,407	72,180	9 66,719	67,178	70,612	69,420	69,806	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 – Data

Annexure E



Single Activity Analysis – Graphs

485,811 502 48,581 50 Jan 15 64,451 118,426 144,892 198 28,152 97,849 1,669 30,372 Dec 14 161, 756 226 131, 424 183 88,420 120 133,959 575 99, 104 19 55, 507 10 98, 164 45 31,570 74 27,900 64 **884,201** 1,204 144,817 Nov 14 129,795 136 27,351 29,019 186,165 147 18,617 15 **Oct 14** 136,130 91,594 49 117,467 247 79,188 79,087 98 35,045 83,155 29,019 88,171 117,911 13,187 790,867 983 Sept 14 187,585 104,947 122,701 30 119,101 134 62,335 14,315 91,427 29,019 100,252 35,714 867,396 678 86,740 68 Aug 14 160,791 83,673 156 61,688 419,247 2,615 41,925 262 26,711 86,384 450 ÷ <mark>Jul 14</mark> 172,475 73,520 115,866 436,726 912 43,673 91 74,865 80 811 Jun 14 151,020 260 108,173 35 206,324 157,580 57 817,721 81,772 49 110 14,022 60,577 90,653 29,372 **488** May 14 121,727 66,848 76,360 493,810 736 49,381 74 225,952 2,923 <u>6</u>6 Apr 14 152,707 486 1,363,896 583 583 152,707 486 78,332 119 13,410 111,165 82,024 213,505 181 147,014 33,791 2, 135,046 1,811 78,451 Mar 14 434 99,669 26 121,130 127 65,456 148,014 13,000 164 957,767 95,777 86 133,812 **11** 57,757 27,648 212,830 860 **Feb 14** 61,521 138 128,657 31 100,312 <u>112</u> 67,337 10 13,534 74,279 32,875 125,913 207,035 14,857 47 826,320 423 82,632 82,632 Jan 14 63 152,723 59 127,874 **31** 68,509 18,422 99,367 36 48,504 75,427 107,616 55 28,336 213,369 993,674 152,894 60 \$ 363 Dec 13 93,641 164,108 127 148,474 <u>114</u> 134,479 110,398 146 84,172 129,845 143 26,648 208,692 1,113,524 111,352 125 13,067 1,246 4 136,352 423 109,550 62 184,875 538 28,490 45 14,909 55 1,273,329
 Óct 13
 Nov 13

 138,947
 335,795
 92,896 159 65,473 92,871 56 212,118 127,333 136 1,356 426 11,207 46 133,520 94 96,066 154 44,313 105,673 164,143 22 20,921 945,727 794 94,573 79 35,096 195,841 97,739 55 163,451 955 139,806 116 49,769 105,457 84 21,006 33 800,665 1,253 80,067 125 27,195 196,242 Sep 13 Áug 13 129,950 116,142 197,194 623 84,790 83 56,394 97,428 21,513 24 1,023,411 102, 341 119 116, 309 34, 245 219,446 1, 192 Jul 13 105,619 124,219 45 156,698 160,851 24,058 1,006,185 802 100,619 80 **69** 51,996 125,500 33,352 146,241 77,651 12 Jun 13 18,783 12 959,768 23,294 127,722 48 131,224 321 100,690 139 45,602 131,134 92,165 23,244 137,570 151,634 95,977 2,329 22 197,814 145,381 36 159,247 733 106,271 96 53,976 100,813 23 128,543 71 161,876 22,624 1,113,228 111,323 153 May 13 36,683 1,530 5 <mark>Ápr 13</mark> 207,916 102,413 42 163,387 458 110,748 138 57,795 126, 349 123,377 138,074 1,086,433 861 108, 643 *86* 21, 797 15 34,577 3 1,012,665 462,261 555 19,617,021 2,865,498 1,760,264 3,312,688 1,603 2,518,777 576,023 1,882,469 3,484,406 6,268 1,741,970 8 6 22,815 44,050 Total **Average** 130, 250 150,577 73 73 114,490 285 79,180 81 81 46,030 80,012 41 85,567 1,037 21,012 25 26, 183 158, 382 443 ltem ~ ~ ---|~ - | ~ Activity 2: Average Prov Total

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Go to Charts

Go to Main

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

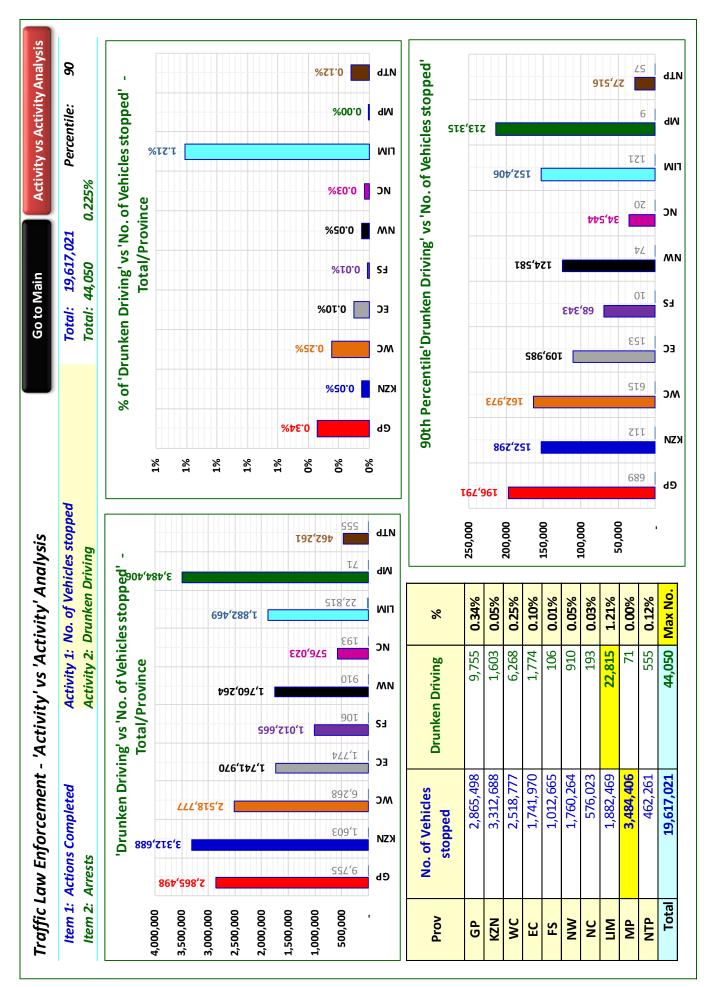
Activity 1 No. of Vehicles stopped

6 ΝZΝ мc

'Drunken Driving' vs 'No. of Vehicles stopped

Analysis of

Activity vs Activity Analysis – Data

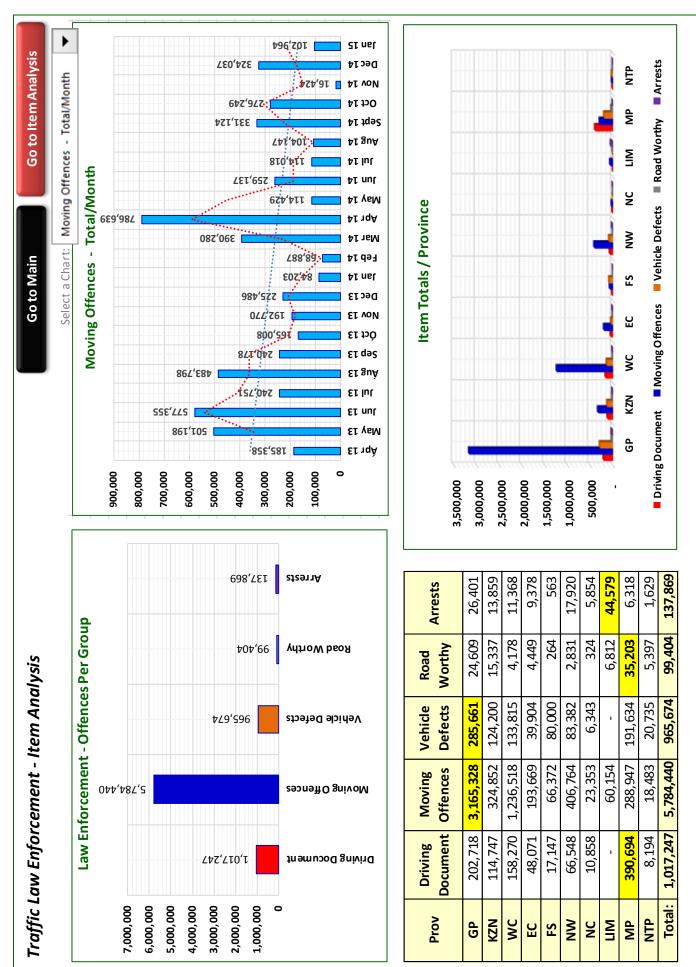


Activity vs Activity Analysis – Graphs

Item (Offence Group) Analysis – Data

_				_				(00		0	- ap		aryo	10	Dut									
Ite	m Charts	G	Go to Main																						
	Items (Number of)		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 Tot	Actions Completed Driving Document	1,228,101 46.239	27,018,216	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	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		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 Tot	Road Worthy Arrests	4,518	99,404 137,869	5,217 3,580	4,755 5,849	4,048 27,997	4,486 5.380	4,400	2,542 5,819	5,190	3,935 9,243	4,751 4,668	3,868	4,497	4,089 3,228	10,985 23,610	4,014	4,835 4,753	4,292 2,648	3,623 5,044	4,055	4,594 3,592	179	6,960 5.108	4,089 2,154
101	Total		35,022,850	1,620,786	2,063,531	1,960,544	1,712,109	1,932,127				1,753,678	1,484,165	1,235,485	1,692,249	4,422,131		1,429,183	743,854	686,667	1,712,811	1,479,214		1,669,095	907,883
[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	285,469	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	Actions Completed	144,864	3,187,013	216,733	205,458	134,964	110,667	133,233	-	167,152	358,223	107,208	50,598	63,244	135,214	155,212	133,419	164,767	192,937	173,716	300,041	152,036	-	152,408	79,783
GP	Driving Document	9,214	202,718	19,671	9,106	11,978	3,933	8,455	-	7,567	8,419	5,415	1,335	2,394	6,676	9,308	9,203	15,635	14,796	15,080	16,532	16,571	-	13,047	7,597
GP GP	Moving Offences Vehicle Defects	143,879 12,985	3,165,328 285,661	67,569 18,524	295,008 14,385	442,009 16,837	52,497 8,444	302,684 13,926	-	48,816 14,416	39,351 10,894	32,635 7,091	3,952 2,107	7,501 5,030	333,580 11,538	291,400 13,464	85,382 15,917	202,737 25,059	85,026 24,981	89,377 17,817	257,610 15,832	217,453 21,981	-	248,121 19,417	62,620 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	Arrests	1,200	26,401	548	814	1,296	673	925	-	1,531	5,775	488	340	324	1,283	970	1,215	952	1,641	3,054	864	1,429	-	1,481	798
KZN KZN	Actions Completed Driving Document	277,131	6,096,874 114,747	102,413	261,409 5,218	233,005	225,015 3,998	209,733 3,752	180,009 3,035	111,871 3,683	198,699 3,563	271,499 5,627	288,644 4,890	244,540 4,254	189,883 3,235	2,494,666 45,714		198,431 3,702	-	-	200,173 4,005	178,768 3,448	-	295,457 7,527	212,659 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 wc	Moving Offences Vehicle Defects	56,205 6.083	1,236,518 133,815	47,930 13,647	132,992 12,310	60,163 7.932	106,645 9,533	115,993 12,027	152,566 22,829	41,310	63,692 7,399	119,415 13,243	14,068	13,808 2,713	12,952 2,804	291,400 13,626			-		19,612 3,238	9,830 2,676	10,303	9,419 931	14,420
wc	Road Worthy	190	4,178	13,047	197	125	203	233	354	174	138	143	170	139	129	1,132	-	-	-	-	125	197	131	252	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	225	255
EC EC	Actions Completed Driving Document	80,810 2.185	1,777,822 48,071	117,624 3.487	108,991 3,189	103,585 2.851	80,746 2.080	88,236 2,291	143,580 4.066	99,196 3.275	95,435 3.252	113,155 3.286	75,427	67,337 1.426	66,253 1.355	79,552	76,491	60,904 1.664	74,979 1.830	83,987 1.642	62,547 1.749	80,443 1,851	-	99,354 2,817	
EC	Moving Offences	8,803	193,669	12,673	12,358	11,498	9,612	10,460	14,141	13,591	23,184	7,907	4,725	2,726	4,075	9,458	10,010	7,708	11,991	8,257	9,212	3,616	-	6,467	
EC	Vehicle Defects	1,814	39,904	2,335	1,976	2,141	1,454	1,793	3,464	2,796	2,188	1,966	1,798	1,213	1,533	1,791	1,765	1,740	1,374	1,734	1,526	2,039	-	3,278	-
EC EC	Road Worthy Arrests	202	4,449 9,378	258 305	278 686	348 980	302 722	182 504	325 659	429 262	167 317	202 262	163 114	139 301	147 67	141 690	138 366	238 619	173 756	190 1,020	259 526	129 170	-	241 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	779	17,147	819	1,174	659	709	735	562	493	621	1,065	741	181	837	180	1,036	151	1,115	1,139	206	915	1,484	2,267	58
FS FS	Moving Offences Vehicle Defects	3,017	66,372 80,000	3,816 4,965	3,840 5,534	2,449 3,767	2,263 3,762	3,124 4,245	3,132 4,078	3,123 3,571	4,599 4,824	7,752	5,847 4,960	761 1,184	3,270 5,111	673 1,158	3,481 5,095	711 1,159	3,029 4,042	2,557 4,087	652 939	3,094 3,183	2,758 2,856	5,362 4,311	79 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 NW	Arrests	26	563	23	26	36	3	28	9	9	19	125	42	14	14	3	- 11	4	- 19	8	15	9	30	114	2 38,027
NW	Actions Completed Driving Document	133,874 3.025	2,945,220	223,713 4,530	176,578 3,795	155,838 3,812	241,004 4,450	191,660 4,370	177,353 3,993	165,058 3,457	163,240 3,598	184,987 5,688	172,128 4,321	104,991 3,361	120,064 2,863	197,016 4,341		167,245 3,112			163,877 3,199	137,312 3,060		165,129 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	5,629 107	6,487 463	5,588 110	3,747	4,170	5,766 81	4,650	4,121	4,180	6,222	-	6,786 41	-	-	3,734	3,137	-	3,965 84	496 53
NW	Road Worthy Arrests	815	2,831 17,920	1,118 740	1,565	1,455	854	1,830	1,881	59	65	1,547	209	79 1,245	52 48	1,884		1,506	-		1,674	116	-	1,194	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 NC	Driving Document Moving Offences	494	10,858 23,353	974 292	- 318	- 190	- 294	- 339	- 227	- 386	- 208	- 94	- 120	- 294	- 207	1,503 2,880		1,284 2,835	-	1,033 2,510	1,290 3,363	1,290 3,363	-	2,153	1,331 2,745
NC	Vehicle Defects	288	6,343	- 292		- 190	-		- 22/	- 380	- 208	- 94	- 120	- 294	-	2,880		2,835	-	2,510	3,303	3,363	-	2,688	2,745
NC	Road Worthy	15	324	7	10	15	-	24	2	21	21	21	9	8	2	23	-	12	-	19	34	34	-	15	47
NC LIM	Arrests Actions Completed	266 85,991	5,854 1,891,799	271 123,377	311 128,543	13 137,570	171 146,241	259 97,428	9	3 164,143	734	29 164,108	228 152,894	372 125,913	3 148,014	276 147,014		383	-	434	508 126,768	508 93,434	-	879	463
LIM	Driving Document	-	-	-	- 120,345	-	-	-	-	-	-	-			-		-	-	-		-		-	-	-
LIM	Moving Offences	2,734	60,154	2	-	1,394	23,383	1,276	-	1,785	24	2,268	2,470	-	1,846	25,706	-	-	-	-	-	-	-	-	-
LIM	Vehicle Defects 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	244	662	36	-	672	786	796	1,676	660	1,125	13,099	-	-	-		1,091	-	-	-	-
MP	Actions Completed	242,979	5,345,534	206,469	236,042	226,594	247,727	306,363	278,274	476,271	294,345	277,658	289,833	292,782	286,082	154,344	313,900	287,154	208,728	172,768	182,656	201,220	32,102	213,267	160,955
MP MP	Driving Document Moving Offences	17,759	390,694 288,947	1,139 11,138	1,048	990 9,103	655 7.435	793 9,726	1,132	365,019 23,284	1,389 25,916	1,132 21,973	1,190	944 15,509	895 12,175	830 10,713	1,772	1,746 12,674	1,718 13,972	117 1.446	1,154 10,854	2,091 14,628	1,290	2,160	1,490 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 NTP	Arrests Actions Completed	287 21,882	6,318 481,393	119 21,797	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	Driving Document	372	8,194	253	817	691	620	692	456	788	616	276	589	798	707	-	-	-	-		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 NTP	Vehicle Defects Road Worthy	943 245	20,735 5,397	1,772 324	1,976 381	1,669 394	1,613 259	1,606	1,091 263	1,975 442	1,493 366	516 341	1,775	2,110 315	1,200 232	-	- 485	- 418	-	-	1,004 166	719 50	-	216 338	<u> </u>
NTP	Arrests	74	1,629	324	501	26	1	31	43	26	64	43	440	513	170	-	465	713	-	-	100	19	-	66	-

Item (Offence Group) Analysis – Graphs



TOS Data	(Extract)
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