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# Summary of Crops

## Western Australia

Season 1992-93



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**Western Australia**  
**Season 1992-93**

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<b>PHONE INQUIRIES</b>	Inquiries concerning these statistics may be made by telephoning Information Services Section on Perth (09) 360 5140; for advice on the interpretation of these statistics and the availability of related unpublished statistics, phone Peter Hodgson on (09) 360 5180.	
<b>MAIL INQUIRIES</b>	Write to Information Services, Australian Bureau of Statistics, Exchange Plaza, 2 The Esplanade, Perth W.A. 6000.	
<b>ELECTRONIC SERVICES</b>	<ul style="list-style-type: none"> <li>• on Discovery key *656#</li> <li>• on Dial-A-Statistic 0055 26 400</li> </ul>	<ul style="list-style-type: none"> <li>• on Elderlink key *620#</li> <li>• on AUSSTATS phone (06) 252 6017</li> </ul>

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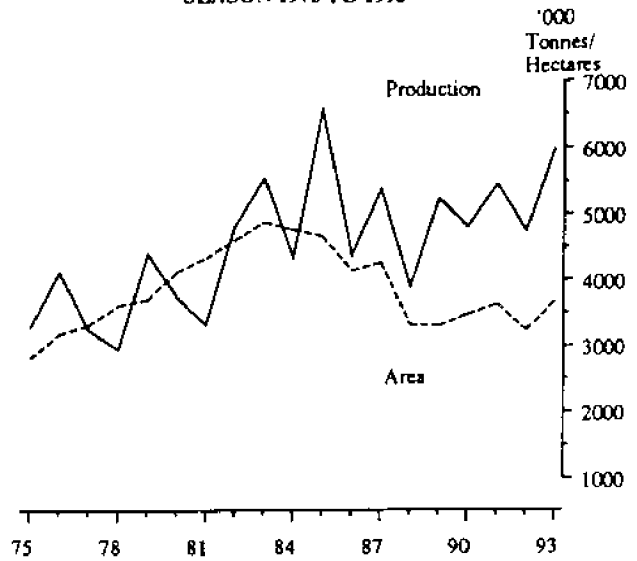
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**SUMMARY OF FINDINGS**

**WHEAT**

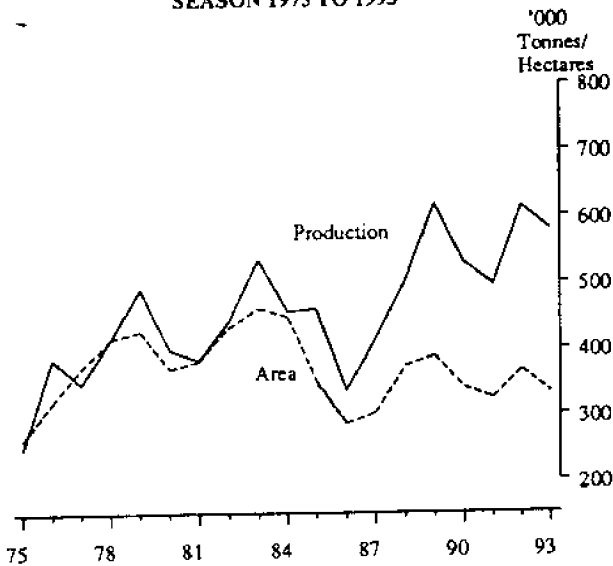
The area planted to wheat continued to increase in 1992-93 with 3,669,300 hectares planted, up 13.6 per cent compared to the previous year. However the number of establishments in the wheat growing industry only increased by 0.6 per cent to 5,686. This was the sixth consecutive crop of under 4 million hectares, following crops in excess of this figure between 1979 and 1986 inclusive. The total State harvest for 1992-93 of 5,978,900 tonnes was 26.2 per cent more than the previous year. The latest harvest represented a record State yield of 1.63 tonnes per hectare, exceeding the previous record of 1.58 achieved in 1988-89. This favourable yield result was largely due to good growing conditions throughout the wheat-belt.

**DIAGRAM 1  
WHEAT FOR GRAIN, AREA AND PRODUCTION(a)  
SEASON 1975 TO 1993**



(a) See explanatory notes 2 and 3

**DIAGRAM 2  
OATS FOR GRAIN, AREA AND PRODUCTION(a)  
SEASON 1975 TO 1993**



(a) See explanatory notes 2 and 3

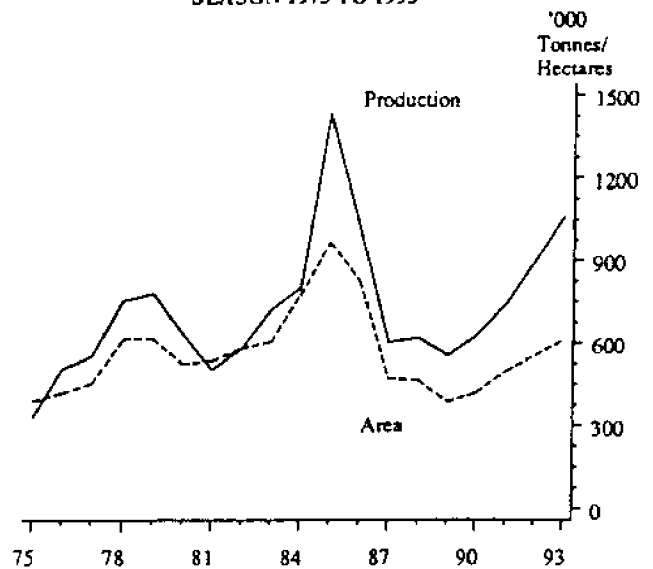
**OATS**

Plantings of oats for grain in 1992-93, at 331,600 hectares, were 9.7 per cent down on the previous year. However, production decreased by only 5.9 per cent to 577,900 tonnes. The State average yield of 1.74 tonnes per hectare was the highest on record, exceeding the previous record of 1.67 tonnes per hectare achieved in 1991-92. The increased yield was largely attributable to good early rains soon after planting in most growing areas, especially during June and July.

## BARLEY

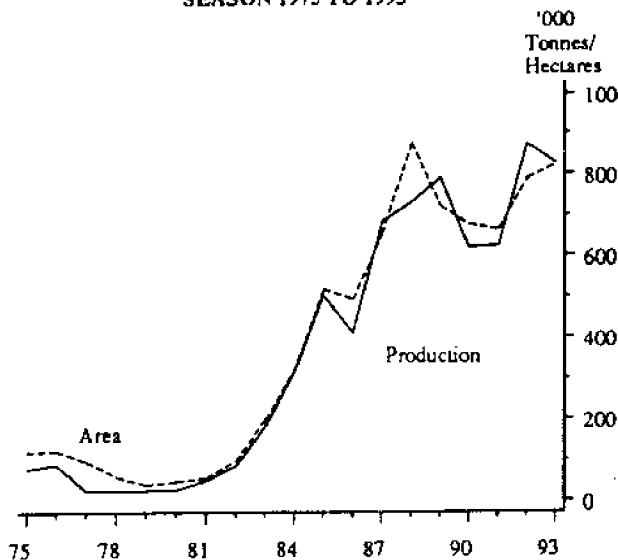
Barley plantings in 1992-93 covered an area of 611,100 hectares, an increase of 10.2 per cent over the previous year. This was the largest area planted to barley since 1985-86 (824,000 hectares). Production increased 17.9 per cent to 1,060,900 tonnes, out-performing the increase in area, largely due to favourable weather conditions. The State average yield of 1.74 tonnes per hectare represented a new record, exceeding the previous record of 1.62 tonnes per hectare set in 1991-92 and well above the 20 year average of 1.28 tonnes per hectare.

**DIAGRAM 3**  
BARLEY FOR GRAIN, AREA AND PRODUCTION(a)  
SEASON 1975 TO 1993



(a) See explanatory notes 2 and 3

**DIAGRAM 4**  
LUPINS FOR GRAIN, AREA AND PRODUCTION(a)  
SEASON 1975 TO 1993



(a) See explanatory notes 2 and 3

## LUPINS

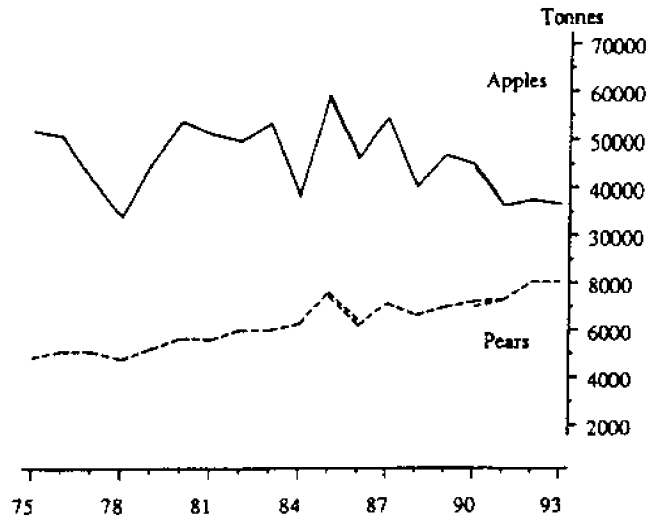
Lupin plantings for 1992-93 were 822,800 hectares, representing a 4.6 per cent increase on the previous year. This was the second highest area on record, exceeded only by the 876,500 hectares planted in 1987-88. However, production fell 5.4 per cent to 826,500 leading to a decrease in the State average yield from a record of 1.11 in 1991-92 to 1.00 tonnes per hectare in 1992-93. This decreased yield was caused by the same late break to the season (mid-June) which led to record yields in the cereal crops. The latest yield is still above the 20 year average of 0.98 tonnes per hectare.



**POME FRUIT**

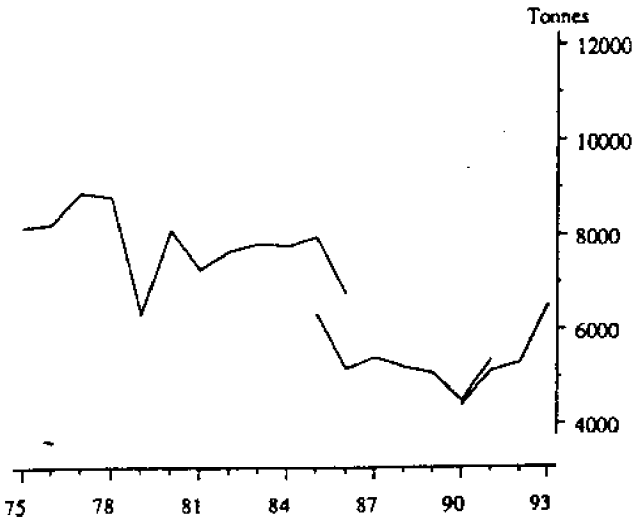
Apple production during the 1992-93 season fell 2.3 per cent to 36,551 tonnes. The total number of apple trees decreased by 1.1 per cent to 769,800 at the end of the 1992-93 season. The Granny Smith variety provided 60.5 per cent (22,100.2 tonnes) of apples produced. However, production of the newer varieties of apples such as Gala, Pink Lady, and Sundowner, increased by 101.8 per cent compared to the 1991-92 season. This increase in new varieties made a significant contribution to the 7.1 per cent increase (to 2,597.3 tonnes) in apples produced in 1992-93. Pear tree numbers rose to 192,142, up 9.6 per cent compared to the previous year. This increase can partly be attributed to an increase in Nashi pear plantings with 33.9 per cent (31,879 trees) of pear trees under six years being of the Nashi variety in 1992-93.

**DIAGRAM 5**  
APPLE AND PEAR PRODUCTION(a)  
SEASON 1975 TO 1993



(a) See explanatory notes 2 and 3

**DIAGRAM 6**  
ORANGE PRODUCTION(a)  
SEASON 1975 TO 1993



(a) See explanatory notes 2 and 3

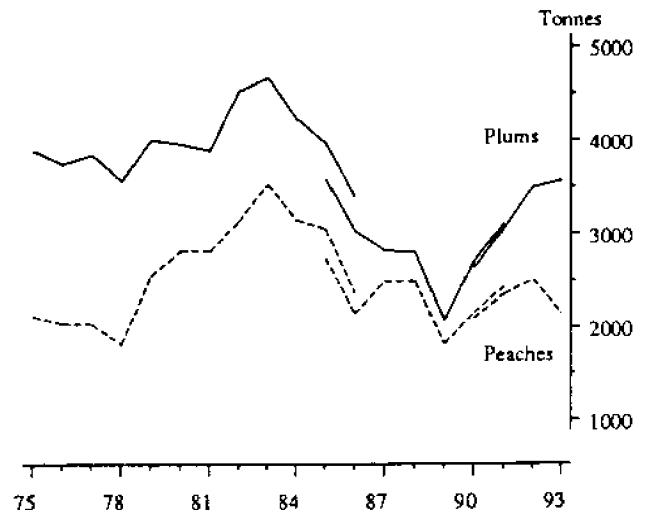
**CITRUS FRUIT**

Orange production during the 1992-93 season rose by 22.9 per cent to 6,519 tonnes largely due to an increase in the number of trees reaching maturity. The number of trees capable of commercial crop production rose 48.7 per cent while total orange tree numbers only rose 3.5 per cent. Lemon and lime production increased by 5.8 per cent to a total of 1,191 tonnes. The number of mandarin trees increased by 20.7 per cent to 66,500 trees. Mandarin production rose 2.5 per cent over the previous year to 1,348 tonnes. Grapefruit production fell 21.8 per cent to 597 tonnes as a result of a 13.2 per cent decrease in the number of mature trees.

**STONE FRUIT**

Total volume of stone fruit production increased slightly in 1992-93. Production of avocados rose by 102.0 per cent to 929 tonnes. This was partly the result of a 17.9 per cent increase in the number of avocado trees aged over six years. The general trend of steadily increasing nectarine production over recent years was reversed in 1992-93. A fall of 4.6 per cent in production to 2,225 tonnes has been largely attributed to poor weather conditions. This decrease in production occurred despite an increase of 3,500 (5.5 per cent) in the number of mature nectarine trees. The trend of increasing plum production evident since 1988-89 continued with a 2.0 per cent increase to 3,563 tonnes. Apricot production also increased during 1992-93 but peach production fell despite an increase in the number of mature trees. This decrease in production was due to storms prior to harvest. Mango production fell 0.4 per cent, despite a 52.7 per cent increase in mature tree numbers.

**DIAGRAM 7**  
PLUM AND PEACH PRODUCTION(a)  
SEASON 1975 TO 1993



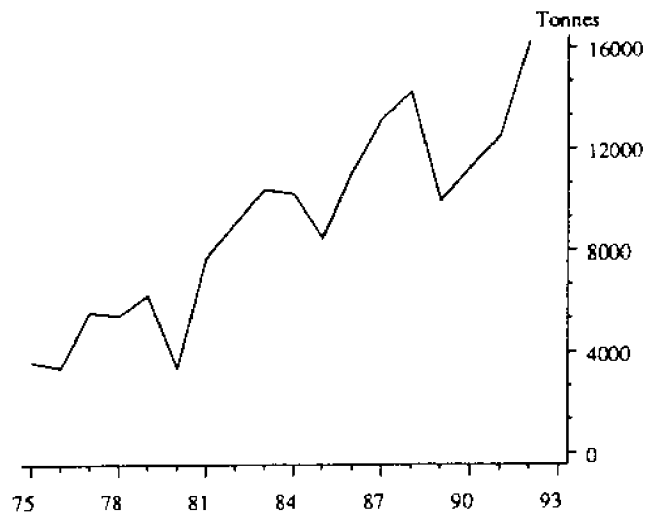
(a) See explanatory notes 2 and 3

### TROPICAL AND BERRY FRUIT

Banana production continued to increase during 1992-93 with a 11.4 per cent rise in production to 18,094.4 tonnes. The average yield per bearing hectare was the highest on record with 41.3 tonnes, surpassing the record average yield of 39.8 tonnes reached in 1991-92. The total area of bananas rose to 566 hectares, with bearing area increasing to 438 hectares. Strawberry production decreased for the first time since 1987-88 following the record crop in 1991-92 of 2,257 tonnes. Production fell by 24 per cent to 1,716 tonnes despite a record bearing area of 102 hectares being recorded. The total area of strawberries also increased by 93.3 per cent to a record 145 hectares. The average yield per hectare fell to 16.8 tonnes per hectare largely due to hailstorms in October and November 1992 causing heavy strawberry losses in the Wanneroo area and difficulties with labour availability during harvesting. Pawpaw production and area were collected as separate items in the Agricultural Census for the first time since 1989-90 and showed a 150 per cent increase in total area with 10 hectares being recorded. The production of pawpaws had also increased significantly to 152 tonnes, a 1,042.8 per cent increase since 1989-90.

DIAGRAM 8

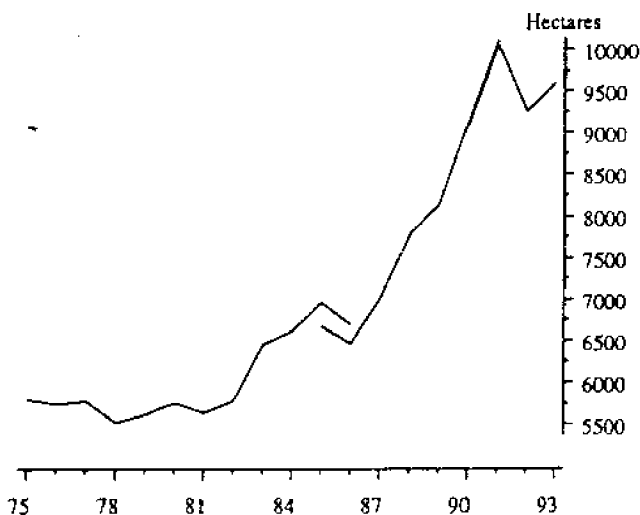
### BANANA PRODUCTION<sup>(a)</sup> SEASON 1975 TO 1993



(a) See explanatory notes 2 and 3

DIAGRAM 9

### VEGETABLES TOTAL AREA<sup>(a)</sup> SEASON 1975 TO 1993



(a) See explanatory notes 2 and 3

### VEGETABLES

Total vegetable plantings in 1992-93 increased by 3.7 per cent to 9,594 hectares despite decreases in some of the more significant crops. The area of cabbages, green peas and onions all showed decreases over the previous season. Potato plantings accounted for 27.5 per cent of the total vegetable area, covering 2,640 hectares, an increase of 1.0 per cent over the previous year. Potato production rose more significantly, by 10.6 per cent to 108,171 tonnes, due to increased yields. The area for growing onions decreased by 26.4 per cent to 321 hectares as a result of lower market prices. However production fell only 15.1 per cent as yields improved. Whilst the area for growing green peas remained relatively static at 1,034 hectares (down 1.3 per cent), production fell by 13.1 per cent to 1,685 tonnes. Minor reductions in area and production occurred for celery, cucumber and lettuce. However, broccoli increased in area by 39.0 per cent to 292 hectares and this was reflected in the 42.2 per cent increase in production to 2,994 tonnes. Rock melons and water melons continued to increase in both area and production. Of the smaller root crop plantings, both parsnips and turnips showed greater grower interest with increased plantings of 25.0 and 50.0 per cent, respectively.

TABLE 1 — LAND USE

Item	Season					
	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
Establishments	13,461	13,410	13,202	12,530	12,906	13,128
Total area of establishments '000 ha	112,631	110,881	110,871	107,810	115,669	110,587
Area of—						
Cleared land	15,700	15,582	(c)	(c)	(c)	(c)
Crops (d)	5,082	5,174	5,359	5,354	5,216	5,666
Sown pastures (e)	7,781	7,718	6,796	6,763	8,410	7,401
Lucerne (all purposes)	6	6	7	7	8	8

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000. (b) Excludes establishments with estimated value of operations less than \$22,500. (c) Information not collected after 1989-90. (d) Excludes area of sown pastures cut for hay or harvested for seed. (e) Excluding lucerne.

TABLE 2 — LAND USE, SEASON 1992-93

Statistical division (a)	Establish- ments(b) (c) (number)	Total area of establish- ments ('000 ha)	Area of:		
			Crops (d) ('000 ha)	Sown pastures (e) ('000 ha)	Lucerne (all purposes) ('000 ha)
Perth	1,144	79.9	6.7	29.6	0.5
South-West	2,257	750.3	33.8	509.9	2.0
Lower Great Southern	2,290	2,791.9	590.5	1,663.7	1.6
Upper Great Southern	1,913	3,397.0	1,091.5	1,635.9	—
Midlands	3,105	6,860.1	2,488.1	1,780.5	0.2
South-Eastern	751	17,314.0	435.8	1,029.2	1.3
Central	1,419	41,130.1	1,013.2	750.8	2.3
Pilbara	59	14,677.9	—	—	—
Kimberley	190	23,586.1	6.3	1.6	—
<b>Western Australia</b>	<b>13,128</b>	<b>110,587.2</b>	<b>5,666.0</b>	<b>7,401.1</b>	<b>8.0</b>

(a) See explanatory note 8. (b) See explanatory notes 2, 3 and 5. (c) Includes beekeepers without land. (d) Excludes area of sown pastures and of lucerne cut for hay or harvested for seed. (e) Includes sown grasses and clovers.

TABLE 3 — CLASSIFICATION OF AGRICULTURAL ESTABLISHMENTS ACCORDING TO SIZE OF ESTABLISHMENT, 1992-93

Area of establishments (Hectares)	In agricultural areas (a)		In pastoral areas (a)		Whole State	
	Number of establishments	Area ('000 ha)	Number of establishments	Area ('000 ha)	Number of establishments	Area ('000 ha)
0 (b)	37	—	—	—	37	—
>0 — 4	477	1.3	48	0.1	525	1.5
5 — 9	278	2.0	72	0.5	350	2.5
10 — 19	257	3.6	63	0.8	320	4.4
20 — 29	145	3.5	28	0.6	173	4.1
30 — 39	103	3.5	5	0.2	108	3.7
40 — 49	154	6.6	3	0.1	157	6.7
50 — 74	212	13.2	5	0.3	217	13.5
75 — 99	191	16.4	1	0.1	192	16.5
100 — 124	211	23.7	—	—	211	23.7
125 — 149	203	27.9	—	—	203	27.9
150 — 199	360	61.8	1	0.2	361	61.9
200 — 249	419	92.7	2	0.5	421	93.1
250 — 299	314	86.2	6	1.7	320	87.9
300 — 399	543	187.6	4	1.4	547	189.0
400 — 499	505	223.1	4	1.7	509	224.8
500 — 749	933	581.7	4	2.4	937	584.1
750 — 999	944	818.1	4	3.2	948	821.2
1,000 — 1,999	3,034	4,360.0	5	6.4	3,039	4,366.4
2,000 — 2,999	1,523	3,694.4	1	2.0	1,524	3,696.4
3,000 — 3,999	745	2,552.4	—	—	745	2,552.4
4,000 — 4,999	359	1,583.1	—	—	359	1,583.1
5,000 — 9,999	437	2,852.3	4	33.9	441	2,886.2
10,000 — 19,999	52	672.1	5	71.5	57	743.6
20,000 — 29,999	5	122.5	3	82.1	8	204.7
30,000 — 49,999	3	125.6	7	281.2	10	406.8
50,000 and over	27	4,758.7	382	87,222.7	409	91,981.3
<b>Total</b>	<b>12,471</b>	<b>22,873.7</b>	<b>657</b>	<b>87,713.5</b>	<b>13,128</b>	<b>110,587.2</b>

(a) See explanatory note 9. (b) Comprises beekeepers without land.

TABLE 4 – AREA OF CROPS AND CROPPED PASTURES  
(\*000 hectares)

Item	Season					
	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
<b>Crops –</b>						
<b>Cereals for</b>						
Grain	4,099.9	4,255.3	4,475.2	4,473.7	4,175.5	4,634.0
Hay	127.1	121.1	111.2	110.8	122.5	93.4
Green feed or silage	54.2	62.1	54.4	54.0	45.0	44.5
<b>Legumes for</b>						
Grain	768.0	703.8	687.9	687.4	832.2	856.9
Fruit	7.7	7.7	7.7	7.3	8.0	9.0
Vegetables	8.1	9.1	10.1	10.0	9.2	9.6
Other	16.4	14.2	12.0	12.0	23.1	20.5
<b>Total crops</b>	<b>5,081.5</b>	<b>5,173.5</b>	<b>5,358.5</b>	<b>5,353.5</b>	<b>5,215.8</b>	<b>5,665.9</b>
<b>Pastures (c) –</b>						
Cut for hay	119.2	107.1	110.8	107.9	116.3	104.4
Cut for green feed or silage	9.5	9.4	8.5	8.3	11.8	11.6
Harvested for seed	39.0	21.4	15.7	15.7	10.3	13.2
<b>Total pastures cropped</b>	<b>167.7</b>	<b>137.9</b>	<b>135.0</b>	<b>131.8</b>	<b>138.4</b>	<b>129.2</b>

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Includes grasses, lucerne and clovers.

## A – CEREALS

TABLE 5 – FARM STOCKS OF CEREAL GRAINS AND FODDER, AND SILAGE MADE  
(\*000 tonnes)

Item	At 31 March					
	1989 (a)	1990 (a)	1991 (a)	1991 (b)	1992 (b)	1993 (b)
<b>Grain stocks—</b>						
Barley	129.5	113.9	126.9	126.8	131.7	137.7
Oats	335.0	334.3	307.0	306.6	328.8	314.9
Wheat	270.5	263.3	301.0	300.8	294.4	310.7
<b>Fodder stocks—</b>						
Hay	581.5	552.8	492.2	484.9	557.6	527.5
Silage	85.8	89.3	93.8	93.8	92.7	110.4
<b>Silage made (c)</b>	<b>101.2</b>	<b>90.8</b>	<b>92.8</b>	<b>92.3</b>	<b>115.1</b>	<b>115.2</b>

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) During the year ended 31 March.

TABLE 6 – ESTABLISHMENTS GROWING WHEAT, BARLEY, OATS AND LUPINS  
FOR GRAIN CLASSIFIED ACCORDING TO AREA SOWN  
SEASON 1992-93

Area of grain crop hectares	Wheat		Barley		Oats		Lupins	
	Estab- lishments	Area sown	Estab- lishments	Area sown	Estab- lishments	Area sown	Estab- lishments	Area sown
	number	'000 ha	number	'000 ha	number	'000 ha	number	'000 ha
1 – 9	46	0.2	45	0.3	122	0.7	43	0.3
10 – 19	52	0.7	134	1.9	385	5.1	118	1.6
20 – 29	59	1.4	183	4.2	553	12.6	142	3.3
30 – 39	57	1.9	169	5.6	409	13.3	141	4.6
40 – 49	92	3.9	273	11.4	554	23.2	202	8.5
50 – 74	171	10.2	488	29.3	740	43.8	395	23.9
75 – 99	159	13.8	421	35.5	461	38.5	290	24.5
100 – 149	379	45.5	631	75.1	584	66.9	576	68.6
150 – 199	302	51.2	392	65.8	218	35.8	359	60.3
200 – 249	403	88.6	325	70.6	150	31.8	312	67.9
250 – 299	279	75.2	146	39.6	45	12.0	193	52.2
300 – 399	556	188.6	205	69.2	49	16.0	243	82.2
400 – 499	553	242.8	132	57.4	26	10.9	195	85.0
500 – 749	846	513.5	133	78.6	15	8.1	195	115.3
750 – 999	561	477.8	36	30.2	4	3.3	93	78.7
1,000 – 1,499	634	760.9	21	24.8	4	4.2	54	63.4
1,500 and over	537	1,193.2	4	11.7	3	5.4	36	82.7
<b>Total</b>	<b>5,686</b>	<b>3,669.3</b>	<b>3,738</b>	<b>611.1</b>	<b>4,322</b>	<b>331.6</b>	<b>3,587</b>	<b>822.8</b>

**TABLE 7 – AREA OF CEREALS: SEASON**  
(<sup>'000</sup> hectares)

<i>Item</i>	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
Cereals for grain---						
Barley	383.5	421.4	497.7	497.5	554.5	611.1
Oats	389.1	339.9	324.1	323.4	367.2	331.6
Rye	2.9	2.6	3.9	3.9	4.3	3.4
Triticale	25.9	13.9	15.5	15.5	18.1	16.3
Wheat	3,297.4	3,476.4	3,632.2	3,631.7	3,229.9	3,669.3
Other	1.1	1.1	1.7	1.7	1.5	2.1
<b>Total cereals for grain</b>	<b>4,099.9</b>	<b>4,255.3</b>	<b>4,475.2</b>	<b>4,473.7</b>	<b>4,175.5</b>	<b>4,634.0</b>
Cereals for hay	127.1	121.1	111.2	110.8	122.5	93.4
Cereals for green feed or silage	54.2	62.1	54.4	54.0	45.0	44.5

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

**TABLE 8 – PRODUCTION OF CEREALS: SEASON**  
(<sup>'000</sup> tonnes)

<i>Item</i>	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
Cereals for grain -						
Barley	552.4	628.0	742.2	742.1	899.6	1,060.9
Oats	618.5	529.4	496.8	496.2	614.3	577.9
Rye	2.4	1.6	4.2	4.2	3.4	2.6
Triticale	25.4	10.9	14.6	14.5	16.7	17.8
Wheat	5,225.1	4,800.0	5,449.1	5,448.4	4,736.0	5,978.9
Cereals for hay	467.0	428.6	383.4	381.9	476.3	393.8

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

**TABLE 9 – YIELD OF CEREALS: SEASON**  
(tonnes/hectare)

<i>Item</i>	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
Cereals for grain -						
Barley	1.44	1.49	1.49	1.49	1.62	1.74
Oats	1.59	1.56	1.53	1.53	1.67	1.74
Rye	0.82	0.62	1.08	1.08	0.80	0.76
Triticale	0.98	0.78	0.94	0.94	0.92	1.09
Wheat	1.58	1.38	1.50	1.50	1.47	1.63
Cereals for hay	3.67	3.54	3.45	3.45	3.89	4.22

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

**TABLE 10 – WHEAT, OATS AND BARLEY FOR GRAIN, SEASON 1992-93**

<i>Statistical division (a)</i>	<i>Wheat</i>			<i>Oats</i>			<i>Barley</i>		
	<i>Area</i> ( <sup>'000</sup> ha)	<i>Production</i> ( <sup>'000</sup> tonnes)	<i>Average yield per hectare</i> (tonnes)	<i>Area</i> ( <sup>'000</sup> ha)	<i>Production</i> ( <sup>'000</sup> tonnes)	<i>Average yield per hectare</i> (tonnes)	<i>Area</i> ( <sup>'000</sup> ha)	<i>Production</i> ( <sup>'000</sup> tonnes)	<i>Average yield per hectare</i> (tonnes)
Perth	0.3	0.1	0.47	0.6	0.9	1.37	—	—	—
South-West	0.7	1.5	2.19	8.5	20.0	2.35	4.7	9.5	2.02
Lower Great Southern	234.4	457.0	1.95	79.5	170.4	2.14	165.5	318.6	1.92
Upper Great Southern	702.8	1,166.4	1.66	128.8	257.2	2.00	111.5	189.6	1.70
Midlands	1,854.3	2,916.4	1.57	80.9	97.4	1.20	104.3	163.7	1.57
South-Eastern	194.7	301.3	1.55	13.2	13.4	1.02	169.6	278.2	1.64
Central	682.2	1,136.2	1.67	20.2	18.7	0.93	55.4	101.2	1.83
Pilbara	—	—	—	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—	—	—	—
<b>Western Australia</b>	<b>3,669.3</b>	<b>5,978.9</b>	<b>1.63</b>	<b>331.6</b>	<b>577.9</b>	<b>1.74</b>	<b>611.1</b>	<b>1,060.9</b>	<b>1.74</b>

(a) See explanatory note 8.

## B – OTHER CROPS

**TABLE 11 – AREA OF OTHER CROPS (a): SEASON**  
(<sup>000 hectares)</sup>

Item	1988-89 (b)	1989-90 (b)	1990-91 (b)	1990-91 (c)	1991-92 (c)	1992-93 (c)
Other crops for grain--						
Field peas	47.1	26.9	23.1	23.1	45.1	32.4
Lupins	719.9	676.3	664.8	664.3	786.6	822.8
Rapeseed (canola)	1.2	0.6	2.0	2.0	16.7	11.6
Other	3.3	1.7	2.2	2.1	2.1	1.7
<b>Total other crops for grain</b>	<b>771.6</b>	<b>705.6</b>	<b>692.1</b>	<b>691.5</b>	<b>850.6</b>	<b>868.5</b>
Other crops for hay	2.0	1.1	0.7	0.7	0.4	0.3
Other crops for green feed and silage	8.8	9.6	5.3	5.2	2.5	3.8

(a) Excluding cereals. (b) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (c) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

**TABLE 12 – PRODUCTION OF OTHER CROPS (a): SEASON**  
(<sup>000 tonnes)</sup>

Item	1988-89 (b)	1989-90 (b)	1990-91 (b)	1990-91 (c)	1991-92 (c)	1992-93 (c)
Other crops for grain --						
Field peas	41.4	17.6	16.5	16.5	27.2	22.2
Lupins	790.5	619.0	624.2	624.0	873.8	826.5
Rapeseed (canola)	0.8	0.6	1.9	1.9	15.4	11.5
Other crops for hay	4.2	1.9	2.2	2.2	1.8	0.9

(a) Excluding cereals. (b) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (c) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

**TABLE 13 – YIELD OF OTHER CROPS (a): SEASON**  
(tonnes/hectare)

Item	1988-89 (b)	1989-90 (b)	1990-91 (b)	1990-91 (c)	1991-92 (c)	1992-93 (c)
Other crops for grain--						
Field peas	0.88	0.65	0.71	0.71	0.60	0.69
Lupins	1.10	0.92	0.94	0.94	1.11	1.00
Rapeseed (canola)	0.67	1.05	0.93	0.93	0.92	0.99
Other crops for hay	2.10	1.74	3.20	3.18	4.36	2.97

(a) Excluding cereals. (b) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (c) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

**TABLE 14 — LUPINS AND FIELD PEAS FOR GRAIN, SEASON 1992-93**

Statistical division (a)	Lupins			Field peas		
	Area ( <sup>000 ha)</sup>	Production ( <sup>000 tonnes)</sup>	Average yield per hectare (tonnes)	Area ( <sup>000 ha)</sup>	Production ( <sup>000 tonnes)</sup>	Average yield per hectare (tonnes)
Perth	—	—	—	—	—	—
South-West	2.1	3.2	1.53	—	—	—
Lower Great Southern	75.5	73.6	0.97	1.4	0.7	0.49
Upper Great Southern	112.9	106.5	0.94	5.1	3.6	0.71
Midlands	363.6	345.1	0.95	17.2	11.5	0.67
South-Eastern	40.1	41.1	1.03	6.1	4.2	0.69
Central	228.5	257.0	1.12	2.6	2.1	0.83
Pilbara	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—
<b>Western Australia</b>	<b>822.8</b>	<b>826.5</b>	<b>1.00</b>	<b>32.4</b>	<b>22.2</b>	<b>0.69</b>

(a) See explanatory note 8.

## C – PASTURES

TABLE 15 – AREA OF PASTURES: SEASON  
(<sup>'000</sup> hectares)

<i>Item</i>	<i>1988-89</i> <i>(a)</i>	<i>1989-90</i> <i>(a)</i>	<i>1990-91</i> <i>(a)</i>	<i>1990-91</i> <i>(b)</i>	<i>1991-92</i> <i>(b)</i>	<i>1992-93</i> <i>(b)</i>
Total area of pastures	7,787.6	7,724.1	6,803.2	6,769.8	8,410.0	7,409.1
Pastures cropped—						
Cut for hay	119.2	107.1	110.8	107.9	116.3	104.4
Cut for green feed or silage	9.5	9.4	8.5	8.3	11.8	11.6
Harvested for seed	39.0	21.4	15.7	15.7	10.3	13.2
<b>Total pastures cropped</b>	<b>167.7</b>	<b>137.9</b>	<b>135.0</b>	<b>131.8</b>	<b>138.4</b>	<b>129.2</b>

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

TABLE 16 – PRODUCTION FROM PASTURES: SEASON

<i>Item</i>	<i>1988-89</i> <i>(a)</i>	<i>1989-90</i> <i>(a)</i>	<i>1990-91</i> <i>(a)</i>	<i>1990-91</i> <i>(b)</i>	<i>1991-92</i> <i>(b)</i>	<i>1992-93</i> <i>(b)</i>
Pastures cut for hay <sup>'000</sup> tonnes	401.8	380.2	399.7	389.8	422.8	368.3
Pastures harvested for seed   tonnes	7,748.5	3,807.4	2,704.7	2,703.6	1,828.6	2,840.9

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

TABLE 17 – YIELD FROM PASTURES: SEASON  
(tonnes/hectare)

<i>Item</i>	<i>1988-89</i> <i>(a)</i>	<i>1989-90</i> <i>(a)</i>	<i>1990-91</i> <i>(a)</i>	<i>1990-91</i> <i>(b)</i>	<i>1991-92</i> <i>(b)</i>	<i>1992-93</i> <i>(b)</i>
Pastures cut for hay	3.37	3.55	3.61	3.61	3.64	3.53
Pastures harvested for seed	0.20	0.18	0.17	0.17	0.18	0.21

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

TABLE 18 — PASTURES FOR HAY, AREA AND  
PRODUCTION, SEASON 1992-93

<i>Statistical division (a)</i>	<i>Pasture (b)</i>		
	<i>Area cut</i> <i>(<sup>'000</sup> ha)</i>	<i>Quantity</i> <i>(<sup>'000</sup> tonnes)</i>	<i>Average yield per</i> <i>hectare</i> <i>(tonnes)</i>
Perth	3.9	11.2	2.90
South-West	63.1	229.0	3.63
Lower Great Southern	20.7	74.2	3.59
Upper Great Southern	2.8	9.1	3.29
Midlands	6.1	19.0	3.12
South-Eastern	5.6	18.7	3.33
Central	2.1	5.9	2.84
Pilbara	—	—	—
Kimberley	0.3	1.3	5.00
<b>Western Australia</b>	<b>104.4</b>	<b>368.3</b>	<b>3.53</b>

(a) See explanatory note 8. (b) Includes grasses and clover; excludes lucerne.

## D – VEGETABLES

TABLE 19 – AREA OF VEGETABLES FOR HUMAN CONSUMPTION : SEASON  
(hectares)

Item	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
Beans - French and runner	197	175	151	150	89	144
Broccoli	168	164	234	234	210	292
Brussels sprouts	8	4	3	3	3	5
Cabbages	213	198	187	186	222	158
Capsicums, chillies, peppers	112	105	119	118	120	124
Carrots	852	790	685	682	706	715
Cauliflowers	754	724	802	801	773	899
Celery	107	131	123	123	80	77
Chinese cabbage	97	99	127	127	108	133
Cucumbers	107	106	119	118	134	129
Lettuce	437	403	420	417	389	377
Mushrooms	5	7	9	9	12	12
Onions - white and brown	412	471	492	490	436	321
Parsnips	20	21	16	15	16	20
Peas, green -						
Processing	875	1,427	1,598	1,571	1,048	1,034
Fresh market (sold in pod)	8	6	4	3	8	7
Potatoes	2,188	2,497	2,877	2,877	2,614	2,640
Pumpkins	417	504	675	670	612	610
Rock melons	315	351	417	415	612	719
Silverbeet and spinach	11	12	11	10	12	17
Sweet corn	98	90	84	84	106	109
Tomatoes	246	250	238	236	219	247
Turnips	12	9	12	12	10	15
Water melons	329	393	478	478	522	555
Zucchini	27	32	37	37	51	54
Other	125	160	185	183	134	182
<b>Total</b>	<b>8,141</b>	<b>9,127</b>	<b>10,102</b>	<b>10,049</b>	<b>9,248</b>	<b>9,594</b>

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.

TABLE 20 – PRODUCTION OF VEGETABLES FOR HUMAN CONSUMPTION: SEASON  
(tonnes)

Item	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
Beans - French and runner	1,381	1,513	1,370	1,360	723	925
Broccoli	2,324	2,368	4,779	4,778	2,106	2,994
Brussels sprouts	42	38	40	40	38	63
Cabbages	10,862	9,880	9,112	9,008	9,960	7,098
Capsicums, chillies, peppers	1,810	1,713	2,090	2,085	2,102	2,125
Carrots	30,988	30,942	29,925	29,841	31,040	36,439
Cauliflowers	17,866	17,438	17,156	17,152	15,204	14,656
Celery	6,917	7,901	8,920	8,920	5,976	5,106
Chinese cabbage	3,314	2,788	4,588	4,588	4,180	4,156
Cucumbers	1,680	1,849	1,815	1,799	1,952	1,782
Lettuce	14,505	13,898	14,414	14,354	17,971	17,451
Mushrooms	520	776	959	959	1,148	1,059
Onions - white and brown	21,622	25,399	27,584	27,524	22,299	18,936
Parsnips	376	309	264	255	236	342
Peas, green -						
Processing (shelled weight)	2,226	3,470	3,582	3,582	1,940	1,685
Fresh market (sold in pod)	20	17	11	11	18	15
Potatoes	78,464	98,705	110,095	110,095	97,817	108,171
Pumpkins	6,786	8,013	9,719	9,657	10,556	11,107
Rock melons	5,769	5,820	6,596	6,581	9,645	10,340
Silverbeet and spinach	328	294	273	272	373	414
Sweet corn	808	909	580	578	663	1,038
Tomatoes	7,910	7,070	8,243	8,178	7,587	8,385
Turnips	280	129	246	246	178	336
Water melons	7,223	9,230	9,206	9,202	11,529	11,753
Zucchini	321	383	434	432	605	568

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3.



## E – FRUIT

TABLE 21 – AREA OF FRUIT  
(hectares)

Item	At 31 March					
	1989 (a)	1990 (a)	1991 (a)	1991 (b)	1992 (b)	1993 (b)
Orchard fruit—						
Citrus	950	961	(c)	(c)	(c)	(c)
Apples	2,371	2,307	(c)	(c)	(c)	(c)
Pears and other pome	490	471	(c)	(c)	(c)	(c)
Stone and other	1,228	1,251	(c)	(c)	(c)	(c)
Nuts	248	161	(c)	(c)	(c)	(c)
<i>Total orchard fruit</i>	<i>5,287</i>	<i>5,150</i>	<i>5,114</i>	<i>4,801</i>	<i>5,110</i>	<i>5,687</i>
Grapevines	1,930	2,039	2,032	1,947	2,199	2,515
Tropical and other fruit—						
Bananas	444	432	450	447	498	566
Kiwi fruit (Chinese gooseberries)	27	30	29	28	26	32
Strawberries	42	52	52	52	75	145
Other	13	15	8	8	58	40
<i>Total tropical and other fruit</i>	<i>524</i>	<i>529</i>	<i>540</i>	<i>536</i>	<i>657</i>	<i>783</i>
<b>Total area of fruit</b>	<b>7,742</b>	<b>7,718</b>	<b>7,685</b>	<b>7,284</b>	<b>7,966</b>	<b>8,985</b>

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Not collected separately after 1990.

TABLE 22 – AREA AND PRODUCTION OF TROPICAL AND OTHER FRUIT: SEASON

Item	1988-89	1989-90	1990-91	1990-91	1991-92	1992-93
	(a)	(a)	(a)	(b)	(b)	(b)
BEARING AREA (hectares)						
Tropical—						
Bananas	346	366	359	357	408	438
Pawpaws	3	1	(c)	(c)	(c)	7
Other—						
Kiwi fruit (Chinese gooseberries)	16	19	19	18	20	31
Passionfruit	1	2	5	4	3	7
Strawberries	34	48	48	48	72	102
Other	3	5			12	6
TOTAL AREA BEARING AND NOT YET BEARING (hectares)						
Tropical—						
Bananas	444	432	450	447	498	566
Pawpaws	5	4	(c)	(c)	(c)	10
Other—						
Kiwi fruit (Chinese gooseberries)	27	30	29	29	26	32
Passionfruit	2	6	8	8	3	11
Strawberries	42	52	52	52	75	145
Other	5	7			58	19
PRODUCTION (tonnes)						
Tropical—						
Bananas	9,907.8	11,268.0	12,516.2	12,505.7	16,235.6	18,094.4
Pawpaws	15.3	13.3	(c)	(c)	(c)	152
Other—						
Kiwi fruit (Chinese gooseberries)	119.6	194.1	169.8	168.5	192.9	205.4
Passionfruit	10.8	8.4	4.8	4.5	3.3	11.9
Strawberries	942.4	949.6	1,071.8	1,071.8	2,257.1	1,716.5

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Not collected in 1990-91 and 1991-92.

TABLE 23 – VINEYARDS: AREA AND PRODUCTION

Item		Season					1992-93 (b)
		1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	
Area of vines (c)							
Bearing	hectares	1,684	1,701	1,763	1,688	1,919	2,261
Not yet bearing	"	246	338	269	260	280	254
<b>Total area of vines</b>	"	<b>1,930</b>	<b>2,039</b>	<b>2,032</b>	<b>1,947</b>	<b>2,199</b>	<b>2,515</b>
Grapes produced—							
For winemaking and distillation	tonnes	7,645	8,911	7,809	7,646	9,763	10,163
For drying (d)	"	1,422	1,059	1,111	1,085	839	1,347
For table or other uses	"	1,653	1,858	2,144	2,088	1,965	2,234

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) At 31 March. (d) Expressed in terms of 'fresh weight'.

TABLE 24 – GRAPE PRODUCTION BY VARIETY  
(tonnes)

Variety	Season					1992-93 (b)
	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	
For winemaking and distillation						
Cabernet Sauvignon	1,212.2	1,755.9	1,524.7	1,504.1	1,943.3	2,100.1
Chardonnay	653.1	877.3	848.9	840.4	1,249.3	1,435.7
Chenin Blanc	1,298.5	1,164.1	976.3	964.1	1,225.4	1,159.2
Grenache	479.0	475.6	493.0	457.5	631.6	491.1
Muscadelle (Tokay)	475.3	453.8	294.1	294.1	357.9	330.7
Muscat Blanc (Frontignan)	14.8	9.2	14.1	14.1	1.6	7.5
Muscat Gordo Blanco	336.6	189.2	91.2	88.2	120.0	79.9
Palomino and Pedro Ximenes	194.4	138.4	80.5	75.2	76.5	73.7
Pinot Noir	99.7	194.0	133.4	132.4	223.5	331.1
Rhine Riesling	717.2	871.6	830.8	815.4	932.8	971.0
Sauvignon Blanc	309.5	433.5	447.8	444.3	547.4	626.5
Semillon	488.2	653.1	678.6	678.6	760.9	872.8
Shiraz	585.4	724.4	670.7	624.6	632.4	659.3
Traminer	36.6	40.1	36.0	36.0	25.7	16.2
Verdelho	454.3	571.2	370.9	370.9	573.3	478.5
Other red	133.8	269.7	270.4	263.5	370.6	472.9
Other white	156.3	89.5	47.8	42.6	90.9	56.4
<b>Total</b>	<b>7,644.9</b>	<b>8,910.6</b>	<b>7,809.2</b>	<b>7,646.0</b>	<b>9,762.6</b>	<b>10,162.6</b>
For drying (c)—						
Cannon Hall Muscat	3.5	1.7	—	—	14.0	14.0
Currant	1,225.5	929.0	1,078.9	1,053.3	779.2	1,244.3
Muscat Gordo Blanco	158.4	86.0	4.5	4.5	42.0	3.5
Sultana	24.4	39.8	25.2	25.2	3.2	82.4
Other	10.5	2.1	2.4	2.4	0.7	2.4
<b>Total</b>	<b>1,422.3</b>	<b>1,058.6</b>	<b>1,111.0</b>	<b>1,085.4</b>	<b>839.1</b>	<b>1,346.6</b>
For table or other uses						
Cannon Hall Muscat	152.9	136.3	96.5	95.6	74.9	80.6
Cardinal	162.7	201.9	179.5	172.4	155.5	192.3
Chenin Blanc	4.0	—	—	—	—	—
Grenache	6.3	—	17.0	7.0	—	—
Muscat Gordo Blanco	53.8	80.4	59.5	59.4	38.1	36.2
Ohanez	68.9	57.3	29.8	29.7	29.3	20.4
Red Emperor	184.9	276.3	356.8	351.6	381.0	353.6
Sultana	230.6	226.5	361.7	357.1	202.4	336.2
Waltham Cross	14.4	15.8	12.9	12.9	15.9	16.1
Other red	398.1	426.3	503.4	484.1	494.7	633.3
Other white	377.2	437.3	527.2	517.8	573.3	564.9
<b>Total</b>	<b>1,653.8</b>	<b>1,858.1</b>	<b>2,144.3</b>	<b>2,087.6</b>	<b>1,965.1</b>	<b>2,233.6</b>
<b>Total all purposes</b>	<b>10,721.0</b>	<b>11,827.3</b>	<b>11,064.5</b>	<b>10,819.0</b>	<b>12,566.8</b>	<b>13,742.8</b>

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Fresh weight.

TABLE 25 – NUMBER OF ORCHARD TREES AGED UNDER SIX YEARS  
(’000)

Item	At 31 March					
	1989 (a)	1990 (a)	1991 (a)	1991 (b)	1992 (b)	1993 (b)
<b>Citrus—</b>						
Oranges—						
Navel	35.3	31.1	35.9	35.6	40.1	24.8
Valencia	57.1	53.7	44.2	43.7	41.2	13.4
<b>Total oranges</b>	<b>92.3</b>	<b>84.8</b>	<b>80.0</b>	<b>79.3</b>	<b>81.3</b>	<b>38.2</b>
Lemons and limes	4.4	3.2	4.5	4.3	3.5	5.0
Mandarins	19.3	18.4	22.6	20.8	21.5	30.5
Grapefruit	6.1	7.3	6.3	6.2	6.5	6.2
<b>Pome</b>						
Apples	169.0	215.0	298.9	295.5	361.9	371.6
Pears	64.0	83.7	92.7	92.1	82.6	94.0
<b>Stone—</b>						
Apricots	9.3	5.8	4.1	3.9	4.9	6.9
Avocados	23.0	21.6	22.1	22.0	13.8	16.9
Cherries	9.2	11.2	14.6	14.4	18.6	20.2
Mangoes	11.8	11.6	12.3	11.8	16.2	24.3
Nectarines	66.9	77.1	64.9	63.0	83.4	101.0
Peaches						
Clingstone	24.6	25.5	(c)	(c)	(c)	(c)
Other	33.9	29.4	(c)	(c)	(c)	(c)
<b>Total peaches</b>	<b>58.5</b>	<b>54.9</b>	<b>55.9</b>	<b>53.2</b>	<b>62.0</b>	<b>82.0</b>
Plums and prunes	75.5	80.3	118.7	117.2	116.4	125.6

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Not collected separately from 1991.

TABLE 26 – NUMBER OF ORCHARD TREES AGED SIX YEARS AND OVER  
(’000)

Item	At 31 March					
	1989 (a)	1990 (a)	1991 (a)	1991 (b)	1992 (b)	1993 (b)
<b>Citrus</b>						
Oranges						
Navel	35.0	31.7	37.6	32.5	36.3	58.6
Valencia	70.5	70.8	68.1	61.8	65.6	92.9
<b>Total oranges</b>	<b>105.5</b>	<b>102.4</b>	<b>105.7</b>	<b>94.3</b>	<b>101.9</b>	<b>151.5</b>
Lemons and limes	13.4	14.7	15.3	13.4	14.2	14.0
Mandarins	24.0	30.0	36.2	31.6	33.6	36.0
Grapefruit	5.8	7.5	7.1	6.8	9.1	7.9
<b>Pome</b>						
Apples	498.4	471.5	439.5	430.7	416.2	398.2
Pears (including Nashis)	79.2	84.9	91.1	88.4	92.8	98.1
<b>Stone—</b>						
Apricots	11.3	12.9	12.1	10.9	13.6	14.0
Avocados	7.1	9.6	9.5	9.5	25.1	29.6
Cherries	3.7	5.9	6.8	6.2	7.4	10.5
Mangoes	3.8	7.0	7.0	6.7	8.9	13.6
Nectarines	31.9	39.0	52.7	51.2	63.9	67.4
Peaches						
Clingstone	33.6	33.6	(c)	(c)	(c)	(c)
Other	20.2	25.7	(c)	(c)	(c)	(c)
<b>Total peaches</b>	<b>53.8</b>	<b>59.3</b>	<b>67.0</b>	<b>63.5</b>	<b>63.6</b>	<b>68.3</b>
Plums and prunes	62.4	65.3	78.1	76.0	73.9	91.9

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Not collected separately from 1990-91.

TABLE 27 – TOTAL NUMBER OF ORCHARD TREES  
(’000)

Item	At 31 March					
	1989 (a)	1990 (a)	1991 (a)	1991 (b)	1992 (b)	1993 (b)
Citrus—						
Oranges—						
Navel	70.2	62.8	73.4	68.0	76.4	83.3
Valencia	127.6	124.4	112.3	105.5	106.8	106.2
<b>Total oranges</b>	<b>197.8</b>	<b>187.2</b>	<b>185.7</b>	<b>173.6</b>	<b>183.2</b>	<b>189.6</b>
Lemons and limes	17.8	17.9	19.9	17.8	17.7	19.0
Mandarins	43.4	48.4	58.7	52.4	55.1	66.5
Grapefruit	12.0	14.8	13.5	13.0	15.6	14.1
Pomo—						
Apples	667.4	686.6	738.4	726.2	778.1	769.8
Pears (including Nashis)	143.2	168.6	183.8	180.6	175.3	192.1
Stone						
Apricots	20.5	18.6	16.2	14.8	18.5	21.0
Avocados	30.1	31.3	31.6	31.5	38.8	46.5
Cherries	12.9	17.1	21.4	20.6	26.0	30.6
Mangoes	15.6	18.7	19.3	18.5	25.1	37.8
Nectarines	98.7	116.2	117.6	114.2	147.3	168.4
Peaches—						
Clingstone	58.2	59.0	(c)	(c)	(c)	(c)
Other	54.2	55.1	(c)	(c)	(c)	(c)
<b>Total peaches</b>	<b>112.3</b>	<b>114.1</b>	<b>122.9</b>	<b>116.7</b>	<b>125.6</b>	<b>150.4</b>
Plums and prunes	138.0	145.6	196.8	193.2	190.3	217.6

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Not collected separately from 1990-91.

TABLE 28 – PRODUCTION OF ORCHARD FRUIT: SEASON  
(tonnes)

Item	1988-89	1989-90	1990-91	1990-91	1991-92	1992-93
	(a)	(a)	(a)	(b)	(b)	(b)
Citrus						
- Oranges—						
Navel	1,558	1,401	1,639	1,540	1,551	1,841
Valencia	3,530	3,102	3,729	3,588	3,754	4,677
<b>Total oranges</b>	<b>5,087</b>	<b>4,503</b>	<b>5,368</b>	<b>5,128</b>	<b>5,304</b>	<b>6,519</b>
Lemons and limes	1,322	1,105	1,126	1,106	1,125	1,191
Mandarins	867	1,004	1,279	1,158	1,315	1,348
Grapefruit	466	723	626	623	763	597
Pomo—						
Apples	46,695	44,835	36,348	36,156	37,418	36,551
Pears (including Nashis)	6,974	7,192	7,308	7,254	8,399	8,311
Stone—						
Apricots	386	417	437	406	420	481
Avocados	251	308	330	330	460	929
Cherries	33	55	74	67	73	130
Mangoes	225	342	281	277	568	566
Nectarines	1,112	1,425	1,768	1,732	2,333	2,225
Peaches—						
Clingstone	1,136	1,109	(c)	(c)	(c)	(c)
Other	684	1,048	(c)	(c)	(c)	(c)
<b>Total peaches</b>	<b>1,819</b>	<b>2,157</b>	<b>2,440</b>	<b>2,355</b>	<b>2,507</b>	<b>2,145</b>
Plums and prunes	2,072	2,712	3,106	3,051	3,494	3,563

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Not collected separately from 1990-91.

TABLE 29 – ORCHARD FRUIT, NUMBER OF TREES AND PRODUCTION, SEASON 1992-93

Item	Statistical Division (a)			Total Western Australia
	Perth	South West	Other	
<b>TREES UNDER SIX YEARS</b> (number)				
Apples	81,565	285,071	5,003	371,639
Apricots	3,279	2,401	1,263	6,943
Grapefruit	458	185	5,572	6,215
Lemons and Limes	2,406	135	2,496	5,037
Mandarins	8,291	12,474	9,776	30,541
Nectarines	32,987	52,206	15,847	101,040
Oranges	4,394	10,402	23,373	38,169
Peaches	44,274	18,119	19,642	82,035
Pears	19,019	73,463	1,539	94,021
Plum and Prunes	50,669	71,660	3,286	125,615
<b>TREES SIX YEARS AND OVER</b> (number)				
Apples	87,033	302,663	8,500	398,196
Apricots	5,851	6,775	1,410	14,036
Grapefruit	445	2,569	4,884	7,898
Lemons and Limes	12,393	1,257	361	14,011
Mandarins	13,236	10,311	12,457	36,004
Nectarines	20,858	45,017	1,493	67,368
Oranges	15,130	31,000	105,350	151,480
Peaches	35,650	31,244	1,444	68,338
Pears	29,622	68,084	415	98,121
Plums and Prunes	50,094	41,415	435	91,944
<b>PRODUCTION</b> (kilograms)				
Apples	7,790,667	28,637,705	122,224	36,550,596
Apricots	223,428	216,573	41,447	481,448
Grapefruit	39,196	153,679	404,191	597,066
Lemons and Limes	1,086,316	80,596	23,688	1,190,600
Mandarins	522,771	371,798	452,959	1,347,528
Nectarines	651,640	1,395,294	178,561	2,225,495
Oranges	875,166	1,893,230	3,750,304	6,518,701
Peaches	1,282,308	773,959	88,995	2,145,262
Pears	2,760,741	5,546,755	3,408	8,310,964
Plums and Prunes	2,016,128	1,544,660	1,946	3,562,734

(a) See explanatory note 8

TABLE 30 – APPLE AND PEAR PRODUCTION BY VARIETY, SEASON 1992-93

Item	Number of Trees			Total Western Australia Production (Kilograms)
	Under 1 year	1-5 years	6 years and over	
<b>Apples—</b>				
Abas	2	361	3,229	61,751
Golden Delicious	3,758	20,488	27,636	2,026,484
Red Delicious	1,122	23,610	77,663	4,112,250
Gala	6,385	75,446	4,930	1,236,841
Granny Smith	7,822	14,525	175,842	22,100,246
Jonathan	14	633	18,052	879,474
Lady Williams	3,826	23,788	69,116	4,118,190
Pink Lady	23,441	85,189	7,063	856,911
Sundowner	5,344	31,067	3,503	503,552
Other	17,080	27,738	11,162	654,897
<b>Total Apples</b>	<b>68,794</b>	<b>302,845</b>	<b>398,196</b>	<b>36,550,596</b>
<b>Pears—</b>				
Buerre Bosc	1,318	6,720	2,014	187,405
Josephine	181	1,569	3,352	236,166
Nashi	1,020	30,859	5,513	221,806
Packham	1,771	40,687	66,556	6,056,225
Williams	18	2,800	17,345	1,444,104
Winter Nellis	36	112	534	35,186
Other	512	6,418	2,807	130,072
<b>Total Pears</b>	<b>4,856</b>	<b>89,165</b>	<b>98,121</b>	<b>8,310,964</b>

## F – NURSERIES

TABLE 31 – AREA OF CULTIVATED TURF, CUT FLOWERS AND NURSERIES: SEASON  
(hectares)

Item	1988-89		1989-90		1990-91		1991-92		1992-93	
	(a)	(a)	(a)	(a)	(b)	(b)	(b)	(b)	(b)	(b)
Area used for—										
Cultivated turf	192	104	128	128	124	187				
Cut flower activity	1,781	1,342	1,620	1,596	1,417	1,269				
Other nursery activity							425	531		
<b>Total</b>	<b>1,972</b>	<b>1,871</b>	<b>1,748</b>	<b>1,724</b>	<b>1,541</b>	<b>1,987</b>				
Covered areas (c)—										
Shadehouses—										
for cut flowers	n.a.	2	n.a.	n.a.	n.a.	n.a.				
for other							24			
Glasshouses—										
for cut flowers	n.a.	18	n.a.	n.a.	n.a.	n.a.				
for other							20			

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3 (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3 (c) Included in 'Area used for -' above.

## G – WATER

TABLE 32 – CROPS AND PASTURES IRRIGATED ACCORDING TO METHOD AND SOURCE OF WATER  
(hectares)

Item	Season			
	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
Area irrigated—				
Pastures	14,583	14,089	12,966	16,364
Lucerne				
Crops—				
Cereals for all purposes	1,618	1,618	1,196	1,495
Grapevines	1,134	1,080	1,153	1,358
Other fruit	4,529	4,373	4,484	4,812
Vegetables for human consumption	6,391	6,377	6,690	6,725
Other crops	2,905	2,750	2,346	2,731
Total crops irrigated	16,577	16,198	15,872	17,121
<b>Total area irrigated</b>	<b>31,160</b>	<b>30,287</b>	<b>28,838</b>	<b>33,485</b>
Source of water				
Surface water from irrigation schemes	14,817	14,423	(c)	(c)
Other surface water				
From rivers, creeks, etc.	2,130	2,120	(c)	(c)
From farm dams	7,451	7,196	(c)	(c)
Underground water supply (e.g. bores, wells, etc.)	6,989	6,781	(c)	(c)
Town or country reticulated supply	101	95	(c)	(c)

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Information not collected since 1990-91.

## H – FERTILISER

TABLE 33 – ARTIFICIAL FERTILISER AND SOIL CONDITIONERS USED  
('000 tonnes)

Item	Season					
	1988-89 (a)	1989-90 (a)	1990-91 (a)	1990-91 (b)	1991-92 (b)	1992-93 (b)
Artificial fertiliser used:						
Area '000ha.	10,074	10,426	9,156	9,129	7,284	7,455
Quantity used '000t	1,244	1,274	1,014	1,010	767	797
Soil conditioners						
Area treated '000ha.	(c)	(c)	163	161	263	152
Quantity used '000t	(c)	(c)	201	199	(c)	154

(a) Excludes establishments with estimated value of agricultural operations less than \$20,000 - see explanatory notes 2 and 3. (b) Excludes establishments with estimated value of agricultural operations less than \$22,500 - see explanatory notes 2 and 3. (c) Not collected.

## I – GROSS VALUES

TABLE 34 – GROSS VALUES OF CROPS AND CROPPED PASTURES  
(\$'000)

Item	Season					
	1987-88	1988-89	1989-90	1990-91	1991-92r	1992-93p
<b>Cereals for grain</b>						
Barley	82,907	88,691	108,740	104,571	133,146	168,319
Grain sorghum	65	167	132	345	83	308
Maize	804	723	915	1,123	1,146	2,724
Oats	52,167	83,697	50,714	41,973	60,864	72,908
Rye	267	341	284	699	560	426
Triticale	2,880	3,390	1,548	1,777	2,171	2,344
Wheat	649,969	1,122,328	951,537	744,934	950,333	1,083,842
Other	1	3	44	20	83	47
<i>Total cereals for grain</i>	<i>789,060</i>	<i>1,299,348</i>	<i>1,113,913</i>	<i>895,443</i>	<i>1,148,386</i>	<i>1,330,918</i>
<b>Legumes for grain—</b>						
Field peas	5,842	9,676	3,888	3,521	6,139	5,255
Lupins	126,950	156,423	104,032	99,639	148,166	162,899
Other	426	597	875		127	286
<i>Total legumes mainly for grain</i>	<i>133,218</i>	<i>166,695</i>	<i>108,795</i>	<i>103,161</i>	<i>154,432</i>	<i>168,440</i>
<b>Crops for hay</b>	<b>36,169</b>	<b>45,346</b>	<b>51,657</b>	<b>38,566</b>	<b>47,687</b>	<b>41,090</b>
<b>Vegetables</b>						
Carrots	11,707	15,409	12,814	12,919	15,145	20,049
Cauliflower	9,727	12,288	13,530	10,684	14,355	15,472
Celery	5,999	3,065	3,744	5,466	3,726	3,413
Lettuce	7,052	7,206	5,463	6,253	8,346	8,293
Onions - Brown and White	6,564	7,922	7,594	6,687	6,655	5,675
Potatoes	24,124	31,070	31,865	37,496	33,170	34,635
Tomatoes	9,802	9,090	7,448	7,488	8,426	8,933
Other	22,199	27,022	27,248	37,948	41,315	43,456
<i>Total vegetables</i>	<i>97,174</i>	<i>113,072</i>	<i>109,706</i>	<i>126,942</i>	<i>131,137</i>	<i>139,926</i>
<b>Fruit</b>						
Apples	21,329	24,041	18,671	16,189	19,497	17,756
Bananas	10,282	9,426	12,684	19,826	24,489	28,951
Grapes	11,395	12,838	10,926	11,209	11,919	14,205
Oranges	2,084	2,396	1,616	1,666	1,830	1,882
Peaches	3,192	2,724	2,200	3,026	4,070	3,881
Pears	4,409	3,797	3,015	3,706	4,997	5,596
Plums and prunes	3,573	2,588	3,276	3,512	4,391	5,090
Other fruit (inc. nuts)	8,942	10,431	10,255	12,115	20,365	19,910
<i>Total fruit</i>	<i>65,206</i>	<i>68,241</i>	<i>62,643</i>	<i>71,250</i>	<i>91,558</i>	<i>97,271</i>
<b>All other crops—</b>						
Nurseries	41,603	50,751	46,969	53,220	50,589	62,359
Rapeseed (canola)	427	259	201	577	4,716	3,936
Other	1,026	1,683	3,518	5,047	5,806	3,996
<i>Total all other crops</i>	<i>43,056</i>	<i>52,693</i>	<i>50,688</i>	<i>58,844</i>	<i>61,111</i>	<i>70,291</i>
<b>Pastures and grasses (a)—</b>						
Cut for hay	31,186	39,435	40,757	43,362	45,490	39,853
Harvested for seed	8,133	14,901	6,823	8,812	5,836	8,896
<i>Total pastures and grasses</i>	<i>39,319</i>	<i>54,336</i>	<i>47,580</i>	<i>52,175</i>	<i>51,326</i>	<i>48,749</i>
<b>Total crops and pastures</b>	<b>1,203,201</b>	<b>1,799,732</b>	<b>1,544,981</b>	<b>1,346,379</b>	<b>1,685,640</b>	<b>1,896,685</b>

(a) Includes grasses, lucerne and clovers.

## EXPLANATORY NOTES

### Scope and coverage

Statistics in this publication are, in general, derived from the annual Agricultural Census, conducted throughout Australia at 31 March, which collects data from establishments with agricultural activity.

2. In order to minimise demands on small operators for statistical information and to reduce the cost of processing the Census, the Australian Bureau of Statistics (ABS) excludes from the Census, establishments with an estimated value of agricultural operations (EVAO) less than a certain cut-off level. This cut-off level is reviewed from time to time. From 1981-82 to 1985-86 establishments were excluded from the Census if they had, or were expected to have, an EVAO of less than \$2,500. From the 1986-87 Census, the cut-off value has been raised to \$20,000 and from the 1990-91 Census, the cut-off has been raised to \$22,500.

3. While the \$2,500 cut-off applying up to 1985-86 resulted in some changes in the counts of numbers of establishments appearing in publications, the effect on production statistics for most commodities was small. The \$20,000 cut-off applying from 1986-87 has a more significant effect on Census results. To provide a measure of the effect of the raised cut-off, Census data for 1984-85 and 1985-86 have been retabulated excluding establishments with EVAO of less than \$20,000. This information is available on request. The \$22,500 cut-off applying from 1991-92 has a very small effect on Census results. To provide a measure of the effect of the raised cut-off, Census data for 1990-91 have been retabulated excluding establishments with EVAO less than \$22,500. Tables in this publication show 1985-86 data excluding establishments below the \$20,000 cut-off and 1992 data excluding establishments below the \$22,500 cut-off; graphs show data on both bases for 1984-85 and 1985-86.

4. In addition to the Agricultural Census, the ABS periodically collects a truncated range of data from establishments with an EVAO of between \$5,000 and \$19,999. Data for these establishments for 1988-89 is available; inquiries should be made to the contact person shown at the front of this publication.

5. An operator who works more than one establishment is generally required to supply a separate annual return for each one, particularly if they are situated in different statistical local areas. If, however, the establishments are not far apart and are worked as one, the operator may (and in most instances does) supply a single composite return. The establishments covered by a composite return are treated, for statistical purposes, as forming a single rural establishment. Where an establishment extends into two or more statistical local areas, the establishment and all its operations are attributed to the statistical local area in which the homestead is located.

6. Fruit statistics for Western Australia relate, in general, to the season ended 31 March. For apples, pears and grapes, where harvesting (or wine production) was not completed by 31 March, production statistics nevertheless relate to the completed harvest (or vintage). In all cases, statistics relating to area or to number of trees are as at 31 March of the year shown.

7. Data for 1992-93 data refers to the Agricultural season 1992-93 and includes production harvested after 31 March 1993 from crops planted before that date.

8. Establishments in the Agricultural Census are now classified according to the Australian Standard Geographical Classification (ASGC), edition 3.

9. In size and location tables 'Agricultural areas' comprise the Perth, South-West, Upper Great Southern, Lower Great Southern and Midlands Statistical Divisions and the SLAs of Dundas, Esperance, Ravensthorpe, Carnamah, Geraldton, Greenough, Irwin, Mingenew, Morawa, Mullewa, Northampton, Perenjori, Three Springs, Chapman Valley and Coorow. 'Pastoral areas' comprise the Pilbara and Kimberley Statistical Divisions and the SLAs of Coolgardie, Kalgoorlie-Boulder, Laverton, Leonora, Menzies, Carnarvon, Exmouth, Shark Bay, Upper Gascoyne, Sandstone, Cue, Meekatharra, Mount Magnet, Murchison, Wiluna and Yalgoo.

### Data releases

10. Other final data from the 1992-93 Agricultural Census are published in the following series of publications recently released or intended for release later this year.

	Catalogue No.
Agriculture, 1992-93	7113.5
Livestock and Livestock Products, 1992-93	7221.5

11. The ABS also has more detailed agricultural statistics on magnetic tape, microfiche and floppy disk. Agstats on floppy disk offers a wider range of data aggregated at smaller geographic areas than those generally available in printed publications, together with an easy-to-use, menu-driven interrogation facility.

### Unpublished statistics

12. As well as statistics included in this and related publications, the ABS may have other relevant unpublished data available. Inquiries should be made to the contact person shown at the front of this publication.

13. Current publications produced by the ABS are listed in *Catalogue of Publications and Products* (1101.0) which is available from this office.

### Symbols and other usages

14. The following symbols, where shown in columns of figures or elsewhere in tables, mean:

EVAO	estimated value of agricultural operations
n.a.	not available
n.e.c.	not elsewhere classified
r	figure or series revised since previous issue
—	nil or rounded to zero
p	preliminary

15. Where figures have been rounded discrepancies may occur between sums of the component items and totals.





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