

HARTZ MOUNTAINS

This land system is located in the southern extremity of the study area and includes high altitude dolerite country in the vicinity of Hartz Mountains. By extrapolation it also includes areas on Mt Picton, Mt Weld and the Snowy Range. Glacial landforms are often present such as moraines, aretes, glacial lakes and erratics.

Crests and ridges have a shallow (0.50 m), extremely stony, uniform, strong brown, gritty clay loam. This supports alpine heath dominated by *Orites revoluta*, *Orites acicularis*, *Leptospermum rupestre*, *Cyathodes petiolaris*, *Epacris serpyllifolia*, *Richea sprengelioides*, *Drimys lanceolata*, *Exocarpos humifusus*, *Olearia ledifolia*, *Cyathodes straminea*, *Trochiocarpa cunninghamii*, *Olearia pinifolia* and *Podocarpus lawrencii*.

Rockfields and scree slopes are often present. These may be devoid of vegetation and soils (except for lichens and mosses) or have accumulations of shallow, black, organic loam through a stone dominated profile. This supports closed and open heath dominated by *Olearia pinifolia*, *Diselma archeri*, *Microcachrys tetragona*, *Epacris serpyllifolia*, *Sellendena montana*, *Lycopodium fastigiatum* and *Ewartia planchonii*.

Flats and slopes commonly contain a shallow (0.40 m) soil consisting of a very dark brown, fibrous peat over a shallow muck peat on an olive brown clay with an olive grey mottle. This supports an alpine coniferous heath dominated by *Diselma archeri*, *Abrotanella forsterioides*, *Epacris serpyllifolia*, *Richea scoparia*, *Baekkea gunniana*, *Celmisia saxifraga*, *Oreobolus pumilio*, *Microcachrys tetragona*, *Astelia alpina* and *Empodisma minus*. Small pools and tarns are often scattered through this component.

Snowbanks form on the lee slopes of crests and plateaux. These areas contain an extremely shallow (0.15 m), rocky, yellowish brown clay loam that supports a specialized snowbank fieldmark vegetation. This includes *Celmisia saxifraga*, *Erigeron pappochroma*, *Carpha alpina*, *Astelia alpina*, *Bellendena montana*, *Helichrysum backhousii*, *Drimys lanceolata*, *Oreobolus pumilio*, *Poa gunnii*, *Pterygopappus lawrencii*, *Lissanthe montana* and *Acaena montana*.

Scrubby, lower slopes contain a deep (0.70 m) stony, gradational soil consisting of a clay loam surface over a yellowish brown, medium clay developed on glacial till. This supports a low, open woodland dominated by *Eucalyptus coccifera* over a scrubby understorey that includes *Oxylobium ellipticum*, *Celmisia longifolia*, *Bauera rubioides*, *Coprosma nitida*, *Monotoca submutica*, *Helichrysum ledifolium*, and *Orites revoluta*.

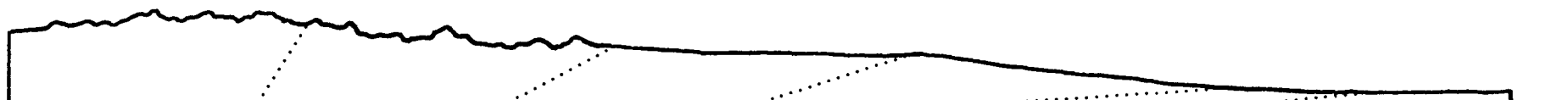
Moorlands and flats contain a peat or organic loam surface over a dark yellowish brown clay loam on a light yellowish brown, light clay. This supports a closed herbland or fernland dominated by *Empodisma minus*, *Baekkea gunniana*, *Astelia alpina*, *Gleichenia alpina*, *Poa gunnii*, *Microlaena tasmanica* var. *subalpina*, *Carex* sp., *Carpha alpina* and *Scaevola hookeri*.

Sheet and wind erosion are potential hazards in this exposed country, particularly following major disturbances. Waterlogging and flooding hazards are associated with the moors and drainage flats.

LAND SYSTEM
Hartz Mountains

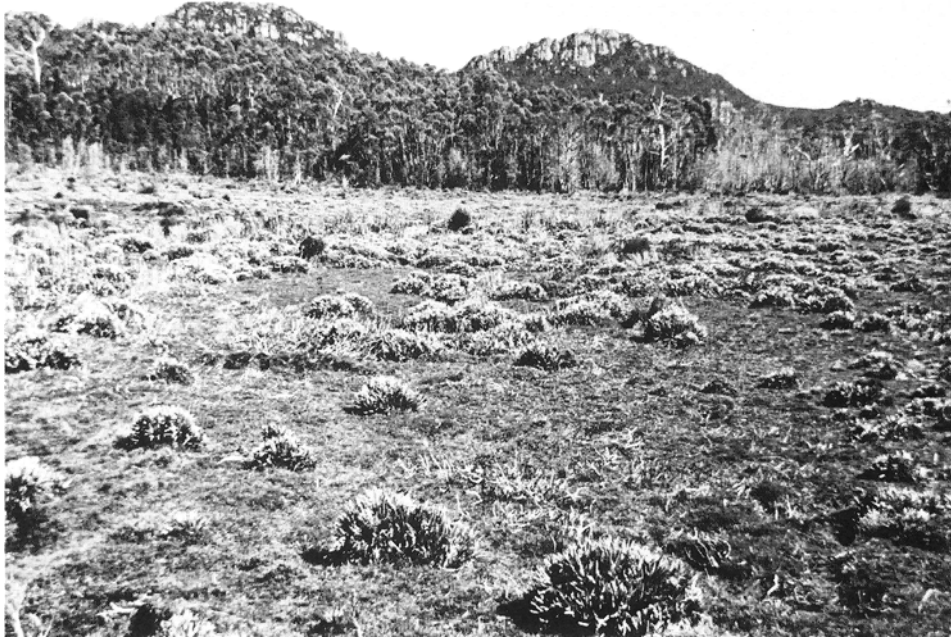
6 7 2 4 5 2

Area (ha)
9 3 7 7



COMPONENT	A	B	C	D	E	F
PROPORTION (%)	20	20	20	20	10	10
RAINFALL (mm)	Approximate Annual Rainfall: 1250-1500					
GEOLOGY	Jurassic Dolerite (Predominantly)					
TOPOGRAPHY	Mountain Peaks and Associated Scrubby Slopes, Plateaus					
Position	Stony Crests	Rockfields	Flats/Slopes	Snowbanks	Scrubby Lower Slopes	Moorlands/Flats
Typical Slope(°)	20	25	10	30	10	0
NATIVE VEGETATION	Alpine Closed/				Low Open	Closed
Structure	Alpine Heath	Open Heath	Alpine Coniferous Heath	Snowbank Herbfields	Woodland Over Scrub	Herbland/Fernland
Floristic Association (See Appendix 1 for common names)	<i>Orites revoluta</i>	<i>Olearia pinifolia</i>	<i>Diselma archeri</i>	<i>Celmisia saxifraga</i>	<i>Eucalyptus coccifera</i>	<i>Empodisma minus</i>
	<i>Orites acicularis</i>	<i>Diselma archeri</i>	<i>Abrotanella forsterioides</i>	<i>Erigeron pappochroma</i>	<i>Oxylobium ellipticum</i>	<i>Baeckea gunniana</i>
	<i>Leptospermum rupestre</i>	<i>Microcachrys tetragona</i>	<i>Epacris serpyllifolia</i>	<i>Carpha alpina</i>	<i>Celmisia longifolia</i>	<i>Astelia alpina</i>
	<i>Cyathodes petiolaris</i>	<i>Epacris serpyllifolia</i>	<i>Richea scoparia</i>	<i>Astelia alpina</i>	<i>Bauera rubioides</i>	<i>Poa gunnii</i>
	<i>Epacris serpyllifolia</i>	<i>Bellenden montana</i>	<i>Baeckea gunniana</i>	<i>Bellenden montana</i>	<i>Coprosma nitida</i>	<i>Rubus gunnianus</i>
	<i>Richea sprengelioides</i>	<i>Pentachondra pumila</i>	<i>Celmisia saxifraga</i>	<i>Helichrysum backhousii</i>	<i>Monotoca submutica</i>	<i>Gleichenia alpina</i>
	<i>Drimys lanceolata</i>	<i>Lycopodium fastigiatum</i>	<i>Oreobolus pumilio</i>	<i>Drimys lanceolata</i>	<i>Helichrysum ledifolium</i>	<i>Microlaena tasmanica</i> var.
	<i>Exocarpos humifusus</i>	<i>Ewartia planchonii</i>	<i>Microcachrys tetragona</i>	<i>Oreobolus pumilio</i>	<i>Orites revoluta</i>	subalpina
	<i>Olearia ledifolia</i>		<i>Astelia alpina</i>	<i>Poa gunnii</i>	<i>Pimelea sericea</i>	<i>Carex</i> sp.
	<i>Cyathodes straminea</i>		<i>Erapodisma minus</i>	<i>Pterygopappus lawrencii</i>	<i>Olearia phlogopappa</i>	<i>Carpha alpina</i>
	<i>Trochocarpa cunninghamii</i>			<i>Lissanthe montana</i>		<i>Scaevola hookeri</i>
	<i>Olearia pinifolia</i>			<i>Acaena montana</i>		
	<i>Podocarpus lawrencii</i>					
SOIL						
Surface (A) Texture	Gritty Clay Loam	Organic Loam	Fibrous Peat	Clay Loam	Clay Loam	Peat/Organic Loam
B Horizon (subsoil) Colour (moist) Texture and primary profile form	Stony, gritty clay loam- Strong brown (7.5 YR 5/8)- Profile dominated by coarse fragments. Uniform.	Shallow extremely stony organic loam - Black (10 YR 2/1) profile dominated by rocks. Uniform.	Shallow muck peat on clay - Olive brown (2.5 Y 4/4) with olive grey (5 Y 5/2) mottle. Complex.	Extremely shallow, rocky clay loam - Dark yellowish brown (10 YR 4/4) to yellowish brown (10 YR 5/6). Uniform.	Shallow extremely stony. gritty, medium clay - Yellowish brown (10 YR 5/8) over glacial till. Gradational.	clay loam - Dark yellowish brown (10 YR 4/4) over light clay - light yellowish brown(10 YR 6/4). Complex.
Permeability	Moderate	High	Moderate	High	Moderate	Moderate/Low
Typical depth(m)	0.50	0.40	0.40	0.15	0.70	0.80
LAND USE	Nature Conservation, Recreation					
HAZARDS	Moderate Sheet, Wind Erosion				Waterlogging, Flooding	

HARTZ MOUNTAINS (672452) LAND SYSTEM



Moorland dominated by Gleichenia alpina, Astelia alpina and Empodisma minus in the Hartz Mountains (672452) Land System with stony crests in background.