



AGRICULTURAL COMMODITIES AUSTRALIA

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INQUIRIES

Australian

Bureau of Statistics

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Nigel Gibson on Hobart (03) 6222 5940.

NOTES

This publication contains final estimates for the main commodities collected in the 2005–06 Agricultural Census. Included are detailed statistics on crop and horticulture area and production, livestock numbers, land use and industry and size characteristics of agricultural businesses. The data are based on a response rate of 93% from the 2005–06 Agricultural Census.

The ABS also plans to release a range of sub-state geographic level data in conjunction with this publication. In particular, small area data will be released in *Agricultural Commodities: Small Area Data, Australia* (cat. no. 7125.0). The sub-state outputs will generally be available as spreadsheets, data suitable for use in Geographic Information Systems, and possibly as maps. Standard outputs will be produced to approximate as closely as possible various regional structures such as river basins and Natural Resource Management regions.

CHANGES IN THIS ISSUE Move to a new register of agricultural businesses

Until recently, the ABS had maintained its own register of agricultural establishments. However, it had become increasingly difficult to maintain this list, and users were questioning the accuracy of some of the commodity data published. The ABS investigated a number of alternatives for maintaining the register and discussed these with key users of agriculture statistics. It was agreed that the ABS should move to a new frame sourced from the Australian Taxation Office's Australian Business Register (ABR).

The ABR-based frame has been used for the first time to conduct the 2005–06 Agricultural Census. The key implication of this strategy is that census data will not be directly comparable with historical time series. This is because, in addition to the change in frame, there have been changes in methodologies used for determining whether agricultural businesses are 'in-scope' of the collection and in some of the ways the data are compiled. (For more information, please see the technical notes at the back of this publication.)

Move to a new industrial classification

The estimates in this publication are based on the Australian and New Zealand Standard Industrial Classification (ANZSIC) 2006 edition. Data in previous issues are based on the 1993 version of the ANZSIC. ANZSIC 2006 was adopted to provide a more contemporary industrial classification system, taking into account issues such as changes in the structure and composition of the economy, changing user demands and compatibility with major international classification standards.

Brian Pink Australian Statistician

ABBREVIATIONS

- '000 thousand
- ABS Australian Bureau of Statistics
- ACT Australian Capital Territory
- ANZSIC Australian and New Zealand Standard Industrial Classification

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- Aust. Australia
- EVAO Estimated Value of Agricultural Operations
 - ha hectare
 - kg kilogram
- MDB Murray-Darling Basin
- ML megalitre
- n.e.c. not elsewhere classified
- NSW New South Wales
- NT Northern Territory
- Qld Queensland
- RSE relative standard error
- SA South Australia
- SE standard error
- SLA statistical local area
 - t tonne
- Tas. Tasmania
- Vic. Victoria

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WA Western Australia

NUMBER OF	The 2005–06 Agricultural Census found that there were an estimated 154,472 agricultural
AGRICULIURAL	businesses at 30 June 2006.
BUSINESSES	The beef cattle farming industry was the largest, with around 28% of all agricultural
	businesses. The mixed farming sector (grain-sheep/beef cattle) was the next largest with
	around 10%, followed by sheep farming with 8%. The Census also found that there were
	an estimated 16,504 non-agricultural businesses who undertook some form of
	agricultural activity during 2005–06.
SIZE OF OPERATIONS	The median estimated value of agricultural operations (EVAO) of all agricultural
EVAO of operations	businesses was approximately \$90,000 in 2005–06. Around 21% (33,100) had an EVAO
	below \$22,500, while at the other end of the scale, around 11% (17,300) had an EVAO
	above \$499,999.
	The majority of agricultural businesses with EVAO below \$22,500 were involved in beef
	cattle farming (14,900) and sheep farming (2,500) while the majority of businesses with
	EVAO above \$499,999 were involved in grain growing (4,100), mixed grain-sheep/beef
	cattle farming (2,500), beef cattle farming (2,000) and dairy cattle farming (1,500).
	On an industry basis, the cotton, poultry for meat, pig, poultry for eggs, and apple and
	pear industries were dominated by businesses with large EVAOs, with around 80%, 62%,
	37%, 36% and 20% respectively, having an EVAO greater than \$499,999.
Area of operations	Most agricultural businesses in 2005–06 were between 100 and 499 hectares in size, and
	accounted for 47,100 (or 30% of all agricultural businesses). These businesses were
	mainly engaged in beef cattle grazing, dairying, sheep grazing or mixed grain-sheep/beef
	cattle growing.
	Small operations under 50 hectares were the second main size group and accounted for
	40,600 businesses(or 26%). These were mainly engaged in beef cattle grazing, grape
	growing, fruit and tree nut growing, vegetable growing and horse farming.
	Large operations of over 2,499 hectares accounted for 9% (14,400) of all agricultural
	businesses and were mainly engaged in grazing or grain growing operations.

SUMMARY OF FINDINGS CROPS

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OVERVIEW	For eastern Australian agricultural areas as a whole, the 2005–06 season saw near average rainfall despite 2005 winter and spring months being wet prior to dry conditions becoming established from December 2005 onwards. There were some noticeable regional variations with a particularly wet winter-spring 2005 period in large cropping areas of South Australia and in parts of Tasmania. However, in western Victoria and southern Queensland, early rain was more than offset by the dry rest of the year. The western Australian agricultural areas also experienced regional variation in climatic conditions in 2005–06. Rainfall varied from above average in the wheatbelt areas to well below average along the coast.
CROPS FOR GRAIN Barley	The total area sown to barley for grain in 2005–06 was 4.4 million hectares. The three main growing states were South Australia (1.2 million hectares), Western Australia (1.1 million hectares) and New South Wales (1.1 million hectares). Production of barley for grain in 2005–06 was 9.5 million tonnes. Major producing states were South Australia (2.5 million tonnes), Western Australia (2.4 million tonnes) and New South Wales (2.3 million tonnes).
Grain sorghum	The total area sown to sorghum for grain in 2005–06 was 767,000 hectares. In Queensland, the main growing state, the area sown was 436,000 hectares, while in New South Wales it was reported as 327,000 hectares. Grain sorghum production in 2005–06 was 1.9 million tonnes. Production in Queensland was 1.0 million tonnes, while in New South Wales it was reported as 888,000 tonnes.
Oats	The total area sown to oats for grain in 2005–06 was 930,000 hectares. The three main growing states were New South Wales (416,000 hectares), Western Australia (271,000 hectares) and Victoria (151,000 hectares). Production of oats for grain in 2005–06 was 1.7 million tonnes. In New South Wales, production was reported as 633,000 tonnes, in Western Australia it was 591,000 tonnes and in Victoria it was 328,000 tonnes.
Rice	The total area sown to rice for grain in 2005–06 was 102,000 hectares. The main growing state was New South Wales with 101,000 hectares. Production of rice for grain in 2005–06 was 1.0 million tonnes. In New South Wales, production was reported as 992,000 tonnes.
Wheat	The total area sown to wheat for grain in 2005–06 was 12.4 million hectares. The three main growing states were Western Australia (4.8 million hectares), New South Wales (3.6 million hectares) and South Australia (2.0 million hectares). Production of wheat for grain in 2005–06 was 25.2 million tonnes. In Western Australia, production was reported as 9.1 million tonnes, in New South Wales it was 8.0 million tonnes and in South Australia it was 3.9 million tonnes.
OTHER CROPS Canola	The total area sown to canola in 2005–06 was 972,000 hectares. The three main growing states were Western Australia (437,000 hectares), New South Wales (194,000 hectares) and Victoria (191,000 hectares). Production of canola in 2005–06 was 1.4 million tonnes. In Western Australia, production was reported as 617,000 tonnes, in New South Wales it was 314,000 tonnes and in Victoria it was 273,000 tonnes.

SUMMARY OF FINDINGS CROPS continued

Cotton lint	The total area sown to cotton in 2005–06 was 327,000 hectares. The main growing states
	were New South Wales (197,000 hectares) and Queensland (130,000 hectares).
	Production of cotton lint in 2005-06 was 560,000 tonnes. In New South Wales,
	production was reported as 345,000 tonnes, and in Queensland it was 214,000 tonnes.
Sugar cane	The total area of sugar cane cut for crushing in 2005–06 was 398,000 hectares.
	Queensland was the main growing state (375,000 hectares). The total quantity of sugar
	cane crushed in 2005–06 was 37.1 million tonnes. In Queensland 34.4 million tonnes
	were crushed.

SUMMARY OF FINDINGS HORTICULTURE

FRUIT Bananas	The total area of bearing bananas in 2005–06 was 11,200 hectares. The main growing states were Queensland (9,390 hectares) and New South Wales (1,510 hectares). Production was down by around one third as a result of damage caused by Cyclone Larry in early 2006. Production in Queensland was reported as 165,000 tonnes and in New South Wales it was 15,900 tonnes.
Oranges	The number of orange trees in 2005–06 of bearing age was 6.6 million. The main growing states were New South Wales (with 3.6 million bearing trees), South Australia (with 1.6 million bearing trees) and Victoria (with 1.0 million bearing trees). Production of oranges in 2005–06 was 507,000 tonnes. In New South Wales, production was reported as 244,000 tonnes, in South Australia it was 159,000 tonnes and in Victoria it was 85,700 tonnes.
Grapes	Grape production in 2005–06 was just below the previous year's record at 2.0 million tonnes. The total area of vines increased to 169,000 hectares. The bearing area for grapes rose to 158,000 hectares while the area not yet bearing fell to 10,600 hectares.
VEGETABLES Carrots	The total area sown to carrots in 2005–06 was 6,310 hectares. The three main growing states were Victoria (1,960 hectares), South Australia (1,260 hectares) and Western Australia (1,020 hectares). Production of carrots in 2005–06 was 265,000 tonnes. The major producing states were Western Australia (62,100 tonnes), South Australia (60,000 tonnes) and Tasmania (54,700 tonnes).
Lettuces	The total area sown to lettuces in 2005–06 was 8,050 hectares. The three main growing states were Victoria (3,640 hectares), Queensland (1,970 hectares) and New South Wales (1,290 hectares). Production of lettuces in 2005–06 was 163,000 tonnes. In Victoria, production was reported as 58,800 tonnes, in Queensland it was 53,200 tonnes and in New South Wales it was 29,800 tonnes.
Onions	The total area sown to onions in 2005–06 was 4,540 hectares. The three main growing states were South Australia (1,570 hectares), Tasmania (1,230 hectares) and Queensland (730 hectares). Production of onions in 2005–06 was 222,000 tonnes. In South Australia, production was reported as 80,800 tonnes, in Tasmania it was 68,800 tonnes and in Queensland it was 27,400 tonnes.
Potatoes	The total area sown to potatoes in 2005–06 was 35,300 hectares. The three main growing states were South Australia (9,500 hectares), Victoria (8,540 hectares) and Tasmania (6,310 hectares). Production of potatoes in 2005–06 was 1.2 million tonnes. In South Australia, production was reported as 358,000 tonnes, and in both Tasmania and Victoria it was 289,000 tonnes.
Tomatoes	The total area sown to tomatoes in 2005–06 was 7,750 hectares. The three main growing states were Victoria (3,250 hectares), Queensland (2,720 hectares) and New South Wales (1,320 hectares). Production of tomatoes in 2005–06 was 450,000 tonnes. In Victoria, production was reported as 245,000 tonnes, in Queensland it was 109,000 tonnes and in New South Wales it was 75,800 tonnes.

SUMMARY OF FINDINGS LIVESTOCK

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LIVESTOCK	Final estimates indicate the number of milk cattle in Australia was 2.8 million head at 30
Milk cattle	June 2006. Victoria continued to dominate the dairy industry with a herd of 1.8 million.
	Respondents in Victoria indicated that numbers there were affected by a slow recovery
	from drought combined with low milk prices.
Meat cattle	The number of meat cattle in Australia was 25.6 million head at 30 June 2006. The
	dominant states in the industry were Queensland with 11.4 million head and New South
	Wales with 5.9 million head.
Sheep and lambs	Final estimates indicate the number of sheep and lambs in Australia was
	91.0 million head at 30 June 2006. The dominant states in the industry were New South
	Wales with 32.1 million head, Western Australia with 22.1 million head and Victoria with
	17.9 million head. Respondents indicated that there was significant destocking during
	the year, including on-farm deaths. The number of lambs marked in Australia was
	reported as 35.1 million in 2005–06.
Pigs	The number of pigs in Australia was 2.7 million head at 30 June 2006. The dominant
	states in the industry were Queensland with 691,000 head, Victoria with 668,000 head
	and New South Wales with 655,000 head.

MURRAY-DARLING BASIN

The Murray-Darling Basin (MDB) covers an area 1,450 kilometres long and 1,000 kilometres wide and consists largely of plains rising to the Great Dividing Range on its eastern and southern rim. It includes the Australian Capital Territory, and parts of Queensland, New South Wales, Victoria and South Australia and covers 1,058,800 square kilometres or approximately one-seventh (14%) of the total area of Australia. The three main river systems that make up the Murray-Darling Basin include the Darling River and its tributaries, the Murrumbidgee River, the Lachlan River and Billabong Creek and their tributaries; and the River Murray itself and its tributaries.

Sometimes described as 'Australia's fruit bowl', in 2005-06 the MDB accounted for 54% of Australia's apple production, 87% of Australia's pear production and 95% of Australia's orange production. In addition to fruit growing, the MDB accounted for around 47% of Australia's cropping land with 46% of the 2005–06 wheat area, 52% of the 2005–06 barley area and 100% of the 2005–06 rice area.

Despite representing 18% of total grazing land, the availability of water combined with often favourable growing conditions saw the MDB account for 32% of Australia's dairy cattle at 30 June 2006 and 45% of Australia's sheep and lambs at 30 June 2006. The availability of feedgrain crops, water and close proximity to some major markets saw the MDB also account for significant intensive livestock farming with 35% of Australia's layer hens at 30 June 2006 and 62% of Australia's pigs at 30 June 2006.

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15	Fruit and nuts, production
16	Vegetables, production
17	Grapes, production
18	Livestock numbers
19	Land use, area

		NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
									• • • • •	
0111	Nursery production (undercover)	122	61	98	21	32	^ 13	^ 4	_	351
0112	Nursery production (outdoors)	284	236	202	89	76	30	^ 3	^3	923
0113	Turf growing	130	20	130	^ 10	45	2	1	*1	339
0114	Floriculture production									
	(undercover)	61	68	50	^ 12	25	^9	_	_	224
0115	Floriculture production (outdoors)	185	153	136	63	93	30	^ 11	_	670
0121	Mushroom growing	43	17	27	^ 6	^ 10	2	_	_	106
0122	Vegetable growing (undercover)	324	152	181	261	100	19	^ 5	_	1 043
0123	Vegetable growing (outdoors)	904	731	1 114	345	435	504	43	*1	4 077
0131	Grape growing	1 227	2 030	100	2 581	642	103	^ 7	*2	6 692
0132	Kiwifruit growing	^ 14	13	^6	^ 3	*1	_	_	_	38
0133	Berry fruit growing	100	154	149	24	49	47	_	_	522
0134	Apple and pear growing	107	251	48	75	110	83	_	^4	679
0135	Stone fruit growing	343	341	115	216	198	62	*1	—	1 276
0136	Citrus fruit growing	572	172	195	336	105	_	^ 6	_	1 387
0137	Olive growing	84	78	34	94	59	^9	*1	_	359
0139	Other fruit and tree nut growing	1 096	149	1 591	141	198	17	245	—	3 437
0141	Sheep farming (specialised)	5 270	3 731	383	1 585	1 484	621	_	19	13 093
0142	Beef cattle farming (specialised)	14 314	9 122	13 934	1 440	2 357	1 297	206	20	42 691
0143	Beef cattle feedlots (specialised)	199	77	294	36	92	^ 5	*1	—	705
0144	Sheep-beef cattle farming	3 805	2 123	629	815	495	352	—	23	8 242
0145	Grain-sheep or grain-beef cattle									
	farming	5 619	2 800	1 172	2 386	2 798	66	*1	—	14 843
0146	Rice growing	780	^ 7	—	_	—	—	—	—	787
0149	Other grain growing	2 844	2 785	1 087	3 204	2 530	28	_	—	12 478
0151	Sugar cane growing	459	—	3 739	_	^9	—	—	—	4 207
0152	Cotton growing	330	—	357	_	—	—	_	—	687
0159	Other crop growing n.e.c.	497	666	823	128	146	88	^ 14	*1	2 362
0160	Dairy cattle farming	1 253	5 948	911	457	280	522	—	—	9 371
0171	Poultry farming (meat)	353	248	114	72	58	15	1	—	860
0172	Poultry farming (eggs)	156	122	64	51	54	18	1	1	468
0180	Deer farming	38	50	18	16	^9	^ 5	_	—	136
0191	Horse farming	919	527	656	132	177	58	^ 5	^4	2 478
0192	Pig farming	252	167	245	148	75	26	1	—	914
0193	Beekeeping	298	118	132	104	53	19	*1	*2	728
0199	Other livestock farming n.e.c.	286	195	169	47	75	18	^ 5	—	796
01	Total agriculture	43 268	33 310	28 905	14 901	12 872	4 068	564	81	137 968
99	All other industries	5 505	3 802	3 258	1 546	1 613	671	90	18	16 504
#	Total all Industries	48 773	37 112	32 163	16 447	14 485	4 739	654	99	154 472

estimate has a relative standard error of 10% to less than 25% * estimate has a relative standard error of 25% to 50% and should be used with caution and should be used with caution

be used with caution

— nil or rounded to zero (including null cells)

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ESTIMATED VALUE OF AGRICULTURAL OPERATIONS (\$'000)

		Less than						
		22.5(a)	22.5-49.9	50.0-99.9	100.0-149.9	150.0-199.9	200.0-349.9	350.0-499.9
• • • • •				•••••		• • • • • • • • • • •		• • • • • • • • • •
0111	Nursery production (undercover)	125	65	65	31	22	23	^ 11
0112	Nursery production (outdoors)	90	125	200	120	62	141	61
0113	Turf growing	^ 14	23	46	28	33	72	23
0114	Floriculture production							
	(undercover)	116	34	35	^ 14	^ 11	^ 10	^ 2
0115	Floriculture production (outdoors)	73	129	173	79	61	67	32
0121	Mushroom growing	*2	^9	^ 14	*1	*2	17	^ 2
0122	Vegetable growing (undercover)	294	275	229	67	46	57	^ 19
0123	Vegetable growing (outdoors)	447	479	619	378	279	537	330
0131	Grape growing	1 673	1 907	1 476	558	301	373	147
0132	Kiwifruit growing	^ 4	^ 14	^ 7	^ 4	^ 5	*1	1
0133	Berry fruit growing	58	68	103	59	33	56	44
0134	Apple and pear growing	81	59	86	71	63	118	66
0135	Stone fruit growing	211	209	268	162	66	162	71
0136	Citrus fruit growing	180	178	237	184	124	162	107
0137	Olive growing	254	43	19	^ 11	^2	^ 11	^ 5
0139	Other fruit and tree nut growing	677	690	647	388	213	313	141
0141	Sheep farming (specialised)	2 518	2 313	2 604	1 738	1 126	1 646	564
0142	Beef cattle farming (specialised)	14 866	10 630	7 111	3 032	1 744	2 310	1 011
0143	Beef cattle feedlots (specialised)	66	82	129	42	43	86	43
0144	Sheep-beef cattle farming	877	1 211	1 675	1 211	812	1 315	546
0145	Grain-sheep or grain-beef cattle							
	farming	587	1 069	2 050	1 895	1 598	3 351	1 821
0146	Rice growing	*1	*1	30	60	91	228	129
0149	Other grain growing	667	798	1 227	1 023	949	2 133	1 593
0151	Sugar cane growing	129	314	792	825	540	899	364
0152	Cotton growing	^ 5	*1	^ 7	^ 9	^8	51	57
0159	Other crop growing n.e.c.	499	437	452	240	165	249	96
0160	Dairy cattle farming	192	357	755	998	1 212	2 960	1 439
0171	Poultry farming (meat)	44	^ 13	25	^ 20	17	100	106
0172	Poultry farming (eggs)	75	42	33	31	29	58	32
0180	Deer farming	56	34	25	^ 12	*2	^ 5	_
0191	Horse farming	812	705	486	198	88	91	41
0192	Pig farming	85	86	87	70	46	120	85
0193	Beekeeping	239	222	164	59	17	23	1
0199	Other livestock farming n.e.c.	576	87	58	31	14	15	^3
01	Total agriculture	26 593	22 707	21 933	13 650	9 824	17 762	8 995
99	All other industries	6 498	3 468	2 617	1 136	598	999	430
#	Total all Industries	33 091	26 174	24 550	14 785	10 423	18 761	9 425

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estimate has a relative standard error of 10% to less than 25% and should be used with caution

— nil or rounded to zero (including null cells)

estimate has a relative standard error of 25% to 50% and should be used with caution

(a) Establishments on the population frame with EVAO of less than \$5,000 are not in scope of the survey; however some respondents to the census may report activity below this level.

continued

ESTIMATED VALUE OF AGRICULTURAL OPERATIONS (\$'000)

		500.0-999.9	1000.0-1999.9	and above	establishments
		• • • • • • • • • •	•••••		
0111 Ni	ursery production (undercover)	^8	_	*1	351
0112 Ni	ursery production (outdoors)	63	37	25	923
0113 Tu	urf growing	57	24	19	339
0114 Fl	loriculture production				
•==•	(undercover)	^1	_	_	224
0115 Fl	loriculture production (outdoors)	34	14	8	670
0121 M	lushroom growing	18	^ 12	27	106
0122 Ve	egetable growing (undercover)	34	16	7	1 043
0123 Ve	egetable growing (outdoors)	474	291	243	4 077
0131 Gr	rape growing	155	70	30	6 692
0132 Ki	iwifruit growing	^1	_	1	38
0133 Be	erry fruit growing	56	29	18	522
0134 Ar	pple and pear growing	78	35	23	679
0135 St	tone fruit growing	64	37	25	1 276
0136 Ci	itrus fruit growing	118	57	39	1 387
0137 0	live growing	^4	^ 7	*2	359
0139 Ot	ther fruit and tree nut growing	217	98	51	3 437
0141 Sł	heep farming (specialised)	486	84	13	13 093
0142 Be	eef cattle farming (specialised)	1 230	488	269	42 691
0143 Be	eef cattle feedlots (specialised)	87	45	81	705
0144 Sł	heep-beef cattle farming	471	113	11	8 242
0145 Gr	rain-sheep or grain-beef cattle				
	farming	1 938	459	74	14 843
0146 Ri	ice growing	169	56	22	787
0149 Ot	ther grain growing	2 655	1 185	248	12 478
0151 Si	ugar cane growing	271	58	14	4 207
0152 Co	otton growing	184	190	174	687
0159 Ot	ther crop growing n.e.c.	153	51	20	2 362
0160 Da	airv cattle farming	1 199	226	36	9 371
0171 Pc	oultry farming (meat)	282	174	79	860
0172 Pc	oultry farming (eggs)	75	52	42	468
0180 De	eer farming	1		_	136
0191 Ho	orse farming	30	^ 15	13	2 478
0192 Pi	ig farming	140	97	98	914
0193 Be	eekeeping	1	*1	_	728
0199 Ot	ther livestock farming n.e.c.	11	*1	_	796
01 Tc	otal agriculture	10 765	4 023	1 716	137 968
99 AI	Il other industries	462	202	93	16 504
# To	otal all Industries	11 227	4 225	1 810	154 472

* estimate has a relative standard error of 10% to less than 25% and should be used with caution

 estimate has a relative standard error of 25% to 50% and should be used with caution

nil or rounded to zero (including null cells)

		AREA OF HOL	DING (ha)				
		0-49	50-99	100-499	500-999	1000-2499	2500-24999
• • • • •							
0111	Nursery production (undercover)	320	^ 13	11	^ 4	*1	^2
0112	Nursery production (outdoors)	807	55	55	^2	^3	_
0113	Turf growing	229	48	54	^3	^3	*1
0114	Floriculture production						
	(undercover)	219	*2	*2	_	_	_
0115	Floriculture production (outdoors)	519	66	70	^8	^3	^ 4
0121	Mushroom growing	100	^ 4	1	1	—	—
0122	Vegetable growing (undercover)	966	26	33	^ 11	^7	_
0123	Vegetable growing (outdoors)	2 250	619	956	135	79	37
0131	Grape growing	5 167	707	680	78	40	19
0132	Kiwifruit growing	29	^6	^ 3	—	—	—
0133	Berry fruit growing	453	39	25	^ 4	*1	—
0134	Apple and pear growing	426	111	132	9	1	—
0135	Stone fruit growing	1 004	133	123	8	*5	^3
0136	Citrus fruit growing	1 038	162	134	27	14	11
0137	Olive growing	248	42	44	^ 10	^ 9	^ 4
0139	Other fruit and tree nut growing	2 458	530	371	39	28	8
0141	Sheep farming (specialised)	1 138	944	5 056	2 438	1 920	1 151
0142	Beef cattle farming (specialised)	8 360	7 011	15 054	3 909	3 319	3 780
0143	Beef cattle feedlots (specialised)	108	60	195	92	112	126
0144	Sheep-beef cattle farming	485	472	2 877	1 716	1 526	853
0145	Grain-sheep or grain-beef cattle						
	farming	411	402	3 461	3 544	4 594	2 378
0146	Rice growing	^9	^9	399	178	134	53
0149	Other grain growing	553	417	2 753	2 303	3 561	2 858
0151	Sugar cane growing	939	1 218	1 829	139	57	23
0152	Cotton growing	^8	^ 6	127	143	211	182
0159	Other crop growing n.e.c.	747	484	802	167	103	54
0160	Dairy cattle farming	845	1 608	6 143	588	161	26
0171	Poultry farming (meat)	638	80	123	^ 10	8	*1
0172	Poultry farming (eggs)	346	52	46	12	^ 7	5
0180	Deer farming	52	35	40	^ 5	1	^3
0191	Horse farming	1 361	416	557	77	33	29
0192	Pig farming	286	137	291	106	72	23
0193	Beekeeping	613	45	52	^ 10	^ 3	^ 4
0199	Other livestock farming n.e.c.	397	101	166	41	32	31
01	Total agriculture	33 530	16 062	42 666	15 819	16 051	11 669
99	All other industries	7 058	2 517	4 437	1 060	830	491
#	Total all industries	40 587	18 579	47 104	16 879	16 880	12 160

estimate has a relative standard error of 10% to less than 25% and should be used with caution * estimate has a relative standard error of 25% to 50% and should be used with caution

should be used with caution

with caution

— nil or rounded to zero (including null cells)

AREA OF HOLDING (ha) continued

		25000-99999	100000-199999	200000-499999	500000 or more	Total establishments
• • • • •					• • • • • • • • • • • •	
0111	Nursery production (undercover)	_	_	_	_	351
0112	Nursery production (outdoors)		_	_	_	923
0113	Turf growing		_	_	_	339
0114	Floriculture production					004
0115	(undercover)	_	_	_	_	224
0110	Muchana growing		_	_	_	670
0121	Wushroom growing		—		_	100
0122	Vegetable growing (undercover)	1	_	_	_	1 043
0123		T	_	_	_	4 077
0131	Grape growing	_	_	_	_	6 692
0132	Kiwitruit growing		—	—	—	38
0133	Berry fruit growing		—	—		522
0134	Apple and pear growing		—	—	_	679
0135	Stone fruit growing		—	—	_	1 276
0136	Citrus fruit growing	_	—	—	_	1 387
0137	Olive growing	—	—	—	—	359
0139	Other fruit and tree nut growing	^2	—	—	—	3 437
0141	Sheep farming (specialised)	335	65	39	6	13 093
0142	Beef cattle farming (specialised)	730	187	248	93	42 691
0143	Beef cattle feedlots (specialised)	^9	_	_	^ 2	705
0144	Sheep-beef cattle farming	252	35	24	1	8 242
0145	Grain-sheep or grain-beef cattle					
	farming	47	^ 6	1	_	14 843
0146	Rice growing	^3	1	_	_	787
0149	Other grain growing	32	_	^1	_	12 478
0151	Sugar cane growing	*1	_	_	_	4 207
0152	Cotton growing	^ 10	_	_	_	687
0159	Other crop growing n.e.c.	^ 4	_	_	_	2 362
0160	Dairy cattle farming	1	_	_	_	9 371
0171	Poultry farming (meat)	_	_	_	_	860
0172	Poultry farming (eggs)	_	_	_	_	468
0180	Deer farming	_	_	_	_	136
0191	Horse farming	^4	1	_	_	2 478
0192	Pig farming	_	_	_	_	914
0193	Beekeeping	_	_	_	_	728
0199	Other livestock farming n.e.c.	25	^2	1	_	796
01	Total agriculture	1 457	297	315	102	137 968
99	All other industries	69	^ 20	21		16 504
#	Total all industries	1 526	317	336	103	154 472
	•••••					

estimate has a relative standard error of 10% to less than 25%

and should be used with caution

* estimate has a relative standard error of 25% to 50% and should

be used with caution

- nil or rounded to zero (including null cells)

CROPS, Production—Year ended 30 June 2006

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
		• • • • • •							• • • • • •
Cereal for grain									
Barley Production ('000 t) Area ('000 ha)	2 336 1 103	2 004 866	166 129	2 548 1 169	2 400 1 129	28 8	na na		9 482 4 406
Grain sorghum Production ('000 t) Area ('000 ha)	888 327	^1 ^_	1 038 436	^1 —	^ 3 ^ 2	na na	*1 ^1		1 932 767
Maize Production ('000 t) Area ('000 ha)	212 31	19 2	129 34	na na	^2 ^1	na na	* *	_	362 67
Oats Production ('000 t) Area ('000 ha)	633 416	328 151	7 16	120 72	591 271	8 4	na na	*^	1 688 930
Rice Production ('000 t) Area ('000 ha)	992 101	10 1	na na	na na		na na	_		1 003 102
Triticale Production ('000 t) Area ('000 ha)	374 141	262 121	^1 ^1	126 83	60 43	7 2	na na	_	830 392
Wheat Production ('000 t) Area ('000 ha)	8 049 3 554	2 909 1 315	1 218 778	3 853 2 035	9 088 4 753	34 8	na na	 *	25 150 12 443
Legumes									
Field peas for grain Production ('000 t) Area ('000 ha)	56 37	166 99	^ 1	258 143	103 85	2 1	na na	_	585 366
Lupins Production ('000 t) Area ('000 ha)	62 37	36 27	*	121 72	1 064 672	^1 ^_	na na	_	1 285 809
Oilseeds									
Canola Production ('000 t) Area ('000 ha)	314 194	273 191	^1 ^1	213 147	617 437	1 1	na na		1 419 972
Total oilseeds Production ('000 t) Area ('000 ha)	435 292	276 196	23 17	214 149	617 437	1 1	* *		1 565 1 091
Other crops									
Cotton lint Production ('000 t) Area ('000 ha)	345 197	na na	214 130	na na	*	na —	_		560 327
Peanuts (in shell) Production ('000 t) Area ('000 ha)	^1 ^_	na —	24 12	na na		na na	_	na na	25 12
Sugar cane cut for crushing Production ('000 t)	2 283	na	34 385	na	^ 461	na	_	_	37 128
Area (1000 ha) Tobacco Production ('000 t)	18 na	na 3	375	na na	~ 4 	_	_	_	398
Area ('000 ha)	—	1	*	_	—	—	_	—	1
• • • • • • • • • • • • • • • • •		• • • • • •		• • • • • • •	• • • • • • •		• • • • • •		• • • • • •

estimate has a relative standard error of 10% to less — nil or rounded to zero (including null cells)

than 25% and should be used with caution na not available * estimate has a relative standard error of 25% to

50% and should be used with caution

i trus Lemons and limes		• • • • • • •							
itrus Lemons and limes									
Lemons and limes									
Production (t)	6 403	7 162	^ 12 459	6 662	^ 665	na	^ 145	_	33 49
Trees ('000)	158	93	132	78	^ 14	na	^ 16	—	49
Mandarins									
Production (t)	6 249	6 262	60 355	17 212	2 270	na	*	_	92 34
Trees (1000)	164	109	1 022	244	74	na	*	_	161
Oranges									
Production (t)	244 441	85 653	11 084	158 808	7 247	na	_	_	50723
nees (000)	3 570	1 025	140	1 014	204	lla		_	0.55
Apriooto									
Production (t)	269	11 5/5	^ 21 /	1 1 9 9	222	271	n 0	*	16.02
	208	296	214	4 100	222	73	na	*	10 92
Chorrise	15	230	22	100	22	15	na		00
Production (t)	1 109	2 200	^ 10	9/7	125	095	n 0		0.79
	4 406 704	3 390	10 ^ 11	047 231	30 T20	960 271	na		970 155
Nectoringo	104	502	11	201	55	211	na	_	1 00
Production (t)	6 959	22.050	2 2 2 2 2	2 529	2 096	126	n 0		19 0/
	0 000	33 959 770	2 303	2 526	3 000	120	na	*	40 94
Decebee	415	110	102	00	200	13	IId		100
Production (t)	10.071	72 104	0 7 2 0	2 665	1 052	100	20	*	00.63
	10 07 I	1 266	2 / 30 ^ 225	2 005	122	100	na	*	90 03
Diuma and prupas	445	1 200	220	04	133	12	IId		2 24
Plums and prunes	7 625	10 295	1 0 1 0	0 210	1 101	00		*	26.25
	620	522 LD	1 84Z	2 312 79	4 184	98 ^ 10	_	*	20 30
ther erebord fruit	050	522	114	10	505	12			114
Production (t)	5 8//	1 870	22 165	1 61/	2 950	na			34 45
	137	56	364	42	2 330	na			68
Mangaas	101	50	004	72	01	na			00
Production (t)	162	na	25 125	na	2 5/5	na	8 516		36 3/
Trees (1000)	36	na	926	na	2 343	na	352	_	1 43
	00	na	020	na	122	na	002		1 10
Production (t)	6 194	22 231	^ 1 411	5 1 1 1	^ 7 109	^ 121	_	_	42 17
Trees ('000)	^ 639	428	^ 264	356	^ 593	^ 26	_	_	2 30
uts	000	120	201	000	000	20			200
Almond (kernel)									
Production (t)	^ 695	4 661	_	7 064	na	na	na	_	12 42
Trees ('000)	^ 67	475	_	794	na	na	na		1 33
Macadamia									
Production (t)	19 720	na	11 891	na	*3	na	na		31 61
Trees ('000)	2 083	na	1 2 4 1	na	*1	na	na		3 32
erry fruit									
Blueberries									
Production (t)	1 996	234	*	*10	^	^ 75	_		2 31
Area (ha)	434	86	_	*6	^1	^ 20	_		54
Strawberries									
Production (t)	^ 281	6 6 1 8	12 929	2 216	4 870	421	_	_	27.33
Area (ha)	^ 51	335	568	84	172	31	_	_	1 24
ronical									
Bananas									
Production (t)	15 898	na	164 787	na	^ 5 058	na	1 641	_	187 38
Area bearing (ha)	1 514	na	9 386	na	201	na	67	_	11 16
Panaws/Panava									
Production (t)	^ 18	na	^ 5 956	na	^ 375	na	^ 107	_	^ 6 45
Area bearing (ha)	^ 15	na	348	na	^ 19	na	^ 22	_	40
Pineannles									
Production (t)	_	na	152 944	na	na	na	*71	_	153 01
Area bearing (ha)	1	na	3 028	na	na	na	*6	_	3.03
	-		2 020						0.00

* estimate has a relative standard error of 25% to 50% and should be used with caution

VEGETABLES, Production—Year ended 30 June 2006

9 368 1 847 358 ^62 3 429 694 1 110 76 22 178 2 933 24 142 701 ^2 161 ^117	^98 ^75 ^554 ^210 19 158 3 948 ^31 475 ^1 181 10 218 1 400 20 373 456	*6 *1 ^1 ^39 318 *222 *8 ^1037 ^93 ^6930 ^121	^111 ^53 ^27 *16 ^1095 ^233 ^286 ^17 5781 478 5792 118	^1 ^2 11 665 1 171 ^90 39 *79 *3 5 741 ^690 ^1 280 ^46	 *2 *1 *1 *1 *1		9 737 2 056 12 614 1 473 25 264 5 673 36 425 1 424 48 398 6 403 78 518 2 115
358 ^62 3 429 694 1 110 76 22 178 2 933 24 142 701 ^2 161 ^117	 554 210 19 158 3 948 31 475 1 181 10 218 1 400 20 373 456 49 952 	*6 ^11 ^39 318 *222 *8 ^1037 ^93 ^6 930 ^121	^ 27 *16 ^ 1 095 ^ 233 ^ 286 ^ 17 5 781 478 5 792 118	11 665 1 171 ^ 90 39 *79 *3 5 741 ^ 690 ^ 1 280 ^ 46	 *2 *1 *1 *1		12 614 1 473 25 264 5 673 36 425 1 424 48 398 6 403 78 518 2 115
358 ^62 3 429 694 1 110 76 22 178 2 933 24 142 701 ^2 161 ^117	 554 210 19 158 3 948 31 475 1 181 10 218 1 400 20 373 456 49 952 	*6 ^11 ^39 318 *222 *8 ^1037 ^93 ^6930 ^121	^ 27 *16 ^ 1 095 ^ 233 ^ 286 ^ 17 5 781 478 5 792 118	11 665 1 171 ^ 90 39 *79 *3 5 741 ^ 690 ^ 1 280 ^ 46	 *2 *1 *1 *1		12 614 1 473 25 264 5 673 36 425 1 424 48 398 6 403 78 518 2 115
3 429 694 1 110 76 22 178 2 933 24 142 701 ^ 2 161 ^ 117	19 158 3 948 ^ 31 475 ^ 1 181 10 218 1 400 20 373 456	^ 39 318 *222 *8 ^1037 ^93 ^6 930 ^121	^1095 ^233 ^286 ^17 5781 478 5792 118	^ 90 39 *79 *3 5 741 ^ 690 ^ 1 280 ^ 46	*2 *1 *1 *1		25 264 5 673 36 425 1 424 48 398 6 403 78 518 2 115
1 110 76 22 178 2 933 24 142 701 ^2 161 ^ 117	^ 31 475 ^ 1 181 10 218 1 400 20 373 456 49 952	*222 *8 ^1037 ^93 ^6930 ^121	^ 286 ^ 17 5 781 478 5 792 118	*79 *3 5 741 ^690 ^1 280 ^46	 *1 *1		36 425 1 424 48 398 6 403 78 518 2 115
22 178 2 933 24 142 701 ^2 161 ^117	10 218 1 400 20 373 456 49 952	^1037 ^93 ^6930 ^121	5 781 478 5 792 118	5 741 ^ 690 ^ 1 280 ^ 46	*1 *1		48 398 6 403 78 518 2 115
24 142 701 ^ 2 161 ^ 117	20 373 456 49 952	^ 6 930 ^ 121	5 792 118	^1280 ^46	*1 *1		78 518 2 115
^ 2 161 ^ 117	49 952	A 455					0
^ 2 161 ^ 117	49 952	~ ~ ~ – –					
	1 847	^ 155 ^ 14	^ 1 291 ^ 105	*17 *1	_	_	54 184 2 178
^ 752 ^ 6	*54 *3	2 586 92	^ 2 626 ^ 59	*289 *2	*63 *3	_	6 550 171
41 541 1 964	22 148 604	60 024 1 260	62 064 1 019	54 705 803	_		264 961 6 314
29 571 1 002	15 072 614	^ 8 621 ^ 257	5 508 307	6 336 351			76 568 3 039
33 193 701	5 458	*4 429	7 234	580 15	_	_	50 938
701	112	-10	100	15			1113
^12 ^3	2 796 243	^ 137 ^ 24	^ 460 ^ 52	_	^ 46 ^ 12	_	3 875 398
^ 346 ^ 3	^ 7 400 *83	3 543 90	^ 3 109 ^ 34	^68 ^1	142 ^ 3	_	19 395 284
46 162 2 279	48 803 1 708	4 467 ^ 221	7 586 316	^1 008 ^54	_	_	126 664 5 397
	*247	**208	*206	_	_	_	^ 1 613
	^12 ^3 ^346 ^3 46 162 2 279 *11 *1	^12 2 796 ^3 243 ^346 ^7 400 ^3 *83 46 162 48 803 2 279 1 708 *11 *247 *1 *5	^ 12 2 796 ^ 137 ^ 3 243 ^ 24 ^ 346 ^ 7 400 3 543 ^ 3 *83 90 46 162 48 803 4 467 2 279 1 708 ^ 221 *11 *247 **208 *1 *5 **4	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

should be used with caution

estimate has a relative standard error of 25% to 50% and should be used — nil or rounded to zero (including null cells)

too unreliable for general use

with caution

VEGETABLES, Production—Year ended 30 June 2006 continued

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
								• • • • • • • •	
ettuces cont.									
Lettuce, looseleaf, butterhead, coloured fancy Outdoor									
Production (t) Area (ha)	^ 7 616 ^ 381	^ 12 385 1 351	^ 3 271 ^ 231	2 852 177	^ 3 272 ^ 172	1 117 178	*3 *	_	30 516 2 490
Undercover Production (t) Area (ha)	^ 2 610 ^ 80	^ 196 ^ 5	^ 831 ^ 29	*33 *2	*157 *2	^2 ^	*211 *18	_	^ 4 040 ^ 136
lelons									
Rock and cantaloupe Production (t) Area (ha)	^ 21 315 789	^ 5 907 ^ 264	32 374 1 320	2 311 109	20 211 595		2 902 121	_	85 020 3 197
Water									
Production (t) Area (ha)	^ 26 414 842	3 978 140	73 446 2 691	1 256 25	15 818 550	_	^ 12 866 416	_	133 779 4 664
lushrooms Production (t)	15.016	10 910	7 102	3 /50					12 6/1
Area (ha)	54	64	23	15	np	np	_	_	43 041
nions(a)									
Production (t) Area (ha)	19 266 486	10 436 277	27 410 729	80 780 1 574	14 951 234	68 831 1 226	250 11	_	221 923 4 537
eas, green Processing (shelled weight)									
Production (t) Area (ha)		^ 14 ^ 12	*1 *2	*4 *1	*308 *160	16 552 3 589	_	_	16 879 3 762
Fresh market (pod									
Production (t)	^ 187	^ 329	^ 228	^ 10	*19	*34	_	_	807
Area (ha)	^ 115	^ 282	^ 81	^ 10	^ 7	*15	_	_	511
Processing									
Production (t)	82 393	180 291	41 210	125 987	34 381	266 026	_	_	730 288
Area (ha)	2 695	4 803	^ 1 481	2 795	900	5 522	_	_	18 196
Fresh market	40 5 44	400.044	50.070	004 704	FF 040	00 500			F40 0/-
Production (t) Area (ha)	48 541 2 451	109 044 3 737	52 379 2 158	231 784 6 690	55 040 1 249	22 529 788	_	_	519 317 17 072
umpkins									
Production (t)	30 643	3 117	47 161	5 019	22 478	1 858	629	—	110 906
Area (na)	2 009	269	3 401	270	894	. 111	30	—	6 990
Processing									
Production (t)	^ 22 526	400	3 732	—	216	—	—	_	26 873
Area (ha)	^1370	30	^ 551	—	28	—	—	—	1 978
Fresh market	1 499	8 120	24 282	^ 260	^ 2 455	96	_	_	36 821
Area (ha)	217	733	2 890	52	2 455	15	_	_	4 164
omatoes Processing									
Production (t)	63 665	208 184	^ 2 436	*303	*1 484	*19	_	_	276 091
Area (ha)	1 031	2 419	^ 191	*12	*64	*1	—	—	3 717

 estimate has a relative standard error of 25% to 50% and should be used with caution p not available for publication but included in totals where applicable, unless otherwise indicated

(a) Includes brown, red and white onions.

VEGETABLES, Production—Year ended 30 June 2006 continued

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
omatoes cont.									
Fresh market Outdoor									
Production (t)	3 260	30 866	102 692	^ 402	^ 10 825	*20	*62	*1	148 128
Area (ha)	220	^ 804	2 509	^ 29	268	^	*3	*	3 833
Undercover									
Production (t)	8 892	6 365	^ 3 543	^ 5 498	^ 1 443	^ 492	*6	_	26 240
Area (ha)	69	26	^ 18	64	^ 18	^ 5	*	_	200
ucchini and button squash									
Production (t)	2 164	2 192	16 827	^ 358	^ 1 138	*32	^ 50	_	22 761
Area (ha)	352	^ 237	1 909	^ 98	99	*4	8	_	2 707

 estimate has a relative standard error of 10% to less than 25% and should be used with caution estimate has a relative standard error of 25% to 50% and should be used with caution

— nil or rounded to zero (including null cells)

GRAPES, Production(a)(b)—Year ended 30 June 2006

	NSW	Vic.	QLD	SA	WA	Tas.	NT	ACT	Aust.
	AREA OF	VINES	AT HAR	VEST (ha	a)				
Bearing area	36 632	36 597	2 449	69 771	11 375	999	237	106	158 167
Not yet bearing: planted or grafted prior to collection year Not yet bearing: planted or grafted during	2 235	1 537	147	2 130	531	150	36	2	6 768
collection year	1 331	846	17	1 187	370	105	—	_	3 856
Total area of vines	40 198	38 980	2 613	73 088	12 276	1 254	273	108	168 790
GI	RAPE PRO	DUCTIO	N (fres	h weight) (t)				• • • • • • • •
Winemaking	473 580	354 796	4 764	881 346	60 840	5 571	30	742	1 781 668
Drying	17 996	96 623	_	2 847	354	_	_	_	117 819
Table and other	18 327	45 755	10 301	1 621	4 163	—	1 544	—	81 710
Total production	509 903	497 174	15 064	885 814	65 356	5 571	1 574	742	1 981 198
	• • • • • • • •		•••••						• • • • • • • •
 — nil or rounded to zero (including null cells) 			(b) Al	l grape data a	are sourced t	rom the a	nnual Vine	yards col	lection and
(a) Varietal information is available in Australian V	Vine and Grap	e Industry	no	ot the Agricult	ural Census.				

(a) Varietal information is available in Australian Wine and Grape Industry (cat. no. 1329.0).

CATTLE—Year ended 30 June 2006

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
	• • • • • • •	•••••	(1000)	• • • • • • •	••••	• • • • • •	• • • • • •	• • • • •	• • • • • • •
		CATTLE	(000)						
Milk cattle(a)									
Cows in milk and dry	222	1 217	127	104	67	143	_	*	1 880
Other milk cattle	127	541	66	64	49	61	—	*	908
Total milk cattle and calves	349	1 758	194	168	116	203	—	*	2 788
Meat cattle									
Bulls and bull calves used or intended for									
service	172	72	287	33	59	12	62	_	698
Other calves under one year	1 387	755	2 132	304	602	136	333	2	5 651
Cows and heifers one year and over	2 997	1 272	5 745	591	1 199	228	1 160	5	13 197
Other cattle one year and over	1 305	547	3 189	233	415	124	243	2	6 060
Total meat cattle and calves	5 862	2 646	11 354	1 161	2 275	501	1 798	9	25 605
Total cattle and calves	6 211	4 403	11 548	1 329	2 391	704	1 798	9	28 393
AGRICULT	URAL B	USINES	SES WIT	ГН САТ	TLE (no	o.)			
AGRICULT Milk cattle(a)	URAL B	USINES	SES WI	TH CAT	TLE (no).)			
AGRICULT Milk cattle(a) Cows in milk and dry	URAL B	USINES 5 562	SES WI1 923	TH CAT	TLE (no 288	501	_	*1	8 965
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle	URAL B 1 262 1 295	5 562 5 806	SES WI 923 916	TH CAT 428 481	TLE (no 288 297	501 512	_	*1 *1	8 965 9 308
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle Total milk cattle and calves	URAL B 1 262 1 295 1 441	U SINES 5 562 5 806 6 099	SES WI 923 916 1015	TH CAT 428 481 506	TLE (nc 288 297 314	501 512 570		*1 *1 *1	8 965 9 308 9 945
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle Total milk cattle and calves Meat cattle	URAL B 1 262 1 295 1 441	U S I N E S 5 562 5 806 6 099	923 916 1 015	428 481 506	TLE (no 288 297 314	501 512 570		*1 *1 *1	8 965 9 308 9 945
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle Total milk cattle and calves Meat cattle Bulls and bull calves used or intended for	URAL B 1 262 1 295 1 441	5 562 5 806 6 099	923 916 1 015	TH CAT 428 481 506	TLE (nc 288 297 314	501 512 570		*1 *1 *1	8 965 9 308 9 945
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle <i>Total milk cattle and calves</i> Meat cattle Bulls and bull calves used or intended for service	URAL B 1 262 1 295 1 441 22 280	USINES 5 562 5 806 6 099 11 912	923 916 1 015	TH CAT 428 481 506 3 607	TLE (nc 288 297 314 3 977	501 512 570 1 882	 217	*1 *1 *1	8 965 9 308 9 945 59 522
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle <i>Total milk cattle and calves</i> Meat cattle Bulls and bull calves used or intended for service Other calves under one year	URAL B 1 262 1 295 1 441 22 280 21 756	USINES 5 562 5 806 6 099 11 912 12 837	923 916 1 015 15 600 15 256	428 481 506 3 607 3 975	TLE (nc 288 297 314 3 977 4 004	501 512 570 1 882 2 076	 217 204	*1 *1 *1 46 45	8 965 9 308 9 945 59 522 60 152
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle <i>Total milk cattle and calves</i> Meat cattle Bulls and bull calves used or intended for service Other calves under one year Cows and heifers one year and over	URAL B 1 262 1 295 1 441 22 280 21 756 26 004	USINES 5 562 5 806 6 099 11 912 12 837 14 568	923 916 1 015 15 600 15 256 17 851	428 481 506 3 607 3 975 4 385	TLE (nc 288 297 314 3 977 4 004 4 495	501 512 570 1 882 2 076 2 389	 204 225	*1 *1 *1 46 45 54	8 965 9 308 9 945 59 522 60 152 69 970
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle <i>Total milk cattle and calves</i> Meat cattle Bulls and bull calves used or intended for service Other calves under one year Cows and heifers one year and over Other cattle one year and over	URAL B 1 262 1 295 1 441 22 280 21 756 26 004 14 917	USINES 5 562 5 806 6 099 11 912 12 837 14 568 10 599	923 916 1 015 15 600 15 256 17 851 13 957	 TH CAT 428 481 506 3 607 3 975 4 385 2 885 	TLE (no 288 297 314 3 977 4 004 4 495 2 969	501 512 570 1 882 2 076 2 389 1 801	 204 225 179	*1 *1 *1 46 45 54 26	8 965 9 308 9 945 59 522 60 152 69 970 47 333
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle <i>Total milk cattle and calves</i> Meat cattle Bulls and bull calves used or intended for service Other calves under one year Cows and heifers one year and over Other cattle one year and over Total meat cattle and calves	URAL B 1 262 1 295 1 441 22 280 21 756 26 004 14 917 29 675	USINES 5 562 5 806 6 099 11 912 12 837 14 568 10 599 18 172	923 916 1 015 15 600 15 256 17 851 13 957 20 553	 TH CAT 428 481 506 3 607 3 975 4 385 2 885 5 127 	TLE (nc 288 297 314 3 977 4 004 4 495 2 969 5 179	5.) 501 512 570 1 882 2 076 2 389 1 801 3 029	 204 225 179 241	*1 *1 *1 46 45 54 26 61	8 965 9 308 9 945 59 522 60 152 69 970 47 333 82 036
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle Total milk cattle and calves Meat cattle Bulls and bull calves used or intended for service Other calves under one year Cows and heifers one year and over Other cattle one year and over Total meat cattle and calves	URAL B 1 262 1 295 1 441 22 280 21 756 26 004 14 917 29 675 30 373	USINES 5 562 5 806 6 099 11 912 12 837 14 568 10 599 18 172 21 891	923 916 1 015 15 600 15 256 17 851 13 957 20 553 21 061	 A CAT 428 481 506 3 607 3 975 4 385 2 885 5 127 5 356 	TLE (no 288 297 314 3 977 4 004 4 495 2 969 5 179 5 291	5.) 501 512 570 1 882 2 076 2 389 1 801 3 029 3 308	 204 225 179 241 241	*1 *1 *1 46 45 54 26 61 62	8 965 9 308 9 945 59 522 60 152 69 970 47 333 82 036 87 583
AGRICULT Milk cattle(a) Cows in milk and dry Other milk cattle <i>Total milk cattle and calves</i> Meat cattle Bulls and bull calves used or intended for service Other calves under one year Cows and heifers one year and over Other cattle one year and over Total meat cattle and calves Total cattle and calves	URAL B 1 262 1 295 1 441 22 280 21 756 26 004 14 917 29 675 30 373	USINES 5 562 5 806 6 099 11 912 12 837 14 568 10 599 18 172 21 891	923 916 1 015 15 600 15 256 17 851 13 957 20 553 21 061	 TH CAT 428 481 506 3 607 3 975 4 385 2 885 5 127 5 356 	TLE (no 288 297 314 3 977 4 004 4 495 2 969 5 179 5 291	5.) 501 512 570 1 882 2 076 2 389 1 801 3 029 3 308	 204 225 179 241 241	*1 *1 *1 46 45 54 26 61 62	8 965 9 308 9 945 59 522 60 152 69 970 47 333 82 036 87 583

 estimate has a relative standard error of 25% to 50% and should be used with caution

— nil or rounded to zero (including null cells)

(a) Excluding house cows.

SHEEP—Year ended 30 June 2006

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
		SH	FFP	• • • • • • •			• • • • •	• • • • •	• • • • • • •
		011							
Sheep ('000)	23 301	13 128	3 566	7 900	16 138	2 247	*	64	66 345
Lambs under one year ('000)	8 845	4 780	899	3 431	5 991	716	**1	20	24 684
Total sheep and lambs ('000)	32 146	17 908	4 466	11 331	22 129	2 963	*1	84	91 028
		••••	• • • • • •				• • • • •	• • • • •	• • • • • • •
		LAM	BING						
Ewes mated to produce lambs ('000)	15 080	8 276	1 796	5 503	10 713	1 317	*	28	42 713
Lambs marked ('000)	12 072	7 229	1 191	4 618	8 847	1 096	**	22	35 075
Proportion of lambs marked to ewes									
mated %	80.1	87.3	66.3	83.9	82.6	83.2	na	78.6	82.1
Ewes expected to lamb next year									
('000)(a)	15 923	8 415	1 741	5 769	11 001	1 400	*	32	44 282
AGRI	CULTUR	AL BUS	INESSE	S WITH	SHEEP				
Sheep	17 418	11 657	1 856	7 360	7 223	1 732	*4	45	47 296
Lambs under one year	14 159	9 191	1 325	6 071	5 507	1 374	*4	41	37 672
Total sheep and lambs	17 903	12 049	1 882	7 560	7 292	1 808	^ 5	47	48 547

^ estimate has a relative standard error of 10% to less than 25% and should be used with caution

estimate has a relative standard error of 25% to 50% and

should be used with caution

 ** $\,$ estimate has a relative standard error greater than 50% and is

considered too unreliable for general use

— nil or rounded to zero (including null cells)

na not available

(a) Forecast made at the beginning of each season.



PIGS—Year ended 30 June 2006

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
		PIGS	6 ('00	0)	• • • • •		• • • •	• • • • •	
Boars	3	3	3	2	2	_	_	na	12
Breeding sows	72	75	70	49	33	2	_	na	302
Gilts intended for breeding	^ 19	11	10	6	4	_	_	na	50
All other pigs	561	580	609	346	257	14	2	na	2 369
Total pigs	655	668	691	403	296	17	2	na	2 733
AGRICULT	JRAL	BUSI	NESSI	ES WI	TH P	IGS (no.)		
Boars	568	287	369	318	220	48	1	na	1 811
Breeding sows	634	327	406	335	231	52	1	na	1 985
Gilts intended for breeding	299	184	225	202	127	24	1	na	1 061
All other pigs	663	384	539	385	246	62	5	na	2 285
Total pigs	792	450	595	426	281	72	5	na	2 620
			• • • • •						

^ estimate has a relative standard error of 10% to less than 25% and should be used with caution

— nil or rounded to zero (including null cells)

na not available



CHICKENS—Year ended 30 June 2006

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
			• • • • • •	• • • • •				• • • •	
Chickens									
For meat production ('000)	30 385	23 327	9 982	np	6 898	np	—	_	78 448
For egg production ('000)	5 039	4 704	3 464	748	1 405	316	40	220	15 936
			• • • • • •					• • • •	

- nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

.

LAND USE, Area—Year ended 30 June 2006

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
• • • • • • • • • • • • • • • • • • • •		AREA ('	000 ha)						
Land under crop	6 988	3 388	2 541	4 499	7 293	75	^ 31	1	24 816
Land under fallow	1 661	435	1 734	212	488	21	^ 7	^	4 558
Land under commercial forestry plantations	402	85	225	54	159	55	*10	_	989
Grazing land(a)	49 993	7 431	135 563	48 886	84 764	1 251	56 812	38	384 737
Land covered by remnant vegetation or woodland									
not suitable for grazing(b)	2 003	405	3 640	1 037	3 332	240	^ 2 010	3	12 672
Wetlands or swamps not suitable for grazing	67	52	*162	^ 161	^ 620	14	*134	^	1 209
Environmentally sensitive areas fenced out of									
production	146	69	91	293	^ 355	18	14	_	986
Land surrounding and occupied by houses and									
sheds and other agriculturally unproductive land	287	128	624	132	^ 722	13	17	_	1 923
Other	188	61	268	58	186	^ 13	71	^	846
Land use not reported	391	264	676	78	736	39	22	2	2 207
Total area of holding(c)	62 125	12 318	145 523	55 410	98 655	1 740	59 127	45	434 943
Area of non-agricultural land(d)	17 939	10 424	27 542	42 938	154 333	5 100	75 786	191	334 259
Total land area(e)	80 064	22 742	173 065	98 348	252 988	6 840	134 913	236	769 202

estimate has a relative standard error of 10% to less than 25% and should be used with caution

estimate has a relative standard error of 25% to 50% and should be used with caution

nil or rounded to zero (including null cells)

(a) Includes pastures and rangelands.

(b) Excludes commercial plantations.

(c) Total area of agricultural businesses with EVAO of \$5,000 or more.

(d) Non-agricultural land is the difference between agricultural land as reported in the Agricultural Census and the total area of the state or territory. It comprises conserved land, forestry, urban and unused land such as vacant Crown land, commercially unused land on Aboriginal and other Crown reserves and waste land, ephemeral lakes and mangrove swamps, as well as land relating to agricultural businesses not included in the scope of the Agricultural Census.

(e) Total area for Australia includes Jervis Bay.



FENCING BUILT TO PROTECT AREAS FROM GRAZING—Year ended 30 June 2006

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
	km	km	km	km	km	km	km	km	km
		• • • • • • •		•••••	• • • • • • • •				
Fencing to protect									
Remnant native vegetation	1 423	1 020	569	779	1 562	170	43	_	5 565
Planted trees and shrubs	2 548	3 022	259	767	1 152	145	*1	^ 4	7 898
Creeks and rivers	2 607	2 378	1 938	395	1 203	219	^ 116	^ 11	8 867
Saline areas	404	481	^ 70	243	940	23	*1	_	2 162
Other degraded areas	505	363	393	124	^ 399	^ 15	*55	_	1 854
All other areas	2 947	1 762	2 444	691	1 274	269	^ 69	_	9 457
Total fencing length	10 433	9 028	5 673	3 000	6 529	840	285	^ 15	35 803

.

25% and should be used with caution

should be used with caution

- nil or rounded to zero (including null cells)



	Murray-Darling Basin	Rest of Australia	Australia
Cereals for grain Barley			
Production ('000 t) Area ('000 ha)	4 635 2 273	4 847 2 132	9 482 4 406
Grain sorghum Production ('000 t)	1 717	215	1 932
	013	155	101
Production ('000 t) Area ('000 ha)	302 48	60 20	362 67
Oats			
Production ('000 t) Area ('000 ha)	856 548	832 383	1 688 930
Triticale Production ('000 t) Area ('000 ha)	690 313	140 79	830 392
Wheat Production ('000 t)	12 110	13 040	25 150
Area ('000 ha)	5 753	6 690	12 443
Legumes Field peas for grain			
Production ('000 t) Area ('000 ha)	223 138	362 228	585 366
Lupins for grain Production ('000 t)	119	1 166	1 285
Area ('000 ha)	76	733	809
Oilseeds Canola			
Production ('000 t) Area ('000 ha)	489 328	929 644	1 419 972
Total oilseeds Production ('000 t) Area ('000 ha)	611 430	954 661	1 565 1 091
Other crops			
Cotton lint			
Production ('000 t) Area ('000 ha)	516 303	43 24	560 327

	Murray-Darling Basin	Rest of Australia	Australia
• • • • • • • • • • • • • • • • •			
Citrus Lemons and Limes	15 020	19.057	22 405
Trees ('000)	15 239	304	33 495 490
Mandarins Production (t) Trees ('000)	29 368 493	62 980 1 120	92 348 1 613
Oranges Production (t) Trees ('000)	482 320 6 033	24 912 520	507 233 6 553
Pome Apples			
Production (t) Trees ('000)	148 026 4 682	128 401 4 151	276 427 8 833
Pears (incl. nashi) Production (t) Trees ('000)	124 369 1 485	18 050 291	142 419 1 776
Stone			
Apricots Production (t) Trees ('000)	15 992 477	928 109	16 920 587
Cherries Production (t) Trees ('000)	7 002 947	2 781 611	9 783 1 557
Nectarines Production (t) Trees ('000)	42 058 1 232	6 882 420	48 940 1 652
Peaches Production (t) Trees ('000)	83 221 1 850	7 409 396	90 630 2 245
Plums and prunes Production (t)	21 509	4 846	26 355
Other probard fruit	1 303	439	1742
Avocados Production (t) Trees ('000)	4 838 117	29 614 563	34 452 680
Nuts			
Almond (kernal) Production (t) Trees ('000)	11 538 1 188	^ 882 ^ 148	12 420 1 336

estimate has a relative standard error of 10% to less than 25% and should be used with caution

 (a) Number of trees refers to trees of bearing age (ie. for apples it is trees four years and over, for fruit and nuts it is six years and over).
 Information on the total number of trees is available on request.

	Murray-Darling Basin	Rest of Australia	Australia
• • • • • • • • • • • • • • • •		• • • • • • • •	
Broccoli Production (t) Area (ha)	6 746 1 187	41 652 5 216	48 398 6 403
Capsicums, chillies and peppers Production (t) Area (ha)	9 970 387	53 692 2 235	63 662 2 623
Carrots Production (t) Area (ha)	50 019 1 439	214 942 4 875	264 961 6 314
Cauliflowers Production (t) Area (ha)	13 701 588	62 867 2 451	76 568 3 039
Lettuces Production (t) Area (ha)	32 597 1 609	130 235 6 444	162 832 8 053
Melons Rock and cantaloupe Production (t)	37 246	47 774	85 020
Area (na)	1 519	1678	3 197
Water Production (t) Area (ha)	41 950 1 346	91 828 3 318	133 779 4 664
Mushrooms Production (t) Area (ha)	^ 2 761 10	40 879 167	43 641 177
Onions(a) Production (t) Area (ha)	77 740 1 730	144 184 2 807	221 923 4 537
Potatoes Production (t) Area (ha)	396 896 12 103	852 708 23 165	1 249 605 35 268
Pumpkins Production (t) Area (ha)	35 284 2 300	75 622 4 690	110 906 6 990
Tomatoes Production (t) Area (ha)	306 413 4 308	144 045 3 442	450 459 7 750

^ estimate has a relative standard error of 10% to less than 25% and should be used with caution

(a) Includes brown, red and white onions.



Μ	urray-Darling Basin	Rest of Australia	Australia
		• • • • • • •	• • • • • • • •
AREA OF VINES AT HA	RVESI (H	A)	
Bearing area	95 423	62 743	158 167
Not yet bearing: planted or grafted prior to collection year	4 224	2 544	6 768
Not yet bearing: planted or grafted during collection year	2 678	1 178	3 856
Total area of vines	102 325	66 465	168 790
	•••••	• • • • • • •	
GRAPE PRODUCTION (FRE	SH WEIGH	IT) (T)	
Winemaking	1 319 649	462 020	1 781 668
Drying	117 232	587	117 819
Table and other	70 680	11 030	81 710
Total production	1 507 561	473 637	1 981 198

(a) Varietal information is available in Australian Wine and Grape Industry (cat.no.1329.0).

(b) All grape data are sourced from the annual Vineyards collection and not the Agricultural Census.

	Murray-Darling	Rest of	Australia					
	Basin	Australia	Australia					
MILK CAT	MILK CATTLE(a)							
Cows in milk and dry ('000) Other milk cattle ('000)	590 297	1 290 611	1 880 908					
Total milk cattle ('000)	887	1 901	2 788					
MEAT CA	TTLE							
Bulls and bull calves intended for								
service ('000)	197	502 2 077	698 5 651					
Cows and heifers one year and over	10/3	3911	2 021					
('000)	3 387	9 810	13 197					
Other cattle one year and over ('000)	1 829	4 231	6 060					
Total meat cattle ('000)	7 085	18 520	25 605					
		• • • • • • • •	• • • • • • •					
SHEEP AND	LAMBS							
Sheep ('000)	29 092	37 253	66 345					
Lambs under one year (000)	11 517	13 166	24 684					
Total sheep and lambs ('000)	40 609	50 419	91 028					
LAMBI	NG		• • • • • • •					
Ewes mated to produce lambs ('000)	18 851	23 862	42 713					
Lambs marked ('000)	15 301	19 773	35 075					
Proportion of lambs marked to ewes	81.2	82.0	82.1					
Ewes expected to lamb next year	01.2	02.5	02.1					
('000)(b)	19 522	24 760	44 282					
PIGS			• • • • • • •					
Boars ('000)	6	7	12					
Breeding sows ('000)	176	126	302					
Gilts intended for breeding ('000)	37	14	50					
All other pigs ('000)	1 489	880	2 369					
Total pigs ('000)	1 707	1 026	2 733					

(a) Excluding house cows.

(b) Forecast made at the beginning of each season.

	Murray-Darling	Rest of	
	Basin	Australia	Australia
AREA (1000	na)		
Land under crop	11 712	13 104	24 816
Land under fallow	3 060	1 498	4 558
Land under commercial forestry plantation	425	564	989
Grazing land(a)	68 953	315 784	384 737
Land covered by remnant vegetation or woodland			
not suitable for grazing(b)	3 067	9 605	12 672
Wetlands or swamps not suitable for grazing	121	1 088	1 209
Other environmentally sensitive areas	234	752	986
Land surrounding and occupied by houses and			
sheds and other agriculturally unproductive land	432	1 491	1 923
Other land use	331	514	846
Land use not reported	500	1 707	2 207
Total area of holding(c)	88 836	346 107	434 943
Non-agricultural land(d)	17 086	317 173	334 259
Total land area(e)	105 922	663 280	769 202

(a) Includes pastures and rangelands.

(b) Excludes commercial plantations.

(c) Total area of agricultural businesses with EVAO of \$5,000 or more.

(d) Non-agricultural land is the difference between agricultural land as reported in the Agricultural Census and the total area of the Murray-Darling Basin and the rest of Australia. It comprises conserved land, forestry, urban and unused land such as vacant Crown land, commercially unused land on Aboriginal and other Crown reserves and waste land, ephemeral lakes and mangrove swamps, as well as land relating to agricultural businesses not included in the scope of the Agricultural Census.

(e) Total area for Australia includes Jervis Bay.

EXPLANATORY NOTES

INTRODUCTION	1 This publication contains final estimates for the main commodities collected in the 2005–06 Agricultural Census and related collections (i.e. Apples and Pears Collection and Vineyards Collection). It contains detailed statistics on crops, livestock and livestock products, and industry and size characteristics of farms.
	 The main objective of the Agricultural Census is to provide benchmark information on the agriculture sector for small geographic areas. The collection has five main roles: to provide core production data to derive gross operating surplus and gross income for the farm sector; to support the determination and monitoring of agriculture policy; to support the determination and monitoring of natural resource and water policy as it relates to agriculture; to support decision makers involved in producing, supplying, marketing and trading agricultural commodities; and to support the monitoring of economic and social issues affecting rural communities.
	3 Where figures have been rounded, discrepancies may occur between sums of the component items and totals.
STATISTICAL UNITS USED	4 The ABS uses an economic statistics units model on the ABS Business Register (ABSBR) to describe the characteristics of businesses and the structural relationships between related businesses. The units model is used within large and diverse business groups to define reporting units that can provide data to the ABS at a suitable level.
	 5 The units model allocates businesses to one of two sub-populations: a) The majority of businesses are simple in structure and are allocated to the business population that is maintained by the Australian Taxation Office (ATO). These are termed (by the ABS) Australian Business Number (ABN) units. b) Businesses with more complex business structures are allocated to the business population maintained by the ABS. For agricultural businesses, these are primarily units which have multiple farm locations.
	6 Together these two sub-populations comprise the ABSBR population from which respondents to the 2005–06 Agricultural Census were drawn.
SCOPE AND COVERAGE	7 The scope of the 2005–06 Agricultural Census was essentially all agricultural businesses above a minimum size cut-off recorded on the Australian Business Register (ABR) maintained by the ATO.
	8 For the 2005–06 Agricultural Census, the measure of size was the ABS's Estimated Value of Agricultural Operations (EVAO) where available; or where it was not available a Business Activity Statement (BAS) turnover size was derived. A minimum size cut-off of \$5,000, based on either EVAO or BAS Turnover, was used to determine whether a unit was in-scope for the Census.
	9 While the Agricultural Census frame does not contain all agricultural businesses in Australia, it is expected to provide better coverage than the previous Agricultural Survey frame since most businesses and organisations in Australia need to obtain an Australian Business Number (ABN) from the ATO for their business operations. The Agricultural Census frame is also expected to be more up-to-date as it excludes agricultural businesses with cancelled ABNs and incorporates regularly updated information on agricultural businesses from the ATO.
	10 Final estimates indicate a total in-scope population of 154,000 agricultural businesses compared to approximately 130,000 establishments on the previous ABS-maintained frame of agricultural establishments.

EXPLANATORY NOTES continued

INDUSTRY CLASSIFICATION

11 The industry classification used in this publication differs from previous issues which used the 1993 version of the Australian and New Zealand Standard Industrial Classification (ANZSIC). This classification has since been revised. The estimates in this publication are based on the ANZSIC 2006 edition. ANZSIC 2006 was developed to provide a more contemporary industrial classification system taking into account issues such as changes in the structure and composition of the economy, changing user demands and compatibility with major international classification standards. For more information, please refer to *Australian and New Zealand Standard Industrial Classification (ANZSIC), 2006* (cat. no. 1292.0).

12 Since 1993, units in the Agricultural Census and the Agricultural Survey have been classified according to the methodology described in *Australian and New Zealand Standard Industrial Classification (ANZSIC)* (cat. no. 1292.0). Prior to 1993, establishments were classified according to the methodology described in the 1983 edition of *Australian Standard Industrial Classification (ASIC), Volume 1 – The Classification* (cat. no. 1201.0). Therefore care should be taken when making comparisons between years where different classifications have been used.

RELIABILITY OF ESTIMATES**13** The expondent(SAMPLE ERROR)respondentthe estimat

13 The estimates in this publication are based on information obtained from respondents to the 2005–06 Agricultural Census. Since not all selected units responded, the estimates may differ from those that would have been produced if all farms had responded. One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might vary by chance when not all units have responded, i.e. when a 'sample' of responses only is obtained. There are about two chances in three that a 'sample' estimate will differ by less than one SE from the figure that would have been obtained if all farms had responded, and about nineteen chances in twenty that the difference will be less than two SEs.

14 In this publication, 'sampling' variability of the estimates is measured by the relative standard error (RSE) which is obtained by expressing the SE as a percentage of the estimate to which it refers.

15 Most published estimates have RSEs less than 5%. For some states with limited production of certain commodities, RSEs are greater than 10%. Estimates that have an estimated RSE between 10% and 25% are annotated with the symbol '^'. These estimates should be used with caution as they are subject to sampling variability too high for some purposes. Estimates with an RSE between 25% and 50% are annotated with the symbol '*', indicating that the estimate should be used with caution as it is subject to sampling error too high for most practical purposes. Estimates with an RSE greater than 50% are annotated with the symbol '**', indicating that the symbol '**', indicating that the sampling variability causes the estimates to be considered too unreliable for general use. Separate indication of the RSEs of all estimates is available on request.

EXPLANATORY NOTES *continued*

RELIABILITY OF ESTIMATES (SAMPLE ERROR) continued

16 A table with RSEs for selected commodities follows:

RELATIVE STANDARD ERRORS OF SELECTED COMMODITIES—At 30 June 2006

		NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.	
		%	%	%	%	%	%	%	%	%	
	Barley for grain, production	0.8	0.4	2.0	0.4	0.6	3.4	_	_	0.3	
	Canola, production	1.2	0.7	21.2	0.9	1.1	7.7	—	—	0.6	
	Lupins for grain, production	2.9	1.5	29.5	1.1	1.0	18.6	_		0.8	
	Wheat for grain, production	0.8	0.7	4.1	1.2	0.9	3.0	_	47.0	0.5	
	Oranges production	2.4	0.4 1.8	5.9	0.5	0.4 4 0	3.0	_	_	0.5	
	Carrots production	1.4	2.3	7.9	9.4	1.4	4.0		_	2.4	
	Potatoes, production	4.9	2.5	5.4	4.1	4.7	1.8		_	1.5	
	Tomatoes, production	4.7	7.6	4.5	14.4	10.5	11.1	37.6	40.2	4.4	
	Total meat cattle	0.4	0.3	0.8	0.7	1.6	0.8	2.4	4.0	0.4	
	Total milk cattle	1.2	0.3	1.4	1.5	2.5	1.6	—	40.2	0.3	
	Total sheep and lambs Total pigs	0.4 1.3	0.3 3.0	1.4 2.3	0.4 1.6	0.4 2.3	1.0 2.1	46.4	2.2	0.2 1.0	
					• • • • •		• • • • •				
	 — nil or rounded to zero (incluid) 	iding null	cells)								
CROPS, PASTURES AND	17 Statistics on area and	l produ	ction c	of crops	relate,	in the	main, t	to crop	s sowr	n during	
HORTICULTURE	the year ended 30 June. Statistics of perennial crops relate to the position at 30 June and										
	the production during the year ended on that date, or fruit set by that date. Statistics for										
	apples and pears and grapes, which in some states are harvested after 30 June. are										
	collected by supplementary collection forms and are included in this publication.										
DAIRY CATTLE	18 Investigations into th	ne 2006	Agricu	ıltural C	ensus	estimat	tes have	e revea	led tha	at the	
	frame used for the 2005 Agricultural Survey did not accurately reflect the reduction in										
	dairy establishments due to deregulation. Hence the 2005 figure is considered to be										
	over estimated with analysis indicating that the 2005 total milk cattle estimate to be										
	over-estimated, with analysis indicating that the 2005 total milk cattle estimate to be										
	around 2.9 million, not 5.1	I millioi	n as pr	eviousi	repor	tea.					
ABS DATA AVAILABLE ON	19 As well as the statistics included in this and related publications, the ABS may have										
REQUEST	other relevant data availab	ole on re	equest	. Inquir	ies sho	uld be	made t	o eithe	er the		
	National Information and	Referra	l Servia	re on 1 ²	300 135	070 or	r Linda	Falzari	on		
	Hobart (03) 6222 5939.										
GENERAL ACKNOWLEDGMENT	20 ABS publications dra	w exter	nsivelv	on info	rmatio	n provi	ided fre	eelv bv	indivic	luals.	
	businesses governments	and oth	eroro	anisatio	ne The	eir cont	tinued	coope	ration i	s verv	
	businesses, governments a		er org.	amsatio	115. 1110 C	. 1				15 VELY	
	much appreciated: withou	it it, the	e wide	range o	f statis	tics pul	olished	by the	e ABS w	ould	
	not be available. Informati	ion rece	eived b	y the Al	BS is tr	eated i	n strict	confid	ence a	s	
	required by the Census an	ıd Stati:	stics Ac	ct 1905.							
RELATED PUBLICATIONS	21 A range of agricultura	al publi	cations	s is proc	luced l	by the A	ABS, in	cluding	g:		
	Principal Agricultura	ıl Comr	noditi	es, Aust	ralia. I	Prelimi	inary, o	at. no.	7111.0)	
	Selected Agricultural	Comm	odities	Austre	ilia Pr	olimin	anv ca	t no T	7112.0		
					1: T		<i>,</i> ,	4(20.0	112.0		
	Natural Resource Ma	inagem	eni on	Ausira	uan ra	arms, c	at. no.	4620.0			
	 Water Use on Austral 	ian Far	ms, ca	it. no. 4	618.0						
	 Livestock and Meat, A 	Australi	a - E	lectron	ic Publ	lication	<i>ı</i> , cat. r	no. 721	8.0.55.	001	
	 Livestock Products, A 	ustralid	<i>i</i> , cat. 1	no. 721	5.0						
	 Value of Principal Ag 	ricultu	ral Co	mmodi	ties Pro	oducea	l, Austr	alia, P	relimi	nary,	
	cat. no. 7501.0										
	Value of Selected Age	iculturi	al Com	moditi	es Prov	luced	Austra	lia Pri	limin	ary cat	
	=						- 10.50100	, 170		<i>y</i> , cat	
	110. / 502.0										

RELATED PUBLICATIONS

continued

- Value of Agricultural Commodities Produced, Australia, cat. no. 7503.0
- **22** For comparisons of the agriculture industry with other industries, users are referred to:
 - Australian National Accounts: National Income, Expenditure and Product, cat. no. 5206.0
 - Australian National Accounts: State Accounts, cat. no. 5220.0

23 The ABS also plans to release a range of sub-state geographic level data in conjunction with this publication. In particular, small area data will be released in *Agricultural Commodities: Small Area Data, Australia* (cat. no. 7125.0). The sub-state outputs will generally be available as spreadsheets, data suitable for use in Geographic Information Systems, and possibly as maps. Standard outputs will be produced to approximate as closely as possible various regional structures such as river basins and Natural Resource Management regions.

24 Current publications and other products released by the ABS are listed in the *Catalogue of Publications and Products* (cat. no. 1101.0). The Catalogue is available from any ABS office or the ABS web site <http://www.abs.gov.au>. The ABS also issues a daily Release Advice on the web site which details products to be released in the week ahead.

OLD BASIS ESTIMATES	1 Prior to running the 2005–06 Agricultural Census, the ABS had maintained its own register of agricultural establishments. However, it was increasingly difficult to maintain this list, to the point where it was no longer viable, and users were increasingly questioning the accuracy of some commodity data.
	2 The ABS investigated a number of alternatives for maintaining an agricultural business register and discussed these with key users of agriculture statistics. As a result of this, it was agreed that the ABS should move to a new frame sourced from the Australian Taxation Office's Australian Business Register (ABR) for the 2005–06 Agricultural Census.
	3 The ABR-based register consists of all businesses contained on the ABR coded to an 'agricultural' industry, as well as businesses which have indicated they undertake agricultural activities. All businesses with a turnover of \$50,000 or more are required to register on the ABR, and are provided with an Australian Business Number (ABN). Many agricultural businesses with a turnover of less than \$50,000 have also chosen to register on the ABR, for example to access subsidies that require an ABN.
	4 Moving to the ABR-based register required making changes to many of the methodologies used for compiling agriculture statistics. These included changes in the methods used for determining whether farms were 'in-scope' of the collection, and to ways the data was compiled (please see paragraphs 7–10 of the Explanatory Notes for more information about the change in scope and coverage).
IMPLICATIONS FOR USERS	5 The key implication of the move to the new register is that the 2005–06 Agricultural Census data will not be directly comparable with the historical time series of agriculture data. To provide users with a way of comparing ('bridging') the 2005–06 Agriculture Census data with the historical time series, the ABS has prepared two sets of estimates for selected principal commodities (see paragraph 25).
	6 'New-basis' estimates have been prepared for 2005–06 using the new ABR-based register and its associated statistical methodologies. These methodologies have been subjected to rigorous analysis and testing, with the resulting 'new basis' estimates representing the start of the new commodity and livestock series.
	7 'Old-basis' estimates have also been prepared for a selection of principal 2005–06 agricultural commodities. These estimates are a best judgement approximation to what the 2005–06 estimates may have been if the ABS had continued to use the previous ABS-maintained list of establishments (with its associated statistical methodologies) to conduct the 2005–06 Agricultural Census.
BRIDGING METHODOLOGY	8 The need for a bridging strategy for the Agriculture Census was outlined in <i>Information Paper: Agriculture Census: ABS Views on Content & Procedures, 2005–06</i> (cat. no. 7103.0) and discussed extensively with key users in March 2006.
	9 The key objective of bridging is to produce estimates that reflect what would have been obtained if no changes to the frame and statistical methodology had been made. Comparing the 'old basis' estimates with the historical time series allows the user to get an indication of the 'real world' change. Comparing the 'old basis' estimates with the 'new basis' estimates gives an indication of the impact the change to the frame and statistical methodology has had on estimates.
	10 In order to produce 'old-basis' estimates a sample was selected from the units which could be identified and matched between the old and new frames. These common units formed the basis of the 'old-basis' or bridging estimates. In addition to these common units, all units which were common to both frames, and did not require checking to reconcile differences between the way the business is represented on the frame and how it operates in the real-world, contributed to the bridging estimates. The diagram below illustrates the contribution to bridging estimates by the two types of common units.

.

BRIDGING METHODOLOGY continued	Old Basis Estimates	Old Basis Estimates		New Basis Estimates		
			A: Contribution of units in scope of new frame but not in scope of old frame			
	B1: Contribution of units requiring follow up*		B1:Contribution of units requiring follow up*			
	B2: Contribution of units not requiring follow up*		B2: Contribution of units not requiring follow up*			
	C: Contribution of units in scope of old frame but not in scope of new frame					
	* Follow up required to frame and the real w	reconcile orld situat	difference between the ion.			
METHODOLOGICAL CHANGES	11 There are two methodo change in frame, specifically t statistical methodology, specibetween the way the busines real-world.	logical char the change ifically the c s is represe:	nges that affect the new-bas in scope, and the units mo change in procedures that is nted on the frame and how	sis estimates: the idel; and the change in reconcile differences v it operates in the		
(A) THE CHANGE IN FRAME	12 The change in frame has 190,000 units. Not only were where they were not in-scope removed (became out-of-scop make-up of the frame will res changed the data reported th	s resulted ir units addec e before, see pe, see C in sult in chang ne year prev	n the frame size increasing l to the new frame (that is, e A in Diagram and Table A Diagram and Table A). Ch ge to estimates even if ever iously.	from 150,000 to became in-scope a) but some were anging the size and y unit has not		
	13 To gauge the impact of	the frame c	hange, the estimated 2005	–06 values of the units		

13 To gauge the impact of the frame change, the estimated 2005–06 values of the units that were newly out-of-scope (i.e. that had been removed from the 'old-basis' frame - see C) were compared to those of the newly in-scope units (i.e. that had been added to the frame - see A) in the sample.

.

(A) THE CHANGE IN FRAME continued

14 No 2005–06 data was available for sampled units that were newly out-of-scope i.e. row C. Instead, the data these units had reported for the last three years was used to determine the average proportion of 'old-basis' estimates due to these units. Applying this proportion of the 'old basis' estimate from the common units allowed an estimate of the contribution to 'new basis' estimates from the newly out-of-scope units to be produced.

(B) THE CHANGE IN	15	The change in statistical methodology has resulted in a change in the way that
STATISTICAL METHODOLOGY	som	e units are treated and how their data contributes to estimates (see B1 in Diagram
	and	Table A). The impact of this change was the most difficult to measure.

16 One of the most important changes has been the way in which holdings owned by a unit were followed up when they were sold or otherwise disposed of by that unit. This process is undertaken to address known discrepancies between the frame and the real world-situation that exist at the time of sample selection. Under the old methodology, each unit in the survey which had sold or otherwise disposed of land would have been investigated to determine details of the new land-holder. If that land-holder was not already on the frame, a survey form would have been dispatched and data gathered. The new methodology dictates that this will only occur for units with an Estimated Value of Agricultural Operations (EVAO) or equivalent of greater than \$3 million, to ensure coverage of the largest land holdings does not fluctuate due to changes in ABN registration details of the operating businesses.

17 No 2005–06 data was gathered for the sampled units under the \$3 million EVAO cut off, so a value was assigned to reflect the data that would have been obtained under the old procedures. A methodology known as imputation was used to assign this value. The aim of imputation is to assign to a unit with missing data, a value as close as possible to the one that would have been obtained had data been collected. Having no data for these units made imputation difficult and it had to be assumed that these units would be similar in characteristics to the units which had not newly acquired their holding.

DECOMPOSITION

18 For illustration purposes only, table A provides an indication of what the contribution to 2005–06 'old-basis' and 2005–06 'new-basis' estimates of grain sorghum and oats production from the change in frame and change in statistical methodology may have been if the processes outlined above were used. The decomposition consists of four parts:

- A the contribution to estimate of units that are in-scope for the new frame but not for the old frame;
- B1 the contribution to estimate of units that are found on both frames and did require treatment to reconcile differences between the way the business is represented on the frame, and how it operates in the real world;
- B2 the contribution to estimate of units that are found on both frames and did not require any treatment to reconcile differences between the way the business is represented on the frame, and how it operates in the real world; and
- C the contribution to estimate of units that are in-scope for the old frame but not for the new frame.

19 Whereas the contribution to 2005–06 'new-basis' estimates could be derived using the above processes, the ABS has quality concerns with the contribution to 2005–06 'old-basis' estimates from continuing units that did require follow up to reconcile frame differences. The contribution from these units has therefore not been included in table A, and consequently the total 2005–06 'old-basis' estimate derived using the processes outlined above are also not included. Readers should note that these totals will differ to those presented in table B as the estimates provided in table B were derived using an alternative strategy as outlined in paragraph 21.

TABLE A, Illustrative bridging decomposition data(a)

	OLD BASIS	6			
	ESTIMATE	ESTIMATE		NEW BASIS ESTIMATE	
				% contribution	
	2004-05	2005-06	2005-06	to 2005-06	
•••••••••••••••••••••••••••••••••••••••		• • • • • • • • • •	• • • • • • • • • •		
OATS-PRODUCTIO	DN (t)				
A: Units in scope of new frame but in scope of old frame	na	na	549	33	
B1: Continuing units that did require follow up to reconcile frame difference B2: Continuing units that did not require follow up to reconcile frame	es 615	690	739	44	
differences	280	np	400	24	
C: Units in scope of old frame but not in scope of new frame	388	512	na	na	
Total	1 283	np	1 688	100	
•••••••••••••••••••••••••••••••••••••••					
GRAIN SORGHUM-PROD	OUCTION (t)				
A: Units in scope of new frame but in scope of old frame	na	na	699	36	
B1: Continuing units that did require follow up to reconcile frame difference	es 819	721	749	39	
B2: Continuing units that did not require follow up to reconcile frame					
differences	621	np	484	25	
C: Units in scope of old frame but not inscope of new frame	571	534	na	na	
Total	2 011	np	1 932	100	
•••••••••••••••••••••••••••••••••••••••					
na not available (a)	The estimates in thi	s table were deri	ved using the pro	ocesses	

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) The estimates in this table were derived using the processes outlined in paragraphs 12-17 of the technical note. The 2005-06 'old basis' estimates will differ to those provided in Table B.

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FINAL BRIDGED ESTIMATES
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20 As a result of these difficulties and resulting quality concerns, the ABS explored an alternate strategy for producing 'old-basis' estimates for 2005–06.

21 Key considerations in the alternate strategy have included:

- analysis of the 'old-basis' estimates produced using the strategy outlined above;
- known movements between 2004–05 and 2005–06 for those units common to both the old and new frame;
- analysis of historical trends in the commodity estimates; and
- information sourced from relevant industry bodies.

22 'Old-basis' estimates based upon this strategy are presented in tables B and C at the end of this Technical Note.

INTERPRETING THE BRIDGED23Users should exercise a degree of caution when interpreting the tables as both sets
of estimates are subject to variability; the 'old-basis' estimates to both sampling and
non-sampling error and the 'new basis' estimates to non-sampling error.

24 The non-sampling variability in the 'old-basis' 2005–06 estimates in particular, is expected to be significant due to difficulties experienced in collecting, processing and estimating 'old basis' data from a 'new-basis' framework. For this reason, the 2005–06 'old-basis' estimates should be used with considerable caution and movements between 2004–05 and 2005–06 considered as indicative only.

INTERPRETING THE BRIDGED

DATA continued

25 The following tables allow users to compare 2005 and 2006 estimates subject to the caveats mentioned:

TABLE B, Production and area of principal crops(a)—Year ended 30 June • •

• • • • • • • • • • • • • • •		• • • • • • • • • •	
			2006
	AUST. OLD		
	BASIS(b)		BASIS(c)
	2005	2006(d)	Aust.
BA	RLEY FO	R GRAIN	
	7 7 40	0.400	0.400
Area ('000 ha)	4 646	9 480 4 408	9 482 4 406
	CANC	DLA	
Production ('000 t) Area ('000 ha)	1 542 1 377	1 370 934	1 419 972
	COTTON	LINT	
Production ('000 t) Area ('000 ha)	563 304	550 318	560 327
G	RAIN SO	RGHUM	
Production ('000 t)	2 011	1 980	1 932
Area ('000 ha)	755	772	767
LU	PINS FO	R GRAIN	
Production ('000 t) Area ('000 ha)	937 845	1 290 809	1 285 809
0	ATS FOR	GRAIN	
Production ('000 t) Area ('000 ha)	1 283 894	1 700 939	1 688 930
R	ICE FOR	GRAIN	
Production ('000 t) Area ('000 ha)	339 51	960 98	1 003 102
SUGAR CA	NE CUT	FOR CRU	SHING
Production ('000 t)	27 922	27 000	27 100
Area ('000 ha)	434	403	37 128
• • • • • • • • • • • • •			
vv r	ILAI FU	K GRAIN	
Production ('000 t) Area ('000 ha)	21 905 13 399	24 950 12 337	25 150 12 443
(a) Caution should b	e exercised i	n comparing 20	005 and 2006
estimates.			
(b) Used an ABS-maintained land-based frame (list of 'farms').			(list of 'farms').
(c) Use the Australia Agricultural busir	in Business F iesses).	register-based	frame (list of

(d) Data for 2006 old basis are bridged estimates.

. 2006 NEW AUST. OLD BASIS(b) BASIS(c) 2005 2006(d) Aust. MILK CATTLE(e) 2 076 1 865 981 905 Cows in milk and dry ('000) 1 880 Other milk cattle ('000) 908 (f) **3 056 2 770** Total milk cattle ('000) 2 788 MEAT CATTLE Bulls and bull calves intended for 687 service ('000) 659 698 Other calves under one year ('000) 5357 5571 5 651 Cows and heifers one year and over 12 935 12 899 13 197 ('000) Other cattle one year and over ('000) 5 776 5 843 6 060 Total meat cattle ('000) 24 725 25 000 25 605 SHEEP AND LAMBS 71 947 66 655 Sheep ('000) 66 345 Lambs under one year ('000) 24 684 29 178 24 845 Total sheep and lambs ('000) 101 125 91 500 91 028 LAMBING Ewes mated to produce lambs ('000) 46 147 42 803 42 713 Lambs marked ('000) 37 223 35 117 35 075 Lambs marked ('000) Proportion lambs marked to ewes mated (%) 81 82 82 Ewes expected to lamb next year 46 904 47 292 ('000)(g) 44 282 PIGS Boars ('000) 12 12 12 Breeding sows ('000) 286 286 302 Gilts intended for breeding ('000) 43 47 50 All other pigs ('000) 2 197 2 215 2 369

TABLE C, Livestock numbers(a)—Year ended 30 June

Total pigs ('000) 2 538 2 560

(a) Caution should be exercised in comparing 2005 and 2006 estimates.

(b) Used an ABS-maintained land-based frame (list of 'farms').

(c) Used the Australian Business Register-based frame (list of agricultural businesses).

(d) Data for 2006 old basis are bridged estimates.

(e) Excluding house cows.

INTERPRETING THE BRIDGED

DATA continued

(f) See Explanatory notes, paragraph 18.

(g) Forecast made at the beginning of each season.

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