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: MARLBOROUGH
Date: 26/07/2013

	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	9.2%	Grade 1	Grade 1	99	81
		% Surfaces at least 50% older than expected age	0.0%	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)	1.5%	Grade 1	Grade 1		
	Pavement Layer	Proportion of Network with layer Information	100.0%	Grade 1	Grade 3	89	77
		New layer length in previous 6 – 30 months	3.1%	Grade 2	Grade 2		
		Illogical records (Pavement Layers v Incorrect Surfacing)	0.0%	Grade 1	Grade 1		
	Road Marking	Breakdown of road markings by type	see attached report			-	-
	Treatment Length	Proportion of very short (< 20m) TLs	1.0%	Grade 1	Grade 1	93	83
		Proportion of very long (> 2000m) TLs	2.1%	Grade 1	Grade 1		
		Proportion of TLs with < 80% coverage of major surfacing	10.6%	Grade 2	Grade 1		
		% updated in last 5 years	100.0%	Grade 1	Grade 3		
	Forward Works Programme	Date FWP last updated	9/07/2013	-	-	100	90
		Proportion of network identified for treatment in next ten years (from FWP)	122.2%	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	100.0%	Grade 1	Grade 1		
Collected Data	Carriageway Rating	Percentage rated in last year	99.2%	Grade 1	Grade 1	99	90
	High Speed Data	% network meeting standards for roughness, rutting and texture (Roads surveyed in last year)	99.9%	Grade 1	Grade 1	68	90
		% network meeting standards for FWD (Roads surveyed in last 5years)	3.7%	Grade 5	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	100.0%	Grade 1	Grade 2	99	83
		Spread of location in previous 4 - 15 months (proportion located at carriageway start)	1.0%	Grade 1	Grade 2		
		Distribution of maintenance patch sizes by Hierarchy	see attached report				
		Breakdown of Maintenance Cost Activities	see attached report				
		% of Maintenance Activity where fault type is "Unknown"	1.0%	Grade 1	Grade 1		
	Miscellaneous	No. of test pits with layer data recorded	1	no.	-		
		No. of LTPP sites recorded in RAMM	6	no.	-		
	Traffic Count	Latest ADT Counts	31/12/2012	-	-	94	70
		Latest ADT Estimates	31/12/2011	-	-		
		% loading estimate (i.e. not default)	93.5%	Grade 1	Grade 2		
Non-Carriageway Asset Inventory	Structures	No. of Pavement Type "Bridge" v No. of Bridges > 50m in length in BDS	10.0%	Grade 5	Grade 1	52	85
		No. Large Culverts v No. BDS	92.9%	Grade 1	Grade 2		
		Retaining Walls	91	no.	-		
		Gantries (see attached report for locations)	0	no.	-		
		Barriers in RAMM (m)	23533	m	-		
		End Treatments in RAMM	see attached report				
	Drainage	Culverts per km v Regional Average (Rural)	100.0%	Grade 1	Grade 2	55	80
		Catchpits per km v Regional Average (Urban)	40.0%	Grade 3	Grade 2		
		Manholes per km v Regional Average (Urban)	0.0%	NA	-		
		Subsoil Drains per km v Regional Average (Rural)	78.0%	Grade 2	Grade 2		
		% of Drainage (Construction Date in previous 4 – 15 months)	0.1%	Grade 4	Grade 2		
	Surface Water Channels	Surfaced SWC per km v Regional Average (Urban)	73.8%	Grade 2	Grade 2	48	77
		Earth SWC per km v Regional Average (Rural)	60.8%	Grade 3	Grade 2		
		Sealed SWC renewal activity (Construction Date in previous 4 – 27 months)	0.3%	Grade 4	Grade 2		
	Signs	Signs per km v Regional Average	94.6%	Grade 1	Grade 2	67	78
		Large Signs >4.0m^2 (see attached report for quantity by type)	57	no.	-		
		ITS VMS	4	no.	-		
		% of Signs with renewal date in last 4 - 15 months	2.6%	Grade 3	Grade 2		
		No. Frangible bases in RAMM	0	no.	-		
	Streetlights	Streetlights per km v Regional Average	0.0%	Grade 5	Grade 2	33	82
		Frangible Base type no.	0	no.	-		
		Shear Base type no.	0	no.	-		
		% of Streetlight Poles with renewal date in last 4 – 15 months	0.0%	Grade 4	Grade 2		
		Duplicates or near duplicates plus poles with no light or bracket	0.0%	Grade 1	Grade 1		
	Footpaths & Cycleways	Total length of Footpath and Cycleways (see attached tables for listings)	see attached report			-	-
	Signal Controlled Intersections	Signal Controlled Intersections (see attached report for locations)	0	no.	-	-	-
	Rest Areas	Number of rest areas	6	no.	-	-	-
	Weigh Stations	Number of Weigh Stations (see attached report for locations)	0	no.	-	-	-

DATABASE HEALTH INDEX DASHBOARD - PROJECTS

Area: MARLBOROUGH
Date: 26/07/2013

Projects data completed v RAMM (in last 6 -30 months)

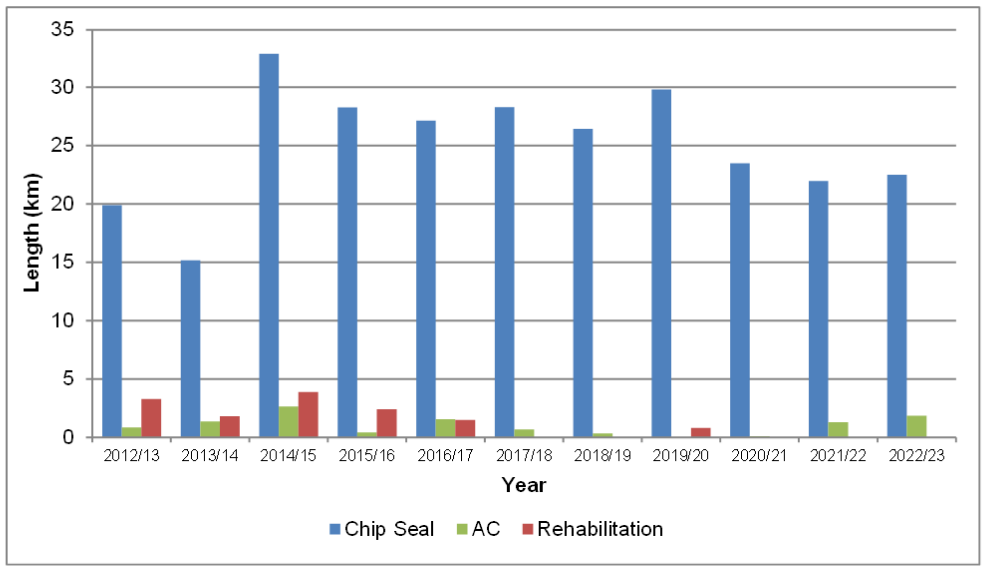
In RAMM (Y/N/P)	Project Name	SH	RS	Dir	RP	Comments	Year
Y	SH1 Blenheim Threshold	01S	0018	Both	8827	Surfacing and Marking Missing	2013
N	Tetly Brook Bridge Gaurdrail	01S	0057	Both	0		2013
P	Renwick Threshold North	006	0010	Both	175	Carriageway, Pavement Layer, Surfacing and Markings Missing	2013
P	Renwick Threshold South	006	0010	Both	2610	Carriageway, Pavement Layer, Surfacing and Markings Missing	2013
N	SH6 Renwick ADS Sign	006	0010	Decreasing	215		2013
P	Westwood Roundabout	006	0000	Both	2700-3000	Only Pavement and Surfacing updated	2012
N	Sneiders Creek Realignment	006	0016	Both	6850-7600		2011
N	SH 62 Wratts To SH1 Widening	0062	0000	Both	1000-5580		2011
Y	Elavation Seal Widening	01S	0000	Decreasing	2269-2630	Surfacing date incorrect - should be after pavement layer dates - layers incorrect dates AP40 should be after AP65 . No need to split <50m layers should be combined with previous section with average width.	2010
P	Main St Improvements	01S	0028	Both	1410-1555	Barriers Missing, Marking condition date Missing.	2010
P	Godfreys Rd RTB	006	0000	Decreasing	9460	Retaining Wall missing, marking painted date, condition date missing	2010
Y	Brown River Curve Upgrade	006	0065	Both	5260-5472	Railing constructed date missing	2010
N	Dashwood Safety Improvements	01S	0043	Decreasing	3160-3500		2010
Y	Para ATP Markings	01S	0000	B	13340-13590	RHS Only	2009
Y	Welds Pass ATP	01S	0028	B	12225-14538		2009
P	Jacksons Road Intersection Upgrade	006	0000	Increasing	6720-6960	Surfacing 12/2010? marking painted date, condition date missing	2009

DATABASE HEALTH INDEX DASHBOARD - REPORTS

Area: MARLBOROUGH

Date: 26/07/2013

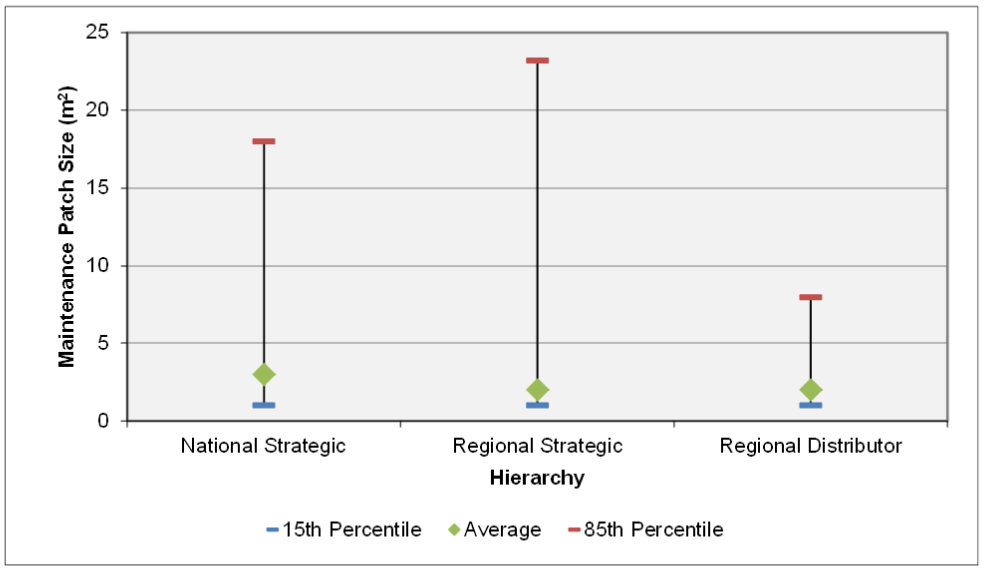
Breakdown of 10 Year FWP by Treatment Type



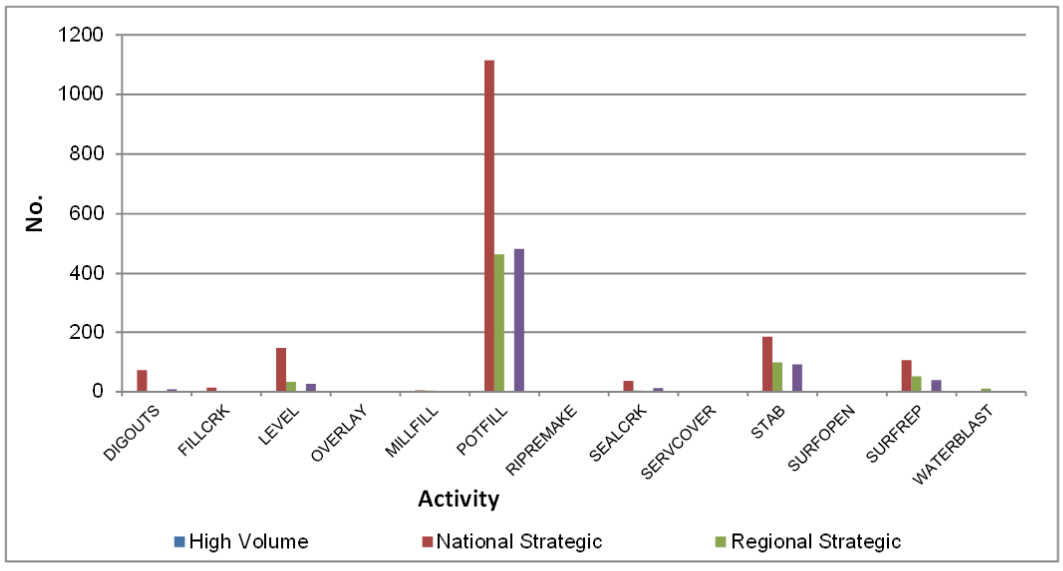
Signalised Intersections in RAMM

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	1
Advance direction (Stack) - "T" intersection	3
Intersection Direction - "T"	7
Advance direction (Map) - Roundabout	7
Advance direction (Stack) - Cross roads	11
Advanced lane direction [Message]	3
Confirmation Destination	11
Intersection Direction	2
Place Name	3
Side Road Junction - Controlled	1
Speed Limit 70km/h with PN-1	2
Threshold Sign - Place Name + Speed Limit	5
Warning (Miscellaneous Sign) - User defined	1
Total	57

End Treatments in RAMM

End Treatment Type	No.
Not Applicable	4
Bridge Plate/Bridge Connector	21
Fishtail/Butterfly end	2
Breakaway Cable Terminal (Bull Nose)	128
Brifen Terminal	2
Fleat 350	4
ET2000	86
Armorflex X 350	62
Buried in Back Slope	3
Regent	20
MELT(Similar to BCT)	2
Total	334

Breakdown of road markings by type

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)
Reflectorised Paint	3708
Cold Applied Plastic	7365
Paint	150742
(blank/null)	76973
Thermoplastic - cold	4876

Weigh Stations

None

Footpath and Cycle Ways

None

Gantries

None

DATABASE HEALTH INDEX - REGIONAL AVERAGES

Area: MARLBOROUGH
Date: 26/07/2013

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 perkm)	**Regional Average for route type**	**2**	**3**	**5**	**1**	**3**	3
	MARLBOROUGH	-	5	2	-	4	
	STH CANTERBURY	-	2	-	1	1	
	NTH CANTERBURY	2	3	4	4	3	
	COASTAL OTAGO	-	4	7	1	3	
Culverts (Rural) (no. per km)	**Regional Average for route type**	**1**	**4**	**4**	**4**	**5**	4
	MARLBOROUGH	-	4	4	-	3	
	STH CANTERBURY	-	4	-	4	4	
	NTH CANTERBURY	1	3	3	5	4	
	COASTAL OTAGO	-	6	5	2	6	
Catchpit (Urban) (no. per km)	**Regional Average for route type**	**9**	**10**	**8**	**10**	**7**	9
	MARLBOROUGH	-	6	4	-	0	
	STH CANTERBURY	-	10	-	8	9	
	NTH CANTERBURY	9	8	5	13	4	
	COASTAL OTAGO	-	13	11	2	8	
Manholes (urban) (no. per km)	**Regional Average for route type**	**0**	**0**	**0**	**0**	**0**	0
	MARLBOROUGH	-	0	0	-	0	
	STH CANTERBURY	-	0	-	0	0	
	NTH CANTERBURY	0	0	1	0	0	
	COASTAL OTAGO	-	0	0	0	0	
Subsoil Drain (Rural) (m per km)	**Regional Average for route type**	-	**58**	**88**	**12**	**27**	42
	MARLBOROUGH	-	103	29	-	3	
	STH CANTERBURY	-	37	-	7	2	
	NTH CANTERBURY	-	32	12	32	21	
	COASTAL OTAGO	-	106	196	2	46	
Surfaced SWC (Urban) (m per km)	**Regional Average for route type**	**1316**	**1358**	**1140**	**1402**	**1060**	1270
	MARLBOROUGH	-	1164	1463	-	0	
	STH CANTERBURY	-	1603	-	1469	1556	
	NTH CANTERBURY	1316	1039	554	1487	488	
	COASTAL OTAGO	-	1695	1437	428	1025	
Earth SWC (Rural) (m per km)	**Regional Average for route type**	**549**	**1130**	**1081**	**673**	**1353**	1119
	MARLBOROUGH	-	747	783	-	636	
	STH CANTERBURY	-	1644	-	644	1470	
	NTH CANTERBURY	549	809	1156	992	1002	
	COASTAL OTAGO	-	1453	1185	352	1607	
Signs (no. per km)	**Regional Average for route type**	**18**	**15**	**14**	**11**	**11**	13
	MARLBOROUGH	-	15	13	-	7	
	STH CANTERBURY	-	15	-	8	10	
	NTH CANTERBURY	18	13	13	18	14	
	COASTAL OTAGO	-	19	16	8	11	
Streetlights (no. per km)	**Regional Average for route type**	**0**	**1**	**0**	**0**	**0**	1
	MARLBOROUGH	-	0	0	-	0	
	STH CANTERBURY	-	5	-	1	1	
	NTH CANTERBURY	0	0	0	0	0	
	COASTAL OTAGO	-	0	0	0	0	

DATABASE HEALTH INDEX - PARAMETERS

	Measures	Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade
Pavement and Footpath 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 catpured 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 catpured 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 3
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 fault codes 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 actvities 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 "Cost faults" Maintenance Cost Activities	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
	Recording Test Pit Data	Total number of test pit records	RAMM carr_way, pave_test_pit_hdr	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 kmUrban (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 kmRural 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
	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) and its_state = "In Service"	RAMM carr_way, ud_its	N/A	N/A	N/A	N/A
	Maintenance Activity (“replaced” 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	RAMM carr_way, signs	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
	Maintenance Activity (“replaced” 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
Footpaths & Cycleways	Total Length of Footpath	Total length of footpath	RAMM carr_way, footpath	N/A	N/A	N/A	N/A
	Total Length of Cycleways	Total length of cycleways with marking type (M83, M72) and marking colour GR (green) and notes do not include bus way	RAMM carr_way, markings	N/A	N/A	N/A	N/A
Signal Controlled intersections	No. Signal Controlled Intersections	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 (WEIGH)	RAMM carr_way, features	N/A	N/A	N/A	N/A