

DATABASE HEALTH INDEX - DASHBOARD

KEY: On or exceeding target
One grade, or between 0 and 15 below captured value
Greater than one grade, or 15 below captured value

Area: GISBORNE
Date: 22/10/2013

Category	Measures	Performance					
		Result	Measure	Expected Value	Category	Expected Value	
Carriageway Asset Inventory	Capital Projects	Major capital projects completed v RAMM (in last 6 -30 months)	see attached report			-	-
		Minor capital or safety improvement projects v RAMM (in last 6 -30 months)	see attached report			-	-
	Surfacing	% of Network surfaced in RAMM over previous 4 – 15 months	15.8%	Grade 1	Grade 1	97	81
		% Surfaces at least 50% older than expected age	2.7%	Grade 1	Grade 2		
		% of Network with no surfacing	0.0%	Grade 1	Grade 1		
		Illogical Records inc. % (SAC with chipseal, Low and high widths, Alignment of traffic volumes v pavement use)	0.3%	Grade 1	Grade 1		
	Pavement Layer	Proportion of Network with layer Information	97.3%	Grade 1	Grade 3	97	77
		New layer length in previous 6 – 30 months	6.0%	Grade 1	Grade 2		
		Illogical records (Pavement Layers v Incorrect Surfacing)	2.5%	Grade 1	Grade 1		
	Road Marking	Breakdown of road markings by type	see attached report			-	-
	Treatment Length	Proportion of very short (< 20m) TLs	0.6%	Grade 1	Grade 1	70	85
		Proportion of very long (> 2000m) TLs	0.6%	Grade 1	Grade 1		
		Proportion of TLs with < 80% coverage of major surfacing	9.4%	Grade 2	Grade 1		
		% updated in last 5 years	0.1%	Grade 5	Grade 2		
Forward Works Programme	Date FWP last updated	17/10/2013	-	-	84	90	
	Proportion of network identified for treatment in next ten years (from FWP)	180.6%	Grade 1	Grade 2			
	FWP v surfacings (% surfacings in last year conflicting with first 2 years of FWP excluding 2nd coats)	0.1%	Grade 1	Grade 1			
	Evidence of active MIS strategy, reasons for treatments listed and detailed	53.2%	Grade 3	Grade 1			
Collected Data	Carriageway Rating	Percentage rated in last year	98.3%	Grade 1	Grade 1	98	90
	High Speed Data	% network meeting standards for roughness, rutting and texture (Roads surveyed in last year)	100.0%	Grade 1	Grade 1	78	90
		% network meeting standards for FWD (Roads surveyed in last 5years)	32.5%	Grade 4	Grade 1		
		% network meeting standards for SCRIM (Roads surveyed in last year)	100.0%	Grade 1	Grade 1		
	Maintenance Activity	Items per km for PA and SU cost groups in previous 4 – 15 months v Regional Average	150.0%	Grade 1	Grade 2	72	83
		Spread of location in previous 4 - 15 months (proportion located at carriageway start)	0.2%	Grade 1	Grade 2		
		Distribution of maintenance patch sizes by Hierarchy	see attached report				
		Breakdown of Maintenance Cost Activities	see attached report				
	Miscellaneous	% of Maintenance Activity where fault type is "Unknown"	39.0%	Grade 3	Grade 1	-	-
		No. of test pits with layer data recorded	0	no.	-	-	-
	Traffic Count	No. of LTPP sites recorded in RAMM	3	no.	-	-	-
		Latest ADT Counts	31/12/2012	-	-	99	70
		Latest ADT Estimates	18/10/2013	-	-		
	% loading estimate (i.e. not default)	99.2%	Grade 1	Grade 2			
Non-Carriageway Asset Inventory	Structures	No. of Pavement Type "Bridge" v No. of Bridges > 50m in length in BDS	0.0%	Grade 5	Grade 1	44	85
		No. Large Culverts v No. BDS	87.8%	Grade 2	Grade 2		
		Retaining Walls	278	no.	-		
		Gantries (see attached report for locations)	0	no.	-		
		Barriers in RAMM (m)	22746	m	-		
		End Treatments in RAMM	see attached report				
	Drainage	Culverts per km v Regional Average (Rural)	107.7%	Grade 1	Grade 2	58	80
		Catchpits per km v Regional Average (Urban)	33.3%	Grade 4	Grade 2		
		Manholes per km v Regional Average (Urban)	33.3%	Grade 4	Grade 2		
		Subsoil Drains per km v Regional Average (Rural)	190.3%	Grade 1	Grade 2		
	Surface Water Channels	% of Drainage (Construction Date in previous 4 – 15 months)	0.5%	Grade 4	Grade 2	72	77
		Surfaced SWC per km v Regional Average (Urban)	32.5%	Grade 4	Grade 2		
		Earth SWC per km v Regional Average (Rural)	119.4%	Grade 1	Grade 2		
	Signs	Sealed SWC renewal activity (Construction Date in previous 4 – 27 months)	3.5%	Grade 2	Grade 2	58	78
Signs per km v Regional Average		110.2%	Grade 1	Grade 2			
Large Signs >4.0m ² (see attached report for quantity by type)		61	no.	-			
ITS VMS		2	no.	-			
% of Signs with renewal date in last 4 - 15 months		1.1%	Grade 4	Grade 2			
Streetlights	No. Frangible bases in RAMM (no posts in RAMM)	0	no.	-	53	82	
	Streetlights per km v Regional Average	60.0%	Grade 3	Grade 2			
	Frangible Base type no.	0	no.	-			
	Shear Base type no.	50	no.	-			
	% of Streetlight Poles with renewal date in last 4 – 15 months	0.0%	Grade 4	Grade 2			
Footpaths & Cycleways	Duplicates or near duplicates plus poles with no light or bracket	0.0%	Grade 1	Grade 1	-	-	
Signal Controlled Intersections	Total length of Footpath and Cycleways (see attached tables for listings)	see attached report			-	-	
Rest Areas	Signal Controlled Intersections (see attached report for locations)	0	no.	-	-	-	
Weigh Stations	Number of rest areas	0	no.	-	-	-	
	Number of Weigh Stations (see attached report for locations)	6	no.	-	-	-	

DATABASE HEALTH INDEX DASHBOARD - PROJECTS

Area: **GISBORNE**
Date: **22/10/2013**

In RAMM (Y/N/P)	Project Name	SH	RS	Dir	RP	Comments	Year
N/A	Motu Bridge	2	361		6.88		10/11
Y	Brown Road Intersection Seal Widening	2	429		3.85	Marking paint date missing	10/11
Y	Foxley's Twin Culverts Guardrailing	2	443		11.23		10/11
Y	Maraetaha No. 5 Bridge Guardrail	2	461		7.78		10/11
Y	Tikitiki North and South Speed Threshold Signage	35	180		2.12-2.91		10/11
Y	Mata Road North Guardrailing	35	238		4.87-4.94		10/11
Y	Smith's Hill Drainage Improvements	35	274		12.00-13.00		10/11
Y	Whangara Drainage Improvements	35	289		9.90-10.20		10/11
N	Turihaua Station Entranceway Improvements	35	308		3.22		10/11
Y	Surfies Carpark Guardrailing and Right Turn Bay	35	308		9.50-9.80		10/11
Y	Lytton/Awapuni Road	35	327		3.1	Reconstructed pavement - no stab agents in RAMM. Historical surface records need removed date	10/11
Y	Makaraka Speed Threshold	2	429		11.88		12/13
Y	Farmer/Pilmer Road Intersection	2	429		10.290-10.555		12/13
N	Salesyards Road Intersection Right Turn Bay	2	429		13.850-14.025		12/13
Y	Esplanade South Intersection Realign Intersection to Right Angle	35	321		6.02		12/13
Y	Awapuni School Centre Median and Crossing	35	327		1.73-2.21	Drainage not updated	12/13
N	Matawhero Stock Effluent Disposal	2	429		13.96	On Salesyards Road Gisborne	1/10/2013
N	SH 35 Kopuaroa No III Br Repl	35	200	Nth & Sth	9.51	Single Lane Wooden Br replaced with 2 lane conc structure	8/11/2013
N	SH 35 Tolaga to Gis Seal Widening	35	263	Nth & Sth	10.46	Up to Gisborne District Boundary, SH 35 RS 124 RP 0.00	6/11/2013

DATABASE HEALTH INDEX - REGIONAL AVERAGES

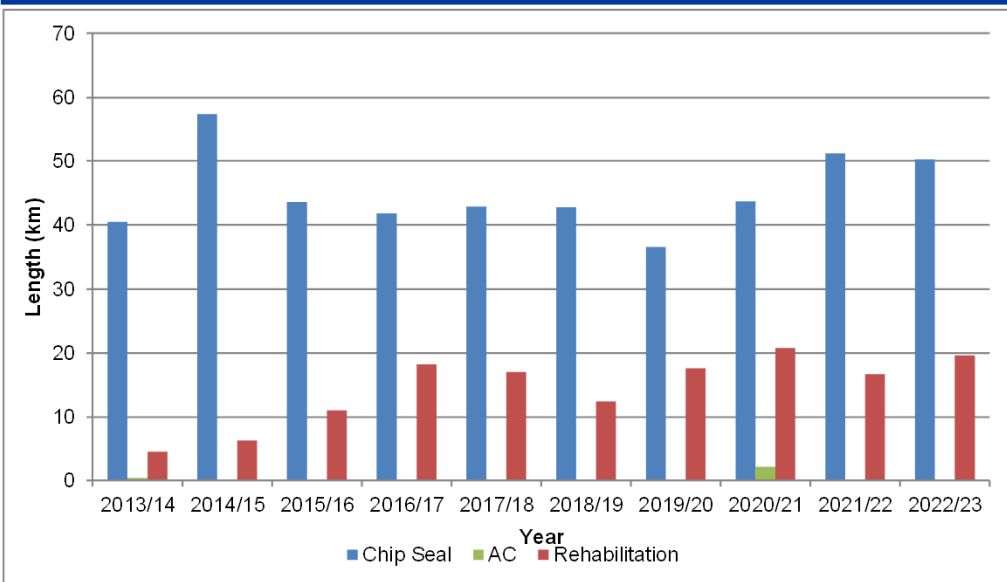
Area: GISBORNE
Date: 22/10/2013

Regional Averages							
Asset	Region	Hierarchy					Regional Average
		High Volume	National Strategic	Regional Strategic	Regional Connector	Regional Distributor	
Maintenance Costs (no. of pavement and surfacing faults per km)	Regional Average for route type	4	2	4	5	5	5
	Napier	4	2	4	-	4	
	Gisborne	-	-	7	5	9	
	East Waikato	4	-	4	5	4	
	BOP West	3	-	4	9	8	
	BOP East	-	-	7	5	5	
Culverts (Rural) (no. per km)	Regional Average for route type	8	7	9	8	9	9
	Napier	4	7	9	-	7	
	Gisborne	-	-	8	11	9	
	East Waikato	7	-	7	8	11	
	BOP West	9	-	8	6	11	
	BOP East	-	-	9	8	7	
Catchpit (Urban) (no. per km)	Regional Average for route type	9	12	15	10	8	10
	Napier	11	12	11	-	9	
	Gisborne	-	-	0	6	5	
	East Waikato	6	-	21	14	7	
	BOP West	9	-	8	6	11	
	BOP East	-	-	16	7	6	
Manholes (urban) (no. per km)	Regional Average for route type	0	0	1	1	1	1
	Napier	1	0	2	-	1	
	Gisborne	-	-	0	1	0	
	East Waikato	0	-	0	1	1	
	BOP West	0	-	0	0	0	
	BOP East	-	-	0	0	0	
Subsoil Drain (Rural) (m per km)	Regional Average for route type	10	34	136	27	43	61
	Napier	107	34	224	-	15	
	Gisborne	-	-	151	93	148	
	East Waikato	0	-	0	4	2	
	BOP West	159	-	0	0	0	
	BOP East	-	-	8	34	3	
Surfaced SWC (Urban) (m per km)	Regional Average for route type	1389	1447	1620	1175	923	1137
	Napier	1723	1447	1815	-	1623	
	Gisborne	-	-	0	426	784	
	East Waikato	745	-	1538	1224	914	
	BOP West	718	-	1427	0	0	
	BOP East	-	-	1637	1237	520	
Earth SWC (Rural) (m per km)	Regional Average for route type	991	523	751	1315	1131	1050
	Napier	313	522	448	-	734	
	Gisborne	-	-	1087	1403	1328	
	East Waikato	1307	-	1174	1379	1200	
	BOP West	830	-	1160	642	1362	
	BOP East	-	-	1379	1283	1117	
Signs (no. per km)	Regional Average for route type	22	14	18	16	15	16
	Napier	28	14	16	-	14	
	Gisborne	-	-	19	20	15	
	East Waikato	12	-	21	17	18	
	BOP West	22	-	23	12	10	
	BOP East	-	-	18	15	12	
Streetlights (no. per km)	Regional Average for route type	5	2	2	1	2	2
	Napier	19	2	1	-	2	
	Gisborne	-	-	0	1	2	
	East Waikato	2	-	4	3	2	
	BOP West	0	-	0	0	1	
	BOP East	-	-	0	0	0	

DATABASE HEALTH INDEX DASHBOARD - REPORTS

Area: GISBORNE
Date: 22/10/2013

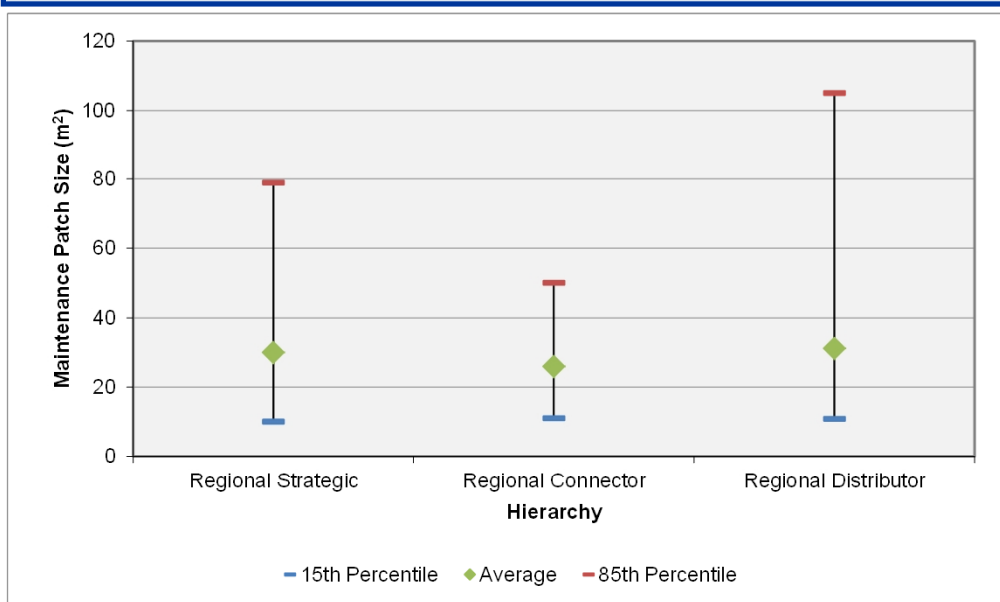
Breakdown of 10 Year FWP by Treatment Type



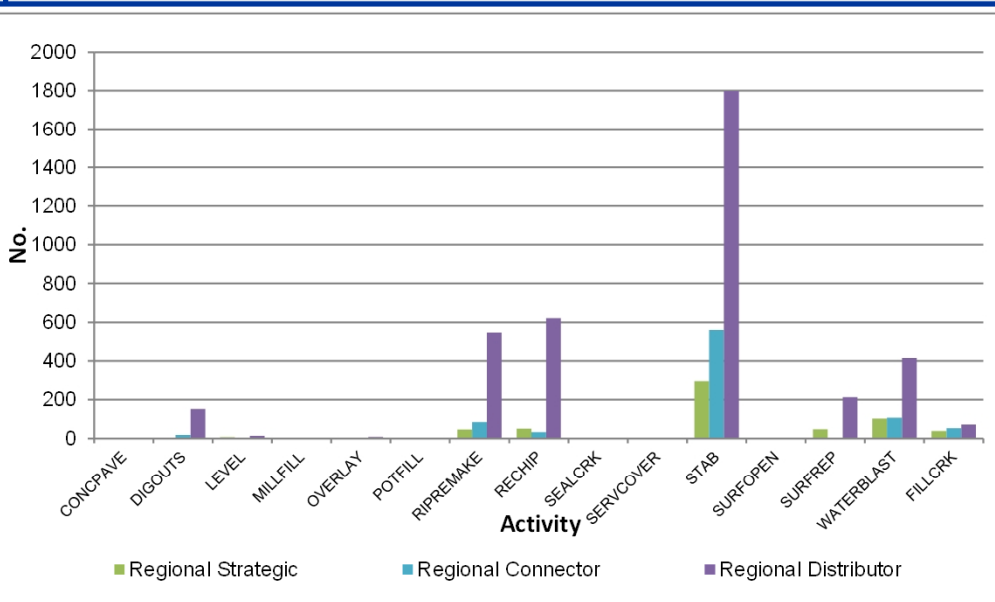
Signalised Intersections in RAMM

None

Distribution of maintenance patch sizes by Hierarchy



Breakdown of Maintenance Cost Activities last 3 years



Large Signs >4.0m²

Sign Type	No.
Advance direction (Map) - "T" or cross roads	8
Advance direction (Map) - Roundabout	2
Chevron Board	14
Chevron Board - Advisory speed 45km/h	4
Chevron Board - Advisory speed 55km/h	1
Chevron Board - Advisory speed 65km/h	2
Confirmation Destination	5
Curve - 15 to 90 degrees	1
Intersection Direction [Arrow]	1
Major tourist attractions - special information	1
Place Name	1
ROAD INFORMATION	1
Speed Limit 100km/h	4
Speed Limit 50km/h	4
Speed Limit 70km/h	2
Speed Limit 70km/h with PN-1	4
Threshold Sign - Place Name + Speed Limit	4
Welcome To	2
Total	61

End Treatments in RAMM

End Treatment Type	No.
Armorflex X 350	74
Breakaway Cable Terminal (Bull Nose)	115
Bridge Plate/Bridge Connector	123
ET2000	137
Fishtail/Butterfly end	4
Fleat 350	18
Not Applicable	1
Texas Twist	41
Terminal end	1
Total	514

DATABASE HEALTH INDEX DASHBOARD - REPORTS

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Breakdown of road markings by type	Weigh Stations
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Please note that NZTA does not require recording of standard centerline and edgeline lengths and therefore these quantities may not include some or all of these items

Marking Material	length (m)
Cold Applied Plastic	20,311
Reflectorised Paint	6,734
Raised Pavement Marker	552
Paint	824,667
Unknown	214,223

Road Name	Location	Side
002-0429	2330	Left
002-0443	3400	Left
035-0144	13940	Right
035-0200	7250	Left
035-0238	11225	Left
035-0321	830	Left
Total		6

Footpath and CycleWays	Gantries
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None

None

DATABASE HEALTH INDEX - PARAMETERS

Measures		Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade
Pavement Inventory							
Capital Projects	Major capital projects completed v RAMM (in last 6 -30 months)	Proportion of major capital projects completed within in 6 - 30 months that have been captured in RAMM	NZTA Regional Office, RAMM	N/A	N/A	N/A	N/A
	Minor capital or safety improvement projects v RAMM (in last 6 -30 months)	Proportion of minor capital or safety improvement projects completed within in 6 - 30 months that have been captured in RAMM	NZTA Regional Office, RAMM	N/A	N/A	N/A	N/A
Surfacing	% of Network surfaced in RAMM over previous 4 – 15 months	Total length of Network with surface date between 4-15 months old / total length of network	RAMM surface_structure, carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	8% 5% 2%	8% 5% 2%	Grade 1
	% Surfaces 50% older than expected age	Total length of Network with surface date > 50% older than expected age / total length of network	RAMM surface_structure, carr_way	Grade 1 Grade 2 Grade 3 Grade 4	3% 7% 15%	3% 7% 15%	Grade 2
	% of Network with no surfacing	Total length of Network with no surface material / total length of network	RAMM treatment_length, carr_way	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	Illogical records (SAC with chipseal, Low and high widths, Alignment of traffic volumes v pavement use)	No. Records with inconsistencies / No carriageway sections	RAMM carr_way, c_surface, traffic_loading, traffic_loading_dtl	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
Pavement Layer	Proportion with layer information	Total length of Network with layer material / total length of network	RAMM treatment_length, carr_way	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 3
	New Layer length in 6 – 30 months	Total length of Network with layer date between 6-30 months old / total length of network	RAMM pave_structure, carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 3% 1%	5% 3% 1%	Grade 2
	Illogical records (Pavement layers v Incorrect Surfacing)	Total No. illogical Records / total No treatment lengths	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
Road Marking	Breakdown of road markings by type	Total road marking length by type	RAMM carr_way, markings	N/A	N/A	N/A	N/A
Treatment Length	Proportion of very short < 20m TLs	Total length of Network with length < 20m / total length of network	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	Proportion of very long > 2000m TLs	Total length of Network with length > 2000m / total length of network	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	Proportion of TLs with < 80% coverage of major surfacing	Total length of Network with < 80% coverage of major surfacings / total length of network	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	% updated in last 5 years	Total No treatment lengths updated in last 5 years / total No TL's	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
Forward Works Programme	Date FWP Last Updated	Date FWP last updated	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	N/A	N/A	N/A	N/A
	Proportion of network identified for treatment in next ten years (date last updated)	Length of network identified for treatment in the 10 year FWP / total network length	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	FWP v surfacings (% surfacings in last year conflicting with first 2 years of FWP exc 2nd coats)	Total length of Network with surfacings with dates in last year with a treatment scheduled in first 2 years of FWP (excl 2nd coats) / total length in first 2 years of FWP	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4	2% 5% 8%	2% 5% 6%	Grade 1
	Evidence of active MIS strategy, reasons for treatments listed and detailed	Total length of Network with MIS strategy present / Total Network Length	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
Collected Data							
Carriageway Rating	Percentage rated in last year	Total network length rated in the last year / total network length	RAMM carr_way, treatment_length, rating	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
High Speed Data	% network meeting standards for roughness, rutting and texture (Roads surveyed in last year)	Total length of network with roughness, rutting and texture surveyed in the last year / total network length	RAMM carr_way, treatment_length, hsd_rough, hsd_rutting, hsd_texture	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
	% network meeting standards for FWD (Roads surveyed in last 5 years)	Total length of network with FWD surveyed in the last 5 years / total network length	RAMM carr_way, treatment_length, falling_weight	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
	% network meeting standards for SCRIM (Roads surveyed in last year)	Total length of network with SCRIM surveyed in the last year / total network length	RAMM carr_way, treatment_length, skid_resistance	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1

DATABASE HEALTH INDEX - PARAMETERS

Measures	Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade	
Maintenance Costs	Items per km for PA and SU cost groups in previous 4 – 15 months vs Regional Average	Total number of pavement and surfacing activity in last 4-15 months/Total Carriageway Length vs Regional Average	RAMM carr_way, mc_cost	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Spread of location in previous 4 - 15 months (proportion located at carriageway start)	Total number of pavement and surfacing activity in last 4-15 months at carriageway start / Total pavement and surfacing activity	RAMM carr_way, mc_cost	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 2
	Distribution of maintenance patch sizes by Hierarchy	Distribution of maintenance patch sizes by State Highway Classification	RAMM carr_way, mc_cost	N/A	N/A	N/A	N/A
	Breakdown of Maintenance Cost Activities	Breakdown of maintenance cost activities by type for the last 3 years by State Highway Classification	RAMM carr_way, mc_cost	N/A	N/A	N/A	N/A
	% of Maintenance Activity where fault type is "Unknown"	Percentage of maintenance cost activity recorded as unknown for the last 3 years.	RAMM carr_way, mc_cost	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
Miscellaneous	No. Test Pits with layer data recorded	Total number of test pit records	RAMM carr_way, pave_test_pit_hdr	N/A	N/A	N/A	N/A
	No. of LTPP Sites recorded in RAMM	Total number of LTPP Sites	RAMM carr_way, ud_ltp	N/A	N/A	N/A	N/A
Traffic Count	Latest ADT Counts	Latest date of counts	RAMM traffic_loading	N/A	N/A	N/A	N/A
	Latest ADT Estimates	Latest date of Estimates	RAMM traffic_loading	N/A	N/A	N/A	N/A
	% loading estimate (i.e. not default)	Total no. loading estimates in last year / total no carriageway sections	RAMM carriageway, traffic_loading, carr_way, traffic_loading_dtl	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
Non-Carriageway Asset Inventory							
Structures	No. Pavement Type "Bridge" v No. Bridges > 50m in length in BDS	Total No. Bridge pavement type in RAMM vs Total No. Bridges >50m in length in BDS that carry the State Highway	RAMM carr_way, BDS	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
	No. Large Culverts v No. BDS	Total No. Culverts with an area >= 3.4m ² vs Total No. culverts in BDS	RAMM carr_way, drainage, BDS	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Retaining Walls	Total No. Retaining Walls	RAMM carr_way, retaining_wall	N/A	N/A	N/A	N/A
	Gantries	Total No. Gantries	RAMM carr_way, minor_structure	N/A	N/A	N/A	N/A
	Barriers in RAMM(m)	Total Length Barriers (excludes SR, HR, OTHER, GREAT)	RAMM carr_way, railings	N/A	N/A	N/A	N/A
Drainage	Culverts per km v Regional Average (Rural)	Total No. of culverts per km Rural (Includes CUL, SDCUL, OFCUL) vs regional average per km	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Catchpits per km v Regional Average (Urban)	Total No. of catchpits per km Urban (includes CP1,CP2,CP3,SUMP,GRID, SP) vs regional average per km	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Manholes per km v Regional Average (Urban)	Total No. of manholes per km Urban (includes MHOLE, DCHM) vs regional average per km	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Subsoil Drains per km v benchmark Regional Average (Rural)	Length of subsoil drains per km Rural vs regional average per km	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	% of Drainage (Construction Date in previous 4 – 15 months)	Total No. of drainage structures renewed or replaced in last 4-15 months / total no. of drainage structures	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4	4% 2% 1%	4% 2% 1%	Grade 2
Surface Water Channels	Surfaced SWC per km v Regional Average (Urban)	Length of surfaced SWC per km Urban vs regional average per km	RAMM carr_way, sw_channel	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Earth SWC per km v Regional Average (Rural)	Length of Earth SWC per km Rural vs regional average per km	RAMM carr_way, sw_channel	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Sealed SWC Renewal Activity (Construction Date in previous 4 – 27 months)	Length of surfaced SWC renewed or replaced in last 4-15 months / total length of surfaced SWC	RAMM carr_way, sw_channel	Grade 1 Grade 2 Grade 3 Grade 4	4% 2% 1%	4% 2% 1%	Grade 2

DATABASE HEALTH INDEX - PARAMETERS

	Measures	Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade
Signs	Signs per km v Regional Average	Total No. of signs per km vs regional average per km	RAMM carr_way, signs	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Large Signs >4.0m ²	Total No. of large signs with a sign face greater than 4.0m ²	RAMM carr_way, signs	N/A	N/A	N/A	N/A
	ITS VMS	Total No. of ITS Assets (3VMS, 3MVMS, 3VMSS, 3VSS) and its_state = "In Service"	RAMM carr_way, ud_its	N/A	N/A	N/A	N/A
	% of Signs with renewal date in previous 4 – 15 months	Total No. of signs renewed or replaced in last 4-15 months / total number of signs	RAMM carr_way, signs	Grade 1 Grade 2 Grade 3 Grade 4	6% 4% 2%	6% 4% 2%	Grade 2
	No. Frangible bases in RAMM	Total No of signs with frangible bases, type includes (SJ and BP)	RAMM signs, sign_to_post_join, sign_post	N/A	N/A	N/A	N/A
Streetlights	Streetlights per km v benchmark	Total No. of street lights per km vs regional average per km	RAMM carr_way, sl_pole	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Frangible Base type no.	Total No. of street lights with frangible bases	RAMM carr_way, sl_pole	N/A	N/A	N/A	N/A
	Shear Base type no.	Total No. of street lights with shear bases	RAMM carr_way, sl_pole	N/A	N/A	N/A	N/A
	% of Street lights with renewal date in previous 4 – 15 months	Total No. of street lights renewed or replaced in last 4-15 months / total number of street lights	RAMM carr_way, sl_pole	Grade 1 Grade 2 Grade 3 Grade 4	6% 4% 2%	6% 4% 2%	Grade 2
	Duplicates or near duplicates plus poles with no light or bracket	Total No. Poles with no brackets attached, total No. brackets with no light attached, total No. poles with duplicate road_id, location, offset_side, offset	RAMM carr_way, sl_pole, sl_bracket, sl_light	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
Footpath & Cycleways	Total Length of footpath and cycleways (see attached tables for listing)	Total length of footpath and cycleways	RAMM carr_way, features	N/A	N/A	N/A	N/A
Signal Controlled intersections	No. Signal Controlled Intersections (see attached report for loactions)	Number of signal Controlled Intersections (SIGINT)	RAMM carr_way, features	N/A	N/A	N/A	N/A
Rest Areas	Number of rest areas	Total No of rest areas	RAMM carr_way, features	N/A	N/A	N/A	N/A
Weigh Station	No. Weigh stations	Number of weighs Stations (WSTAT)	RAMM carr_way, minor_structure	N/A	N/A	N/A	N/A