HAV Happy Valley Land System

Gently undulating plains dominated by carbonate sands. The system consists of plains, with some depressions and low rises. Extensive areas are overlain with low jumbled dunes. Adjacent and interspersed rises form the Coonarie Land System.

Area: 124.5 km²

Landscape: The land system consists gently undulating plains, with some depressions and low rises.

The land is completely overlain by calcrete and carbonate sand deposits. In recent geological times deep carbonate sands blanketed this area. Leaching of carbonate has lead to the formation of a calcreted calcarenite core. Some areas have lost much of their cover of carbonate sand; exposing the calcrete core. Extensive areas are covered by low jumbled sand dunes. Soil depth often varies drastically over short distances - from deep to very shallow - this is due to the mobile nature of the carbonate sand and the presence of the underlying calcreted calcarenite core.

Annual rainfall: 445 – 490 mm average

Main soils: B1 Shallow carbonate sand on calcrete (around 62% of area)

H1 Carbonate sand (around 38% of area)

Main features: Soils range from deep to very shallow over calcrete, with textures of fine loamy sand

to light fine sandy loam. These soils are composed almost entirely of finely ground shell fragments. The main issues are the highly infertile nature of carbonate sand, wind erosion, water repellence, stoniness and soil depth. High carbonate levels reduce the availability of phosphorus, manganese, zinc and iron. Regular applications of manganese are needed for productive agriculture. Copper is also commonly

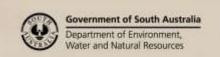
deficient but can be corrected by occasional applications.

These sandy soils need adequate vegetative cover at all times to minimise the risk of wind erosion. Water repellence in surface soils is common and exacerbates the potential for wind erosion. Many soils are too stony and shallow for cropping. Conversely, deep sands occur on many low dunes, and these are semi arable at best due to infertility and wind erosion risk. Saline seepage occurs as raised subsoil salinity levels, and marginal salinity in some depressions. Many areas of native vegetation exist, so nature conservation is an issue.

Soil Landscape Unit summary: Happy Valley Land System (HAV)

In this land system report, soil landscape areas with a '1' as the fourth character of the label are deemed to be non arable. This may be due to deep sandy soils, stony soils, or such areas may just be covered with native vegetation.

SLU	% of area	Main features #
YAC1	0.7	Land dominated by deep to moderate depth carbonate sands. Main soils: carbonate sand (soil H1). Minor to limited areas of shallow carbonate sand on calcrete can occur (soil B1). Land with >90% jumbled low sand dunes: YAC1 – non arable to semi arable level to gently undulating plains overlain with >90% jumbled low sand dunes (slopes 0-3%, 5-4a, 1-2s, 2-1r, 2-1y).
YEL	0.7	Land dominated by deep, moderate depth, and shallow carbonate sands.
YEU	6.2	Main soils: carbonate sand (soil H1) and limited to extensive areas of shallow carbonate
YEV	4.7	sand on calcrete (soil B1). Many relict calcreted low dunes occur, and are mostly non





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YEW YEW YEW YEW YEW YEI YES YEI YEI YEI YER YEI YER YEI YER YEI YER YEI YER YEI YEI YER YEI	YEV1	0.8	arable due to shallow stony soils. Some low sand dunes are non arable; the rest are semi
YEX YEX YEX 1.1 Canal with 0-30% jumbled low sand dunes: YEI 1.8 YEX - mostly crable rises with 0-30% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 3-4a, 1-2x, 2-1y). YEU - mostly crable gently undulating plains with 0-30% jumbled low sand dunes and relict calcreted low dunes (slopes 0-2%, 5-20% non arable stony areas, 0-10% non arable deep sand, 3a, 2a, 0-5% non arable stony areas, 3-2-4h. YEV Text			
YEL YEL YEL Area with 0-30% jumbled low sand dunes: YEL area with 0-30% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 3-4a, 1-25, 3-2-4r, 2-1y). YEU + mostly crable rises with 0-30% jumbled low sand dunes and relict calcreted low dunes (slopes 0-25, 5-20% non arable storny areas, 0-10% non arable deep sand, 3a, 2s, 0-5% non arable storny areas, 3-2-4r]. YEV + 30, 30, 30, 2s, 0-5% non arable storny areas, 3-2-4r]. YEV + mostly arable depressions with some saline seepage (slopes 0-1.5%, 2-3a, 2-3a, 3-2r). YEVI - non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2z), YEVI - non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2z), YEVI - non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2z), YEVI - non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2z), YEVI - non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2z), YEVI - non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2r), YEVI - non arable depression with marginal salinity (slopes 1-1%, 1-2w, 2-3a, 3-2r), YEVI - arable to semi arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable seepage (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 2-1y). YEVI - non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YEVI - non arable seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r), YEVI - non arable seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r), YEVI - non arable seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r), YEVI - non arable seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r), YEVI - non arable seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r), YEVI - non arable seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r), YEVI - non arable seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r), YEVI - non arable seepage (slopes 0-3s, 4-3a, 3-2s, 2-3r), YEVI - non arable seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r), YEVI - non arable seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r			
YEII YEII YER YER YER YER YEA YES YEU YEV			Land with 0-30% inmbled low sand dunes:
YEIT YER YER YER YEA YEIF YEO YEU - mostly arable gently undulating plains with 0-30% jumbled low sand dunes and relict calcreted low dunes (slopes 0-2%, 5-20% non arable stony areas, 0-10% non arable deep sand, 30, 25, 0-5% non arable stony areas, 3-2-41). YEV - mostly arable depressions (slopes 0-1.5%, 2-30, 2-33, 3-21). YEVI - non arable depressions (slopes 0-2%, 3-2-30, 2-33, 3-21). YEVI - non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-30, 3-2s, 3-21). YEWI - non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-30, 3-2s, 3-21). YEWI - non arable depression with marginal salinity (slopes <1%, 1-2w, 2-30, 3-2s, 3-21). YEWI - arable to semi arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-30, 1-2s, 2-3-1r, 2-1y). YEII - non arable low isses overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable speny glopes 0-2%, 4-30, 2-1s, 2-3-1r, 1-2y). YEIR - arable is semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-30, 2-1s, 2-3-1r, 1-2y). YERs - arable, semi arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-30, 2-3s, 2-3-1r). YEA - semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-30, 2-3s, 2-3-1r). YEG - mostly semi arable ion on arable deep sand, 1-2s, 2-1r, 2-1y). YEG - mostly semi arable jumbled low dunes overlying low rises (slopes 0-3%, 4-50, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEG - mostly semi arable jumbled low dunes overlying low lying level plains sidne seepage (slopes 0-2%, 4-3, 2-3, 2-3, 2-3, 2-3, 2-3, 2-3, 2-3, 2			
YER YER YER YER YER YER YEB			
YER YED YED YES YEO			
YEF			
YEV — mostly arable relatively low lying plains/depressions (slopes 0-1.5%, 2-3a, 2-3s, 3-2r). YEV1 — non arable depressions (slopes 0-2%, 1-2e, 2-3a, 2-3b, 2-3c). YEV1 — non arable depressions with some saline seepage (slopes <1%, 1-2w, 2-3a, 3-2s, 3-2r). YEV1 — non arable depressions with some saline seepage (slopes <1%, 1-2w, 2-3a, 3-2s, 3-2r). YEV1 — arable depressions with some saline seepage (slopes <1,5%, 1-2w, 2-3a, 3-2s, 3-2r). YEV2 — semi arable depressions with some saline seepage (slopes <1,5%, 1-2w, 2-3a, 3-2s, 3-2r). YEV3 — semi arable depressions with some saline seepage (slopes <1,5%, 1-2w, 2-3a, 3-2s, 3-2r). YEV4 — arable to semi arable low rises overtain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEV4 — arable to semi arable gently undulating plains overtain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YEV4 — arable to semi arable gently undulating plains overtain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEV4 — semi arable low lying plains overtain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEV5 — mostly semi arable to non arable jow jing plains overtain with 30-60% jumbled low sand dunes vite same saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-09% jumbled low sand dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4-3, 2-1b, 2-3r). YEO — mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4-a, 2-1b, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEO — mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4-a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN — non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level pl			
YEO YEO YEV — non trable depressions (slopes 0-2%, 1-2e, 2-3a, 2-3s, 3-2r). YEV — mostly arable depressions with some saline seepage (slopes <1%, 1-2w, 2-3a, 3-2s, 3-2r). YEVI — non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2s, 3-2r). YEV — semi arable depression with marginal salinity (slopes <1%, 2-w, 2a, 4-3s, 3-2r). YEV — semi arable downsond dunes: YEI — arable to semi arable low rises overtain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEII — non arable low rises overtain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER — arable to semi arable to non arable low lying plains overtain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER — arable to semi arable to non arable low lying plains overtain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEA — semi arable low lying plains overtain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes? YEF — mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-3a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO — mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEO — mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEO — mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEV — non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (s			
YEW – mostly crable depressions with some saline seepage (slopes <1%, 1-2w, 2-3a, 3-2s, 3-2y). YEW – non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2s, 3-2y). YEX – semi arable depression with marginal salinity (slopes <1%, 2w, 2a, 4-3s, 3-2y). YEX – semi arable low sand dunes: YEI – arable to semi arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEII – non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER – arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERs – arable, semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEI – mostly semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEF – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4-3a, 2-3s, 2-3r). YEO – mostly semi arable jumbled low dunes overlying low lying level to gently undulating plains (slopes 0-2%, 4a, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YEN – non arable depressions with some saline seepage (slopes 0-1.5%, 2-3a, 2-1s, 4-7). YdU – non arable depressions with some saline seepage (slopes 0-1			
YEN 0,1 YEVI – non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2s, 3-2r). YEVI – semi arable depression with marginal salinity (slopes <1%, 2w, 2a, 4-3s, 3-2r). YEVI – arable to semi arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEVI – non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEVI – arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 1-2y). YEVI – arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YEVI – semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-31r, 1-2y). YEVI – semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3f). Land with 60-90% jumbled low sand dunes: YEVI – mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEO – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEO – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YEVI – non arable to semi arable jumbled low dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YEVI – non arable dept sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep cachonat			
YEWI – non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2s, 3-21). YEX – semi arable depression with marginal salinity (slopes <1%, 2w, 2a, 4-3s, 3-2r). YEI – arable to semi arable low sand dunes: YEI – arable to semi arable low isses overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEII – non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER – arable is semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERs – arable, semi arable fo non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEd – semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YED – mostly semi arable in ona arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEDs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEDs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled low dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YEDs – mostly semi ara		1.9	YEW – mostly arable depressions with some saline seepage (slopes <1%, 1-2w, 2-3a, 3-2s, 3-
S-2r]. YEX - semi arable depression with marginal salinity (slopes <1%, 2w, 2a, 4-3s, 3-2r). Land with 30-60% jumbled low sand dunes: YEI - arable to semi arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEII - non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER - arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YER - arable to semi arable to non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEB - semi arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3-1r). YEB - semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF - mostly semi arable in one arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO - mostly semi arable jumbled low dunes overlying low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YED - mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YED - mostly semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YED - mon arable deep to dominate by shallow to moderate depth carbonate sands. YeB - moderate depth to deep carbonate sand sone saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 2-3s, 4r). YeB - moderate size dune (slopes 0-1.5%, 2-3a, 2-3s, 2-3c, 7s, 2-3c). YeB - moderate size dune	YEN	0.1	2r).
YEX – semi arable depression with marginal salinity (slopes <1%, 2w, 2a, 4-3s, 3-2r). Land with 30-60% jumbled low sand dunes: YEI – arable to semi arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEII – non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YERR – arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERR – arable is esemi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YEA – semi arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3-1r). YEF – mostly semi arable low sand dunes: YEF – mostly semi arable is to non arable down to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 1-3.0-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). Yall – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). Yall – non arable depression arable low lying plains or occasionally lowers areas of moderate depth to deep carbonate sand (soii H1). Yall – non arable semi arable, and non arable low lying plains or occasionally lowers soline seepage (slopes <1%, 2-3a, 2-1s, 4-7). Ya			YEW1 – non arable depressions with some saline seepage (slopes 0-1.5%, 1-2w, 2-3a, 3-2s,
YEX – semi arable depression with marginal salinity (slopes <1%, 2w, 2a, 4-3s, 3-2r). Land with 30-60% jumbled low sand dunes: YEI – arable to semi arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEII – non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YERR – arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERR – arable is esemi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YEA – semi arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3-1r). YEF – mostly semi arable low sand dunes: YEF – mostly semi arable is to non arable down to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 1-3.0-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). Yall – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). Yall – non arable depression arable low lying plains or occasionally lowers areas of moderate depth to deep carbonate sand (soii H1). Yall – non arable semi arable, and non arable low lying plains or occasionally lowers soline seepage (slopes <1%, 2-3a, 2-1s, 4-7). Ya			3-2r).
YET – arable to semi arable low rises overlain with 30-60% jumbled low sand dunes (slopes 0.3.5%, 1.2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YETI – non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YETE – arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0.2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YETE – arable, semi arable to non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0.2%, 4-3a, 2-3s, 2-3-1r). YETE – semi arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0.2%, 4-3a, 2-3s, 2-3-1r). YETE – mostly semi arable low sand dunes: YETE – mostly semi arable in on arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YETO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YETOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YETOs – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YETOs – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YETOs – non arable doep sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand on calcrete (soil B1), with limited to extensive areas of moderate depth arable gently undulating plains, and a few low rises and slight slopes (slopes 0-1.5%, 2-3a, 2-1s, 4-3r). YdL1 – non arable gently undulating plains to very low rises (slopes 0-1.5%, 2-3a, 2-			YEX – semi arable depression with marginal salinity (slopes <1%, 2w, 2a, 4-3s, 3-2r).
O-3.5%, 1-2e, 5-10% non arable stony areas, 5-20% non arable deep sand, 4-3a, 1-2s, 2-3-1r, 2-1y). YEII - non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER - arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERs - arable, semi arable to non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3r, 2-3-1r). YEA - semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). Land with 60-90% jumbled low sand dunes: YEF - mostly semi arable i pumbled low dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO - mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEO - mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r]. YEN - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YED - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). Yall			
2-1y), YEII - non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER - arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERs - arable, semi arable to non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEA - semi arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF - mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO - mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs - mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEN - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YAB - vol. 1 Land dominated by shallow to moderate depth carbonate sands. YABL - non arable doep sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand (soil H1). YABL - non arable gently undulating plains overlow rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YABL - non arable gently undulating plains to very low rises and slight slopes (slopes ol-1.5%, 2-3a, 2-3a, 2-1s, 4-1). YABL - non arable low lying plains with some saline seepage (slopes <1%, 2-3a, 2-3s, 4-1). YABL - non arable depressions with some saline seepage (slopes <1%, 2-3a, 2-3a, 2-3, 4-1). YABL - non arable depressions with some saline seepage (slopes <1%, 2-3a, 2-3a, 2-3a, 4-1). YABL - non arable depressions wit			
YEII - non arable low rises overlain with 30-60% jumbled low sand dunes (slopes 1-3%, 1-2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER - arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERs - arable, semi arable to non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEd - semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF - mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO - mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs - mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YEB - mostly semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdL - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 3-1, 1-2y). YdB - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 3-1, 2-1y). YdB - moderate size dune (slopes 0-1.5%, 4-5a, 2-1s, 3-1, 2-1y). YdB - moderate size dune (slopes 0-1.5%, 2-3a, 3-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdB - moder			
2e, 4-3a, 1-2s, 2-3-1r, 2-1y). YER – arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERs – arable, semi arable to non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEd – semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF – mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEOs – mostly semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YEOs – mostly semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB 8.7 YdL 1 2.8 YdB 8.7 YdL 2.9 YdB 8.7 YdL 2.9 YdL 2.9 YdL 2.9 YdL 3.9 YdL 3.9 YdL 4.0 YdL 5.9 YdL 5.9 YdL 6.9 YdL 6.9 YdL 6.9 YdL 7.9 YdL 7.9 YdL 7.9 YdL 8.7 YdL 8.7 YdL 8.7 YdL 8.7 YdL 8.7 YdL 8.7 YdL 9.7			
YER - arable to semi arable gently undulating plains overlain with 30-60% jumbled low sand dunes (slopes 0-2%, 4-3a, 2-1s, 2-3-1r, 1-2y). YERs - arable, semi arable to non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEA - semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF - mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO - mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs - mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YEN - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). Yall and dominated by shallow to moderate deepth carbonate sands. Main soils: shallow carbonate sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand (soil H1). Yall - mostly arable gently undulating plains in very low rises (slopes 0-1.5%, 2-3a, 2-1s, 4-7). Yall - non arable gently undulating plains to very low rises (slopes 0-1.5%, 2-3a, 2-3s, 4-3r). Yall - non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4-3r). Yall - non arable depressions with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 0-15% non arable stony areas, 3-4r). Yall - non arable depressions with some very low rises and with some saline seepage (slopes <1%			
yall yall yall yall yall yall yall yall			
YERs – arable, semi arable to non arable low lying plains overlain with 30-60% jumbled low dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEA – semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF – mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB 401. YdB 401. YdB 402. YdB 403. YdB 404. YdB 404. YdB 404. YdB 405. YdB 406. YdB 406. YdB 406. YdB 407. YdB 408. YdB 408. YdB 408. YdB 408. YdB 409. YdB 609. Y			
dunes with some saline seepage (slopes 0-2%, 4-3a, 2-3s, 2-3-1r). YEd – semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF – mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). Ydl. 8.7 Ydl. 8.7 Ydl. 9.6 YdB – moderate depth to deep carbonate sand (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand (soil H1). Ydl. 5.8 YdB – moderate size dune (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdW 7.3 YdW – mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 110, 0.2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW – roostly arable depressions with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 4-7). YdW – mostly arable depressions with some saline seepage (slopes <1%, 2-3a, 3-2s, 4-7). YdW – non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 – non arable depressions with some very low rises and marginal salinity			
YEB – semi arable low lying plains overlain with 30-60% jumbled low sand dunes with some saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF – mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying plevel to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdL – non arable stony areas, 3-2-1s, 2-1r, 2-1y). YdL – Nastly arable deep carbonate sand (soil H1). YdU – Standard deep that o deep carbonate sand (soil H1). YdU – Nastly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 – Nastly arable gently undulating plains to very low rises (slopes 0-1.5%, 2-3a, 2-1s, 4r). YdUn – low lying level plains with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 4r). YdUn – low lying level plains with some saline seepage (slopes -1%, 2-3a, 2-3s, 4r). YdW1 – non arable depressions with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 – non arable depressions with some very low rises and marginal salinity			
saline seepage (slopes 0-2%, 4-3a, 3-2s, 2-3r). Land with 60-90% jumbled low sand dunes: YEF - mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO - mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs - mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB			
Land with 60-90% jumbled low sand dunes: YEF - mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO - mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs - mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB			
YEF – mostly semi arable to non arable jumbled low to moderate height dunes overlying low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdL – and dominated by shallow to moderate depth carbonate sands. Main soils: shallow carbonate sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand (soil H1). YdL – mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 – mostly arable gently undulating plains to very low rises (slopes 0-1.5%, 2-3a, 2-1s, 4r). YdV1 – arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdV1 – non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdV1 – non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 – non arable depressions with some very low rises and marginal salinity			
low rises (slopes 0-3.5%, 4-5a, 10-30% non arable deep sand, 1-2s, 2-1r, 2-1y). YEO - mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs - mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN - non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB			
YEO – mostly semi arable jumbled low dunes overlying relatively low lying level to gently undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB			
undulating plains (slopes 0-2%, 4a, 2-1s, 0-15% non arable stony areas, 5-20% non arable deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdL 8.7 Main soils: shallow carbonate sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand (soil H1). YdU 5.8 YdB – moderate size dune (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdUn 10.0 YdL – mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW 7.3 YdL1 – non arable gently undulating plains to very low rises (slopes 0-1.5%, 2-3a, 2-1s, 4r). YdW1 2.3 YdU – arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 5-20% non arable stony areas, 4-3r). YdW1 – low lying level plains with 0-10% jumbled low sand dunes and some saline seepage (slopes <1%, 3-2a, 2-3s, 0-5% non arable stony areas, 3-4r). YdW1 – non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 – non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 4-3r).			
deep sand, 2-1r, 1-2y). YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB YdIL 8.7 YdL 8.7 YdL 10.6 Nain soils: shallow carbonate sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand (soil H1). YdU 5.8 YdB – moderate size dune (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdIL – mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 YdW1 YdW1 YdW1 2.3 YdL1 – non arable gently undulating plains to very low rises (slopes 0-1.5%, 2-3a, 2-1s, 4r). YdU1 – arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 4-3r). YdU1 – low lying level plains with 0-10% jumbled low sand dunes and some saline seepage (slopes <1%, 3-2a, 2-3s, 0-5% non arable stony areas, 3-4r). YdW1 – non arable depressions with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 – non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 4-3r). YdW1 – non arable depressions with some very low rises and marginal salinity			
YEOs – mostly semi arable jumbled low dunes overlying low lying plains with some saline seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB 40.			
seepage (slopes 0-2%, 4a, 0-10% non arable stony areas, 5-20% non arable deep sand, 2-3s, 2-1r). YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB 3.7			
3s, 2-1r]. YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB 40.1 Land dominated by shallow to moderate depth carbonate sands. Main soils: shallow carbonate sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand (soil H1). YdU 5.8 YdB – moderate size dune (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdUn 0.8 YdL – mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 7.3 YdL1 – non arable gently undulating plains to very low rises (slopes 0-1.5%, 2-3a, 2-1s, 4r). YdW1 2.3 YdU – arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 5-20% non arable stony areas, 4-3r). YdW1 – non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdW1 – low lying level plains with 0-10% jumbled low sand dunes and some saline seepage (slopes <1%, 3-2a, 2-3s, 0-5% non arable stony areas, 3-4r). YdW – mostly arable depressions with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 – non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 4-3r).			
YEN – non arable to semi arable jumbled moderate height to low sand dunes overlying low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB YdL YdL 8.7			
low lying level plains (slopes 0-4.5%, 4-5a, 2-1s, 2-1r, 2-1y). YdB			
YdB YdL YdL YdL 8.7 Main soils: shallow carbonate sand on calcrete (soil B1), with limited to extensive areas of moderate depth to deep carbonate sand (soil H1). YdU YdU YdU YdU YdU 10.8 YdB – moderate size dune (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdUn YdUn YdW 7.3 YdL – mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW YdW1 YdW1 YdW1 YdW1 YdW1 YdW1 YdW1			
 YdL ydL1 YdL1 YdL1 YdU 5.8 YdB - moderate size dune (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdL - mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 YdX1 YdX1 YdX1 XdW1 - arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 4-3r). YdU1 - non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdU1 - low lying level plains with 0-10% jumbled low sand dunes and some saline seepage (slopes <1%, 3-2a, 2-3s, 0-5% non arable stony areas, 3-4r). YdW1 - non arable depressions with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 - non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 4-3r). YdW1 - non arable depressions with some very low rises and marginal salinity 			
 YdL ydL1 YdL1 YdL1 YdU 5.8 YdB - moderate size dune (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdL - mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 YdX1 YdX1 YdX1 XdW1 - arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 4-3r). YdU1 - non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdU1 - low lying level plains with 0-10% jumbled low sand dunes and some saline seepage (slopes <1%, 3-2a, 2-3s, 0-5% non arable stony areas, 3-4r). YdW1 - non arable depressions with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 - non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 4-3r). YdW1 - non arable depressions with some very low rises and marginal salinity 	YdB	< 0.1	Land dominated by shallow to moderate depth carbonate sands.
 YdL1 YdU YdB - moderate depth to deep carbonate sand (soil H1). YdB - moderate size dune (slopes 0.5-4.5%, 2-1e, 3-4a, 1-2s, 4-3r, 2-1y). YdL - mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 YdW1 YdW1 YdW1 - arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 5-20% non arable stony areas, 4-3r). YdU1 - non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdUn - low lying level plains with 0-10% jumbled low sand dunes and some saline seepage (slopes <1%, 3-2a, 2-3s, 0-5% non arable stony areas, 3-4r). YdW1 - mostly arable depressions with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 - non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 4-3r). YdW1 - non arable depressions with some very low rises and marginal salinity 		8.7	
 YdU ydU1 YdU1 YdU1 O.8 YdL - mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0.2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 YdW1 YdW1 2.3 YdU - arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 4-3r). YdU1 - non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdU1 - non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdUn - low lying level plains with 0-10% jumbled low sand dunes and some saline seepage (slopes <1%, 3-2a, 2-3s, 0-5% non arable stony areas, 3-4r). YdW1 - mostly arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable depressions with some very low rises and marginal salinity 			
 YdU1 YdUn 10.8 YdL – mostly arable gently undulating plains, and a few low rises and slight slopes (slopes 0-2%, 1-2e, 2-3a, 2-1s, 4-3r). YdW1 YdW1 2.3 YdU1 – arable, semi arable, and non arable low lying plains or occasionally lower slopes with some saline seepage (slopes 0-1.5%, 2-3a, 2-3s, 4-3r). YdU1 – non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdU1 – non arable low lying plains with some saline seepage (slopes 0-1%, 2-3a, 2-3s, 4r). YdUn – low lying level plains with 0-10% jumbled low sand dunes and some saline seepage (slopes <1%, 3-2a, 2-3s, 0-5% non arable stony areas, 3-4r). YdW1 – mostly arable depressions with some saline seepage (slopes <1%, 2-3a, 3-2s, 0-15% non arable stony areas, 3-4r). YdW1 – non arable depressions with some very low rises and with some saline seepage (slopes <1%, 2-3a, 3-2s, 4-3r). YdX1 – non arable depressions with some very low sand dunes and marginal salinity 			· · · · · · · · · · · · · · · · · · ·
YdUn YdW YdW1 YdW1 YdW1 YdW1 YdW1 YdW1 YdW1			
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$I = I \cdot (slopes 0.15\% \cdot 2a \cdot 4.3c \cdot 4.3r)$			
[[310pc3 0-1.376, 2a, 4-33, 4-31].			(slopes 0-1.5%, 2a, 4-3s, 4-3r).



i		
YaL	0.9	Land dominated by very shallow to shallow carbonate sands.
YaL1	9.5	Main soils: shallow carbonate sand on calcrete (soil B1). With minor to limited areas of
YaU	0.8	moderate depth carbonate sand (soil H1). And some areas of shallow calcareous loam
YaU1	4.6	on calcrete can occur (soil B2).
YaW	0.2	YaL – arable, semi arable and non arable low rises to rises (slopes 0-2.5%, 1-2e, 2a, 1-2s, 4-
YaX	0.2	5r).
Yap1	< 0.1	YaL1 – non arable stony plains and very low rises and slight slopes (slopes 0-2%, 1-2e, 2a, 2-
		1s, 5-4r).
		YaU – semi arable to non arable relatively low lying stony plains (slopes <1%, 2a, 2-3s, 4-5r).
		YaU1 – non arable relatively low lying stony plains (slopes <1%, 2-1a, 2-3s, 5-4r).
		YaW – semi arable low lying plains (slopes 0-1%, 2-1a, 3-2s, 4-5r).
		YaX – semi arable to non arable depressions with marginal salinity (slopes <1%, 2-1a, 4-3s,
		4-5r).
		Yap1 – non arable stony slopes and low rises (slopes 1.0-3%, 2-1e, 2a, 2-1s, 5-4r).

Classes in the 'Soil Landscape Unit summary' table (eg. 2-1e, 3w, 2y, etc) describe the predominant soil and land conditions, and their range, found in Soil Landscape Units. The number '1' reflects minimal limitation, while increasing numbers reflect increasing limitation. Letters correspond to the type of attribute:

a - wind erosion

e - water erosion

f - flooding

g - gullying

r - surface rockiness

s - salinity

w - waterlogging

y - exposure

Detailed soil profile descriptions:

B1 Shallow carbonate sand on calcrete

[Petrocalcic Shelly Calcarosol, or occasionally Petrocalcic Supravescent Calcarosol] Loose to powdery, grey brown fine loamy sand to light fine sandy loam, composed of finely divided shell fragments, overlying calcreted calcarenite at shallow or very shallow depth. Many of these soils are too stony and shallow to be cropped. Found on plains, depressions, and rises.

H1 Carbonate sand [Shelly Calcarosol]

Loose to powdery, grey brown fine loamy sand to light fine sandy loam, composed of finely divided shell fragments, overlying calcreted calcarenite at moderate depth or more. Grey organic stained topsoils overlie light coloured subsoils (pale brown to very pale brown). Found on low dunes, plains, depressions, and rises.

Further information: DEWNR Soil and Land Program

