

DRAFT Current state loads

Baseline' (i.e. current state) FMU name	% load each process on 'non-native' land contributes to entire Ruamāhanga catchment load					% load FMU contributes to entire Ruamāhanga load	% load FMU contributes of Ruamāhanga 'non-native' load
	Gully	Landslide	Surficial	Earthflow	Netbank		
Taueru	0.00	13.20	1.26	0.91	2.00	17.37	25.50
Huangaia	0.28	8.70	0.80	0.12	0.98	10.89	15.99
Eastern hill streams	0.11	3.69	0.29	0.06	2.28	6.43	9.45
Whangaehu	0.00	4.51	0.38	0.00	0.52	5.40	7.93
Kopuaranga	0.00	3.75	0.72	0.00	0.60	5.07	7.45
Valley floor streams-draining to Ruamahanga River	0.00	0.43	0.05	0.00	2.97	3.45	5.06
Waipoua	0.00	2.16	0.41	0.00	0.69	3.26	4.79
South coast streams	0.11	0.58	1.19	0.00	0.99	2.87	4.22
Upper Ruamahanga	0.00	0.58	1.29	0.00	0.47	2.34	3.44
Waiohine	0.00	0.18	0.92	0.00	0.58	1.68	2.46
Makahakaha	0.00	1.23	0.13	0.00	0.18	1.54	2.26
Waingawa	0.00	0.39	0.42	0.00	0.57	1.38	2.03
Mangatarere	0.00	0.64	0.19	0.00	0.52	1.34	1.97
Turanganui	0.00	0.15	0.02	0.00	0.61	0.78	1.15
Lake Wairarapa	0.00	0.00	0.00	0.00	0.76	0.76	1.11
Tauherenikau	0.00	0.14	0.31	0.00	0.31	0.76	1.11
Valley floor streams-draining to Lake Wairarapa	0.00	0.07	0.01	0.00	0.62	0.69	1.02
Streams discharging to Lake Wairarapa from the west	0.00	0.23	0.06	0.00	0.27	0.56	0.83
Parkvale Stream	0.00	0.16	0.04	0.00	0.34	0.53	0.78
Lake Onoke	0.00	0.00	0.00	0.00	0.37	0.37	0.54
Otukura Stream	0.00	0.02	0.01	0.00	0.33	0.35	0.52
Tauanui	0.00	0.03	0.01	0.00	0.23	0.27	0.40

Non-native' load means the load from all land use types other than forest, and includes lifestyle and urban land  
 Entire Ruamāhanga load means those loads of both native and non-native land

DRAFT Load change by scenario

FMU name	Total 'non-native' loads per FMU (tonnes/year)			Change in load from baseline to ...		In which scenario do the changes in load occur?
	Baseline	BAU2080	SILVER2080	BAU2080	SILVER2080	
Taueru	229931	143803	76363	-37%	-67%	Half change BAU, half change SILVER
Huangaia	144136	98439	46292	-32%	-68%	Half change BAU, half change SILVER
Eastern hill streams	85169	57728	26285	-32%	-69%	Half change BAU, half change SILVER
Whangaehu	71510	50271	24765	-30%	-65%	Half change BAU, half change SILVER
Kopuaranga	67149	60274	33390	-10%	-50%	Most change SILVER
Valley floor streams-draining to Ruamahanga River	45641	13506	11177	-70%	-76%	Most change BAU
Waipoua	43190	30228	19500	-30%	-55%	Half change BAU, half change SILVER
South coast streams	38039	26019	12878	-32%	-66%	Half change BAU, half change SILVER
Upper Ruamahanga	30977	25088	20584	-19%	-34%	Half change BAU, half change SILVER
Waiohine	22184	16434	16391	-26%	-26%	All change BAU
Makahakaha	20367	17211	11626	-15%	-43%	Most change SILVER
Waingawa	18310	8729	7046	-52%	-62%	Most change BAU
Mangatarere	17787	9396	7938	-47%	-55%	Most change BAU
Turanganui	10343	3114	2416	-70%	-77%	Most change BAU
Lake Wairarapa	10034	2011	2009	-80%	-80%	All change BAU
Tauherenikau	10004	6387	5951	-36%	-41%	Most change BAU
Valley floor streams-draining to Lake Wairarapa	9166	2643	2369	-71%	-74%	Most change BAU
Streams discharging to Lake Wairarapa from the west	7441	3019	2068	-59%	-72%	Most change BAU
Parkvale Stream	7060	2389	1873	-66%	-73%	Most change BAU
Lake Onoke	4901	990	982	-80%	-80%	All change BAU
Otukura Stream	4694	1215	1175	-74%	-75%	Most change BAU
Tauanui	3585	1103	781	-69%	-78%	Most change BAU

**Rough overview of mitigations in scenarios:**

BAU2080 includes stock exclusion, extensive riparian planting, some pole planting and very small areas of retirement

Silver2080 includes all BAU2080 mitigations plus extensive pole planting, some retirement and use of sub-catchment sediment treatment wetlands

	Baseline	BAU2080	SILVER2080
Entire Ruamāhanga load (tonnes/year)	1324062	988814	715726
Total 'non-native' load (tonnes/year)	901619	579999	333859
Total 'native' load (tonnes/year)	422443	408815	381867
% 'non-native' load (tonnes/year)	68	59	47
% 'native' load (tonnes/year)	32	41	53