



Figure 44. Vernon soils on deep lower slope deposits of loess and scattered boulders.



Figure 45. A typical soil profile of a Vernon soil with stony material. Note the caking of the soil surface and the very weakly developed A horizon.



Figure 46. A Vernon soil with fewer stones and with a weakly developed fragic horizon.





Figure 47. Tunnel gully erosion in Vernon soils. The lower layer of mixed loess and gravels found in Wither soils is absent.



Figure 48. A Vernon soil with a gully formed to about 2 metres in depth. The topsoil has been eroded and the surface is caked.



Figure 49. An actively eroding under-runner in Vernon soils with a partly collapsed roof and beginning to form a continuous gully.





Figure 50. Vernon soils on the head-slopes of a valley. Shallow tunnel gullying is present close to the ridge top and there is extensive sheet erosion and surface sediment re-deposition around the site.



Figure 51. Extensive sheet erosion in a valley head site of Vernon hill soils.





Figure 52. Sheet erosion and roof collapse into under-runners in Vernon hill soils.



Figure 53. Vernon and Waihopai steepland soils on a valley side with intermittent shallow gullying. The smoother area to the right has been mechanically groomed.