

12 SOUTHPORT TRC

The Southport TRC consists of the main urban centre of the Gold Coast, including Paradise Point and Southport in the north and Coolangatta in the South.

BUSINESS PROFILES

Location and Use of Ports

Table 12.1 shows the number of license holders within the Southport TRC and the number of survey respondents who reported having homeports within the TRC. On the basis of the sample count, it is estimated that there were 14 commercial harvesters within the Southport TRC. These was a 95% confidence level that the correct population count of commercial harvesters within the TRC was between 7 and 21. Figure 12.1 shows the geographic location of this TRC.

Table 12.1 Location of Homeports

Town	Adj. Database Count	Sample Count	Estimated Count	Percent within TRC
Southport	3	2	3	21.4
Gold Coast UC	10	4	5	35.7
Jacobs Well	2	1	2	14.3
Biggera Waters	1	1	2	14.3
Tylerville	0	1	2	14.3
Twin Waters	1	0	0	0.0
Total TRC	17	9	14	100.0
95% Confidence Interval for Estimated TRC Count				7-21
Percent of Total Active Licence Holders in QLD				9.1%

Note: Gold Coast UC (Balance) excludes Southport but includes Arundel, Runaway Bay, Biggera Waters, Labrador, Currumbin, Ashmore, Coombabah, Gold Coast, Tugun, Paradise Point, Coolangatta, Bellevue Park, Hollywell, Broadbeach Waters, Chirn Park, Bundall, Worongary.

Adjusted database count is based on the postal address as recorded in the licencing information, which may not be the homeport of the harvesting businesses. The adjusted database count reduces the count for latent licence holders (22.5%). The estimated count adjusts the sample count by the sampling fraction of 1.525

No other harvesters used Southport as a port when travelling to or from harvesting areas.

Fishing Activity and Type

As shown in Table 12.2, the collection of bloodworms, yabbies and tubeworms (60%) were the primary harvesting activities from the Southport TRC. There was some collection of aquarium fish, coral and/or shells (20%) and sandworms (20%). No trochus or seacucumber were collected.

Table 12.2 Type of Harvesting Activity

Harvest Type	Sample Count	Percent within TRC
Bloodworms, tubeworms and/or yabbies	6	60.0
Aquarium fish, coral, shells and/or grit	2	20.0
Sandworms	2	20.0
Trochus and/or seacucumber	0	0.0
Total Sample	10	100.0

Note: This is a multiple response table where all rows are independent.

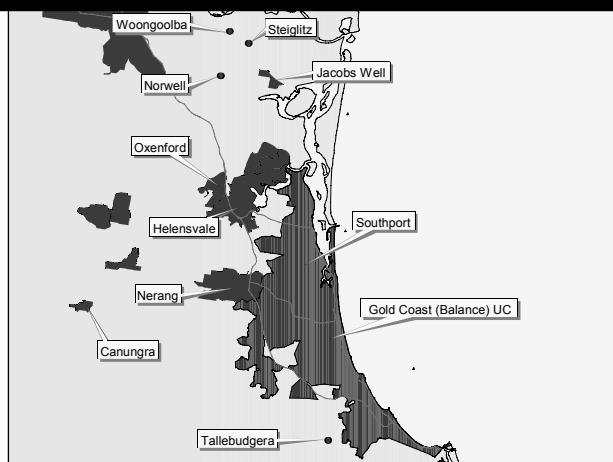


Figure 12.1 Location of the Southport TRC

Table 12.3 shows the peak months for harvesting activity within the Southport TRC to be October to January, which is the same as the overall Queensland peak season, between October and January.

Table 12.3 Peak Harvesting Months During Past 12 Months

Months	Sample Count	Percent within TRC	Percent of QLD Fishery
January	5	55.6	37.6
February	2	22.2	18.8
March	1	11.1	15.3
April	3	33.3	21.2
May	1	11.1	12.9
June	2	22.2	18.8
July	3	33.3	28.2
August	1	11.1	31.8
September	1	11.1	28.2
October	4	44.4	30.6
November	4	44.4	34.1
December	7	77.7	48.2

Table 12.4 provides a more detailed description of the seasonal variation in harvesting activities by product. Bloodworm, yabbies and tubeworms were especially harvested in December and January.

Location of Resource Use

Figure 12.2 shows the location of resource use by commercial harvesting operations in the Southport TRC. The location of resource use is directly adjacent to Southport, and further north into Moreton Bay.

Harvesting Industry Employment

Table 12.5 identifies the number of employees of commercial harvesting businesses within the Southport TRC. The majority of businesses had one full-time employee (55.6%), although 33% had between 2-3 fulltime employees. There was little part-time (22.2%) or casual employment (0.0%) by these businesses. The average number of harvesters per business was 1.4. In total it is estimated that there were 21 harvesters in the Southport TRC.

Table 12.4 Seasonal Variations in Harvesting Activity

Months	Sample Count	Percent within TRC	Percent of Fishery
Bloodworms, tubeworms and yabbies			
January	4	66.7	50.0
February	2	33.3	23.3
March	1	16.7	16.7
April	2	33.3	23.3
May	1	16.7	6.7
June	1	16.7	10.0
July	2	33.3	16.7
August	0	0.0	16.7
September	0	0.0	23.3
October	2	33.3	20.0
November	2	33.3	26.7
December	5	83.3	66.7

Business Ownership and Size

Table 12.6 shows the number of years the current owner or operator has owned the harvesting business. Businesses within this TRC have been owned for an average of 15.1 years, with 67% of businesses being owned by the current owner for less than 10 years.

Table 12.6 Number of Years of Current Ownership of the Harvesting Business

Number of Years	Sample Count	Percent within TRC	Cumulative Percent
1-5	3	33.3	33.3
6-10	3	33.3	66.7
11-15	0	0.0	66.7
16-20	0	0.0	66.7
21-25	0	0.0	66.7
26-30	1	11.1	77.8
31+	2	22.1	100.0
Total	9	100.0	100.0

Mean Number of Years owned or operated 15.1
 Difference of TRC Mean to QLD Population Mean (12.0) +3.1

Note: Standard errors for number of years ownership (sample = 4.8; QLD population = 0.9).

Table 12.7 shows the average number of years the business has been operating, regardless of ownership. The average number of years is 15.2 years, which is greater than the Queensland average (12.4 years).

Table 12.5 Number of Employees

Number of Employees	Full-Time Count	Full-Time Percent	Part-Time Count	Part-Time Percent	Casual Count	Casual Percent
Nil	1	11.1	7	77.8	9	100.0
1	5	55.6	1	11.1	0	0.0
2-3	3	33.3	1	11.1	0	0.0
4-5	0	0.0	0	0.0	0	0.0
6-10	0	0.0	0	0.0	0	0.0
10-20	0	0.0	0	0.0	0	0.0
20+	0	0.0	0	0.0	0	0.0
Total Businesses	9	100.0	9	100.0	9	100.0
Total Harvesters	11		3		0	
Mean Number of Harvesters per Business		1.4				
Estimated Number Employed within the TRC		21				

Note: Part-time and casual employment is recorded as 0.5 when contributing to total employment.
 Total number of employees includes the owner-operator and is the number of full-time equivalent employees.

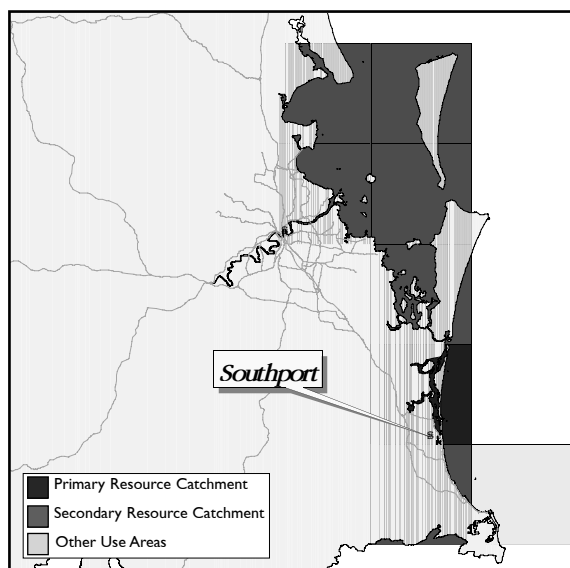


Figure 12.2 Southport TRC: Location of Resource Use

Table 12.7 Number of Years Business has been Operating

Number of Years	Sample Count	Percent within TRC	Cumulative Percent
1-5	3	33.3	33.3
6-10	2	22.2	55.6
11-15	1	11.1	66.7
16-20	0	0.0	66.7
21-25	1	11.1	77.8
26-30	0	0.0	77.8
31+	2	22.2	100
Total	9	100.0	100

Mean Number of Years owned or operated 15.2
 Difference of Mean to Population Mean (12.4) +2.8

Note: Standard errors for number of years operated (sample =4.7; QLD population = 1.0)

Table 12.8 shows that the majority of harvesting businesses within this TRC operated one boat (44.4%). The mean number of boats used (1.6) was similar to the Queensland average (1.4).

Table 12.8 Number of Boats Operated by Harvesting Businesses

Number of Boats	Sample Count	Percent TRC
0	1	11.1
1	4	44.4
2	2	22.2
3	2	22.2
4+	0	0.0
Total Number of Businesses	9	100.0
Mean Number of Boats Operated		1.6
Difference of Mean to QLD Population Mean (1.4)		+0.2

Note: Standard errors for number of boats operated (sample = 0.3; QLD population = 0.1)

Table 12.9 shows the length of boats operated by harvesting businesses in the Southport TRC. The majority of boats (85.7%) were small and varied in length between two and six metres.

Table 12.9 Length of Boats Operated by Harvesting Businesses

Length of Boat (metres)	Sample Count	Percent TRC
2-6	12	85.7
7-10	0	0.0
11-14	1	7.1
15-18	1	7.1
18-24	0	0.0
24+	0	0.0
Total Number of Boats	14	100.0
Mean Length of Boats Operated (metres)		5.8
Difference of Mean to QLD Population Mean (7.4)		1.6
Mean Length of Largest Boat Operated (metres)		6.9
Difference of Mean to QLD Population Mean (7.4)		0.5

*Note: Standard errors for mean length of largest boats (sample = 1.1; QLD population=0.4)
Standard errors for mean length of largest boats (sample = 1.9; QLD population=0.4)*

Value of Production and Location of Sales

Table 12.10 shows the wholesale value of all products sold by harvesting businesses within the Southport TRC for the 12 months prior to the survey. The profile for the Southport TRC shows that all production values were less than \$100,000 per annum, which indicate that businesses in this TRC are smaller than the Queensland average.

Harvest businesses in the Southport TRC had an estimated gross value of production of approximately \$1.1 million, which was 2.1% of the total value of production of the Queensland commercial harvesting industry.

Table 12.10 Wholesale Value of Product (Annual value)

Wholesale Value (\$,000)	Sample Count	Sample Percent	Queensland Percent
Less than \$25	6	66.6	45.9
\$25-50	1	11.1	24.5
\$50-75	1	11.1	8.2
\$75-100	1	11.1	5.1
\$100-125	0	0.0	5.1
\$125-150	0	0.0	0.0
\$150-175	0	0.0	2.0
\$175-200	0	0.0	2.0
\$200+	0	0.0	7.2
Total	9	100.0	100.0

Median GVP for TRC	\$7,500
Estimated Total GVP for TRC	\$307,000
Estimated Total GVP for QLD Population	\$14,554,000
Percent of Total Queensland Production	2.1%

*Note: Estimated TRC population total is based on the sample GVP total multiplied by the sampling fraction of 1.524
Queensland total GVP based on sampled GVP from all TRCs multiplied by the sampling fraction of 1.524*

Table 12.11 shows the value and location of sales for the Southport TRC. Eleven percent of products were exported overseas, equating to an estimated \$34,000. The amount of product sold in Australia was estimated at \$273,000. Most of the product sold in Australia was sold to the Gold Coast (42.9%) and within Southport (22.9%).

Table 12.11 Sales to Customers

Location of Sales	Sample Value of Sales (\$,000)	Mean Percent of Sample	Estimated of all Sales (\$,000)
Gold Coast	77	42.9	118
Southport	41	22.9	62
Brisbane	30	16.6	45
Townsville	16	9.1	25
Sydney	10	5.7	15
Maroochydore	5	2.9	8
Total Sales (in Aust)	179	89.0	\$273
Total Sales (Overseas)	22	11.0	\$34
Total Sales	201	100.0	\$307

Note: The sample value of sales is based on GVP as reported by businesses in the survey.

Business Expenditure

Table 12.12 shows that approximately \$160,000 was spent by businesses in this TRC over the previous year on business goods and services (excluding salaries and wages). The majority of this expenditure occurred on the Gold Coast (27%), Southport (23.4%), Townsville (11.7%) and in NSW (10.4%).

Table 12.12 Town Location of Business Expenditure
(All costs, excluding salaries and wages)

Location of Expenditure	Sample Value of Expenditure (\$,000)	Percent of Sample	Estimated Expenditure (\$,000)
Gold Coast	28	27.0	43
Southport	24	23.4	37
Townsville	12	11.7	19
NSW	11	10.4	17
Jacobs Well	9	8.5	14
Beenleigh	9	8.4	13
Biggera Waters	5	5.2	8
Brisbane	4	3.6	6
Other towns (3)(<1%)	2	1.8	3
Total Expenditure	105	100.0	160

Note: Business expenditure includes all non labour expenditure (ie. fuel, equipment, repairs etc)
Coefficients from the QLD input-output table for 1992-1993 indicate that expenditure on local intermediate purchases and imports, accounted for 52.1% of total revenue. The amount of business expenditure occurring within specific locations is based on 52.1% of the estimated GVP for the business.

HARVESTER PROFILES

Town of Residence

Table 12.13 indicates that harvesters resided mostly on the Goldcoast (22.2%), Jacobs Well (22.2%) and Southport (22.2%), as well as outside the Southport TRC.

Table 12.13 Town of Residence

Town of Residence	Sample Count	Percent of Sample
Goldcoast	2	22.2
Jacobs Well	2	22.2
Southport	2	22.2
Biggera Waters	1	11.1
Tweed Heads	1	11.1
Townsville	1	11.1
Total	9	100.0

Months Employed in the Harvesting Industry

Table 12.14 shows that during the past 12 months the majority of harvesters within this TRC were employed in the harvesting industry between October and January, which was a similar pattern to the average Queensland pattern.

Table 12.14 Months Employed in the Harvesting Industry During Past 12 Months

Months	Owner/ Operators	All QLD Harvesters
January	88.9	85.4
February	77.8	91.3
March	77.8	84.4
April	77.8	82.3
May	77.8	85.4
June	77.8	82.3
July	77.8	86.5
August	77.8	87.5
September	77.8	89.6
October	88.9	87.5
November	100.0	90.6
December	100.0	90.6

Location of Household Expenditure

Table 12.15 shows the location of household expenditure from employment in the harvesting industry. An estimated \$364,000 was spent on household items from the Southport TRC. Some 27.2% was spent in Southport, 25.7% was spent at the Gold Coast, and the remaining 47.1% was spent in nine other towns in both Queensland and New South Wales.

Table 12.15 Town Location of Household Expenditure (all commodities and services)

Location of Expenditure	Sample Value of Expenditure (\$,000)	Percent Expenditure	Estimated Expenditure (\$,000)
Southport	65	27.2	99
Gold Coast	61	25.7	93
Townsville	26	11.1	40
NSW	24	9.9	36
Jacobs Well	19	8.1	29
Beenleigh	19	8.0	29
Biggera Waters	12	4.9	18
Brisbane	8	3.4	12
Other towns (3) (<1%)	4	1.7	6
Total Expenditure	239	100.0	364

Note: The sample total personal income for the Southport TRC was \$310,000. The Household Expenditure Survey for Queensland: 1993-1994 (ABS, 1996) indicates that for households in non-metropolitan areas 79% of gross weekly income was related to commodity and service purchases. Furthermore, of the total expenditure on commodities and services purchased by households, Queensland Input-Output tables indicate that 77% of expenditure occurs within Queensland, with the balance contributing to taxes and imports from outside Queensland. The sample value of expenditure was therefore calculated to be \$238,700. Estimated value of expenditure was calculated by multiplying the sample value of expenditure by 1.525

School and Employment Locations of Family Members

The town locations in which family members attended school or were employed are shown in Table 12.16. The Goldcoast (36.7%) was the primary location for school and employment of family members, although a significant number of family members attended school or work in Southport (16.7%), NSW (13.3%), and Townsville (10%).

Table 12.16 School and Employment Locations of Family Members

Location of Employment or School	Sample Count	Percent of Sample
Gold Coast	11	36.7
Southport	5	16.7
NSW	4	13.3
Townsville	3	10.0
Jacobs Well	2	6.7
Woongoolba	2	6.7
Silverspur	1	3.3
Biggera Waters	1	3.3
Browns Plains	1	3.3
Total Family Members	30	100.0

Note: Counts and percentages based on all family members.

Owner-Operator Social and Demographic Profiles

Table 12.17 provides profile information of harvesters in the Southport TRC. For comparative purposes information is also provided for all harvesters throughout Queensland. Harvesters in the Southport TRC generally lived in their towns longer, had been in the industry longer, worked less hours per week, had moved to retain their employment, were more likely to be working in another industry, owned their own home, used a business plan, had a larger family, and a lower dependency ratio than the average Queensland harvester.

Table 12.17 Owner-Operator Profiles for the Southport TRC

Profile	Owner/ Operators	All QLD Employees
Estimated Number of Active Harvesters	14	163
Mean age of fisher	44.3	46.9
Age range	21-56	21-72
Percent males	100	93.9
Mean years resident in town	24.2	19.5
Mean number of years in harvesting industry	19.6	16.4
Median hours per week in harvesting industry	16.0	29.0
Percent moved town to retain employment	22.2	14.4
Percent currently employed in other industry	44.4	37.8
Percent previously employed in other industry	88.9	87.6
Housing tenure (%)		
Rent	37.5	33.0
Mortgage	0.0	24.7
Own home	62.5	42.3
Other (eg, live with parents, on boat)	0.0	0.0
Educational		
Year completed school (%)		
Primary school	12.5	13.7
Year 8	0.0	6.3
Year 9	25	10.5
Year 10	12.5	27.4
Year 11	12.5	9.5
Year 12	37.5	32.7
Percent completed trade or TAFE certificate	33.3	34.7
Percent completed industry or business course	0.0	11.9
Percent with business plan	55.6	29.6
Marital Status		
Percent married or relationship	66.7	64.3
Partner' Income*		
Full-time employment	50.0	39.1
Part-time employment	16.7	25
Casual employment	0.0	9.4
Not employed	33.3	26.6
Family Composition		
Mean family size	2.6	2.1
Estimated number of total family members	23	215
Dependency Ratios		
Age Dependency Ratio**	12.9	19.6
Elderly Dependency Ratio	0.0	2.3
Child Dependency Ratio	12.9	17.3
Family Member Industry Dependency Ratio***	12.9	14.7
Gross Individual Income (%)		
Less than \$16,000	33.3	25.0
\$16,000 - \$26,000	0.0	19.3
\$26,000 - \$36,000	0.0	15.9
\$36,000 - \$52,000	55.6	23.9
\$52,000 - \$78,000	11.1	8.0
Over \$78,000	0.0	8.0
Average Income (\$)	34,444	33,602

Note: * Percentage based on those fishers with partners.. Includes partners income from all sources.

** The age dependency ratio is the number of children (below 15 years) and elderly persons (above 65 years) to every 100 persons in the population.

*** The industry dependency ratio is the number of persons in the family who are over 15 years of age and working in the fishing industry (excluding the direct industry employee) as a proportion of all family members over 15 years of age.

Source: Reef CRC (2000)

