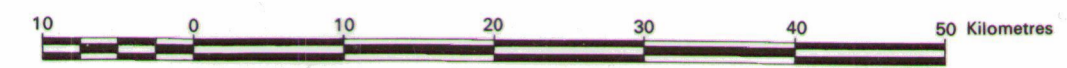


SCALE 1:500 000



Drawn by S. Wallace

### REFERENCE

- SANDHILLS (D)**
- 1 CAMDEN (3 470 km<sup>2</sup>)**  
Isolated or grouped sandhills of low relief; cypress pine (open-) woodland on upper slopes with wilga, vineetree, beefwood shrubby low open-woodland on mid-slopes and mulga, ironwood, grassy low woodland on lower slopes; deep, red earthy sands.
- 2 RETREAT (940 km<sup>2</sup>)**  
Levees with frequent channels associated with major streams; gundubury wooded (low open-) woodland to shrubby short-grass grassland or herbland with minor areas of cypress pine, wilga, ironwood, poplar box woodland to low open-woodland, coolibah or poplar box woodland associated with channels; (sandy) grey and brown clays, texture contrast soils and minor areas of earthy sands.
- 3 GOWRIE (184 km<sup>2</sup>)**  
Very gently undulating sandhills; cypress pine woodland to grassy open-woodland with scattered emergent casuarina, long-fruited bloodwood/silver-leaved ironbark; red to yellowish-brown earthy sands.
- SPINFEX SANDPLAINS (N)**
- 1 SHELBORNE (1 200 km<sup>2</sup>)**  
Flat to gently undulating plains; spinifex hummock grassland, frequently with an overstorey of silver-leaved ironbark low open-woodland/Azacia spp. and other shrubs; deep, red to yellowish red, acid earthy sands.
- MULGA SANDPLAINS (S)**
- 1 CHARLEVILLE (930 km<sup>2</sup>)**  
Flat to gently undulating plains; low open-forest to low woodland with green turkey bush understorey often prominent; deep, predominantly acid, sandy red earths.
- 2 EULO (2 140 km<sup>2</sup>)**  
Flat to gently undulating plains; mulga/beefwood/ironwood/poplar box grassy low woodland to wooded tussock grassland, sandhill hopbush, budba bush, green turkey bush and butter bush often conspicuous; acid to neutral, moderately deep to deep, sandy red earths.
- 3 GLENMORE (510 km<sup>2</sup>)**  
Gently undulating plains; mulga, poplar box/silver-leaved ironbark, eastern dead-climber shrubby low woodland; deep sandy red earths with acid surfaces.
- SOFT MULGA LANDS (M)**
- 1 ARABELLA (2 270 km<sup>2</sup>)**  
Gently undulating plains with well defined run-on areas forming drainage systems; mulga/emergent poplar box grassy low (open-) woodland with emergent silver-leaved ironbark on the ridges, poplar box, mulga woodland in the run-on areas; moderately deep, loamy red earths with deep, red texture contrast soils or deep loamy, red earths in the run-on areas.
- 2 NEBINE (6 590 km<sup>2</sup>)**  
Flat plains with minor areas gently undulating; mulga, poplar box grassy low open-forest or low woodland to wooded tussock grassland, butter bush, green turkey bush, sandhill hopbush and *Mitrasacme* *hirsuta* conspicuous in sandy areas; shallow to moderately deep, loamy red earths and sandy red earths.
- 3 HUMBURIN (1 190 km<sup>2</sup>)**  
Flat plains bordering alluvial; mulga, poplar box grassy (low) woodland to mulga, poplar box shrubby (low) open-woodland; moderately deep, red hardpan soils.
- 4 NORAH PARK (600 km<sup>2</sup>)**  
Gently undulating plains of low relief; mulga grassy low open-forest with emergent poplar box to mulga, poplar box shrubby low open-woodland, shallow to moderately deep, loamy red earths.
- 5 NIMARU (1 330 km<sup>2</sup>)**  
Flat to gently sloping, slightly concave plains (run-on areas); distinctly grooved mulga/scattered emergent poplar box low open-forest to low woodland; deep to moderately deep, loamy red earths.
- HARD MULGA LANDS (H)**
- 1 SOMERVA (1 900 km<sup>2</sup>)**  
Gently undulating to undulating plains; mulga, poplar box/silver-leaved ironbark/Aurung grassy low woodland to wooded open-tussock grassland; shallow, stony red earths.
- 2 ERAC (3 490 km<sup>2</sup>)**  
Gently undulating to undulating plains; mulga grassy low woodland or tall shrubland to mulga, poplar box shrubby open-woodland; shallow, stony red earths.
- 3 BOATHMAN (2 400 km<sup>2</sup>)**  
Gently undulating plains; mulga grassy low open-forest or low woodland with emergent poplar box to mulga, poplar box grassy or shrubby (low) open-woodland; shallow to moderately deep, red earths with variable ironstone shot cover.
- 4 GILRUTH (1 800 km<sup>2</sup>)**  
Gently undulating plains of low relief with scattered small depressions; mulga, poplar box low woodland to wooded tussock grassland; shallow, stony red earths.
- DISSECTED RESIDUALS (R)**
- 1 COLANCHIE (1 480 km<sup>2</sup>)**  
Undulating plains, dissected low hills and scarp; bendee tall shrubland to mulga, hopbush shrubby low woodland on the scarp and adjacent tops with mulga tall shrubland, emergent mountain yepunah/Casuarina gum on the slopes and bowyaka tall shrubland on the lower slopes; very shallow, stony lithocals.
- 2 QUILBERRY (990 km<sup>2</sup>)**  
Dissected hills, low scarp and scarp retreat zones; bendee/mulga, hopbush shrubby tall shrubland to low woodland on the scarp and adjacent tops, with mulga tall shrubland, emergent mountain yepunah/Casuarina gum on the slopes and bowyaka tall shrubland on the lower scarp retreat zone; shallow, stony lithocals.
- 3 LEADER (690 km<sup>2</sup>)**  
Dissected tablelands and low hills; mulga, western bloodwood tall shrubland to low woodland on the tops with mulga, ironwood/mountain box, hopbush shrubby tall shrubland on the upper slopes and mulga tall shrubland to low woodland with scattered wilga, vineetree and bonaroo on the lower slopes; shallow, stony lithocals.
- GIDGEE LANDS (G)**
- 1 KENNEDY (400 km<sup>2</sup>)**  
Undulating plains in the scarp retreat zones; brigalow/gidgee low woodland to tall shrubland with emergent bottle tree, whitebeech and leopardwood; deep to very deep, brown to reddish-brown cracking clays with stone cover.
- 2 KILLOWEN (5 520 km<sup>2</sup>)**  
Flat plains of alluvium; gidgee forty low woodland frequently with a sandalwood understorey with brigalow/gidgee low (open-) woodland to tall shrubland prominent in south-eastern areas; very deep, reddish-brown, alluvial texture contrast soils.
- 3 IVANHOE (230 km<sup>2</sup>)**  
Flat plains of alluvium; gidgee herbaceous low woodland; very deep, brown, alluvial cracking clays.
- DOWNS (F)**
- 1 COREENA (100 km<sup>2</sup>)**  
Gently undulating plains; Mitchell grass/Queensland bluegrass (open-) tussock grassland with myrtle, needlewood and leopardwood on the rises; shallow, brown cracking clays with scattered pebble on the surface.
- POPLAR BOX LANDS (E)**
- 1 BENDENA (340 km<sup>2</sup>)**  
Low sloping plains forming run-on areas and drainage systems with central drainage lines absent; poplar box, sandalwood shrubby (open-) woodland; moderately deep to deep, red earths and texture contrast soils.
- 2 LODDON (420 km<sup>2</sup>)**  
Low sloping plains forming run-on areas and drainage systems with central drainage lines absent; poplar box, mulga grassy low (open-) woodland; moderately deep to deep, red earths.
- 3 HALTON (200 km<sup>2</sup>)**  
Low sloping plains forming run-on areas and drainage systems with central drainage lines absent; poplar box grassy (low) open-woodland; moderately deep to deep, red earths and red clays.
- 4 ELVERSTON (660 km<sup>2</sup>)**  
Drainage lines on flat to very gently undulating plains; poplar box, mulga grassy to shrubby low (open-) woodland with scattered areas of herbland; tussock grassland to tussock grassland on the rises; red texture contrast soils and grey-brown alluvial clays.
- ALLUVIAL PLAINS (OPEN) (A)**
- 1 NOORAMA (3 430 km<sup>2</sup>)**  
Rarely flooded flat plains, with occasional drainage lines; Mitchell grass, herbaceous tussock grassland to tussock grassland; very deep, brown to reddish-brown alluvial cracking clays.
- 2 PADUA (510 km<sup>2</sup>)**  
Infrequently flooded flat plains, with occasional drainage lines; Mitchell grass, Queensland bluegrass, herbaceous open-tussock grassland; very deep, grey-brown alluvial cracking clays.
- 3 WESTGATE (330 km<sup>2</sup>)**  
Rarely flooded flat plains, with occasional drainage lines; short-grass sown grassland with occasional wildflower and areas of poplar box, gidgee, sandalwood shrubby woodland; very deep, reddish-brown alluvial clays, silt to silt-clay.
- ALLUVIAL PLAINS, WOOLANDS (W)**
- 1 BORN (450 km<sup>2</sup>)**  
Alluvial plains and channels of minor streams; river red gum/coolibah/poplar box grassy (open-) woodland; red and brown alluvial clays, scalded texture contrast soils and red earths.
- 2 DARTMOUTH (1 130 km<sup>2</sup>)**  
Alluvial plains flooded by local runoff; gidgee, yepunah (low) open-forest to (low) open-woodland with scattered poplar box, Ellegoona pollen bush, ligum and ligum foenicale; alluvial grey and brown clays and associated reddish-brown texture contrast soils.
- 3 KUDNAPPER (610 km<sup>2</sup>)**  
Infrequently flooded drainage lines on alluvial plains, with indistinct channels and occasional swampy areas; yepunah/scattered gidgee and coolibah herbaceous woodland to (low) open-woodland; grey-brown alluvial cracking clays.
- 4 WIDGEE (430 km<sup>2</sup>)**  
Seasonally flooded drainage lines on alluvial plains; minor channel or channels developed with occasional swampy areas; coolibah grassy to herbaceous low (open-) woodland with creek wilga conspicuous, ligum common in south-eastern areas; grey-brown alluvial cracking clays.
- 5 BLUEGRASS (1 590 km<sup>2</sup>)**  
Flood-outs with networks of small anastomosing channels; coolibah, creek wilga herbaceous low open-woodland to tall open-woodland; grey and brown alluvial cracking clays.
- 6 WARRGOO (310 km<sup>2</sup>)**  
Flooded major channels and interchannel areas; river red gum, coolibah, tea-tree, bellie, doolan shrubby woodland; (sandy) grey and brown alluvial clays.
- 7 LANGLO (310 km<sup>2</sup>)**  
Braided channels and associated interchannel areas; river red gum, coolibah, bellie, ligum shrubby woodland and associated areas of coolibah/yepunah/gidgee (low) woodland; grey and brown alluvial clays.
- 8 TUEN (3 130 km<sup>2</sup>)**  
Flat alluvial plains; coolibah grassy low open-woodland to wooded river-tall tussock grassland with minor areas of Mitchell grass, Queensland bluegrass tussock grassland; grey and brown alluvial clays.
- CLAYPANS (L)**
- 1 ELMINA (310 km<sup>2</sup>)**  
Claypans on flat to gently undulating plains; scalded areas, sedgelands and herblands or swampy grass open-tussock grassland; deep, grey-brown alluvial clays.
- 2 ARDOUR (690 km<sup>2</sup>)**  
Claypans on flat to gently undulating plains; low woodland or tall shrubland variably dominated by either coolibah, yepunah, bowyaka or bellie, to grassland, herbland or sedge/land/softwood trees, and bringing poplar box low woodland; deep, grey to brown alluvial clays with nodded texture contrast soils on the margins of the claypans.

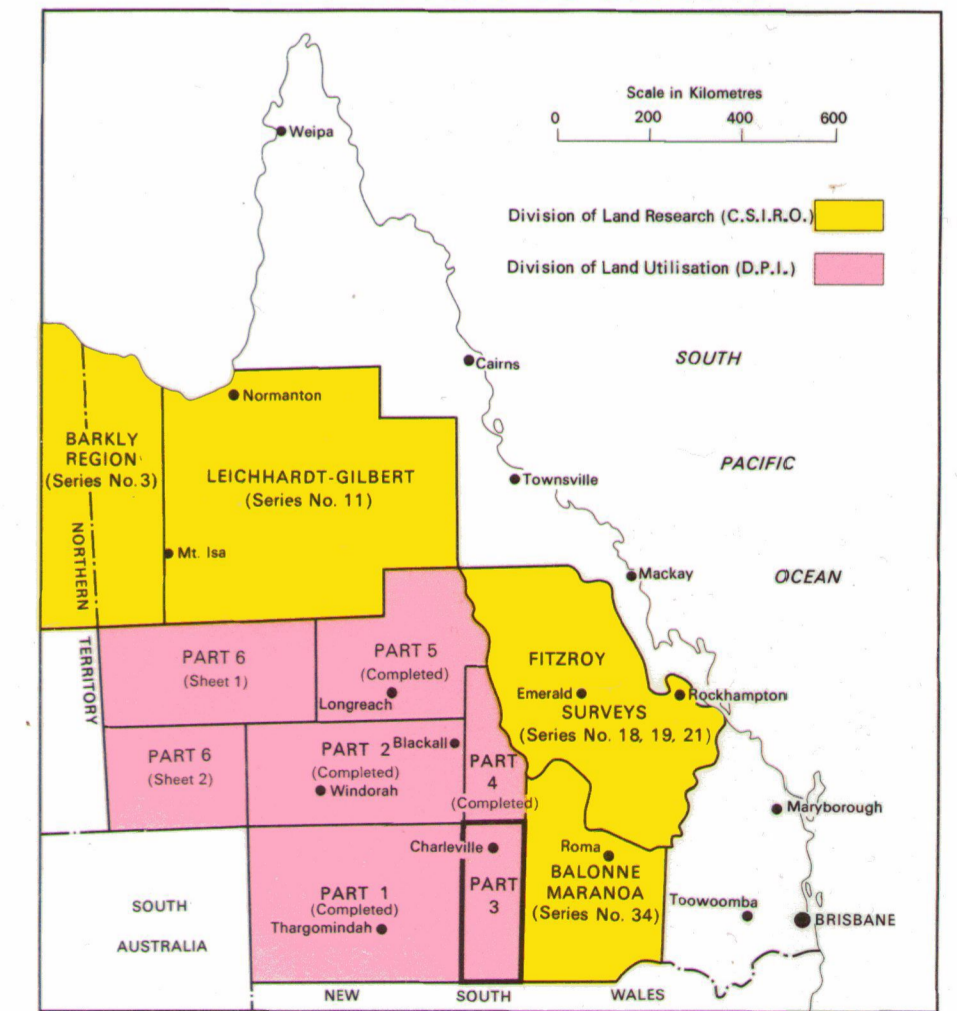
### IMPORTANT NOTES

1. In some mapping units, mixtures of two or more land systems may occur. In these cases, component land systems are indicated on the land system map.  
eg. (1) represents a complex of Camden (D1) and Retreat (D2) land systems, Camden being the dominant land system.
- (2) represents a complex of Retreat (D2) and Glenmore (S) land systems, Retreat being the dominant land system.
2. / means with or without.
3. ( ) means both categories present; eg. (low woodland), ranges from low woodland to woodland.
4. Working sheets at a scale of 1:250 000 are available to users working in the area.

### KEY TO 1:250 000 AREAS

ADAVALE	AUGATHELLA	EDDYSTONE
QUILPIE	CHARLEVILLE	MITCHELL
TOOMPINE	WYANDRA	HOMEBOIN
EULO	CUNNAPULLA	DIRRANBANDI
YANTABULLA	ENNGONIA	ANGLEDPOOL

### KEY TO ADJOINING SURVEYS



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COMPILATION: Air photo interpretation, mapping and grouping of land systems by J. R. Mills (Division of Land Utilisation); Description of land systems by J. R. Mills and Rosemary W. Purdie (Botany Branch).  
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