QUEENSLAND

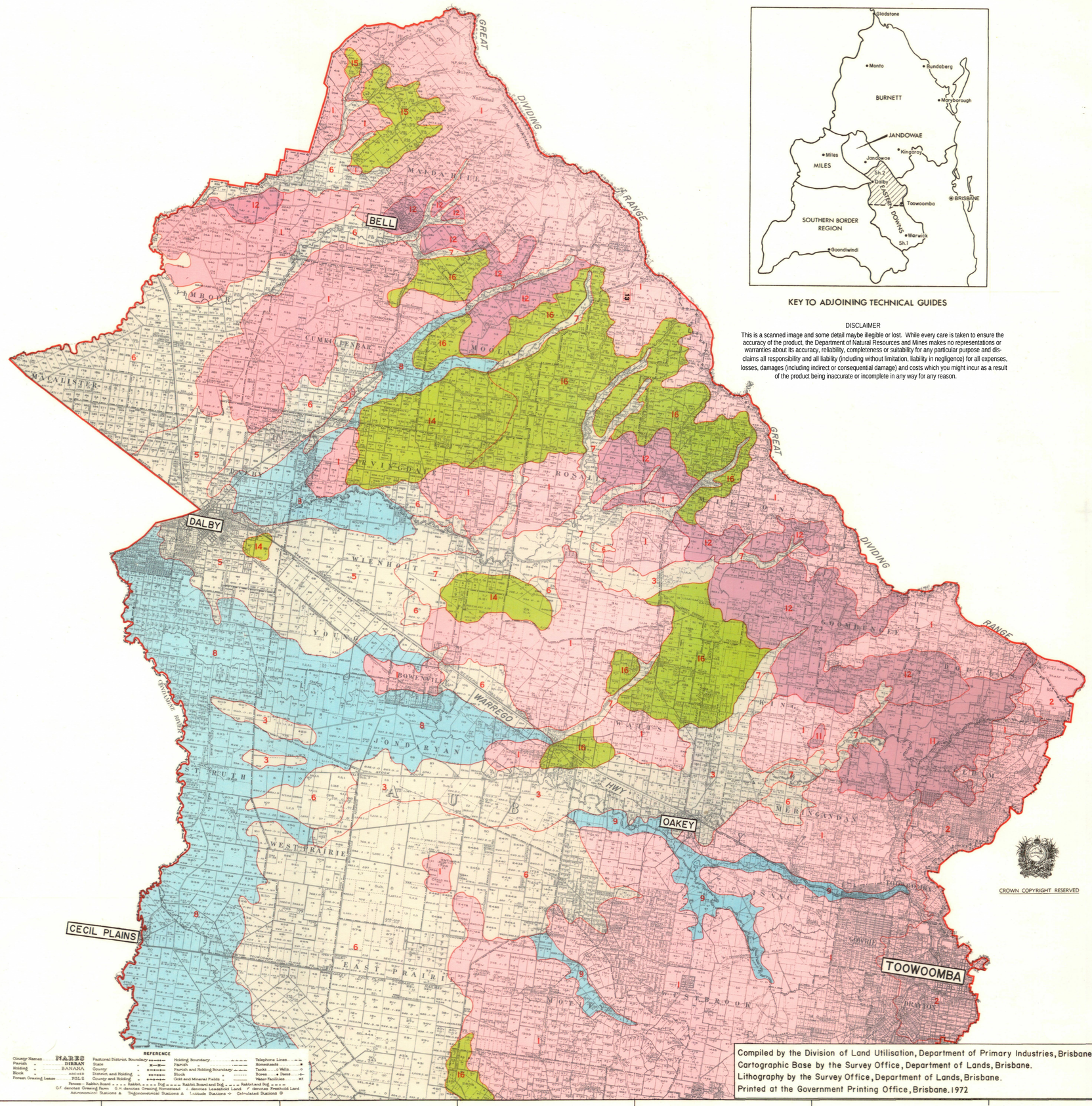
DEPARTMENT OF PRIMARY INDUSTRIES

EASTERN DOWNS TECHNICAL GUIDE

LAND SYSTEMS MAP

Sheet 2 of 2

by B.E. Vandersee



KEY TO ADJOINING TECHNICAL GUIDES

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SCALE 1: 200,000

3 0 3 6 9 12 Miles

5 0 5 10 15 20 Kilometres

LEGEND

	LAND SYSTEM	PHYSIOGRAPHY	BRIEF SOIL DESCRIPTION	ASSOCIATED VEGETATION	AREA IN HECTARES
TERTIARY BASALT LANDS					
1	WESTBROOK	Hilly to undulating country derived from Tertiary basalts.	Vary from shallow, stony, brown, grey brown or grey, to moderately deep, grey or grey brown self mulching clays.	Varies from layered open forest to closed forest of "scrub species" with some brigalow, belah and wilga to grassy open woodland of mountain coolibah with some areas of silver-leaved ironbark and narrow-leaved ironbark woodland.	451, 300
2	TOOWOOMBA	Undulating to hilly, plateau and plateau remnants of lateritized Tertiary basalts.	Moderately deep to deep, friable red or red brown clays. Some areas of friable, yellow earths.	Layered open forest of Sydney blue gum, tallowwood, white stringybark and red bloodwood with an understorey of wattles and black sheoak.	17, 400
OLDER ALLUVIAL PLAINS					
3	OAKEY	Alluvial plains derived from Tertiary basalts and Jurassic shales and sandstones.	Moderately deep to very deep, red brown loams to clay loams overlying brown or yellow brown clays.	Grassy open woodland of poplar box.	27, 250
4	BROOKSTEAD	Alluvial plains derived from Tertiary basalts and Jurassic shales and sandstones.	Chief soils are very deep, grey, cracking clays.	Grassy open woodland of poplar box.	17, 650
5	DALBY	Mixed alluvial plains derived from Tertiary basalts and Jurassic shales and sandstones.	Chief soils are very deep, grey, cracking clays with associated areas of dark duplex soils.	Grassy open woodland of poplar box.	27, 550
6	JIMBOUR	Almost flat alluvial plains derived from Tertiary basalts.	Very deep, dark, self mulching, cracking clay soils.	Blue grass grassland.	105, 800
7	MILLMERRAN	Mixed alluvial plains and old river terrace formations.	Chief soils are moderately deep to very deep, dark, grey brown to brown calcareous clays and clay loams overlying dark brown clays.	Grassy woodland of poplar box.	25, 900
RECENT ALLUVIAL CLAYS					
8	TIPTON	Alluvial plains with associated river terraces and channels subject to periodic flooding.	Mixed alluvial clay soils. Mainly very deep, dark, cracking clays, with some duplex soils on the low banks and rises.	Grassy woodland of river red gum, Queensland blue gum, belalie, with some poplar box and rough-barked apple.	126, 150
9	ALLORA	Alluvial plains derived mainly from adjacent Tertiary basalts.	Generally very deep, dark, cracking clays. Associated in the south are lighter textured alluvial soils.	Grassy woodland of Queensland blue gum, rough-barked apple and weeping willow and blue grass grassland.	76, 400
LIGHT TEXTURED ALLUVIAL					
10	LEYBURN	Alluvial plains derived from adjacent Mesozoic and Palaeozoic sandstones.	Deep to very deep, grey and dark grey sand loam to clay loams overlying clays.	Open forest to woodland. Predominantly poplar box with gum-topped box, narrow-leaved ironbark, Queensland blue gum and rough-barked apple.	14, 200
FORESTED RESIDUALS					
11	WARWICK	Undulating plains to low hills of Jurassic sandstones.	Chief soils are moderately deep to deep, hard setting loams overlying yellow, clayey subsoils.	Layered open forest to shrubby woodland of narrow-leaved ironbark, gum-topped box and rough-barked apple, with some bull oak, spotted gum, Queensland blue gum and wattles.	120, 250
12	GOOMBUNGEE	Low to moderately high hills. Some steep slopes and scarps. Jurassic sandstones.	Loamy or sandy lithosols on scarps and hill tops with moderately deep, duplex soils on the lower slopes.	Layered open forest to shrubby woodland of spotted gum, narrow-leaved ironbark, rusty gum, gum-topped box and wattles.	32, 950
BRIGALOW LANDS					
13	EMU VALE	Undulating to hilly country derived from Jurassic shales and sandstones.	Moderately deep, brown and grey brown, cracking clays associated with clay loams overlying dark clays. Some slight gilgai micro-relief.	Open forest to layered open forest of belah, wilga and ribbon box with some layered closed forest (softwood scrub).	27, 800
14	MOOLA	Undulating to hilly country derived from Jurassic shales and sandstones.	Moderately deep, dark grey loams and clay loams overlying clays. Deep, cracking clays are associated with the drainage lines.	Layered open forest of belah, brigalow and wilga with some layered closed forest (softwood scrub).	20, 900
15	BELL	Undulating country derived from Jurassic shales and sandstones.	Moderately deep, reddish brown, sandy loams to clay loams overlying brown clays. Some lithosols occur on knolls.	Layered open forest of brigalow, belah, wilga and gum-topped box, with "scrub" species on knolls and poplar box woodland along the drainage lines.	4, 550
16	ACLAND	Undulating to hilly country derived from Jurassic shales and sandstones.	Moderately deep, brown and grey brown loams and clay loams overlying dark clays. Grey, cracking clays occur on the slopes.	Layered open forest of brigalow, belah and wilga, with some poplar box. Layered closed forest (softwood scrub) occurs on some hill crests.	46, 850
17	ROCKY CREEK	Undulating to hilly country derived from Jurassic shales and sandstones, with some basalt intrusions.	Shallow to moderately deep, grey clays associated with clay loams overlying brown clays. Deep, grey, cracking clays occur on the lower slopes.	Layered open forest of brigalow, belah, and wilga with some poplar box.	6, 100
GRANITE AND TRAPROCK LANDS					
18	GREYMARE	Dissected hilly country derived from intrusive and metamorphic rocks of the upper Permian and Triassic era.	Soils vary from lithosols to moderately deep, grey, sandy loams and sands. Granite tors often occur on the surface.	Layered open forest of narrow-leaved ironbark, gum-topped box, New England blackbutt and yellow box with some areas of spotted gum, rusty gum, gum-topped box and wattles.	52, 250
19	PALGRAVE	Undulating to deeply dissected Palaeozoic metamorphic material.	Loamy lithosols on the higher areas grading into moderately deep, grey brown clay loams overlying clays. Angular stone often occurs at or near the surface.	Layered open forest to open forest of ironbarks, gum-topped box and yellow box, with some wattles.	119, 450
				Total	1, 320, 700

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