

EASTERN BAY OF PLENTY REGION: LAND USE CAPABILITY EXTENDED LEGEND

UNIT	UNIT DESCRIPTION	LAND USE		SLOPE	SURFACE GEOLOGY		SOILS †		EROSION		VEGETATION	TYPE LOCALITY	SOIL CONSERVATION AND WATER MANAGEMENT MEASURES	ADDITIONAL COMMENTS
		PRESENT	POTENTIAL						PRESENT	POTENTIAL ††				
Ile1	Ash covered, flat to undulating coastal terraces	Intensive grazing Cropping	Intensive cropping Intensive grazing	A + B	Whakatane-Waihi ash on Pleistocene alluvial gravel, sand, silt and volcanic debris	h1+o, h2, h	Yellow-brown loams Whakatane sandy loam Te Kaha sandy loam	51 52	Nil	Nil. Slight wind when cultivated	High producing pasture. Root and green fodder crops.	N61/096505	Windbreaks	Dissected by unit VIe1
IIw1	Low river terraces	Intensive grazing Cropping	Intensive cropping Intensive grazing	A	Recent alluvium	f	Recent soils from alluvium Manawatu sandy loam Tukituki sandy loam	1 1c	Nil	Nil to slight deposition	High producing pasture. Root and green fodder crops.	N78/720160	Drainage. Stopbanks	Occasional surface flooding High natural fertility
IIIe1	Ash covered,rolling coastal terraces	Intensive grazing Cropping	Cropping Intensive grazing	C	Whakatane-Waihi ash on Pleistocene alluvial gravel, sand, silt and volcanic debris	h1+o, h2, h	Yellow-brown loams Whakatane sandy loam Te Kaha sandy loam	51 52	Nil	Nil. Slight to moderate rill when cultivated	High producing pasture. Root and green fodder crops.	N61/142544	Contour cultivation Graded banks	Dissected by unit VIe1
IIIw1	Low river terraces and valley bottoms subject to surface flooding	Intensive grazing Cropping	Cropping Intensive grazing	A	Recent alluvium	f	Recent soils from alluvium Manawatu sandy loam Tukituki sandy loam	1 1c	Nil	Nil to slight deposition	High producing pasture. Root and green fodder crops. Rushes.	N70/934275	Drainage. Stopbanks	High water table. High natural fertility
IIIC1	Inland river terraces at approximately 600m a.s.l. with severe winter climate	Intensive grazing Cropping	Cropping Intensive grazing	A + B	Recent alluvium and Pleistocene terrace gravels	h + f	Recent soils from alluvium and yellow-brown pumice soils Manawatu sandy loam Mamaku sandy loam Matawai sandy loam	1 20 22	Slight streambank	Slight streambank	High producing pasture. Root and green fodder crops. Swamp associations.	N88/935760	Drainage of low lying areas. Protection planting of waterways	Recent terraces are poorly drained. Unit occurs in inland basins at about 600m a.s.l. where frosts and high rainfall (2,000–2,500 mm p.a.) limit winter growth
IVe1	Ash covered, rolling to strongly rolling coastal hill country	Intensive grazing, some areas reverted to scrub	Intensive grazing Occasional root and fodder crops	C + D	Whakatane-Waihi ash on Taitai greywacke and argillite, and maturely dissected Pleistocene terraces	Ukm h2	Yellow-brown loams Whakatane sandy loam	51	Nil	Nil. Moderate rill and sheet when cultivated	High producing pasture. Manuka.	N70/873230	Contour cultivation Graded banks	
IVw1	Low, frequently flooded river terraces and estuaries	Undeveloped	Intensive grazing Occasional root and fodder crops	A	Recent alluvium	f	Recent soils from alluvium Tukituki sandy loam	1c	Nil to slight streambank	Nil to slight streambank and deposition	Manuka. Swamp associations	N70/830213	Drainage. Protection planting of waterways Stopbanks	In some areas stony soils are an additional limitation
IVs1	Flat to undulating stable dunes and sand plains	Intensive grazing	Intensive grazing Occasional root and fodder crops	A + B	Dune sands and peat	fi + fs	Yellow-brown sands Patea sand	23	Nil	Nil. Moderate wind when cultivated	High producing pasture. Rushes.	N69/755205	Windbreaks	Soils are drought prone
VIe1	Ash covered, moderately steep to steep sides of dissected coastal terraces	Intensive grazing	Intensive grazing	E	Whakatane-Waihi ash on Pleistocene gravels and volcanic debris	Wc-hz	Yellow-brown loams Whakatane sandy loam, hill soil Te Kaha sandy loam, hill soil	51H 52H	Slight to moderate soil slip	Slight to moderate soil slip	High producing pasture. Manuka.	N79/817184	Open planting of poplars	Soil slips heal readily
VIe2	Moderately steep to steep coastal hill country with a thin ash mantle	Semi-intensive grazing. Some areas reverted to scrub and fern	Semi-intensive grazing	E, F	Whakatane-Waihi ash on Taitai greywacke and argillite	Ukm	Hill soils related to Raukumara sandy loam Hill soils related to Urewera sandy silt and sand	124a 125a	Slight to moderate soil slip and sheet	Moderate soil slip and sheet	High producing pasture. Manuka. Fern. Mixed native scrub associations.	N61/122502	Open planting of poplars	
VIe3	Strongly rolling to moderately steep hills with a thin ash mantle, occurring at moderate altitudes (600m a.s.l.) with severe winter climate and high rainfall	Intensive grazing	Intensive grazing	D, E	Rhyolitic ash on Tertiary and Upper Cretaceous mudstones and sandstones	C, R, Mp, Mh-Lwh, Lwh-P	Yellow-brown pumice soils Ngaroma sandy silt, hill soil Matawai sandy loam, hill soil	19H 22H	Nil	Nil to slight soil slip and gully	Low producing pasture. Some Lowland Podocarp-Hardwood forest. Some Lowland Beech forest.	N88/965875	Pair planting of poplars and willows along water courses	Slopes are dissected by ephemeral water courses.
VIe4	Moderately steep to steep hills with a thin ash mantle, occurring at moderate altitudes (600m a.s.l.) with severe winter climate and high rainfall	Semi-intensive grazing	Semi-intensive grazing	E E + F	Rhyolitic ash on Tertiary and Upper Cretaceous mudstones and sandstones. Some Taitai greywacke	C, R, Mp, Mh-Lwh, Lwh-P, Ukm	Yellow-brown pumice soils Ngaroma sandy silt, hill soil Matawai sandy loam, hill soil Urewera sandy silt and sand	19H 22H 125a	Slight to moderate soil slip	Moderate soil slip and gully	Low producing pasture. Lowland Podocarp-Hardwood forest. Lowland Beech forest.	N79/960908	Pair planting of poplars and willows along water courses	Similar to VIe3 but longer and steeper slopes have greater erosion potential
VIe5	Ash covered, strongly rolling to moderately steep greywacke ridge tops, occurring above 600m a.s.l. with severe winter climate and high rainfall	Mostly undeveloped	Semi-intensive grazing	D, E	Ash deposits on Taitai greywacke and argillite	Ukm	Hill soils related to Raukumara sandy loam Hill soils related to Urewera sandy silt and sand	124a 125a	Nil to slight soil slip	Slight to moderate soil slip	Lowland Podocarp-Hardwood forest. Lowland Beech forest. Mixed native scrub associations. Some Low producing pasture.	N88/880775	Maintenance of complete pasture cover	This unit occurs up to 1000m a.s.l.
VIIe1	Steep greywacke hill country	Undeveloped Extensive grazing	Semi-intensive grazing Production forestry	F	Taitai greywacke and argillite Some Upper Cretaceous sandstones	Ukm C, R	Central yellow-brown earth and yellow-brown pumice steeppland soils Raukumara sandy loam Urewera sandy silt and sand	124a 125a	Slight to moderate soil slip, sheet, and debris avalanche	Moderate to severe soil slip, and sheet	Mixed native scrub associations. Lowland Podocarp-Hardwood forest. Low producing pasture	N70/950270	Maintenance of complete pasture cover. Control of burning	Scrub regeneration and low fertility are severe limitations to use
VIIe2	Long, steep to very steep greywacke hill country	Undeveloped. Some extensive grazing	Erosion control forestry	F + G	Taitai greywacke and argillite	Ukm	Central yellow-brown earth and yellow-brown pumice steeppland soils Raukumara sandy loam Urewera sandy silt and sand	124a 125a	Slight to severe soil slip, sheet, scree, and debris avalanche	Severe to very severe soil slip, sheet, and scree	Lowland Podocarp-Hardwood forest. Lowland Beech forest. Mixed native scrub associations. Low producing pasture. Fern.	N79/880118	Maintenance of native vegetation. Maintenance of complete pasture cover. Control of burning	Erosion is more severe where repeated burning to maintain a pasture cover has been practised. Soil fertility is low, and soil slips heal slowly
VIIe3	Rolling to strongly rolling unstable sand dunes	Undeveloped	Erosion control forestry. Semi-intensive grazing	C, D	Unconsolidated sand	fd	Yellow-brown sand Patea sand	23	Slight to moderate wind	Severe wind	Sand dune associations	N69/790210	Erosion control forestry. Windbreaks	Drought prone. More suited to forestry than pastoral farming
VIIIe1	Long, very steep, greywacke mountain slopes above 600m a.s.l.	Protection forestry	Protection forestry	G	Taitai greywacke and argillite Some Clarence greywacke	Umk-Ukm C	Central yellow-brown earth and yellow-brown pumice steeppland soils Raukumara sandy loam Urewera sandy silt and sand	124a 125a	Slight to moderate debris avalanche, scree	Very severe to extreme soil slip. Severe to very severe scree. Severe gully	Lowland Podocarp-Hardwood forest. Lowland Beech forest.	N79/160170	Control of noxious animals and burning	
VIIIe2	Long, very steep and highly eroded greywacke mountain slopes above 600m a.s.l.	Protection forestry	Protection forestry	G	Taitai greywacke and argillite	Umk-Ukm	Central yellow-brown earth and yellow-brown pumice steeppland soils Raukumara sandy loam Urewera sandy silt and sand	124a 125a	Severe to very severe debris avalanche, scree	Extreme soil slip. Very severe scree. Severe gully	Lowland and High-land Beech forest. Some Podocarp-Hardwood forest.	N79/170110	Control of noxious animals and burning	Erosion on this unit is more severe than on VIIe1. It is steeper and/or at a higher altitude and may contain faults or crush zones. Localised storms may have contributed to the more severe erosion
VIIIe3	Rolling to strongly rolling plateaux above the timberline	Catchment Protection	Catchment protection	D, C	Taitai greywacke and argillite	Umk-Ukm	Unnamed soil	*	Moderate wind, sheet	Extreme wind, sheet	Sub-alpine scrub associations.	N79/240110	Control of noxious animals	Severe climatic limitations
VIIIe4	Precipitous bluffs above the timberline	Catchment Protection	Catchment protection	G	Taitai greywacke and argillite	Umk-Ukm	Bare rock and some Central yellow-brown earth, steeppland soils Raukumara sandy loam Urewera sandy silt and sand	124a 125a	Severe scree, debris avalanche	Extreme scree, debris avalanche	Sub-alpine scrub associations	N79/207130	Control of noxious animals	

† General Survey of the Soils of North Island, New Zealand. Soil Bureau Bulletin (n.s.) 5 1954.
†† Assessed as under grassland cover with average management applied