EUR Eurelia Land System

| Area: | 452.7 km ² | | | | | | | | | |
|------------------|---|--|--|--|--|--|--|--|--|--|
| Landscape: | Pediments and plains, with rises and low hills mostly with red soils, often with clay subsoils; on basement rock. Grey calcareous soils on pediments and rises are subdominant in parts. Named after the locality of Eurelia. | | | | | | | | | |
| Annual rainfall: | 265 - 385 mm average | | | | | | | | | |
| Geology: | Colluvial and alluvial materials locally derived from calcareous and non-calcareous siltstones and fine grained basement rocks e.g. Ulupa Siltstone, Tarcowie Siltstone and Tapley Hill Formation. Minor quartzites occur as linear ridges and low ranges. | | | | | | | | | |
| Topography: | Undulating plains trending north-east to south-west with rolling rises and low ranges on hard rock. The land system is bounded on both sides by higher ranges. Drainage is well defined and is often incised. Pekina and Yanyarrie creeks are the main streams draining the land system. | | | | | | | | | |
| Elevation: | 500 - 530 m asl in the north, 440 - 450 m asl in the south | | | | | | | | | |
| Relief: | 10 - 20 m is common throughout, but there are some rises and low hills included which may rise 30 m or more. | | | | | | | | | |
| Typical soils: | Red loam to clay over granular clay (pedaric Sodosols/Dermosols). These soils are present on both alluvial plains and broad gently sloping pediments. These soils often are extensively scalded. They are often in association with: Grey to red calcareous loam grading to calcareous clay (Calcarosols). These soils are found on pediments and plains derived from fine grained calcareous parent rocks. Shallow red loam to clay over fine-grained basement rock. These soils occur on rises and low hills which occur both as isolated knolls and continuous elongate ranges trending NE-SW. Shallow grey calcareous loam on fine-grained rock. These soils are found on stony rises and low hills. Some of these soils are powdery and pulverulent and exhibit scalding. | | | | | | | | | |
| Main soils: | D2 (18%) Loam over red clay (Calcic-Hypercalcic Red Chromosol-Sodosol) D1 (14%) Loam over clay on rock (Shallow Calcic-Hypercalcic Red Chromosol) A2 (12%) Calcareous loam on rock (Paralithic Calcarosol) | | | | | | | | | |
| Minor soils: | L1 (9%) C3 (6%) Friable gradational clay loam (Calcic-Hypercalcic Red Dermosol-Calcarosol) A5 (6%) Rubbly calcareous loam on clay (Supracalcic-Lithocalcic Calcarosol on clay) D4 (6%) Loam over pedaric red clay (Pedaric Red Sodosol-Dermosol) RR (5%) Bare rock B2 (4%) Shallow calcareous loam on calcrete (Petrocalcic Calcarosol-Rudosol) C1 (4%) Gradational sandy loam (Calcic-Hypercalcic Kandosol-Calcarosol) | | | | | | | | | |
| Summary: | The Eurelia Land System is a series of plains and pediments separated by a number of north-east to southwest trending low ranges and rises. Soils are mostly red with clay subsoils, but grey calcareous soils are subdominant in some parts. Shallow red loams and clayey soils occur on or near the ranges, as do shallow calcareous soils. | | | | | | | | | |





Soil Landscape Unit summary: Eurelia Land System (EUR)

| ABC 1.3 Rolling low hills L1RR D Rolling low hills with linear rocky quartize outcrops and shallow rocky solis on interbedded fine-grained rocks. Relief is 30-90m, stopes are 3-10%. Main solis: Shallow stony solis on rock - 11. Rock outcrop - RR is common. ACB 0.3 Rolling ises D1L1 D Hills and rises with shallow red texture contrast and clay loop are solid on linestone. ACI 0.2 Rolling low hills D1L1 D Hills and rises with shallow red texture contrast and clay loop are for any gradational solis formed on linestone. ADA 1.2 Undulating rises. C2L1 D Non-arable rocky rises with hirs is oli cover formed on linestone and calc-silistone with very shallow loop rock - D1 and Shallow stony solis on rock - 11. ADA 1.2 Undulating rises C2L1 D Non-arable rocky rises with hire shallow loop rock and solid cover formed on linestone and calc-silistone with very shallow loop rock and solid rock. Relief is 30-90m, slopes are 3-10%. ADD 0.5 Steep low hills L1 RD D ADD 0.7 Steep low hills L1 RD D ADD 0.2 Steep low hills L1 RD D ADD 0.4 Rolling low hills L1 D D ADD 0.4 <td< th=""><th>SLU</th><th>% of area</th><th>Component</th><th>Main soils</th><th>Prop#</th><th>Notes</th></td<> | SLU | % of area | Component | Main soils | Prop# | Notes |
|--|-----|--------------|-------------------|---------------|-------|--|
| ACB 0.3 Rolling rises D11.1 D Hills and rises with shallow red texture contrast and clay loarny gradational soils formed on limestone. ACI 0.2 Rolling low hills D11.1 D ACB Rolling rises. Relief is 9-30m; slopes are 10-30%. ACI Rolling low hills D11.1 D ACB Rolling rises. Relief is 9-30m; slopes are 10-30%. ADA 1.2 Undulating rises CLI D Non-arable racky rises with thin soil cover formed on limestone and calc-alisthore with very shallow loarny soils. ADB 1.5 Rolling rises L1 D Non-arable racky rises with thin soil cover formed on limestone and calc-alisthore with very shallow loarny soils. ADD 0.2 Rolling rises L1 D ADA Undulating rises are 0-a0%. ADD 0.4 Rolling rises L1 D ADB Rolling rises are 0-a0%. ADD 0.5 Steep hills L1RR D ADB Rolling rises are 0-a0%. ADD 0.2 Steep hills L1RR D ADB Rolling rises are 0-a0%. ADD 0.4 Rolling low hills L1R D ADB Rolling rises are 0-a0% | ABC | | Rolling low hills | | D | shallow rocky soils on interbedded fine-grained rocks. Relief is 30-90m, slopes are 3-10%. Main soils: <u>Shallow stony soils on rock</u> - L1 . <u>Rock outcrop</u> - RR |
| ACI 0.2 Rolling low hills D1L1 D Image: ACB Rolling low hills D1L1 D Image: Relief is 9-30m; slopes are 10-30%, ACI Rolling low hills with gulying affecting more than 20% of land. Relief is 30-90m; slopes are 10-30%, ACI Rolling low hills with gulying affecting more than 20% of land. Relief is 30-90m; slopes are 10-30%, ACI Rolling low hills ADA 1.2 Undulating rises C2L1 D Non-arable rocky rises with thin soil cover formed on limestone and calc -sitistone with very shallow loary calcareous soils formed on Skillagalee Dolomite and calcareous fine-grained rock. Relief is loss than 30m, slopes are 3-10%, ADD ADE 0.2 Rolling low hills L1 D D ADB ADH ADH Colling rises with very shallow loary calcareous soils formed on Skillagalee Dolomite and calcareous fine-grained rock. Relief is loss than 30m, slopes: 10-30%, ADE Colling rises and bove. Relief: 30-90m, slopes: 10-30%, ADE Steep low hills ADI 0.2 Steep low hills L1 RD D ADD 0.6 Rolling low hills L1 RD D ADD 0.6 Rolling low hills L1 RD D ADD 0.6 Rolling low hills L1 D D ADD 0.6 Rolling low hills L1 D D ADD 0.6 Rolling low hills L1 D <t< td=""><td>ACB</td><td>0.3</td><td>Rolling rises</td><td>D1L1</td><td>D</td><td></td></t<> | ACB | 0.3 | Rolling rises | D1L1 | D | |
| ADA 1.2 Undulating rises C2L1 D Non-arable rocky rises with thin soil cover formed on limestone and calc-sitistone with very shallow loamy soils. ADB 1.5 Rolling low hills L1 D ADA Undulating rises with very shallow stony calcareous soils formed on Skillagalee Dolomite and calcareous fine-grained rock. Relief is less than 30m, slopes are 3-10%. ADE 0.7 Steep hills L1RR D ADD 0.4 Rolling rises L1 D ADI 0.2 Steep low hills L1RR D ADI 0.4 Rolling rises L1 D ADI 0.2 Steep low hills L1RR D ADD 0.6 Rolling low hills L1 D ADD 0.6 Rolling low hills L1 D AD 0.6 Rolling low hills L1 D AD Non-arable rocky rises with wery shallow stony calcareous and scalcing, Relief is 30-90m, slopes are 3-10%. ADO Rolling low hills L1 D AD Rolling low hills L1 D AD Rolling low hills Soonarabe low hills as above, with eroded | | | | | | loamy gradational soils formed on limestone. ACB Rolling rises. Relief is 9-30m; slopes are 10-30%. ACI Rolling low hills with gullying affecting more than 20% of land. Relief is 30-90m, slopes are 10-30%. Main soils: <u>Clay loam over pedaric red clay on rock</u> - D1 |
| ADC 0.2 Rolling low hills L1 D ADD 0.5 Steep low hills L1RR D grained rock. Relief is less than 30m, slopes are 310%. ADB 0.7 Steep hills L1R D ADB Rolling rises a chove. Relief: 9-30m, slopes: 10-30%. ADI 0.1 Rolling low hills L1 D ADD Rolling low hills L1 D ADI 0.2 Steep low hills L1 RR D ADD Steep low hills a chove. Relief: 30-90m, slopes: 30-50%. ADD 0.2 Steep low hills L1 RR D ADD Steep low hills as chove. Relief: 30-90m, slopes are 30-50%. ADD 0.6 Rolling low hills L1 D D ADD Steep low hills as chove. Relief: 30-90m, slopes are 30-50%. ADD O.6 Rolling low hills L1 D D ADI Steep low hills as chove, with eroded watercourses and scalcling. Relief is 30-90m, slopes are 31-0%. ADI Steep low hills as chove, with eroded watercourses. Relief is 30-90m, slopes are 310%. ADI Steep low hills as chove, with scalcling and sheet erosion. Relief is 30-90m, slopes are 31-0%. AHC 1.5 Rolling low hills L1 D Rolling low hills as chove, with scalcling and sheet erosion. <td>ADA</td> <td>1.2</td> <td>Undulating rises</td> <td>A2</td> <td>D</td> <td>Non-arable rocky rises with thin soil cover formed on limestone and calc-siltstone with very shallow loamy soils.</td> | ADA | 1.2 | Undulating rises | A2 | D | Non-arable rocky rises with thin soil cover formed on limestone and calc-siltstone with very shallow loamy soils. |
| ADD 0.5 Steep low hills L1RR D ADE 0.7 Steep hills L1RR D ADh 0.1 Rolling rises L1 D ADD 0.4 Rolling low hills L1 D ADD 0.4 Rolling low hills L1 D ADD 0.2 Steep low hills L1 D ADO 0.6 Rolling low hills L1 RR D ADO 0.6 Rolling low hills L1 RD D ADO 0.6 Rolling low hills L1 RR D ADO 0.6 Rolling low hills L1 RE D ADD 0.6 Rolling low hills L1 RE D ADD 0.6 Rolling low hills L1 RE D ADD Rolling low hills Careep low hills ca above, with eroded watercourses and scalding, Relief is 9-30m, slopes are 30-60%. ADD Rolling low hills L1 D AD Rolling low hills ca above, with scalding and sheet erosion. Relief is 30-90m, slopes are 30-50%. ADD Rolling low hills ca above, with scalding and sh | | | | | D | |
| ADE 0.7 Steep hills L1RR D ADb 0.1 Rolling rises L1 D ADC Rolling low hills as above. Relief: 30-90m, slopes: 3-10%. ADi 0.2 Steep low hills L1 D ADD Steep low hills as above. Relief: 30-90m, slopes: 3-05%. ADO 0.6 Rolling low hills L1 RR D ADD Rolling rises as above. with eroded watercourses and scalding. Relief is 9-30m, slopes are 30-60%. ADO 0.6 Rolling low hills L1 D ADR Rolling rises as above. with eroded watercourses and scalding. Relief is 9-30m, slopes are 10-30%. ADD 0.6 Rolling low hills L1 D ADR Rolling low hills as above, with eroded watercourses and scalding. Relief is 30-90m, slopes are 30-60%. ADD D.6 Rolling low hills L1 D ADI Rolling low hills as above, with eroded watercourses. Relief is 30-90m, slopes are 30-50%. ADD Rolling low hills as above, with eroded watercourses. Relief is 30-90m, slopes are 3-10%. AHC 1.5 Rolling low hills L1 D Rolling low hills with quartzite ridges (Cradock Quartzite) and interbedded valleys on fine grained rocks, typically. Saddleworth Formation siltstones. Relief is 30-90m, slopes are 30-80%. AKB 0.1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>9</td></td<> | | | | | | 9 |
| ADh O.I. Rolling rises L1 D ADi 0.4 Rolling low hills L1 D ADD ADD Version of the second sec | | 0.5 | | | | |
| ADI O.4 Rolling low hills L1 D ADJ 0.2 Steep low hills L1RR D ADO 0.6 Rolling low hills L1RR D ADO 0.6 Rolling low hills L1 D ADO 0.6 Rolling low hills L1 D ADD Relief is 30-90m, slopes are 3-10%. ADD Steep low hills as above, with eroded watercourses. Relief is 30-90m, slopes are 3-10%. ADD Rolling low hills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 3-10%. ADO Rolling low hills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 3-10%. ADO Rolling low hills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 3-10%. ADO Calcareous loany, shallow stony solis on rock - 11; Gracational red clay-loam on rock | | | | | | |
| ADD 0.2 Steep low hills LIRR D ADO 0.6 Rolling low hills LIRR D ADO 0.6 Rolling low hills L1 D ADO 0.6 Rolling low hills L1 D ADO 0.6 Rolling low hills L1 D AD 0.6 Rolling low hills L1 D AD AD Rolling low hills L1 D AD AD Rolling low hills Rolling low hills as above, with eroded watercourses. Relief is 30-90m, slopes are 30-50%. AD Rolling low hills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 30-50%. AD Rolling low hills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 30-50%. AD Rolling low hills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 30-50%. AD Rolling low hills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 30-30%. Main soils: Calcareous loamy, Shallow stony soils on rock - 11; ard ard Calcareous calve (Calve (Calve) pedicic AHC 1.5 Rolling low hills | | | | | | |
| ADO 0.6 Rolling low hills L1 D ADO 0.6 Rolling low hills L1 D ADh Rolling rises as above with eroded watercourses and scalding. Relief is 9-30m, slopes are 10-30%. ADi Rolling low hills L1 D ADi Rolling low hills as above, with eroded watercourses and scalding. Relief is 30-90m, slopes are 3-10%. ADI Rolling low hills as above, with eroded watercourses. Relief is 30-90m, slopes are 30-50%. ADO Rolling low hills as above, with eroded watercourses. Relief is 30-90m, slopes are 3-10%. ADO Rolling low hills as above, with eroded watercourses. AHC 1.5 Rolling low hills L1 D AHC 1.5 Rolling low hills L1 D Rolling low hills as above, with eroded watercourses. AHC 1.5 Rolling low hills L1 D Main soils: Calcareous loamy. Shallow stony soils on rock - L1. AHC 1.5 Rolling rises L1 D Rolling low hills with quartzite ridges (Cradock Quartzite) and interbedded valleys on fine grained rocks, typically. Saddleworth Formation siltstones. Relief is 30-90m, slopes are 3-10%. AKC 0.2 Rolling rises L1 D Hills and rises with very shallow rocky calcareous soils formed on coarse-grained rocks of the Pre-Cambrian Burra Group including the Rhynie | | | | | | |
| ABC0.0Kolling low fillsL1Dscalding. Relief is 9-30m, slopes are 10-30% ADI Rolling low fills as above, with eroded watercourses and scalding. Relief is 30-90m, slopes are 3-10%. ADI Steep low fills as above, with eroded watercourses. Relief is 30-90m, slopes are 3-10%. ADO Rolling low fills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 3-10%. ADO Rolling low fills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 3-10%. Main soils: Calcareous loamy. Shallow stony soils on rock - 11; gradational red clay-loam over clay (Red clayev pedaric Dermosols) - C2 and calcareous clay loam on rock - A2. Non-arable, limited pastoral use.AHC1.5Rolling low hillsL1DRolling low hills with quartzite ridges (Cradock Quartzite) and interbedded valleys on fine grained rocks, typically, Saddleworth Formation siltstones. Relief is 30-90m, slopes are 3-10%. Main soils: Shallow stony soils on rock - 11.AKB0.1Rolling low hillsL1DHills and rises with very shallow rocky calcareous soils formed on coarse-grained rocks of the Pre-Cambrian Bura Group including the Rhynie Sandstone and Skillagollee Dolomite. AKC Rolling low hillsL11DAPC1.5Rolling low hillsL11DHills and rises on rock - 11.APC1.5Rolling low hillsL11DHills and rises on rock - 11 | | | | | | |
| AHC1.5Rolling low hillsL1DRolling low hills with quartzite ridges (Cradock Quartzite) and interbedded valleys on fine grained rocks, typically, Saddleworth Formation siltstones. Relief is 30-90m, slopes are 3-10%. Main soils: Shallow stony soils on rock - L1.AKB0.1Rolling risesL1DHills and rises with very shallow rocky calcareous soils formed on coarse-grained rocks of the Pre-Cambrian Burra Group including the Rhynie Sandstone and Skillagollee Dolomite. AKC Rolling low hillsL1DAPC1.5Rolling low hillsL1D1DHills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. APC Rolling low hillsL1D1DAPC1.5Rolling low hillsL1D1DHills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. APC Rolling low hills. Non arable. Relief is 30-90m, slopes are 10-30%. | | | | | | ADi Rolling low hills as above, with eroded watercourses and scalding. Relief is 30-90m, slopes are 3-10%. ADJ Steep low hills as above, with eroded watercourses. Relief is 30-90m, slopes are 30-50%. ADO Rolling low hills as above, with scalding and sheet erosion. Relief is 30-90m, slopes are 3-10%. Main soils: <u>Calcareous loamy</u>, <u>Shallow stony soils on rock</u> - L1; <u>gradational red clay-loam over clay</u> (Red clayey pedaric Dermosols) - C2 and <u>Calcareous clay loam on rock</u> - A2. |
| AKC 0.2 Rolling low hills L1 D formed on coarse-grained rocks of the Pre-Cambrian Burra Group including the Rhynie Sandstone and Skillagollee Dolomite. AKB Rolling rises. Relief is 9-30m, slopes are 10-30%. AKC Rolling low hills L1D1 D Main soils: Shallow stony soils on rock - L1. APC 1.5 Rolling low hills L1D1 D Hills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. APC Rolling low hills L1D1 D Hills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. | AHC | 1.5 | Rolling low hills | Ll | D | Rolling low hills with quartzite ridges (Cradock Quartzite) and interbedded valleys on fine grained rocks, typically, Saddleworth Formation siltstones. Relief is 30-90m, slopes are 3-10%. Main soils: <u>Shallow stony soils on rock</u> - L1. |
| APC 1.5 Rolling low hills L1D1 D Hills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. APC 1.5 Rolling low hills L1D1 D Hills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. APC 1.5 Rolling low hills L1D1 D Hills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. APC Relief is 30-90m, slopes are 10-30%. AFC Rolling low hills. Non arable. | | | | | D | |
| APC1.5Rolling low hillsL1D1DHills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. APC Rolling low hills. Non arable. Relief is 30-90m, slopes are 10-30%. | AKC | 0.2 | Rolling low hills | LI | D | Group including the Rhynie Sandstone and Skillagollee Dolomite. AKB Rolling rises. Relief is 9-30m, slopes are 10-30%. AKC Rolling low hills. Relief is 30-90m, slopes are 10-30%. |
| | APC | 1.5 | Rolling low hills | LIDI | D | Hills and rises on coarse-grained basement rocks particularly Appilla Tillite Formation. APC Rolling low hills. Non arable. |
| | APH | 0.7 | Rolling rises | L1D1 | D | API Rolling low hills with eroded watercourses. Gullying |





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|------------|----------|--------------------|--------------|---|---|
| API | 0.5 | Rolling low hills | L1D1 | D | affects more than 20% of land. Non arable. Relief is 30-90m, slopes are 10-30%. |
| | | | | | APK Steep hills with eroded watercourses. Gullying affects |
| | | | | | more than 20% of land. Non arable. |
| | | | | | Relief is 90-300m, slopes are 30-50%. |
| | | | | | |
| | | | | | Main soils: <u>Shallow stony soils on rock</u> - L1 and <u>Loam over</u> |
| | | | | | pedaric red clay on rock - D1. |
| DAC | 0.2 | Undulating rises | D1C2 | D | Undulating rises with duplex soils over basement rocks, |
| | | | | | typically siltstones of the Saddleworth Formation. |
| | | | | | Calcareous subsoils. Relief is 9-30m, slopes are 3-10%. |
| | | | | | Main soils: <u>Clay loam over pedaric red clay on rock</u> - D1 |
| DPC | 1 / | lindulation in the | 0100 | | and <u>Gradational loam on rock</u> - C2 . |
| DBC | 1.6 | Undulating rises | D1D2 D3 | D | Rises formed on basement rocks with texture contrast soils |
| DBD | 0.6 | Polling rises | D3 D1D2 | D | with clay-loamy surfaces and containing carbonate in the subsoils. |
| עפע | 0.6 | Rolling rises | DID2 D3 | | DBC Undulating rises. Relief is 9-30m, slopes are 3-10%. |
| | | | 05 | | DBD Rolling rises. Relief is 9-30m, slopes are 10-30%. |
| | | | | | |
| | | | | | Main soils: <u>Clay loam over pedaric red clay on rock</u> - D1 , |
| | | | | | Loam over red clay - D2 and Loam over poorly structured |
| | | | | | <u>red clay</u> - D3 . |
| DCB | 0.8 | Gently | D1A6 | D | Rises with shallow texture contrast soils on shales and |
| | | undulating | | | siltstones. Surface soils commonly have clay loamy textures. |
| | | rises | | | Calcareous soils occupy more than 20% of the landscape. |
| DCC | 1.4 | Undulating rises | D1A6 | D | There is much surface stone. |
| | | | | | DCB Gently undulating rises. Slopes 1-3%, relief <30m. |
| | | | | | DCC Undulating rises. Relief is 9-30m, slopes are 3-10%. |
| | | | | | Main soils: Clay loam over pedaric rod clay on rock D1 |
| | | | | | Main soils: <u>Clay loam over pedaric red clay on rock</u> - D1 and <u>Gradational calcareous clay</u> - A6 . |
| DEC | 0.1 | Undulating rises | D1C2 | D | Rises with duplex soils over basement rocks, typically |
| | 0.1 | 2 | A2 | | Bunyeroo Formation shale. Subsoils are calcareous. |
| DEm | 0.3 | Undulating rises | D1C2 | D | DEC Undulating rises. Relief is 9-30m, slopes are 3-10%. |
| | | | A2 | | DEm Undulating rises. Relief is 9-30m, slopes are 3-10%. |
| DEW | 1.2 | Undulating rises | D1C2 | D | DEW Undulating rises. Relief is 9-30m, slopes are 3-10%. |
| | | | A2 | | |
| | | | | | Main soils: <u>Clay loam over pedaric red clay on rock</u> - D1 , |
| | | | | | Gradational loam on rock -C2 and Calcareous clay loam |
| DNC | 2.8 | Undulating rises | D2D1 | D | on rock – A2 . Rises and plains with shallow texture contrast soils formed |
| DNC DNm | 0.4 | Undulating rises | D2D1 D2D1 | D | on fine-grained rocks, typically Brachina Shale Formation. |
| DNII | 0.4 | Plains | D2D1 | D | The soils have sandy clay loam surface textures. |
| DNW | 0.3 | Undulating rises | D2D1 | D | DNC Undulating rises. Relief is 9-30m, slopes are 3-10%. |
| | 0.2 | | | | DNm Undulating rises. Relief is 9-30m, slopes are 3-10%. |
| | | | | | DNU Plains with 10-50% scalded land |
| | | | | | Slopes are less than 1%, relief is less than 9m. |
| | | | | | DNW Undulating rises; 5-10% of land is scalded and gullied. |
| | | | | | Relief is 9-30m, slopes are 3-10%. |
| | | | | | |
| | | | | | Main soils: <u>Loam over red clay</u> - D2 and <u>Clay loam over</u> |
| DDC | <u> </u> | Capit | 0107 | | pedaric red clay on rock - D1. |
| DPG | 0.8 | Gently | D1D7 | D | Gently undulating rises with texture contrast soils formed on |
| | | undulating rises | | | weathered, kaolinised rock. Slopes 1-3%, relief <30m. Main soils: <u>Clay loam over pedaric red clay on rock</u> - D1 |
| | | | | | and Loam over poorly structured clay on rock - D7 . |
| DXC | 0.5 | Undulating rises | DILI | V | Landscapes with red duplex soils over basement rock or |
| Line | 0.0 | Pediments | D1L1 D2D4 | C | saprolite within one metre of the surface. More than 20% of |
| | | | C3 | Ŭ | soils are formed on outwash sediments. Soils formed on |
| DXH | 0.4 | Undulating rises | DILI | V | basement rock in complex with soils formed in outwash |
| | | Pediments | D2D4 | C | materials. Surface textures are loamy |
| | | | C3 | | DXC Undulating rises and pediment slopes. |
| | | | | | 1I |





| DVI | <u> </u> | Delliner | | 14 | Deliefie 0.20m element (2.1007 |
|------|----------|-------------------------|------------|----|---|
| DXI | 0.3 | Rolling rises | DILI | V | Relief is 9-30m, slopes are 3-10%. |
| | | Pediments | D2D4 C3 | С | DXH Undulating rises and pediment slopes with gullies affecting 10-20% of land. Relief is 9-30m, slopes are 3-10%. |
| | | | CS | | DXI Rolling rises and pediment slopes with gullies affecting |
| | | | | | 10-20% of land. Relief is 9-30m, slopes are 10-30%. |
| | | | | | |
| | | | | | Main soils: |
| | | | | | Rises: Rocky rises have shallow red duplex soils on rock. |
| | | | | | Clay loam over pedaric red clay on rock - D1 and Shallow |
| | | | | | stony soils on rock - L1. |
| | | | | | Pediments: Pediment slopes have red duplex and |
| | | | | | gradational soils. Loam over red clay - D2, Loam over |
| | | | | | pedaric red clay - D4, Friable gradational clay loam - C3. |
| EAC | 0.8 | Undulating rises | A2C2 | D | Undulating rises with gradational calcareous soils over hard |
| | | | D1 | | rock with more than 20% red texture contrast and/or non- |
| | | | | | calcareous red gradational soils. Relief 9-30m, slopes 3-10%. |
| | | | | | Main soils: <u>Calcareous loam on rock</u> -A2, <u>Gradational loam</u> |
| ED G | | | | _ | on rock -C2, Clay loam over pedaric red clay on rock - D1. |
| EBC | 0.7 | Undulating rises | L1 | D | Undulating rises with shallow, mostly calcareous, soils |
| | | | | | formed on quartzites and siltstones of the ABC Range |
| | | | | | Quartzite. Relief is 9-30m, slopes are 3-10%. Main soils: Shallow stony soils on rock - L1 . |
| EFB | 1.1 | Gently | A2D7 | D | Rises with shallow, mainly calcareous loamy soils formed on |
| LID | 1.1 | undulating rises | LI | D | calc-siltstones of the Wonoka or Tapley Hill Formations |
| EFC | 0.8 | Undulating rises | A2D7 | D | typically. |
| 21.0 | 0.0 | ondorannighioos | L1 | | EFB Gently undulating rises with only minor scalding. Slopes |
| EFW | 0.3 | Undulating rises | A2D7 | D | are 1-3%, relief is less than 30m. |
| | | C C | L1 | | EFC Undulating rises. Relief < 30m, slopes < 10%. |
| | | | | | EFW Undulating rises variably scalded with between 5 and |
| | | | | | 50% of land affected. |
| | | | | | |
| | | | | | Main soils: <u>Calcareous loam on rock</u> – A2 , <u>Loam over poorly</u> |
| EHB | 0.1 | Conthusianing | A2 | V | structured clay on rock - D7, Shallow stony soils on rock - L1. Rises and pediments on calcareous siltstones and |
| LIID | 2.1 | Gently sloping plain | AZ | v | limestones such as those of the Tapley Hill Formation, |
| | | Rocky outcrops | RR | L | Wonoka Formation and the ABC Range Quartzite of the |
| EHC | 1.0 | Undulating rises | A2L1 | V | Wilpena Group. The soil-landscape units are also |
| 2 | 1.0 | Undulating | A2 | Ċ | associated with Bunyeroo Formation shales with some |
| | | pediments | , <u>.</u> | Ũ | outwash contribution from calcareous Wonoka Formation |
| EHD | 0.2 | Rolling rises | A2L1 | V | calc-siltstones. |
| | | Pediments | A2 | С | EHB Gently sloping plains with rocky outcrops. |
| EHm | 0.2 | Undulating rises | A2L1 | V | Gently sloping Plains: Slopes are 1-3%, relief is less than 9m. |
| | | Undulating | A2 | С | Rocky rises: Slopes are 3-10%, relief is 9-30m. |
| | | pediments | | | EHC Undulating rises and pediments. |
| EHV | 0.3 | Gently | A2 | V | Relief is less than 30m, slopes are 3-10%. |
| | | undulating | | | EHD Undulating rises Rolling Rise: Rises with shallow calcareous soils on Tapley Hill |
| | | pediments | | | Formation calc-siltstones. Scalding and sheet erosion |
| | | Rocky rises | A2L1 | С | affects 20-50% of land, especially in proximity to severely |
| EHW | 3.9 | Undulating rises | A2L1 | V | gullied drainage lines. Relief is 9-30m, slopes are 10-30%. |
| | | Undulating | A2 | С | Pediments: Gently sloping plains with slightly deeper, silty |
| | | pediments | | | calcareous soils over calc-siltstones. |
| | | | | | Relief is less than 9m, slopes are 3-10%. |
| | | | | | EHm Undulating low rises on calcareous basement rock |
| | | | | | with deeper calcareous soils on lower slopes & drainage |
| | | | | | depressions. Scalding is moderate to severe on lower |
| | | | | | slopes. Relief is less than 30m, slopes are 3-10%. Severely |
| | | | | | scalded (40-50% of land affected) and gullied (20% of land |
| | | | | | affected). |
| | | | | | Main soils: |
| | | | | | Rises, crests: <u>Calcareous loam on rock</u> – A2 . |
| | | | | | Lower slopes: <u>Calcareous loam on rock</u> – A2 and <u>Shallow</u> stony soils on rock - L1. |
| | | l | l | 1 | SIULIY SUIS ULTUCK - LI. |





| | | | | | ETTY Conthy undulating padiments with really rises |
|-----|-----|---|------------|--------|---|
| | | | | | EHV Gently undulating pediments with rocky rises <i>Pediments:</i> <u>Gently undulating plains</u> , 50-50% of land is |
| | | | | | scalded. Slopes are 1-3%, relief is less than 9m. |
| | | | | | Rocky Rises: Undulating rises, 5-50% of land is scalded. |
| | | | | | Slopes are 3-10%; relief is 9-30m. |
| | | | | | EHW Undulating rocky rises with pediments. Relief is less than |
| | | | | | |
| | | | | | 30m, slopes are 3-10%. 5-50% of land is scalded. |
| | | | | | Main soils: |
| | | | | | Rocky rises: Shallow stony soils on rock - L1, Bare rock - RR. |
| | | | | | Plains and Pediments: Calcareous loam on rock – A2, Loam |
| | | | | | over poorly structured clay on rock - D7 and <u>Shallow stony</u> soils on rock - L1 . |
| ELB | 0.1 | Gently | L1C2 | D | Gently undulating rises-pediment complex with shallow soils |
| | | undulating rises | B2 | | formed on Appila Tillite Formation and alluvium. |
| | | 0 | | | Slopes are 1-3%; relief is 9-30m. |
| | | | | | Main soils: <u>Shallow stony soils on rock</u> - L1 , gradational red |
| | | | | | clay-loam over clay (<u>Red clayey pedaric Dermosols</u> - C2) |
| | | | | | and <u>Shallow calcareous loam on calcrete</u> - B2 . |
| ETC | 0.5 | Rolling rises | A2L1 | D | Rolling rises with very shallow soils and more than 20% |
| | | 2 | RR | | outcrop of ABC Range Quartzite Formation rocks, including |
| | | | | | siltstones and quartzite. Relief is 9-30m, slopes are 10-30%. |
| | | | | | Main soils: <u>Calcareous loam on rock</u> – A2 and <u>Shallow stony</u> |
| | | | | | soils on rock - L1. |
| EVC | 0.2 | Undulating rises | A2 | V | Undulating rises with rock outcrops and shallow calcareous |
| | | Rocky outcrops | RR | С | soils formed on fine-grained calcareous rocks. |
| | | | | | Slopes are 3-10%; relief is less than 9-30m. |
| | | | | | Main soils: <u>Calcareous loam on rock</u> – A2, <u>Bare rock</u> – RR. |
| EZC | 1.4 | Undulating rises | A2A5 | V | Rises with mostly shallow calcareous soils on weathered |
| | | | B2 | | siltstones of the Tapley Hill Formation and the Tarcowie |
| | | Rocky outcrops | RR | С | Siltstone. |
| EZG | 1.6 | Gently | A2A5 | V | EZC Undulating rises with rocky outcrops. |
| | | undulating rises | B2 | | Slopes are 3-10%, relief is less than 30m. |
| | | Rocky outcrops | RR | С | EZG Gently undulating rises with rocky outcrops. |
| EZm | 1.5 | Undulating rises | A2A5 | V | Gullying affects 10-20% of land, scalding affects around 5%. |
| | | | B2 | | Slopes are 3-10%, relief is less than 30m. |
| | | Rocky outcrops | RR | С | EZm Undulating rise-pediment complex. |
| EZn | 1.4 | Rolling rises | A2A5 | \vee | Relief is 9-30m, slopes are 3-10%. |
| | | | B2 | | EZn Rolling rise-pediment complex. Relief is 9-30m, slopes |
| | | Pediments | A2A5 | С | are 10-30%. |
| | | | B2 | | EZV Gently undulating rises and pediments with rocky outcrops. Slopes are 1-3%, relief is less than 30m. |
| EZV | 2.2 | Gently | A2A5 | \vee | EZW Undulating rises and pediments with rocky outcrops. |
| | | undulating rises | B2 | | Slopes are 3-10%, relief is less than 30m. |
| | | Pediments | A2A5 | С | EZX Rolling rises and pediments with rocky outcrops. |
| EQU | ~ 1 | the shall be a | B2 | | Relief is 9-30m, slopes are 10-30%. |
| EZW | 0.1 | Undulating rises | A2A5 B2 | V | |
| | | Rocky outcrops | RR | С | Main soils: |
| EZX | 0.7 | Rolling rises | A2A5 | V | Rises: <u>Calcareous loam on rock</u> – A2, <u>Rubbly calcareous</u> |
| | 0.7 | | B2 | v | loam on clay - A5 and Shallow calcareous loam on |
| | | Pediments | A2A5 | С | <u>calcrete</u> - B2 . |
| | | | B2 | Ĭ | Rocky outcrops: <u>Bare rock</u> – RR. |
| | | | | | Pediments: <u>Calcareous loam on rock</u> – A2, <u>Rubbly</u> |
| | | | | | calcareous loam on clay - A5 and <u>Shallow calcareous</u> |
| IAD | 0.0 | Caratha | D 450 | | loam on calcrete - B2 . |
| JAB | 0.2 | Gently | D4E2 | D | Pediments and outwash plains with clay loam surface |
| 1 | | undulating | C3 | | textures on texture contrast and gradational soils. Red clays |
| | | the second se | | | |
| TAT | 0.0 | pediments | D. (50 | 5 | are also common. |
| JAE | 0.3 | pediments Creek line | D4E2 C3 | D | are also common. JAB Gently undulating pediments. Slopes 1-3%, relief < 9m. JAE Creek line |





| IAC | 1 5 | Canth | | | IAC Conthe underlating an all and a |
|-----|-----|-----------------------------------|------------------|---|--|
| JAG | 1.5 | Gently undulating pediments | D4E2 C3 | D | JAG Gently undulating pediments. The slopes are 1-3%, gullying affects 10-20% of the land. Main soils: Loam over pedaric red clay - D4, <u>Red cracking</u> <u>clay</u> - E2 and <u>Friable gradational clay loam</u> - C3. JAH Undulating pediments. Gullying affects 5-10% of land. Slopes are 3-10%. |
| JAH | 0.3 | Undulating pediments | D4E2 C3 | D | Main soils: <u>Loam over pedaric red clay</u> - D4 , <u>Red cracking</u> <u>clay</u> - E2 and <u>Friable gradational clay loam</u> - C3 . D4 and C3 soils have surfaces which are highly susceptible to water |
| | | | | | erosion. |
| JFH | 1.2 | Undulating pediments | D2D4 C1 | D | Pediments with mostly red texture contrast soils with clay loam surfaces. Calcareous soils occupy more than 20% |
| JFo | 0.1 | Creek flat | D2D4 C1 | D | and other gradational soils occupy more than 10%. JFH Undulating pediments with gullying affecting 10-20% of land, scalding affects 0-5%. Slopes 3-10%, relief < 9m. JFo Creek flat with more than 20% with unstable gullies and 5-10% is scalded. |
| | | | | | Main soils: <u>Loam over red clay</u> - D2 , <u>Loam over pedaric red</u> <u>clay</u> - D4 and <u>Gradational sandy loam</u> - C1 . |
| JKE | 0.3 | Creek flat | D1A3 A5 | D | Creek flat with mostly sandy loam surfaced red duplex soils and calcareous gradational soils. More than 20% gullied. |
| | | | | | Main soils: <u>Sandy loam over clay on rock</u> - D1 , <u>Deep</u> <u>moderately calcareous sandy loam</u> - A3 and <u>Rubbly</u> <u>calcareous loam on clay</u> - A5 . |
| JME | 0.3 | Creek flat | D2D4 A6 | D | Pediments, plains and creek flats with stony, pedaric, red, texture contrast soils with quartz gravel on the surface. |
| JMH | 0.1 | Undulating pediments | D2D4 A6 | D | JME Creek flat with stable banks. JMH Moderately sloping pediment plain. Slopes are 3-10%; |
| JMm | 0.2 | Undulating pediments | D2D4 A6 | D | relief is less than 9m. Gullying affects 10-20% of land. JMm Undulating pediment; gullying affects more than 20% |
| JMV | 0.7 | Gently sloping plain | D2D4 A6 | D | of the land and over 50% is scalded. Slopes are 3-10%, relief is less than 9m. |
| JMY | 0.7 | Creek flat | D2D4 A6 | D | JMV Gently sloping plains with 10-50% scalded. Slopes are 1-3%, relief is less than 9m. JMY Creek flat with unstable banks; more than 20% of land is gullied and 10-5-% is scalded. Main soils: Loam over red clay - D2, Loam over pedaric red |
| JNA | 0.4 | Plains | D4D2 | D | <u>clay</u> - D4 and <u>Gradational calcareous clay</u> - A6 . Pediments with non-stony, pedaric, texture contrast soils |
| JNB | 0.1 | Gently sloping pediments | A5 D4D2 A5 | D | with calcareous subsoils. Surface textures are clay loamy most commonly. JNA Plains. Slopes are less than 1%, relief is less than 9m. JNB Gently sloping pediments. Slopes 1-3%, relief < 9m |
| JNE | 0.7 | Drainage line | D4D2 A5 | D | JNE Drainage line with stable banks. JNG Gently sloping pediments; 10-20% of land is gullied. |
| JNG | 2.8 | Gently sloping pediments | D4D2 A5 | D | Slopes are 1-3%, relief is less than 9m. JNI Gently sloping pediment plain; gullying affects up to 50% of |
| JNI | 0.0 | Gently sloping pediments | D4D2 A5 | D | land, most severe along watercourses. Scalding affects nearly 50% of land. Slopes are 1-3%, relief is less than 9m. |
| JNo | 1.4 | Gently sloping pediments | D4D2 A5 | D | JNo Creek flat 10-20% affected by gullying and 40-50% scalded. Scalding may be more than 50% locally. |
| JNU | 1.3 | Creek flats | D4D2 A5 | D | JNU Level plain; 5-10% scalded. JNV Gently sloping pediments. Scalding affects 10-50% of |
| JNV | 0.0 | Gently sloping pediments | D4D2 A5 | D | land. Slopes are 1-3%, relief is less than 9m. JNY drainage line with 5-10% scalding and minor (less than 5%) gullying. |
| JNY | 0.2 | Drainage line | D4D2 A5 | D | Main soils: <u>Loam over red clay</u> - D2 , <u>Loam over pedaric red</u> <u>clay</u> - D4 and <u>Rubbly calcareous loam on clay</u> - A5 . Red |





| IXB 0.8 Gent. D2 V JXC 0.5 Undulating D2 V Pediments with texture contrast soils in complex with rocky rises. Nocky rises JXC 0.5 Undulating D2 V XB Cently undulating pediments in complex with rocky rises. JXC 0.6 Centl. D2 V XIG Gently undulating pediments in complex with rocky rises. JXG 0.8 Gentl. D2 V XIG Gently undulating pediments in complex with rocky rises. JXG 0.8 Gentl. D2 V XIG Gently undulating pediments in complex with rocky rises. JXI 1 Undulating D2 V XIG Gently undulating pediments in complex with rocky rises. JXI 0.3 Roling D2 V XII Hundulating pediments in complex with rocky rises. JXI 0.3 Roling D2 V XII Roling pediments complex. NIXI Roling repediments complex. JXI 0.3 Roling D2 V YII Gently undulating pediments in complex. NIXI Gently undulating pediments in complex. NIXI Gently undulating pediments in complex. NIXI | JXB | | | | 1 | |
|---|-----------------------|-----|----------------|------|--------|--|
| pediments rises. Most solis have clay-hoarn surfaces. JXC 0.5 Undulating pediments D1 C XG JXC 0.5 Undulating pediments D1 C XG JXG 0.8 Gent. D2 V XG D1 C JXG 0.8 Gent. D2 V JXG Gently undulating pediments in complex with rocky rises. JXH 1.1 Undulating pediments in complex with rocky rises. D1 C Stopes are 31.0%. Gullying difects 10-20% of land. JXH 1.1 Undulating pediments in complex with rocky rises. D1 C Stopes are 10-30%. relef is up to 30m. Gullying is severe and offects more than 20% of land on pediments, but less than 3% on rises. Scalding affects around 10% of pediments and pediments in complex with rocky rises. JXH 4.0 Gent. D2 V File D1 C JXM 3.7 Undulating D2 V Stape Stape D1 C Stape Stape Stape D1 C Stape Stape Stape D1 | JXB | | | | 1 | |
| pediments ress. Most soils have clay-hoarn surfaces. JXC 0.5 Undulating pediments D C XG (entry undulating pediments in complex with rocky ress. Slopes are 3-10%. JXG 0.8 Gent. D2 V JXG (entry undulating pediments in complex with rocky rises. JXG 0.8 Gent. D2 V JXG (entry undulating pediments in complex with rocky rises. JXH 1.1 Undulating D2 V Slopes are 3-10%. Slopes are 3-10%. JXH 1.1 Undulating D2 V Slopes are 3-10%. Slopes are 3-10%. Slopes are 3-10%. Slopes are 1-3%. JXH rocky rises D1 C Slope are 1-3%. JXH rocky rises D1 C Slope are 1-3%. JXH rocky rises D1 C Slope are 1-3%. JXH rocky rises D1 C JXH rocky rises D1 C Slope are 1-3%. JXH Genthy undulating pedime | JXB | | | | | |
| pediments rises. Most solis have clay-hoarn surfaces. IXC 0.5 Undulating pediments D1 C IXG 0.5 Undulating pediments D2 V JXG 0.8 Gent. D2 V JXG D1 C Stopes are 3-10%. Stopes are 3-10%. pediments D1 C JXG Gently undulating pediments in complex with rocky rises. JXH 1.1 Undulating pediments in complex with rocky rises. D1 C JXH 1.1 Undulating pediments in complex with rocky rises. D1 C JXH 1.1 Undulating pediments in complex with rocky rises. D1 C JXH 1.0 Rocky rises D1 C Stopes are 3-10%. Gulying difects 10-20% of land. JXM 3.3 Rocky rises D1 C Stope are 1-30%. Stope are 1-30%. Stope are 1-30%. JXM 3.7 Undulating pediments D1 C Stope are 1-30%. Stope are 1-30%. JXM 3.7 Undulating pediments D1 C Sto | JAD | 0.0 | Cont | 20 | V | Padimanta with taxtura contract calls in complex with racia |
| Rocky rises D1 C IXB Genity undulating pediments in complex with racky rises. Supes are 1-3%. JXG 0.5 Undulating pediments D1 C JXG Genit D1 C JXG 0.8 Genit. D2 V JXG Genit | | 0.8 | | DZ | v | |
| JXC 0.5 Undulating pediments D2 V JXG 0.8 Gen1. D2 V JXG 0.8 Gen1. D2 V JXH 1.10 Undulating pediments in complex with rocky rises. Slopes are 3-10%. JXH JXH JXH IXH IXH <td< td=""><td></td><td></td><td></td><td>וח</td><td>C</td><td></td></td<> | | | | וח | C | |
| International and the second | JXC | 0.5 | | | | |
| IXG 0.8 Gent. Decliments D1 C Slopes are 3-10%. (Gent) undulating pediments in complex with rocky rises. Gullying affects 10-20% of land. Slopes are 1-3%. JXH JXH 1.1 Undulating D2 V JXH Undulating pediments in complex with rocky rises. Gullying affects 10-20% of land. JXH Complex rest 10-20% of land. JXH Complex rest 10-20% of land. JXH Complex rest 10-20% of land on pediments. Rocky rises D1 C JXH 0.3 Roling D2 V V Pediments V Pediments Ped | 5710 | 0.0 | | DZ | • | |
| JXG 0.8 pediments Gent. Rocky rises D1 C JXH 1.1 Unducting D2 V rises. Collying effects 10-20% of land. Stopes ore 1-3%. Stopes are 310%. Collying affects 10-20% of land. JXH 1.1 Unducting D2 V JXH Unducting gediments and rocky rises in complex. with rocky rises. JXI 0.3 Rolling D2 V JXI Rolling pediments and rocky rises in complex. JXI 0.3 Rolling D2 V JXI Rolling pediments and rocky rises. JXI 0.3 Rolling D2 V JXI Rolling pediments and rocky rises. JXI 4.0 Gent. D2 V JXI Gently unducting pediments in complex with rocky rises. JXI 4.0 Gent. D2 V JXI Gently unducting pediments in complex with rocky rises. JXI 4.0 Gent. D2 V JXI Gently unducting pediments in complex with rocky rise. JXW 2.8 Gent. D2 V JXI Gently unducting pediments in complex with rocky rise. JXW 2.8 Gent. | | | | D1 | С | |
| Racky rises D1 C JXII Unducting pediments in complex with rocky rises. JXH 1.1 Unducting D2 V Slopes are 3-10%. Gulying affects 10-20% of land. JXI Rocky rises D1 C Slopes are 3-10%. Gulying affects 10-20% of land on pediments. Jul less than 10% on rocky rises. JXI 0.3 Roling D2 V JXII 4.0 Gent. D2 V JXII 4.0 Gent. D2 V JXII 4.0 Gent. D2 V pediments D1 C JXII Gently undulating pediments in complex with rocky rises. Callying affects 10-20% of land on pediments, and less than 5% on rises. Scalding affects round 10% of pediments in complex with rocky rises. Callying affects around 10% of pediments and up to 50% in places. Rocky rises have less than 5% scalded land. Slopes are 1-3%. JXW 2.8 Gent. D2 V Rocky rises D1 C JXW Gontly undulating pediments in complex. With rocky rises. Scalding affects round 10% of pediments and up to 50% in places. Rocky rises in complex. Unstable gullies and up to 50% in places. Rocky rises or 10% or rises. JXW 4.6 Undulating D | JXG | 0.8 | | D2 | | |
| JXH 1.1 Undulating D2 V Slopes are 3-10%. Gullying affects 10-20% of land. JXI 0.3 Rocky rises D1 C JXI Rolling pediments and rocky rises in complex. JXI 0.3 Rocky rises D1 C JXI Rolling pediments and rocky rises in complex. JXI 0.3 Rocky rises D1 C JXI Gently undulating pediments in complex with rocky rises. JXI 4.0 Gent. D2 V V rises. Scalding affects 10-20% of land on pediments and less than 5% scalded land. Slopes are 1-3%. JXW 3.7 Undulating D2 V V rises. Scalding affects around 10% of pediments and up to 50% in places. Rocky rises in complex. With rocky rises in complex. With rocky rises. Calded land. Slopes are 1-3%. JXW 2.8 Gent. D2 V V Rocky rises D1 C JXW 4.4 Undulating D2 V V Scalded land. Slopes are 1-3%. JXm Gently undulating pediments in complex. With rocky rises are and up to 50% in places. Rocky rises have less than 5% Scalded land. Slopes are 1-3%. JXm Gently undulating pediments and rocky rise are not giftect nore than 20% of the land along the watercourse. JXW <td< td=""><td></td><td></td><td>pediments</td><td></td><td></td><td></td></td<> | | | pediments | | | |
| International State Display and the set of | | | | | С | |
| Rocky rises D1 C Slopes are 10-30%, relief is up to 30m. Gulkying is severe and affects more than 20% of land on pediments, but less than 10% on rocky rises. JXI 4.0 Gent. D2 V JXI 4.0 Gent. D2 V JXI Gently undulating pediments in complex with rocky rises. D1 C JXI Gently undulating pediments in complex with rocky rises. D2 V JXW 3.7 Undulating D2 V gediments D1 C C Scaled Ind. Slopes are 1-3%. JXW 2.8 Gent. D2 V JXm Gently undulating pediments in complex with rocky rises. JXW 2.8 Gent. D2 V JXm Gently undulating pediments in complex. JXW 2.8 Gent. D2 V JXm Creek line with rocky rises have less than 5% scalded land. Slopes are 3-10%. Rocky rises D1 C JXo Creek line with rocky rises in complex. JXW 4.6 Undulating D2 V Scalded Ind. Slopes are 3-10%. | JXH | 1.1 | | D2 | \vee | |
| IXI 0.3 Rolling D2 V JXI 0.3 Rolling D2 V JXI 0.3 Rolling D2 V JXI 4.0 Gent. D2 V JXI 4.0 Gent. D2 V Bockyrises D1 C V Than 5% on rockyrises. D1 Cockyrises D1 C JXM 4.6 Gent. D2 V V Scaled land. Slopes are 1-3%. JXm Gently undulating pediments in complex with rocky rises. Colloging affects or cond 10% of pediments and up to 50% in places. Rocky rises have less than 5% scaled land. Slopes are 3-10%. JXW 2.8 Gent. D2 V Scaled land. Slopes are 3-10%. JXW 4.6 Undulating D2 V Scaled land. Slopes are 3-10%. JXW 4.6 Undulating D2 V Scaled land. Slopes are 3-10%. JXW 4.6 Undulating D2 V Scaled land. Slopes are 3-10%. JXW 4.6 Undulating D2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| JXI Job Soluting pediments D2 V 10% on rocky rises. JXI Au Gent. D2 V JXI Gently undulating pediments in complex with rocky rises. Calding affects 10-20% of land on pediments. and less than 5% on rises. Scalding affects around 10% of pediments and up to 50% in places. Rocky rises have less than 5% scalded land. Slopes are 1-3%. JXW 3.7 Undulating D2 V JXm Gently undulating pediments in complex with rocky rises. Calding affects around 10% of pediments and up to 50% in places. Rocky rises have less than 5% scalded land. Slopes are 3-10%. JXW 2.8 Gent. D2 V pediments D1 C C Rocky rises D1 C Scaldel land. Slopes are 3-10%. JXW 4.6 Undulating D2 V pediments D2 V Scaldel land. Slopes are 3-10%. JXW 4.6 Undulating D2 V pediments D1 C JXV Gently undulating pediments and rocky rises are not guilled or scalded. JXW 4.6 Undulating D2 V JXV Gently undulating pediments and rocky rise. JXW file D1 C JXV Gently undulating pediments and rocky rise. | 13/1 | | | | | |
| JXI entry undulating pediments in complex with rocky rises. Gullying affects 10-20% of land on pediments, and less than 5% on rises. Scalding affects around 10% of pediments and y to 50% in places. Rocky rises have less than 5% or claded. And. Slopes are 1-3%. JXM 3.7 Unducting pediments V Rocky rises D1 C JXW 2.8 Gent. V Rocky rises D1 C JXW 2.8 Gent. D2 V Rocky rises D1 C Scalded land. Slopes are 1-3%. JXW 2.8 Gent. D2 V Pediments D1 C Scalded land. Slopes are 1-3%. JXW 4.6 Unducting pediments D1 C Rocky rises D1 C JXG Creek line with rocky rises have less than 5% Scalded land. Slopes are 3-10%. JXG Creek line with rocky rises complex. Unstable gullies affect nore than 20% of the land along the watercourse. JXW 4.6 Unducting pediments JXW Cently unducting pediments and rocky rise complex. JXW Unducting pediments D1 C JXW Unducting pediments in complex with rocky rise. | JXI | 0.3 | | D2 | \vee | |
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| JZm0.3Undulating pedimentsD4D1V D2The pediments have between 10-50% of gullied land, with 20-75% scalded. Rises are not affected.JZo0.3Creek flatD4A5DSlopes are 1-3% on pediments and 3-10% on rises.JZo0.3Creek flatD4A5DJZm Undulating pediments and rocky rise complex.Scalding affects nearly 50% and gullying affects more than 20% of pediments. Rises have less than 5% scalding and around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises.JZoJZoCreek flatKRCRecky outcropsRRCScalding affects nearly 50% and gullying affects more than 20% of pediments. Rises have less than 5% scalding and around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises.JZoCreek flat with rocky outcrops. >20% of creek banks have unstable gullies and more than 50% of the banks are scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4, | | | | D1 | С | |
| Rocky rises D1 C Slopes are 1-3% on pediments and 3-10% on rises. JZo 0.3 Creek flat D4A5 D Rocky outcrops RR C Scalding affects nearly 50% and gullying affects more than 20% of pediments. Rises have less than 5% scalding and around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises. JZo JZo Vertical and around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises. JZo Creek flat JZo Creek flat with rocky outcrops. >20% of creek banks have unstable gullies and more than 50% of the banks are scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4, | JZm | 0.3 | | | | The pediments have between 10-50% of gullied land, with |
| JZo 0.3 Creek flat D4A5 D JZm Undulating pediments and rocky rise complex. Scalding affects nearly 50% and gullying affects more than 20% of pediments. Rises have less than 5% scalding and around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises. JZo Undulating pediments and rocky rise complex. Scalding affects nearly 50% and gullying affects more than 20% of pediments. Rises have less than 5% scalding and around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises. JZo Creek flat with rocky outcrops. >20% of creek banks have unstable gullies and more than 50% of the banks are scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4, | | | | D2 | | |
| Rocky outcrops RR C Scalding affects nearly 50% and gullying affects more than 20% of pediments. Rises have less than 5% scalding and around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises. JZo Creek flat with rocky outcrops. >20% of creek banks have unstable gullies and more than 50% of the banks are scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4, | | | | | С | |
| 20% of pediments. Rises have less than 5% scalding and around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises. JZo Creek flat with rocky outcrops. >20% of creek banks have unstable gullies and more than 50% of the banks are scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4, | JZo | 0.3 | | | | |
| around 15% gullying. Slopes are 3-10%; relief is less than 9m on pediments and 9-30m on rises. JZo Creek flat with rocky outcrops. >20% of creek banks have unstable gullies and more than 50% of the banks are scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4, | | | Rocky outcrops | RR | С | |
| on pediments and 9-30m on rises. JZo Creek flat with rocky outcrops. >20% of creek banks have unstable gullies and more than 50% of the banks are scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4, | | | | | | |
| JZo Creek flat with rocky outcrops. >20% of creek banks have unstable gullies and more than 50% of the banks are scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4, | | | | | | |
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| scalded. Rocky outcrops are not scalded or gullied. Main soils: Pediments and plains: Loam over pedaric red clay - D4 , | | | | | | |
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| Pediments and plains: Loam over pedaric red clay - D4, | | | | | | , , , |
| | | | | | | |
| Loam over clay on rock- D1 and Loam over red clay - D2 | | | | | | Loam over clay on rock- D1 and Loam over red clay - D2 |
| with minor <u>Rubbly calcareous loam on clay</u> - A5 . | | | | | | |
| Rocky rises: Loam over clay on rock- D1, 10-30% bare rock. | | | | | | |
| KCB 2.3 Gently C3A3 D Plains and pediments of outwash sediments with | KCB | 2.3 | | C3A3 | D | |
| undulating and aradational soils with sandy clay loam surface textures. Soils | | | undulating | | | gradational soils with sandy clay loam surface textures. Soils |





| <u>г</u> | | a alta di l | | 1 | |
|----------|----------|-------------------------|---------|---|---|
| VCE | <u> </u> | pediments | <u></u> | | are mostly not calcareous throughout. |
| KCE | 0.4 | Creek line | C3A3 | D | KCB Gently undulating pediments. |
| KCC | ~ 1 | Cart | M3 | | Slopes are 1-3%; relief is less than 9m. |
| KCG | 2.1 | Gently | C3A3 | D | KCE Creek line. |
| | | undulating | | | KCG Gently undulating pediments with 10-20% gullying and minor scalding, up to 5%. Slopes 1-3%, relief is less than 9m. |
| KOU | 0.4 | pediments | <u></u> | | |
| KCH | 0.4 | Undulating | C3A3 | D | KCH Undulating pediments, with 10-20% gullied and minor scalding, up to 5%. Slopes are 3-10%; relief is less than 9m. |
| | | pediments | | | |
| | | | | | Main soils: Friable gradational sandy clay loam - C3 and |
| | | | | | Deep moderately calcareous sandy loam - A3. |
| | | | | | Additionally, <u>Deep gravelly soil</u> - M3 is found associated with |
| | | | | | creek flats. |
| KGB | 1.7 | Gently | C3C1 | D | Pediments and plains with sandy surface-textured red |
| | | undulating | | | gradational soils with calcareous subsoils. |
| | | pediments | | | KGB Gently undulating pediments, with minor scalding and |
| KGE | 0.6 | Creek flat | C3C1 | D | gullying. Slopes are 1-3%; relief is less than 9m. |
| KGG | 0.8 | Gently | C3C1 | D | KGE Creek flat. |
| | 0.0 | undulating | | - | KGG Gently undulating pediments, with 10-20% of land |
| | | pediments | | | affected by gullying and 10-50% scalded. |
| KGl | 0.1 | Gently | C3C1 | D | Slopes are 1-3%, relief is less than 9m. |
| | | undulating | | | KGI Gently undulating pediments with slight scalding (less |
| | | pediments | | | than 5%) and minor gullying which is locally more severe |
| | | | | | along drainage lines. Slopes are 1-3%; relief is less than 9m. |
| | | | | | Main soils: Friable gradational sandy clay loam - C3 and |
| | _ | | | | <u>Gradational sandy loam</u> - C1. |
| KHB | 0.7 | Gently | A4D4 | D | Gently undulating pediments formed on outwash with red |
| | | undulating rises | C1 | | gradational sandy soils, calcareous at depth. |
| | | | | | Slopes are 1-3%, relief is less than 9m. |
| | | | | | Main soils: Deep (rubbly) calcareous sandy loam -A4, Loam |
| KIH | 0.1 | Pediment | C1A2 | V | over pedaric red clay - D4, Gradational sandy loam - C1. |
| КІП | 0.1 | realment | D3 | v | Pediment-basement rock complex with mostly gradational soils. Soils which have carbonate free surfaces are |
| | | Undulating rises | L1 A2 | L | dominant. Soils which are calcareous throughout are |
| | | | D1 | | common but not dominant. |
| KIV | 2.6 | Pediment | C1A2 | V | KIH Undulating pediments and rises; 10-50% of pediments are |
| 121 8 | ∠.0 | Gently | LICI | L | scalded. Pediment slopes are 3-10%, relief is less than 9m. Relief |
| | | undulating rises | A2 | | on rises is 9-30m, slopes are 3-10%. |
| KIW | 0.2 | Pediment | C1A2 | V | KIV Gently sloping pediments with undulating basement rises. |
| *** ** | 0.2 | | D3 | ľ | 5-10% of land on pediments is scalded. |
| | | Undulating rises | L1A2 | L | Pediment slopes are 1-3%. |
| | | 2.1.6.6.6.11.19.1000 | D1 | - | Rises relief is 9-30m, slopes are 3-10%. |
| | | | | | KIW Undulating pediments and rises; 5-10% of pediments are |
| | | | | | scalded and gullied. Pediment slopes are 3-10%, relief is less |
| | | | | | than 9m. Relief on rises is 9-30m, slopes are 3-10%. |
| | | | | | |
| | | | | | Main soils: |
| | | | | | Pediment: Gradational sandy loam - C1, Calcareous loam |
| | | | | | <u>on rock</u> – A2 . |
| | | | | | Rises: <u>Shallow stony soils on rock</u> - L1, <u>Gradational sandy</u> |
| | | | | | loam - C1, Calcareous loam on rock – A2 and Loam over |
| KJB | 0.0 | Conthy | C4C3 | | poorly structured red clay - D3. |
| КJД | 0.0 | Gently | | D | Pediments with clay loam surface-textured red gradational |
| | | undulating pediments | A6 | | soils with calcareous subsoils and gradational calcareous soils. |
| KJC | 0.1 | Undulating | C4C3 | D | KJB Gently undulating pediments. Slopes 1-3%, relief < 9m. |
| NJC | 0.1 | pediments | A6 | | KJC Undulating pediments. Slopes 3-10%; relief < 9m. |
| KJE | 0.3 | Creek line | C4C3 | D | KJE Creek line. |
| IXJE | 0.5 | | A6 | | KJG Gently undulating pediments with up to 20% gullying. |
| KJG | 0.3 | Gently | C4C3 | D | Slopes are 1-3%; relief is less than 9m. |
| 1210 | 0.5 | undulating | A6 | | KJH Undulating pediments with up to 20% gullying. |
| | | pediments | 7.0 | | Slopes are 3-10%, relief is less than 9m. |
| KJH | 0.3 | Undulating | C4C3 | D | KJh Undulating pediments with more than 20% gullying and |
| 12011 | 0.5 | ondolaring | | | |



| | | pediments | A6 | | 10-50% scalding. Soils are moderately saline throughout. |
|-----|-----|---------------|------|--------|---|
| KJh | 0.2 | Undulating | C4C3 | D | Slopes are 3-10%, relief is less than 9m. |
| | 0.2 | pediments | A6 | | KJm Undulating pediments with up to 50% scalding and 5- |
| KJm | 0.1 | Undulating | C4C3 | D | 10% gullying. Subsoils are saline. |
| | | pediments | A6 | | KJq Gently undulating pediments with 10-50% scalded land. |
| KJq | 1.2 | Gently | C4C3 | D | Soils have moderate salinity throughout. |
| - | | undulating | A6 | | Slopes are 1-3%, relief is less than 9m. |
| | | pediments | | | KJV Gently undulating pediments with up to 50% scalding |
| KJV | 0.5 | Gently | C4C3 | D | and less than 5% gullying. Slopes 1-3%; relief is less than 9m. |
| | | undulating | A6 | | Main soils: <u>Hard gradational clay loam</u> - C4 , <u>Friable</u> |
| | | pediments | | | gradational sandy clay loam - C3 and Gradational |
| | | | | | <u>calcareous clay</u> - A6 . |
| KLB | 0.6 | Gently | A5 | D | Pediments with clay loamy calcareous soils. |
| | | undulating | | | KLB Gently undulating pediment |
| | | pediment | | | Slopes are 1-3%, relief is less than 9m. |
| | | | | | KLH Undulating pediment; gullying affects 5-10% of land, |
| KLH | 0.4 | Undulating | A5 | D | around 5% is scalded. Slopes: 3-10%, relief is less than 9m. |
| | | pediment | , | | Main soils: <u>Rubbly calcareous clay loam on clay</u> - A5 . |
| | | pournorm | | | Minor soils: <u>Calcareous clay loam on rock</u> – A2 , |
| | | | | | Gradational red-brown clay loam over rock-C2 and |
| VOI | 0.0 | Dediment | A.E. | N/ | <u>Shallow calcareous loam on calcrete</u> – B2 . |
| KQl | 0.2 | Pediment | A5 | V C | Gently undulating pediments with shallow basement-rises in |
| | | Shallow rises | A2 | C | complex and with mostly calcareous gradational soils. Up to 50% of land on pediments is scalded and up to 10% is |
| | | | | | gullied. Rises have little or no scalds and gullies. |
| | | | | | Slopes are 1-3%, relief is less than 9m. |
| | | | | | Main soils: <u>Rubbly calcareous loam on clay</u> - A5 on |
| | | | | | pediments and <u>Calcareous loam on rock</u> – A2 on rises. |
| XGS | 1.6 | Drainage | M3M1 | D | Drainage depressions and watercourses with stable banks |
| | ' | depression | | | and with gravelly loamy alluvial soils. |
| | | -1 | | | Main soils: <u>Deep gravelly soil</u> - M3 , <u>Deep alluvial loam</u> - M1 . |
| XHJ | 0.8 | Creek flat | M1C1 | D | Drainage lines with mostly coarse textured soils. |
| | | | C3 | | XHJ Creek flat with stable gullies. |
| XHT | 1.1 | Drainage line | M1C1 | D | XHT More than 20% of banks are eroded. |
| | | - | C3 | | Main soils: Deep alluvial loam - M1, Gradational sandy |
| | | | | | loam - C1 and Friable gradational sandy clay loam - C3. |

PROPORTION codes assigned to Soil Landscape Unit (SLU) components:

- D Dominant in extent (>90% of SLU)
- V Very extensive in extent (60–90% of SLU)
- E Extensive in extent (30–60% of SLU)
- C Common in extent (20–30% of SLU)
- L Limited in extent (10–20% of SLU)
- M Minor in extent (<10% of SLU)

Detailed soil profile descriptions:

- A2/L1 <u>Shallow calcareous loam (Paralithic, Hypercalcic / Lithocalcic Calcarosol)</u>(A2) OR <u>Shallow stony</u> <u>loam (Calcareous, Paralithic, Leptic Tenosol)</u>(L1)
- A3 <u>Deep moderately calcareous (sandy) loam (Calcic Calcarosol)</u> Calcareous (sandy) loam topsoil grading into loamy-clay loamy subsoil without a significant CO₃ build-up in the subsoil (<20% CO₃ in subsoil). Pediment type Calcarosols.
- A4 Deep (rubbly) calcareous loam (Hypercalcic-Lithocalcic Calcarosol) Calcareous sandy-clay loamy topsoil grading into loamy-clay loamy subsoil with a significant CO₃ buildup in the subsoil. Often rubbly. Soil usually >120 cm in depth
- A5 <u>Rubbly calcareous loamy sand on clay (Supracalcic-Lithocalcic Calcarosol</u> on clay) Calcareous loamy sand topsoil grading into loamy-clay loamy subsoil on a clayey substrate. Usually rubbly. Clayey substrate occurs at >60 cm and <120 cm.
- A6 <u>Gradational calcareous clay loam (Pedal Hypercalcic-Lithocalcic Calcarosol</u> on clayey subsoil) Calcareous loams to clay loams grading into brown-red clay. Often rubbly.





- **B2** <u>Shallow calcareous loam on calcrete (Petrocalcic Calcarosol-Rudosol)</u> Shallow, grey to reddish calcareous sandy to clay loamy soil on calcrete. This includes calcareous Petrocalcic Rudosols.
- C1 <u>Gradational sandy loam (Calcic-Hypercalcic Kandosol-Calcarosol)</u> Friable sandy to loamy topsoil grading into massive red-brown alkaline loamy to clay loamy subsoil.
- C2 <u>Gradational loam on rock (Calcic / Hypercalcic Red Dermosol)</u> Loam to clay loam grading to a friable red clay with soft Class I carbonate within 50 cm, grading to weathering rock within 100 cm.
- C3 <u>Gradational clay loam (Calcic / Hypercalcic Red Dermosol)</u> Loam to clay loam grading to a friable red clay with soft Class I carbonate within 50 cm, grading to alluvium within 100 cm.
- C4 <u>Hard gradational clay loam (Calcic-Hypercalcic Sodic Red Dermosol-Calcarosol)</u> Topsoil <30 cm over a poorly structured subsoil. Often hard setting clay loam to loam grading into prismatic/poorly structured/sodic red (-brown) alkaline clayey to clay loamy subsoil. Includes eroded former texture contrast soils.
- D1 Loam over red clay on rock (Hypercalcic / Calcic, Red Chromosol / Sodosol) Medium thickness hard gravelly loam over red clay, friable and finely structured, calcareous with depth, grading to weathering basement rock within 100 cm.
- D2 <u>Hard loam over red clay (Calcic / Hypercalcic, Red Chromosol)</u> Hard setting sandy loam to clay loam (with variable quartzite stones) abruptly overlying a well structured red clay with soft Class I carbonate at depth.
- D3 Hard clay loam over dispersive red clay (Calcic, Red Sodosol / Sodic, Calcic, Red Chromosol) Medium thickness hard clay loam with up to 50% quartzite stones over a coarsely prismatic dispersive red clay, calcareous with depth over stony and clayey alluvium.
- D4 Loam over red friable clay (Calcic, Pedaric, Red Sodosol) Thin to medium thickness fine sandy loam to loam over a finely structured friable red clay, calcareous from about 50 cm, grading to fine or medium grained alluvium.
- **D7** Loam over dispersive red clay on rock (Calcic / Hypercalcic, Red Sodosol) Medium to thick hard sandy loam to clay loam sharply overlying a coarsely structured dispersive red clay, calcareous with depth, grading to highly weathered kaolinized siltstone.
- E2 Red cracking clay (Epicalcareous, Epipedal, Red Vertosol) Dark strongly structured clay grading to a well structured red calcareous medium to heavy clay continuing below 100 cm. Often containing gypsum segregations in subsoil.
- L1 Shallow stony loam (Paralithic, Leptic Tenosol) Shallow stony loam, often calcareous throughout or with depth, overlying weathering rock shallower than 50 cm.
- M1 <u>Alluvial loam (Orthic Tenosol)</u> Very thick loam with variable gritty or more-clayey lenses, formed over recent alluvium.
- M3 Deep gravelly soil (Gravelly Kandosol-Tenosol) Deep uniform loamy alluvial soils with at least 50% gravel in the major part of the profile.
- **RR** Bare rock

Further information: DEWNR Soil and Land Program





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