



LEGEND 1 Map unit description

Map unit	Major component soil series	Description	S.W.T.	Landform and slope
1	Da	Red to yellowish red clayey sand 150cm+ over limestone. Associated with limestone outcrops. pH - neutral.	N.D.	Ridge crests and upper slopes 2-8%
2	Sp	Brown weak clayey sand becoming yellow-brown with depth 200cm+. Associated with limestone. pH - neutral.	N.D.	Ridge crests and upper slopes 2-8%
3	Ka	Yellowish brown to brownish yellow weak clayey sand 200cm+. pH - neutral.	N.D.	Mid and upper slopes 2-8%
4	Co	Pale brown sand to 50cm over brownish yellow weak clayey sand 200cm+. pH - neutral.	N.D.	Mid and lower slopes 2-5%
5	Co1	Pale brown to light grey sand to 90cm over brownish yellow weak clayey sand 200cm. pH - weak acid to neutral.	N.D.	Mid and lower slopes 2-5%
6	Co2	Light grey sand 50-150cm over pale yellow to yellow sand. pH - weak acid to neutral.	N.D.	Mid and lower slopes or low dune crests 2-10%
7	Ba	Light grey sand 200cm+. pH - acid to neutral.	180cm+	Lower slopes and flat areas 0-3%
8	Na	Grey sand to light grey sand over dark iron-organic pan over pale sand 200cm+. greyed clayey layers may be present at depth. pH - acid to neutral.	100-200cm	Lower slopes and flat areas 0-3%
9	Be	Humic dark grey sand to 50cm over grey sand to 120cm over whole coloured or mottled grey-brown sand or clay. Limestone or hardpan may occur at depth. pH - acid to neutral.	50-120cm	Flat areas adjacent to swamps 0-1%
10	Ga	Reddish brown to brown loamy sand to 100cm+ becoming pale sand with depth. pH - acid to neutral.	100-200cm	Flat areas adjacent to drainage lines 0-1%
11	Wa	Light grey sand over pale brown to yellow sand to 150cm over pale sand. pH - acid to neutral.	160-240cm	Level terraces
12	Br	Dark massive clay. pH - acid.	N.D.	Old terrace 0-1%
13	Bb	Brown mottled duplex soils. pH - acid.	N.D.	Old terrace 0-1%
14	Bu	Brown massive clay, grey brown duplex soils and grey cracking clay. pH - predominantly acid.	50-100cm	Alluvial plain 0-1%
15	Kk	Dark grey massive clay and dark grey to yellow brown mottled duplex soils. pH - predominantly acid.	50-100cm	Alluvial plain 0-1%
16	Ed	Grey brown duplex soils and grey to dark grey cracking clays. pH - neutral to alkaline.	50-100cm	Alluvial plain 0-1%
17	Ed	Grey-brown and grey mottled duplex soils. pH - neutral.	50-100cm	Alluvial plain 0-1%
18	Ne	Grey-brown, brown and grey duplex soils. pH - neutral.	N.D.	Old terrace 0-1%
19	Bo	Humic black and grey cracking clays. pH - neutral to alkaline.	10-80cm	Alluvial plain 0-1%
20	Bg	Dark brown silty clay, dark cracking clay and grey brown mottled duplex soils. pH - neutral to alkaline.	50-150cm	Alluvial plain 0-1%
21	Bm	Grey brown duplex soils. pH - acid.	N.D.	Sandplain flat 0-2%
22	Kk	Dark grey massive clays, swamp soils and unnamed alluvial soils. pH - neutral to alkaline.	50-100cm	Alluvial plain 0-1%

Note
S.W.T. is the depth to the groundwater table or zone of saturation; it may be static or seasonally perched.
N.D. = water table depth not determined
Soil complex map units where underlined indicate the dominance of that unit within the complex e.g. 2+3, 2=30%, 3=50%.

LEGEND 2 Map unit characteristics

Map unit	Dominant soil ≥ 60%	Associated soil ≤ 30%	Inclusions ≤ 10%
1	Da	Sp	Ka
2	Sp	Ka	Da
3	Ka1, Co	Ka, Co	Sp
4	Co	Co2, Ka1	
5	Co1	Co, Co2	Ba
6	Co2	Co1, Na	Ba
7	Ba	Co2, Na	
8	Be	U	
9	Ga	Wa, Re	U
10	Wa	Be, Ba	U

Soil associations	Two dominant soils > 40/40%	Inclusions < 20%
2+3	Sp, Ka	Ka1
3+4	Ka1, Co	Co1
4+5	Co, Co1	Co2
5+6	Co1, Co2	Na
6+7	Co2, Ba	Be
7+8	Ba, Na	Be
8+9	Ba, Be	Na

Alluvial complexes	Major soils	Inclusions < 20%
10+11	Ga, Wa	Be, Ba
11+12	Wa, Be	U, Ba
12	Br	Be, Wa
13	Bb	Be
14	Bu	Kd, Mb, U
15	Kk, U	Be, Wa
16	Ed, Bo, Kd	Wa, Be
17	Ed, Be, Wa	
18	Ne, Ed	Be, Co
19	Bo, Kd	Be, Wa
20	Bg, Bo	Ed, Ga, Be, Wa
21	Bm	Be, Co1, Ba
22	Kk, Be, U	Wa

Soil series

- Ap Alb
- Ba Bathurst
- Be Beaudesert
- Be Beaudy
- Bg Bulgara
- Bm Bidamina
- Bo Bookina
- Bp Bedmanup
- Br Bree
- Bu Burch
- Ca Collard
- Co Cowalla shallow B horizon
- Co1 Cowalla moderately deep B horizon
- Co2 Cowalla deep B horizon
- Co3 Cooper
- Co4 Collett
- Da Darrak
- Ed Edwards
- Ga Garbanup
- Gu Gull
- Ha Harris
- Je Jerlack
- Ka Karakata
- Ka1 Karakata-1
- Kd Kaditup
- Ks Karston
- Kn Koorian
- Mb Millbank
- Mi Mirijil
- Mu Moorakine
- Na Nabeano
- Ne Neeragby
- Pe Peppin
- Re Regan
- Rn Ross
- Sp Speerswood
- U Unassigned clays
- Wa Waterville
- Wh White

Bibliographic reference
Smolinski, H.J. and Scholz, G.G.H. (1997). "Soils of the West Gingin area". (Scale 1:50,000 2 map sheets) Land Resource Map No. 18/1. To accompany Smolinski, H.J. and Scholz, G.G.H. (1997). "Soil assessment of the West Gingin area". Land Resources Series No. 15.

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Reference
Projection: Universal Transverse Mercator
Grid: AMG84, UTM zone 50
Source data: Field survey and interpretation of aerial photography
Aerial photography: Job no. 850042, 1:20,000, March 1986, colour
Use of map: This map is designed for use at the published scale. Technical queries should be directed to the Natural Resources Assessment Group, Agriculture Western Australia.

