

## CHAPTER 6 – Agricultural profile of Caloundra City

### Introduction

The following agricultural profile includes information on the agricultural commodities produced in Caloundra City sitting within the South East Queensland NRM region (pastures and grasses, crops, livestock, and livestock products) and information on agricultural practices (cultivation techniques, treatment of stubble, fertiliser use, and soil conditioner use). There are five SLAs included in Caloundra City; four are fully included in the region but only 18.5% of the Caloundra - Hinterland SLA is included (See Figure 2 and Table 1.1).

An estimate of the number of agricultural holdings in Caloundra City at June 2001 was 246. This estimate was derived from the Agricultural Census 2000-01.

### Commodities

#### Pastures and grasses

Native or naturalised pastures represented 88.8% of the pastures in Caloundra City in 2000-01, sown pastures represented 11.2% and pastures cut for hay represented 0.1%. Pastures and grasses in Caloundra City represented less than 1% of the total agricultural holdings for the South East Queensland NRM region.

**Table 6.1: Volume and value of pastures and grasses, Caloundra City, 2000-01**

Pastures and grasses	Volume		Area		Value		Production of commodity as a percentage of Queensland total		
	t '000	ha '000	% of total ag. holdings in region	\$ '000	% of total ag. value in region	Vol	Area	Value	
Pastures cut for hay	0.02	0.002	0%	4	0%	0%	0%	0%	
Sown pastures	N/A	0.3	0.02%	N/A	N/A	N/A	0%	N/A	
Native or naturalised pasture	N/A	2	0.14%	N/A	N/A	N/A	0%	N/A	

N/A – Not Applicable

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

#### Crops

Fruit and nuts produced the highest value of production (\$24.8m) in Caloundra City in 2000-01 while vegetables produced the second highest value of production (\$5.4m). Sugar cane (\$0.2m) produced the third highest value of production in Caloundra City in 2000-01. The value of production for fruit and nuts produced in Caloundra City in 2000-01 represented 3% of the total value of agricultural production for the South East Queensland NRM region.

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**Table 6.2: Volume and value of crops, Caloundra City, 2000-01**

Crops	Volume		Area		Value		Production of commodity as a percentage of Queensland total		
	t '000	ha '000	% of total ag. holdings in region	\$ '000	% of total ag. value in region	Vol	Area	Value	
Cereals for grain	0.04	0.01	0%	7	0%	0%	0%	0%	
Peanuts	0	0	0%	13	0%	0%	0%	0%	
Sugar Cane	11	0	0%	248	0%	0%	0%	0%	
Fruit and nuts	N/A	3.54	0.2%	24,851	3%	N/A	7%	3%	
Vegetables	N/A	0.38	0%	5,476	1%	N/A	1%	1%	
Total	10.74	4.05		30,596					

N/A – Not Applicable

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

### Livestock

The highest value of production for livestock in Caloundra City in 2000-01 was from meat poultry (\$33.7m), with the second highest value of production produced by cattle and calves (\$1.4m). The value of production for poultry in Caloundra City in 2000-01 represented 21.1% of the total value of production for meat poultry in Queensland.

**Table 6.3: Volume and value of livestock, Caloundra City, 2000-01**

Livestock	Number		Value		Production of commodity as a percentage of Queensland total	
	No. of stock '000	\$ '000	% of total ag. value in region	No.	Value	
Cattle & calves	7 <sup>a</sup>	1,459 <sup>b</sup>	0.2%	0.1%	0%	
Pigs	1.19	376 <sup>b</sup>	0%	0.2%	0.2%	
Poultry	1,373	33,731 <sup>b</sup>	3.7%	13%	21.1%	

(a) The number of stock for cattle and calves includes the number of meat cattle and dairy cattle combined.

(b) These values represent the value of all slaughtered animals not the value of total livestock.

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

### Livestock products

Egg production (\$3.5m) produced the highest value of production for livestock products in Caloundra City in 2000-01. Cow's milk production produced the second highest value of production (\$2.7m). The value of production for eggs in Caloundra City in 2000-01 represented 6% of the total value of production for eggs in Queensland.

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**Table 6.4: Volume and value of livestock products, Caloundra City, 2000-01**

Livestock Products	Volume			Value		Production of commodity as a percentage of Queensland total
	Vol '000	\$ '000	% of total ag. value in region	Vol	Value	
Cow milk production (L)	5,472	2,754	0.30%	0.6%	1.2%	
Eggs (dz)	2,281	3,466	0.38%	6%	6%	

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

## Agricultural practices

### Cultivation techniques

In total 9ha of land in Caloundra City in 2000-01 was prepared for cropping. One to two cultivations was the method used to prepare this land for cropping. The total area of land prepared for cropping in Caloundra City in 2000-01 did not represent a significant percentage of the total area of land prepared for cropping in the South East Queensland NRM region.

**Table 6.5: Cultivation technique, Caloundra City, 2000-01**

Cultivation Technique	Area cultivated		Cultivation technique as a percentage of Queensland total
	ha '000	% of total area cultivated in region	
1 or 2 cultivations	0.01	0%	0%

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

### Treatment of stubble

There were two methods of treating crop stubble in Caloundra City in 2000-01, mulching the stubble (50%) and removing the stubble by heavy grazing or baling (50%). The area of stubble treated in Caloundra City in 2000-01 represented less than 1% of stubble treatment in the South East Queensland NRM region.

**Table 6.6: Treatment of stubble, Caloundra City, 2000-01**

Treatment	Area treated		Stubble treatment as a percentage of Queensland total
	ha '000	% of total area treated in region	
Stubble mulched	0.04	0%	0%
Stubble removed by baling or heavy grazing	0.04	0%	0%

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

### Fertiliser used

The volume of fertiliser used in Caloundra City in 2000-01 represented 8.2% of the total amount of fertiliser used in the South East Queensland NRM region. Urea was the most common fertiliser used in the region in terms of both volume used and area treated.

Totals for hectares treated have not been included in Table 6.7; if more than one fertiliser was used on one hectare that hectare was counted twice in the agricultural census 2000-01, the total for hectares treated would therefore overestimate the number of hectares treated with fertiliser in the region.

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**Table 6.7: Fertiliser used, Caloundra City, 2000-01**

Fertiliser	Quantity used t	Area treated ha	Fertiliser use as a percentage of Queensland total	
			Area	Vol
Urea	677	1264	0%	0%
Ammonium Sulphate	36	101	0%	0%
Ammonium Nitrate	29	90	1%	1%
Anhydrous Ammonia	6	1	0%	0%
Single Superphosphate	107	289	0%	1%
Triple Superphosphate	4	68	0%	0%
Muriate of Potash	44	207	0%	0%
Potassium Sulphate	515	756	3%	7%
Potassium Nitrate	42	176	1%	1%
Mono Ammonium Phosphate	13	45	0%	0%
Di Ammonium Phosphate	157	296	0%	1%
Other	1425	3751	1%	1%
Total	3062			1%

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

### Soil conditioner used

The most common soil conditioner used in Caloundra City in 2000-01 was dolomite to stabilise acidity (51.3%). In total 87.1% of soil conditioner used in Caloundra City in 2000-01 was to treat soil acidity. Dolomite (7.6%) was the most common soil conditioner used to correct physical soil problems. The volume of dolomite used to treat soil acidity in Caloundra City in 2000-01 accounted for 5% of all dolomite used to treat soil acidity in Queensland.

**Table 6.8: Soil conditioner used, Caloundra City, 2000-01**

Soil conditioner	Quantity used		Area treated % of total ag. holdings in region	Soil conditioner use as a percentage of Queensland total	
	t'000	ha'000		Area	Vol
Lime - to correct or stabilise soil acidity	0.46	0.23	0.01%	0.7%	1%
Dolomite - to correct or stabilise soil acidity	0.66	0.36	0.02%	5%	5%
Dolomite - to correct physical soil problems	0.10	0.09	0.01%	2%	1%
Gypsum - to correct physical soil problems	0.07	0.07	0%	0%	0%

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

### Area irrigated

The total area of agricultural holding for Caloundra City in 2000-01 was 16,327ha; of this area 1,188ha of land was irrigated, this represents 2.6% of the total area of land irrigated in the South East Queensland NRM region. The area of land irrigated in Caloundra City in 2000-01 represented less than 1% of the total area of land irrigated in Queensland.

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**Table 6.9: Area irrigated, Caloundra City, 2000-01**

	Area		Area irrigated as a percentage of Queensland total
	ha '000	% of total ag. holdings in region	Area
Total area of holding	16	1%	0%
Irrigated - total area	1	2.6%	0%
Non-irrigated - total area	15	0.9%	0%

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

### Natural resource management profile

#### Fencing to exclude grazing

The reasons for the construction of fencing to exclude grazing in Caloundra City in 2000-01 included; the protection of planted trees and shrubs (46.2%), the protection of creeks and rivers (23.1%), the protection of remnant native vegetation (15.4%), the protection of other undefined areas (15.4%), and the protection of other degraded areas (7.7%). Fencing constructed to exclude grazing in 2000-01 in Caloundra City accounted for 2% of total fencing constructed to exclude grazing in the South East Queensland NRM region.

**Table 6.10: Fencing to exclude grazing, Caloundra City, 2000-01**

Reason	Length		Fencing to exclude grazing as a percentage of Queensland total
	km	% of total length of fencing constructed in region in 2000-01	Length
To protect remnant native vegetation	2	0%	0%
To protect planted trees and shrubs	6	1%	1%
To protect creeks and rivers	3	0%	0%
To protect other degraded areas	1	0%	0%
To protect other areas	2	0%	0%
Total fencing for all reasons	13	2%	

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).

#### Tree seedlings planted

Tree seedlings planted in Caloundra City in 2000-01 were planted for nature conservation (78.4%), for timber and wood pulp (13.2%), to enhance production (0.3%), for the protection of land and water (2.8%), and for other undefined purposes (2.3%). The total number of seedlings planted in Caloundra City in 2000-01 represented 6% of the seedlings planted in the South East Queensland NRM region in 2000-01.

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**Table 6.11: Tree seedlings planted, Caloundra City, 2000-01**

Purpose of Planting	Number planted		Area planted		Seedlings and trees planted as a percentage of Queensland total	
	No. '000	% of seedlings planted in region in 2000-01	ha	% of total ag. holdings in region	No.	Area
Seedlings planted for nature conservation	13	5%	43	0%	5%	3%
Seedlings planted for timber and wood pulp	2	1%	6	0%	0%	1%
Seedlings planted for enhanced production	1	0%	539	0%	0%	1%
Seedlings planted for protection of land and water	0	0%	3	0%	0%	0%
Seedlings planted for all other purposes	0	0%	2	0%	0%	1%

Source: ABS data, Agricultural Census, 2000-01 (as reported in QRBIS).