

## METADATA STATEMENT: LAND USE MAPPING - LOWER MURRAY DARLING

Category	Element	Description
Data set	Title	Land Use: Lower Murray Darling
Custodian	Custodian	Group General Manager, Natural Resource Products Division, NSW Department of Infrastructure, Planning and Natural Resources (DIPNR), 23-33 Bridge Street SYDNEY NSW AUSTRALIA 2000
	Jurisdiction	New South Wales, Australia
Description	Abstract	<p>A data set of land use as at June 2002 for Lower Murray Darling. Land use is classified to three separate classification schemes. These classification schemes are:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> NSW Land Use Mapping Program (LUMAP).</li> <li><input type="checkbox"/> NSW SCALD (Standard Classification for Attributes of Land) Classification</li> <li><input type="checkbox"/> ALUM (Australian Land Use and Management) Classification.</li> </ul> <p>The LUMAP Classification is DIPNR's most recent classification for mapping of land use classes for NSW. It is a simple numeric classification, open-ended to enable additional classes to be added.</p> <p>Prior to LUMAP, the SCALD classification was the standard for mapping of land use in NSW. It is a combined alpha-numeric classification system.</p> <p>The ALUM classification is based upon the modified Baxter &amp; Russell classification and presented according to the specifications contained in <a href="http://www.LUCs.gov.au/land&amp;water/landuse">www.LUCs.gov.au/land&amp;water/landuse</a>. Versions 4 and 5 of the classification are used to describe the land use classes.</p> <p>The mapping was commenced in November 2003 and is on-going. The date of the data set is set as the land use occurring at the time the satellite imagery was acquired in between 2000 and 2002.</p>
	Search Word	Land use, land use mapping
	Geographical Extent Name	Lower Murray Darling extending from the coast to the start of the western plains.
	GEN Category	<p>Covers the following 1:100 000 map sheets (listed by map sheet number: 7129, 7130, 7131, 7132, 7133, 7134, 7229, 7230, 7231, 7232, 7233, 7328, 7329, 7330, 7331, 7332, 7333, 7428, 7429, 7430, 7431, 7432, 7433, 7528, 7529, 7530, 7531, 7532, 7533, 7628, 7629, 7630, 7631, 7632</p> <p>Includes parts or all of the following Local Government areas: Wentworth Shire, Central Darling Shire, Balranald Shire, Wakool Shire, Hay Broken Hill City and the Unincorporated area.</p>
	GEN Custodial Jurisdiction	New South Wales Western Division
	GEN Name	
	Geographical	

	Extent Polygon	
	Geographic Bounding Box	
	North Bounding Latitude	31°30'S
	South Bounding Latitude	35°30'S
	East Bounding Longitude	144°0'E
	West Bounding Longitude	141°0'E
Data Currency	Beginning Date	1.12.2003
	Ending Date	1.11.2004
Dataset Status	Progress	On going
	Maintenance & Update Frequency	On going as required. There are no proposals to update the land use data at this stage.
Access	Stored Data Format	ArcGIS PGDB
	Available Format Type	ArcGIS PGDB, (UTM, AGD66)
	Access Constraint	Unrestricted
Data Quality	Lineage	<p>The data set is a new series of land use maps prepared by DIPNR for the Lower Murray Darling area of NSW. Data sets were input into ArcGIS workstations and used to build a composite polygon layer. Where new linework was required this was direct digitised on screen within the Arc GIS Environment.</p> <p>Information compiled prior to mapping comprises:</p> <ul style="list-style-type: none"> <li>▪ the cadastral layer from the NSW Digital Cadastral Database</li> <li>▪ boundaries of State Forests, National Parks and Nature Reserves from each agency.</li> <li>▪ Property Agreements and Management Contracts funded under the NSW State Government's Native Vegetation Management Fund</li> <li>▪ Western Division clearing consents</li> <li>▪ land use information prepared as part of the mapping of native vegetation.</li> <li>▪ SunRISE Irrigated cropping</li> <li>▪ RAMS cropping</li> </ul> <p>The ALUM classification defines three levels of land use description – primary, secondary and tertiary. For the majority of the land use descriptions is down to the tertiary level.</p> <p>Satellite imagery, aerial photography, existing data sets, local knowledge and field checking were used as the main</p>

		<p>data sources.</p> <p>Patterns and spectral signatures in the Landsat 7 imagery, which comprise band combinations of 453 RGB multispectral merged with 12.5 metre pixel panchromatic provide specific recognition of a range of agricultural activities, namely cereal and fodder cropping, vegetable production and grazing. For other land use features such as newly established plantation (softwood, hardwood, tea-tree), intensive animal industries, farm dams, fish farms, extractive industries and features including previously mined areas, swamps.</p> <p>The main data sources are the aerial photographs, supplemented by field checking and local knowledge. The Aerial photographs were mostly contact prints produced at 1:50,000 scale and were viewed with an optical stereoscope to produce a three dimensional image. This information was then drawn as lines on hard copy maps in the initial stages of the program, and directly to digital layers via on-screen digitising for the later and majority of the program.</p> <p>Other imagery providing high resolution detail over specific sections of the project area, mainly river corridors, was used. This was in the form of scanned digital images that were used as a backdrop for the on screen digitising process.</p> <p>The DIPNR spatial database for Property Agreements and Management Contracts was used to identify the class 'other conserved areas' which are primarily private conservation agreements (Class 1.1.7). The same database for Clearing Consents was used to identify areas recently cleared and planted to softwood, hardwood or tea-tree in a well-defined plantation. The spectral signatures in the satellite imagery for these areas is the same as cultivated areas (if completely bare), grassland or young woody vegetation. Aerial photographs taken in 2000 or thereafter are used to confirm a satellite pattern that indicated the plantation is established.</p> <p>Irrigation developments were identified from the SunRISE Irrigation Development dataset produced by SunRISE Mildura</p> <p>Local knowledge is used for specific commodity types in orchards or on cultivated lands, specialised industries such as plant nurseries, local urban features and crops grown under irrigation.</p> <p>Local information is obtained from the following sources:</p> <ul style="list-style-type: none"> <li>▪ district DIPNR and Landcare officers</li> <li>▪ local landholders</li> <li>▪ officers of NSW Agriculture</li> <li>▪ rural extension officers and/or managers with private stock and station agencies</li> <li>▪ internet advertising for specific industries and districts.</li> </ul>
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	Positional Accuracy	50 metres for the original DIPNR mapping.
	Attribute Accuracy	<p>Independent officers of DIPNR validated the original mapping and classification of polygons. These officers have more than 20 years experience in land use classification techniques. Data were verified by checks of the satellite imagery and aerial photographs</p> <p>Once the data was converted into digital format, additional checks are undertaken to validate the data.</p>
	Logical Consistency	All lines and polygons are tagged. Topological consistency is performed as part of the quality assurance procedures using ArcGIS.
	Completeness	The majority of land uses are described to the tertiary level with some description at secondary level for approximately 25 percent of the total survey area
Contact Information	Contact Organisation	New South Wales Department of Infrastructure, Planning and Natural Resources
	Contact Position	Project Manager – Keith Emery Natural Resource Officer (Landuse)
	Mail Address 1	P.O. Box 3720 PARRAMATTA 2124
	Mail Address 2	Level 4, Macquarie Tower, 10 Valentine Avenue PARRAMATTA 2150
	Suburb or Place or Locality	PARRAMATTA
	State or Locality 2	NEW SOUTH WALES
	Country	AUSTRALIA
	Postcode	2150
	Telephone	02 9895 7828
	Facsimile	02 9895 7742
	Electronic Mail Address	paul.spiers@DIPNR.nsw.gov.au

Metadata Date	Metadata Date	28 July 2004
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**Table 1: DIPNR Land Use Classification: LUMAP Mapping Codes/SCALD Land Use Codes/ALUM Land Use Codes. Sixteenth Edition: March 2003.**

<b>LUMAP Mapping Code</b>	<b>Additional Codes</b>	<b>Land Use Class</b>	<b>SCALD Land Use Code</b>	<b>ALUM Land Use Code Version 5</b>
<b>Cropping</b>				
<b>1</b>		cropping – continuous or rotation	a0a	3.3.0
	code I if irrigated	cropping – continuous or rotation	a0c	4.3.0
<b>40</b>		rice	a0a	3.3.1
	Code I if irrigated		a0c	4.3.1
<b>84</b>		fodder cropping such as oats	a0d	3.3.3
	code I if irrigated	fodder cropping	a0d	4.3.3
<b>129</b>		cotton	a0a	3.3.6
	Code I if irrigated		a0c	4.3.6
<b>140</b>		cropping of legumes for seed - chickpeas, lupins, vetches, field beans	a0a	3.3.8
	Code I if irrigated		a0c	4.3.8
<b>Cropping - semi arid areas</b>				
<b>186</b>		cropping - irrigated within a controlled flood system; prohibition on the construction of barriers to the movement of water	a0g	4.3.0
<b>187</b>		cropping (irrigated) within the bed of an ephemeral lake; lake is regulated	a0g	4.3.0
<b>188</b>		cropping within the bed of an ephemeral lake; lake is not regulated or above regulation level	a0g	3.3.0
<b>Horticulture</b>				
<b>2</b>		horticulture – orchard	b1a	3.4.1
	code I if irrigated		b1a	4.4.1
<b>3</b>		horticulture – vineyard	b1b	3.4.4
	code I if irrigated		b1b	4.4.4
<b>35</b>		horticulture – eucalypts & other Australian native species for cut flower arrangements	b1g	3.4.0
<b>37</b>		horticulture – seed production, including clover seed	b1f	3.5.0
<b>38</b>		olives	b1a	3.4.2
	Code I if irrigated			4.4.2.
<b>39</b>		vegetables	b1c	3.5.4
	Code I if irrigated			4.5.4
<b>42</b>		nursery	b1d	5.1.0
<b>53</b>		building associated with horticultural industry (winery, packing shed)	b1h	5.3.0
<b>69</b>		native shrub plantation (eg tea tree)	g6o	3.5.0
<b>81</b>		shade house (includes hydroponic use)	b1.	5.1.1
<b>87</b>		abandoned orchard and vine lands; trees/vines not maintained and may be dying; regrowth of native shrubs and trees is occurring	b1.	1.3.4
<b>88</b>		turf farming	a0e	4.2.0
<b>89</b>		bulb production for flower trade	b1.	4.5.3
<b>102</b>		bananas	b1a11	3.4.1
	Code I if irrigated			4.4.1
<b>104</b>		pecan, macadamia and other nuts	b1a14	3.4.3
	Code I if irrigated			4.4.3
<b>111</b>		grassed area(eg mown/slashed grass area) within a vineyard	c2b	3.0.0
<b>115</b>		urban –rural residential within vineyard	h7e	5.4.2
<b>116</b>		cut flowers and herbs	b1c	3.5.3
	Code I if irrigated		b1c	4.5.3
<b>118</b>		vineyard with residential facilities scattered amongst plantings (hobby, retreat or tourist feature)	b1c	3.4.4.
	Code I if irrigated		b1c	4.4.4
<b>120</b>		eucalyptus oil plantation	b1.	3.4.0

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126		Truffle production	b1i	3.4.0
	Code I if irrigated		b1i	4.4.0
154		Jojoba plantation	b..	3.4.2
	Code I if irrigated		b..	4.4.2
<b>Grazing (native and exotic pasture species)</b>				
4	if tree cover is greater than 20%, describe by crown separation ratio: TS, TM or TD	grazing – volunteer, naturalised or improved pasture	c2b	3.2.1
5		grazing – improved perennial pasture	c2c	3.2.1
6		grazing – irrigated pasture	c2f	4.2.0
48	W	lantana infestations; total surface area of ground cover by lantana	c2i^d	1.3.4
68		recently cleared land (cleared of forest vegetation, as yet not covered by crop or pasture	g6m	3.3.1
83		degraded land (salt site, eroded area)	nsg	1.3.4
101		secondary grassland. This is a combined land use/land cover feature to describe clearing of an isolated area or woody vegetation in a forest with little or no further activity such as grazing or logging. Woody regeneration is not evident and grasses herbs or forbs dominate the site.	c2b	3.2.1
113		land controlled a power company, currently unused or lightly grazed	c2b	5.6.0
134		flood refuge (constructed feature located within a flood prone area)	j9f	1.3.4
137		firebreak	c2a	3.0.0
144		agro-forestry	c2.	3.2.1
164		saltbush planting - for grazing purposes and not as part of a salinity control program	c2g	3.2.2
168		grazing of natural vegetation - grazing of domestic stock on essentially unmodified native vegetation	c2a	2.1.0
<b>Grazing - semi arid areas</b>				
182		grazing within the bed of an ephemeral lake; lake is not regulated or above regulation level	c2a	2.1.0
183		range land grazing	c2a	2.1.0
184		grazing within a controlled flood system; prohibition on the construction of barriers to the movement of water	c2a	3.2.0
185		waterway associated with controlled flooding or opportunistic cropping systems	j9f	3.2.0
189		grazing within the bed of an ephemeral lake; lake is regulated	c2a	2.1.0
<b>Mining &amp; Quarrying</b>				
7		quarry	e4a	5.8.2
43		derelict mining land	e4h	1.3.4
44		mining site	e4a	5.8.1
49		restored mining lands, both open cut and pit operations	e4f	1.3.4
78		fly ash dam/spoil dump	e4b	5.8.3
82		grassland within mining lease	e4.	1.3.4
95		restored sand mining area	e4f	1.3.4
114		conveyor belt	e..	5.8.0
133		stock pile of material located remotely from a mine site. Often situated next to a railway line or at a port	e4b41	5.8.3

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<b>Tree &amp; Shrub Cover (native and exotic)</b>				
9	Code A for State Forest	native forest	g6a	2.2.1
	Code B for areas outside State Forest		g6a	1.3.3
10	Code A for State Forest	native forest - logged	g6b	2.2.1
	Code B for areas outside State Forest		g6b	2.2.1
11	Code A for State Forest	native forest – regeneration	g6j	2.2.1
	Code B for areas outside State Forest		g6j	1.3.4
13	Code A for State Forest	native forest – filter strips in softwood plantation	g6z	1.3.3
	Code B for areas outside State Forest			1.3.3
14	Code A for State Forest	softwood plantation	g6e	3.1.2
	Code B for areas outside State Forest		g6e	3.1.2
15	I - irrigated Code A for State Forest	irrigated softwood softwood plantation – nursery	g6w g6x	4.1.2
	Code B for areas outside State forest		g6x	3.1.0
24	Windbreak/Tree Corridor	Linear feature, usually residual stands of native species found along Crown roads or road reserves.	g6c	3.2.2
30		riparian vegetation – exotic species(principally willows)	g6l	6.3.0
41	Code A for State Forest	hardwood plantation	g6g g6g	3.1.1 3.1.1
52		poplar plantation	g6p	3.1.0
66		recently burnt areas (of woody vegetation)	g6n	1.3.3
67		native woody shrub	g6t	1.3.3
70		woodland	g6k	3.3.1
110		forest dominated by camphor laurel	g6l	1.3.4
142		pine planting interspersed amongst eucalypt/shrub forest and/or areas with poor to nil establishment	g6e	3.1.2
162		Dense shrub growth over previously cleared land	g6t	1.3.4
<b>Urban (educational, manufacturing, industrial and commercial)</b>				
16		urban – industrial/commercial	h7a	5.5.0
17		urban – residential	h7b	5.4.1
18		urban – rural residential	h7e	5.4.2
29		sewage disposal ponds	j9k	5.9.5
	I - irrigated	for areas irrigated from sewage effluent	c2f08	5.9.5
31		urban - recreation	i8c	5.5.3
33		landfill	h7g	5.9.2
50		cemetery	j9g	5.5.0
61		research facility	h7.	5.5.5
75		tourist development, convention site	i8d	5.5.3
77		university & other tertiary institutions	h7.	5.5.2
92		government and private facilities – gaol, training centre, school, religious institutions & training centres, religious retreats	h7.	5.5.2
94		caravan park, mobile home village	h7d	5.4.0
130		rural recreation - blocks are isolated and not associated with an urban area	i8b	5.5.3

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139		farm infrastructure - house, machinery & storage sheds and garden areas	h7.	4.0.0
141		rural quarantine site	d3.	5.0.0
147		abandoned urban or industrial area and site is locked up (eg Glen Alice)	h7.	5.3.0
149		resort style private land use	i8d	5.5.0
151		hobby farm	h7e	5.4.2
152		small to medium forested blocks with isolated residential buildings. Rural residential but the forested feature of the block is worth noting	h7e	5.4.2
155		surf club and/or coastal car parking facilities	i8c	5.5.3
156		glider field for recreational activities	j9n	5.7.1
160		area recently under development for urban, commercial and/or industrial uses - infrastructure in place but no building activity at the time of site inspection	h..	5.4.0
165		sawmill	h7a	5.3.0
166		illegal recreation	i8.	5.5.3
<b>Power Generation and Distribution</b>				
47		energy corridor	j9a	5.6.0
93		electricity substation	j9.	5.6.1
112		electricity generation (power station and associated stockpiles, hydro-electric plants)	j..	5.6.1
127		green power site (eg wind turbines)	c2b90	5.6.1
153		disused power station	j..	5.6.1
163		gas supply facility	j..	5.6.2
<b>Transport</b>				
19		road/road reserve	j9c	5.7.2
20		railway	j9d	5.7.3
36		aerodrome/airport	j9j	5.7.1
45		airstrip (local/farmer, not sealed)	j9n	5.7.0
72		trig station or beacon	j9h	5.7.5
103		communications facility	j9h	5.7.5
<b>Wetland</b>				
21		floodplain swamp – backswamp	k0a	6.5.0
22		floodplain swamp – billabong	k0b	6.5.0
23		swamp	f5l	6.5.0
54		mangrove	g6q	6.6.0
55		mudflat	f5o	6.6.0
56		coastal marsh/estuarine swamp	k0o	6.5.0
73		wetland – dunal swamp	k0j	6.5.0
74		floodplain swamp	k0b	6.5.0
98		aquaculture – oyster spoil & sheds, but not actual submerged lease	d3e	6.6.3
122		constructed wetland for conservation or water quality improvement	f5.	6.2.0
158		submerged oyster lease	k..	6.6.2
<b>Intensive Animal Production</b>				
26		intensive animal production	d3	5.2.0
60		abattoir	h7a	5.3.0
62		irrigation from abattoir & other industries	f5i	5.9.0
90		horse stud and/or horse breeding facility	d3	5.2.0
124		effluent pond(s) from intensive animal industries	f5i	6.2.4
135		saleyard	h7a	5.5.1
159		dog kennel or dog run for greyhounds	d..	5.2.0

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<b>Conservation Area</b>				
25	Treelot	Planted stands or corridors of native or exotic species. Mostly linear features along fence lines, but can include areas planted for gully stabilisation. May be of varying ages from recently established to mature	g6d	3.2.1
27		private conservation agreement	j9o	1.1.7
58		foreshore land to DLWC dam	j9q	1.2.2
59		foreshore or reserved land to water supply dam (Sydney Water, Hunter Water, SMHEA or Public Works Dam)	j9r	1.2.2
117		wide road reserve (excluding road pavement) or TSR with some grazing	j9c	1.3.2
119		constructed grass waterway for water disposal. Part of a soil erosion control system carrying run-off from graded banks	j..	1.3.4
125		Salt treatment or salt demonstration site (discharge & recharge sites)	f5j	1.3.4
143		regeneration area in reference to Section 47 notice of the NVC Act	nsg	1.3.4
145		land fenced and treated for land degradation problems (other than salt affected land; see Class 125)	nsg	1.3.4
146		land fenced for riparian management	g6l	1.3.4
148		Sydney Catchment Authority unused land	j9r	1.2.2
157		cultural heritage site - aboriginal or european	j9o	1.1.7
167		crown reserve	j..	1.3.3
169		protected area managed for conservation of specific natural features	j9o	1.1.7
<b>River and Drainage System - (I) natural water or drainage feature</b>				
12		river, creek or other incised drainage feature. Includes the bed and bank of a river system and any adjoining riparian vegetation that overhangs the drainage feature or grows on the bank of the channel. Also includes vegetation growing on sand, gravel or clay deposits within the river channel	g6l	6.3.0
65		river gravel deposit	f5m	6.3.0
76		lagoon, inland lake (not saline), open depression or playa	f5.	6.1.0
86		inland salt lake	f5.	6.1.1
105		coastal lake	f5a	6.1.0
106		estuarine waters	k0o	6.6.0
108		river and riparian zone, where the river channel is filled by more than 50% of cumbungi or phragmites vegetation	g6l	6.3.0
121		drainage depression in cropping paddock	f5.	6.4.0
131		flood chute (flood runner that is filled with water during and after a flood)	c2ew	6.3.0
138		prior stream	c2a	6.3.0
<b>River and Drainage System - (II) constructed water body</b>				
8		farm dam	f5g	6.2.0
34		fish, prawn farm	d3e	5.2.6
46		reservoir	f5g	6.2.1
51		river training work	f5p	6.3.0
57		drainage channel	f5h	6.4.2
63		river navigation structure	f5c	6.3.0
71		flood or irrigation structure	j9f	6.3.0

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79		drain	f5h	6.4.2
80		water supply pressure reservoir including water filtration plant	f5g	6.2.1
85		temporary water storage area (eg rice farming –opportunistic storage of water evaporation basin)	f5.	6.2.0
91		marina	f5j	6.2.3
100		canal (eg canal estate, navigation canal)	f5d	5.7.4
107		ancillary (saddle) wall to reservoir (constructed separate to main wall and used to impound surcharge waters)	f5c	6.3.3
123		water supply channel (non irrigation system eg Sydney water supply channel)	f5g	6.2.1
128		irrigation dam	j9q	6.4.1
132		irrigation supply channel	f5g	6.2.0
136		training facility for marine pilots	j9f	6.4.1
150			f5c	5.5.0
<b>Special Categories</b>				
32		defence facility	j9l	5.5.4
64		beach	f5n	5.5.3
96		sand spit/estuarine sand island	f5n	6.6.0
97		No identified use		1.3.4
99		foreshore protection – vegetated foredune	f5	1.2.4
109		cliff/rock outcrop	j9m	1.3.0
<b>Last number assigned 10.03.2004 - 189. Unallocated classes are 28, 161, 170-181</b>				
<b>Codes added after 10.03.04</b>				
190		Pump site, urban or irrigation supply		
191		Riparian strip in urban/developed areas		
192		Roadside rest area		
193		Disposal of horticultural waste		
194		Salt interception pump site		
195		House boat effluent pump out site		
196		House boat moorings/jetty		
197		Boat ramp		
198		Crown Reserve with public access		
199		Regeneration reserve (esp Broken Hill area)		

<b>Subscripts</b>			
I	areas irrigated at the time of mapping or field survey or at the date of the data source	see table above	see table above
W	land where more than weeds now occupy 30% of the area. Principal weeds observed in the aerial photographs are bracken fern and blackberry. Even if the pastures are dominated by improved species, the unit is classified as Class 4 when the subclass 'W' is used, to indicate a loss of condition. When such weeds dominate the entire polygon, use the code 48W.	as per code defined by land use mapping code	as per code defined by land use mapping code
Q	existing, fixed irrigation infrastructure, not used at the time of mapping or field survey or at the date of the data source.	as per code defined by land use mapping code	as per code defined by land use mapping code
R	regeneration of woody plants (tree and shrub) is occurring. More than 30% of the ground area is covered by the shrub regrowth. However, a low to moderate grazing potential remains because the unit is dominated by pasture plants.	as per code defined by land use mapping code	as per code defined by land use mapping code
L	volunteer, naturalised, native or improved pastures with previous evidence of cultivation. This class is used if one of the requirements in mapping pastures is to indicate that a paddock is used in some type of rotation between cropping and grazing	as per code defined by land use mapping code	as per code defined by land use mapping code
SR	regeneration of native shrub, such as Bursaria sp. or Cassinia sp. More than 30% of the ground area is covered by the shrub regrowth. Although often considered to be a weed, caution in the subscripts are advised because of the implications under the Native Vegetation Conservation Act	as per code defined by land use mapping code	as per code defined by land use mapping code

**Subscripts used for Mapping Code 26 (all lower case)**

c	poultry	d3b	5.2.4
d	dairy shed	d3a	5.2.1
p	piggery	d3a	5.2.5
r	deer	d3f	5.2.0
b	beef feedlot	d3c	5.2.2.
s	sheep		5.2.3
o	ostriches		5.2.0
h	horses		5.2.0
u	emus		5.2.0