

CHAPTER 20 – Agricultural profile of Pine Rivers Shire

Introduction

The following agricultural profile includes information on the agricultural commodities produced in Pine Rivers Shire (pastures and grasses, crops, livestock, and livestock products) and information on agricultural practices (cultivation techniques, treatment of stubble, fertiliser use, and soil conditioner use).

An estimate of the number of agricultural holdings in Pine Rivers Shire at June 2001 was 143. This estimate was derived from the Agricultural Census 2000-01.

Commodities

Pastures and grasses

Native or naturalised pastures represented 96% of all pastures in Pine Rivers Shire in 2000-01. Sown pastures only accounted for 3.9% of all pastures grown in Pine Rivers Shire and pastures cut for hay accounted for only 0.1%. Pastures and grasses in Pine Rivers Shire accounted for only a small percentage of the total agricultural holdings for the South East Queensland NRM region in 2000-01.

Table 20.1: Volume and value of pastures and grasses, Pine Rivers Shire, 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	0.06	0.01	0%	9	0%	0.02%	0.02%	0.02%	
Sown pastures	N/A	0.3	0.02%	N/A	N/A	N/A	0.01%	N/A	
Native or naturalised pasture	N/A	7	0.42%	N/A	N/A	N/A	0.01%	N/A	

N/A – Not Applicable

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

Crops

The crop that produced the greatest value of production for Pine Rivers Shire in 2000-01 was fruit and nuts (\$2.3m), followed by vegetables (\$1.8m), and then cereals for grain (\$0.11m). The value of crops in Pine Rivers Shire in 2000-01 did not represent a significant percentage of the total value of crops produced in the South East Queensland NRM region in 2000-01.

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Table 20.2: Volume and value of crops, Pine Rivers Shire, 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	0.06	0.02	0%	11	0%	0%	0%	0%	
Crops for hay	0.02	0.002	0%	N/A	N/A	0%	0%	N/A	
Fruit and nuts	N/A	0.3	0%	2,327	0%	N/A	1%	0%	
Vegetables	N/A	0.2	0%	1,868	0%	N/A	1%	0%	
Total	0.1	1		4,206					

N/A – Not Applicable

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

Livestock

The highest value of production for livestock in Pine Rivers Shire in 2000-01 was produced by cattle and calves (\$3.8m). The second highest value of production was produced by meat poultry (\$0.6m). Meat poultry produced in Pine Rivers Shire in 2000-01 represented 0.4% of the total value of meat poultry in Queensland.

Table 20.3: Volume and value of livestock, Pine Rivers Shire, 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	13 ^a	3,822 ^b	0.4%	0.1%	0.1%	
Pigs	0.03	9 ^b	0%	0%	0%	
Poultry	56	618 ^b	0.1%	1%	0.4%	

(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

The highest value of production for livestock products in Pine Rivers Shire in 2000-01 was from cows' milk production (\$4.5m), followed by egg production (\$0.5m). Cows' milk production in Pine Rivers Shire in 2000-01 represented 2% of the total value of cows' milk production in Queensland.

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Table 20.4: Volume and value of livestock products, Pine Rivers Shire, 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)	14,621	4,591	0.5%	1.7%	2%	
Eggs (dz)	300	456	0.05%	0.8%	0.8%	

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

Agricultural practices

Cultivation techniques

In total 162ha of land in Pine Rivers Shire in 2000-01 was prepared for cropping. No cultivation was used on 59.9% of the land prepared for cropping and one to two cultivations were used on 40.1% of land prepared for cropping in Pine Rivers Shire in 2000-01. Land prepared for cropping in Pine Rivers Shire in 2000-01 only accounted for a very small percentage (0.5%) of all the land prepared for cropping in South East Queensland.

Table 20.5: Cultivation technique, Pine Rivers Shire, 2000-01

Cultivation Technique	Area cultivated		Cultivation technique as a percentage of Queensland total
	ha '000	% of total area cultivated in region	Area
No cultivation	0.1	0.3%	0%
1 or 2 cultivations	0.1	0.2%	0%

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

Treatment of stubble

The methods used to treat crop stubble in the Pine Rivers Shire in 2000-01 included ploughing the stubble into the soil (50.8%), mulching the stubble (46.9%), removing the stubble by hot burn (0.8%), and baling or grazing the stubble (0.8%). The area of stubble treated in the Pine Rivers Shire in 2000-01 represented only 1% of stubble treatment in the South East Queensland NRM region.

Table 20.6: Treatment of stubble, Pine Rivers Shire, 2000-01

Treatment	Area treated		Stubble treatment as a percentage of Queensland total
	ha '000	% of total area treated in region	Area
Stubble ploughed into soil	0.065	0.3%	0%
Stubble mulched	0.060	0.2%	0%
Stubble removed by hot burn	0.001	0%	0%
Stubble removed by baling or heavy grazing	0.001	0%	0%

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

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Fertiliser used

The volume of fertiliser used in the Pine Rivers Shire in 2000-01 represented 2.7% 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 20.7; 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.

Table 20.7 Fertiliser used, Pine Rivers Shire, 2000-01

Fertiliser	Quantity used	Area treated	Fertiliser use as a percentage of Queensland total	
			Area	Vol
	t	ha		
Urea	328	685	0%	0%
Ammonium Sulphate	5	9	0%	0%
Ammonium Nitrate	5	19	0%	0%
Single Superphosphate	82	204	0%	1%
Double Superphosphate	6	19	0%	0%
Muriate of Potash	21	151	0%	0%
Potassium Sulphate	76	94	0%	1%
Potassium Nitrate	9	16	0%	0%
Mono Ammonium Phosphate	4	24	0%	0%
Di Ammonium Phosphate	15	73	0%	0%
Other	446	753	0%	0%
Total	999			0%

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

Soil conditioner used

The majority of soil conditioner used in the Pine Rivers Shire in 2000-01 was to stabilise acidity (76%). Lime (38%) and dolomite (38%) were used equally to treat acidity. Gypsum (24%) only was used to treat physical soil problems. The volume of dolomite used in the Pine Rivers Shire in 2000-01 only represented a small amount of the total amount of dolomite used in the whole of Queensland (0.5%).

Table 20.8: Soil conditioner used, Pine Rivers Shire, 2000-01

Soil conditioner	Quantity used	Area treated		Soil conditioner use as a percentage of Queensland total	
		ha'000	% of total ag. holdings in region	Area	Vol
	t'000				
Lime - to correct or stabilise soil acidity	0.07	0.14	0.01%	0.4%	0.1%
Dolomite - to correct or stabilise soil acidity	0.07	0.05	0%	1%	0.5%
Gypsum - to correct physical soil problems	0.04	0.02	0%	0%	0.1%

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

Area irrigated

The total area of agricultural holding for the pine Rivers Shire in 2000-01 was 16,430ha; of this area 914ha of land was irrigated, this represents 2.0% of the total area of land irrigated in the South East Queensland NRM region. The area of land irrigated in the Pine Rivers Shire in 2000-01 represented less than 1% of the total area of land irrigated in Queensland.

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Table 20.9 Area irrigated, Pine Rivers Shire, 2000-01

	Area		Area irrigated as a percentage of Queensland total
	ha '000	% of total ag. holdings in region	Area
Total area of holding	16.4	1%	0%
Irrigated - total area	0.9	2.0%	0%
Non-irrigated - total area	15.5	0.9%	0%

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

Natural resource management profile

Fencing to exclude grazing

Reasons for the construction of fencing to exclude grazing in the Pine Rivers Shire in 2000-01 included; the protection of undefined areas (71.4%), the protection of creeks and rivers (14.3%), and the protection of planted trees and shrubs (7.1%). Fencing constructed to exclude grazing in 2000-01 in the Pine Rivers Shire accounted for only 2% of total fencing constructed to exclude grazing in the South East Queensland NRM region.

Table 20.10: Fencing to exclude grazing, Pine Rivers Shire, 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 planted trees and shrubs	1	0.2%	0.3%
To protect creeks and rivers	2	0.3%	0.1%
To protect other areas	10	1%	0.3%
Total fencing for all reasons	14	2%	

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

Tree seedlings planted

Tree seedlings were planted for only two reasons in the Pine Rivers Shire in 2000-01; for nature conservation (19.6%) and for timber and wood pulp (80.4%). The total number of seedlings planted in the Pine Rivers Shire in 2000-01 accounted for only 1.2% of the total number of tree seedlings planted in the South East Queensland NRM region in 2000-01.

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Table 20.11: Tree seedlings planted, Pine Rivers Shire, 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	0.4	0.2%	6	0%	0%	0%
Seedlings planted for timber and wood pulp	2	1%	13	0%	0%	3%

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