

2 FINANCIAL VALUES

This chapter of the report presents information on the direct, measurable income that is derived through utilising the GBRMP. The main uses of the GBRMP include:

- commercial tourism;
- commercial fishing; and
- private recreational fishing and boating.

It is noted that the estimates of the gross financial values of the direct uses of the GBRMP are not an estimate of the values of the existence of the protected area. Even in the absence of such a declared heritage area or marine park, the area would still be used for tourism, commercial and recreational fishing and boating but the financial values generated might be lower due to the greater degradation of the resource. In brief, it cannot be assumed that *all* estimates in terms of tourism, fishing etc. are attributable to the existence of the GBRMP itself or to the activities of GBRMPA in regulating its use.

The following sections present the most up-to-date information on the financial benefits gained through utilising the GBRMP in each of these major use groups.

2.1 Commercial Tourism

Commercial tourism in the GBRMP has been defined as including tourism on vessels and stays on island resorts, but excludes expenditure on air transport by tourists travelling to the region. The rationale for excluding this expenditure element relates to difficulties in attributing the proportion of total aircraft expenditure relating to activities within the GBRMP, as opposed to activities outside the Marine Park.

The financial value of commercial tourism in the GBRMP comprises expenditure on:

- trips on vessels in the GBRMP;
- accommodation on the mainland associated with the trip to the GBRMP; and
- holidays on island resorts (excluding on reef trips).

2.1.1 Passenger Expenditure on Commercial Tourism Vessels

The Great Barrier Reef Marine Park Authority collects information on the number of passenger days spent on commercial tourism vessels through administration procedures associated with the Environmental Management Charge (EMC).

In Driml (1997b), the value of passenger days spent on commercial tourism vessels was estimated by the following relationship:

$$V_{PV} = \sum (PD_{PVi} \times F_{PVi})$$

where:

V_{PV} = Value of passenger days spent on commercial tourism vessels in the GBRMP;

PD_{PVi} = Passenger days by type of commercial tourism vessel; and

F_{PVi} = Fares per trip per passenger day by commercial tourism vessel.

Passenger days by commercial tourism vessel was supplied through data analysis completed by GBRMPA, while fares per trip per passenger day were estimated through a prices survey conducted as part of the Driml (1997b) report.

Discussions with GBRMPA reveal that the data analysis completed for the Driml (1997b) report has not been updated, nor could it be updated in the time required to complete this analysis. Given this, we have assumed the same relative allocations over the analysis period in terms of

trip types, region and fares per passenger day (adjusting for inflation) as used in the Driml (1997b) report. These assumptions are detailed in the following table.

Table 2.1 Great Barrier Reef Marine Park key assumptions

Trip type and region	% of passenger days	Fares per passenger day \$ 1995-96
Bareboat Whitsundays	2.9	90.00
Weekly cruise	1.0	220.00
Weekly fishing	0.1	100.00
Twice weekly	2.1	200.00
Daily dive	4.8	120.00
Daily cruise	4.3	70.00
Capricorn 100+ pax day trips	1.7	120.00
Mackay/Whitsundays 100+ pax day trips	8.5	120.00
Townsville 100+ pax day trips	3.7	120.00
Cairns 100+ pax day trips	35.4	120.00
Cruise ship	0.1	320.00
Unknown	35.5	70.00
Source: Driml 1997b		

Table 2.2 summarises passenger trips by type over the period 1993-94 to 1997-98.

Table 2.2 Great Barrier Reef Marine Park number of passenger days by trip type

Trip type and region	1993-94	1994-95	1995-96	1996-97	1997-98
Bareboat Whitsundays	45 141	42 676	48 692	44 384	43 022
Weekly cruise	15 254	14 421	16 454	14 998	14 538
Weekly fishing	994	939	1 072	977	947
Twice weekly	33 410	31 586	36 038	32 850	31 842
Daily dive	75 430	71 311	81 363	74 165	71 889
Daily cruise	66 901	63 247	72 163	65 779	63 760
Capricorn 100+ pax day trips	26 259	24 825	28 324	25 818	25 026
Mackay/Whitsundays 100+ pax day trips	133 122	125 851	143 592	130 889	126 872
Townsville 100+ pax day trips	57 771	54 616	62 314	56 802	55 058
Cairns 100+ pax day trips	555 526	525 187	599 219	546 208	529 445
Cruise ship	1 919	1 814	2 070	1 887	1 829
Unknown	556 425	526 037	600 189	547 092	530 301
Total ^(a)	1 568 151	1 482 510	1 691 490	1 541 850	1 494 529
(a) Equal to EMC passenger day data. Source: KPMG Consulting, GBRMPA					

Based on the assumptions and passenger trip numbers detailed above, we have estimated the gross value of passenger days on commercial tourism vessels in the Great Barrier Reef Marine Park as shown in table 2.3.

Table 2.3 Great Barrier Reef Marine Park gross value of passenger expenditure on commercial tourism vessels*

	1993-94	1994-95	1995-96	1996-97	1997-98
Total	\$148 785 000	\$145 874 000	\$172 821 000	\$160 046 000	\$155 903 000
* = nominal dollars. Source: KPMG Consulting, GBRMPA					

2.1.2 Accommodation Expenditure—Mainland Accommodation

Tourism expenditure on accommodation associated with the GBRMP may be categorised as either being mainland accommodation or reef/island accommodation.

Driml (1997b) assumes that persons who utilise commercial tourism vessels within the GBRMP stay in mainland accommodation for two nights either prior to, and/or, upon completion of, their Marine Park trip.

While information on passenger days is captured within the Environmental Management Charge, that data set does not detail the actual number of passengers travelling on commercial tourism vessels. That is, passengers may be travelling on board a vessel for more than one day, such as a weekly bareboat passenger, weekly cruise passenger or a weekly fishing trip passenger. Therefore, passenger day data needs to be adjusted to take into consideration trip duration.

Trip duration by type of trip has been estimated by GBRMPA, and is presented in table 2.4.

Table 2.4 Great Barrier Reef Marine Park average trip duration by trip type

Trip type and region	Trip duration (days)
Bareboat Whitsundays	7
Weekly cruise	4
Weekly fishing	5
Twice weekly	3
Daily dive	1
Daily cruise	1
Capricorn 100+ pax day trips	1
Mackay/Whitsundays 100+ pax day trips	1
Townsville 100+ pax day trips	1
Cairns 100+ pax day trips	1
Cruise ship	3
Unknown	2

Source: Driml 1997b

Total passenger numbers who potentially utilise commercial accommodation on the mainland can then be derived through the following simple formula:

$$PN_{PV} = \sum \left(\frac{PD_{PVi}}{TD_{PVi}} \right)$$

where:

PN_{PV} = Total passenger numbers utilising commercial tourism vessels in the GBRMP;

PD_{PVi} = Passenger days by type of commercial tourism vessel; and

TD_{PVi} = Trip duration by commercial tourism vessel.

Table 2.5 presents number of passengers by trip type for the period 1993–94 to 1997–98.

In determining the mainland accommodation expenditure associated with these passengers, the following adjustments need to be taken into consideration to avoid over-estimation:

- daytrippers;
- visitors staying with friends and relatives; and
- visitors sharing commercial accommodation.

Research conducted by the Queensland Tourist and Travel Corporation (QTTC) in the early 1990s provides insight into the size of the daytripper market and the number of visitors staying with friends and relatives in the Mackay, Northern and Far North statistical divisions.

In 1990, approximately 5%, 8% and 10% of daytrippers in the Mackay, Northern and Far North statistical divisions respectively visited either the GBRMP or Whitsunday islands, totalling some 446 700 visitors. Also, the number of visitors staying with friends and relatives in the

Mackay, Northern and Far North statistical divisions during 1990 was approximately 876 300.

Table 2.5 Great Barrier Reef Marine Park average number of passengers by trip type

Trip type and region	1993-94	1994-95	1995-96	1996-97	1997-98
Bareboat Whitsundays	6 449	6 097	6 956	6 341	6 146
Weekly cruise	3 814	3 605	4 114	3 750	3 635
Weekly fishing	199	188	214	195	189
Twice weekly	11 137	10 529	12 013	10 950	10 614
Daily dive	75 430	71 311	81 363	74 165	71 889
Daily cruise	66 901	63 247	72 163	65 779	63 760
Capricorn 100+ pax day trips	26 259	24 825	28 324	25 818	25 026
Mackay/Whitsundays 100+ pax day trips	133 122	125 851	143 592	130 889	126 872
Townsville 100+ pax day trips	57 771	54 616	62 314	56 802	55 058
Cairns 100+ pax day trips	555 526	525 187	599 219	546 208	529 445
Cruise ship	640	605	690	629	610
Unknown	278 212	263 018	300 094	273 546	265 151
Total	1 215 458	1 149 078	1 311 056	1 195 072	1 158 394

Source: KPMG Consulting, GBRMPA

The QTTC Queensland Visitor Survey (QVS) identifies the total number of visitors staying in commercial accommodation within the Fitzroy, Mackay, Northern and Far North statistical divisions in 1990 as 2 542 200 persons. Given daytrippers, visitors staying with friends and relatives' and visitors staying in commercial accommodation are mutually exclusive groups, we are able to estimate the relative size of each market segment.

Table 2.6 Great Barrier Reef Marine Park total visitors by market segment, 1990, Fitzroy, Mackay, Northern and Far North statistical divisions

Market segment	Visitor numbers	Market share
Visitors staying in commercial accommodation	2 542 200	65.8%
Visitors staying with friends and relatives	876 300	22.7%
Daytrippers	446 700	11.5%
Total	3 865 200	100.0%

Source: QTTC, KPMG Consulting

This analysis suggests that of the total passengers utilising commercial vessels within the GBRMP, approximately 66% are likely to stay in commercial mainland accommodation pre and/or post their Reef trip.

Further, it is likely that these passengers will share commercial accommodation. The QVS also presents details on the size of groups travelling together, as detailed in table 2.7. For the purposes of this analysis we have assumed that group size also represents the average number of persons sharing a room within commercial accommodation.

Table 2.7 Average group size staying in commercial accommodation

	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98
Fitzroy	2.10	2.00	2.00	1.98	2.23	2.01	1.99	2.04
Mackay	2.10	2.20	2.00	2.00	1.80	1.79	1.95	1.98
Northern	2.10	1.90	1.90	2.24	2.00	1.98	2.10	2.03
Far North	2.10	2.10	1.90	2.00	2.12	2.09	2.13	2.06
Average	2.16	2.06	1.92	2.08	2.07	2.10	2.09	2.07

Note: 1997-98 equals average group size for each statistical division over the period 1990 to 1997.

Source: QTTC

In order to estimate the number of room nights sold in commercial mainland accommodation the following equation needs to be applied:

$$RNS = \sum \left(\frac{PN_i \times PCA_i}{GSCA_i} \right)$$

where:

RNS = Total rooms night sold of commercial mainland accommodation;

PN_i = Passenger numbers utilising commercial tourism vessels in period i ;

PCA_i = Percentage of passengers staying in commercial mainland accommodation in period i ; and

$GSCA_i$ = Average group size staying in commercial mainland accommodation in period i .

Table 2.8 presents estimates of room nights sold in commercial mainland accommodation directly relating to passengers of commercial vessels within the GBRMP.

Table 2.8 Great Barrier Reef Marine Park number of room nights sold to passengers by trip type

Trip type and region	1993-94	1994-95	1995-96	1996-97	1997-98
Bareboat Whitsundays	2 121	2 228	2 556	2 139	2 045
Weekly cruise	2 411	2 295	2 577	2 362	2 312
Weekly fishing	63	60	67	62	60
Twice weekly	7 040	6 701	7 525	6 897	6 751
Daily dive	47 685	45 386	50 965	46 716	45 728
Daily cruise	42 293	40 254	45 202	41 434	40 557
Capricorn 100+ pax day trips	17 445	14 644	18 536	17 066	16 103
Mackay/Whitsundays 100+ pax day trips	87 556	91 971	105 522	88 295	84 410
Townsville 100+ pax day trips	33 926	35 921	41 399	35 580	35 652
Cairns 100+ pax day trips	365 377	325 871	377 144	337 323	337 613
Cruise ship	210	188	217	194	194
Unknown	175 879	167 400	187 978	172 305	168 660
Total	782 006	732 918	839 689	750 374	740 086

Source: KPMG Consulting, GBRMPA

As noted in Driml (1997b), it is possible to broadly identify the statistical division from which some trip types depart, and then associate specific accommodation expenditure on a per night basis in order to estimate the gross value of mainland accommodation per statistical division. Where it is not possible to identify statistical division, average accommodation expenditure is utilised to estimate gross value of mainland accommodation.

Table 2.9 presents average mainland accommodation expenditure per room per visitor night by statistical division for the period 1990-91 to 1997-98.

Table 2.9 Average mainland accommodation expenditure per room per visitor night by statistical division 1990-91 to 1997-98*

	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98
	\$	\$	\$	\$	\$	\$	\$	\$
Fitzroy	57.71	52.14	58.14	68.41	71.87	68.18	67.18	69.36
Mackay	87.17	84.48	79.76	106.98	99.22	92.09	90.58	92.44
Northern	41.10	38.38	41.53	65.21	55.80	63.76	62.81	61.06
Far North	72.01	79.38	78.60	90.12	117.17	124.48	104.63	101.83
Average	66.34	63.07	63.45	84.38	88.11	112.52	103.21	102.71

* = nominal dollars. Note: 1997-98 equals 1996-97 expenditure adjusted for inflation.

Source: QTTC, KPMG Consulting

Applying these estimates of mainland accommodation expenditure to the number of room nights sold generates a total gross value of mainland accommodation expenditure associated with passengers of commercial tourism vessels of the GBRMP.

Table 2.10 Great Barrier Reef Marine Park mainland accommodation expenditure by trip type (\$'000)*

Trip type and region	1993-94 \$	1994-95 \$	1995-96 \$	1996-97 \$	1997-98 \$
Bareboat Whitsundays	226.9	221.0	235.4	193.7	189.0
Weekly cruise	203.4	202.2	289.9	243.8	237.4
Weekly fishing	5.3	5.3	7.6	6.4	6.2
Twice weekly	594.1	590.4	846.7	711.8	693.4
Daily dive	4 023.7	3 998.9	5 734.8	4 821.4	4 696.6
Daily cruise	3 568.8	3 546.7	5 086.3	4 276.2	4 165.5
Capricorn 100+ pax day trips	1 193.4	1 052.5	1 263.8	1 146.6	1 116.9
Mackay/Whitsundays 100+ pax day trips	9 366.7	9 125.0	9 717.6	7 997.9	7 802.5
Townsville 100+ pax day trips	2 212.2	2 004.4	2 639.4	2 234.8	2 177.0
Cairns 100+ pax day trips	32 927.8	38 183.1	46 947.0	35 292.7	34 379.1
Cruise ship	19.0	22.0	27.0	20.3	19.8
Unknown	14 840.9	14 749.2	21 151.9	17 782.8	17 322.5
Total	69 182.2	73 700.7	93 947.4	74 728.3	72 805.9
* = nominal dollars. Source: KPMG Consulting					

2.1.3 Tourist Expenditure at Great Barrier Reef Resorts

Information on the number of visitors, visitor nights and expenditure on accommodation within Great Barrier Reef Marine Park resorts is captured within the Australian Bureau of Statistics (ABS) Survey of Tourist Accommodation. The QVS also provides details of visitors, visitor nights and total visitor expenditures within the Great Barrier Reef tourist area.

As noted above, both the ABS Survey of Tourist Accommodation and QVS provide data on the number of visitors staying in accommodation within the GBRMP. However, the ABS data is generally considered to be more timely and accurate, although not as detailed as the QVS in terms of information on type of expenditure. That is, the QVS provides a breakdown of visitor expenditures by the following categories:

- food and beverage expenditure;
- pleasure shopping;
- gambling;
- entertainment, admission fees, equipment hire;
- transport fares;
- vehicle expenses;
- other incidentals; and
- accommodation.

In Driml (1997b), tourist expenditure at Great Barrier Reef resorts was estimated through utilising 'visitor night' data sourced from the ABS Survey of Tourist Accommodation and expenditure data on a visitor night basis sourced from the QVS. Average expenditure data was also adjusted to exclude expenditure on transport and fares so as to avoid double counting of expenditure on reef trips.

Table 2.11 presents data on room nights, guest nights and guest arrivals from the ABS Survey of Tourist Accommodation for the period 1990-91 to 1997-98.

Table 2.11 ABS survey of tourist accommodation room nights, guest nights and guest arrivals
1990–91 to 1997–98

	1990–91	1991–92	1992–93	1993–94	1994–95	1995–96	1996–97	1997–98
Room nights	304 906	421 461	470 310	568 658	620 103	67 954	469 055	577 441
Guest nights	763 752	852 958	961 234	1 190 310	1 353 920	1 238 282	1 184 260	1 267 266
Guest arrivals	162 233	221 479	291 571	329 772	345 584	232 906	284 766	330 850

Source: ABS, KPMG Consulting

Table 2.12 outlines expenditure patterns since 1993–94 in the Great Barrier Reef Tourism Area.

Table 2.12 Great Barrier Reef tourist area expenditure by type per visitor night*

	1993–94 \$	1994–95 \$	1995–96 \$	1996–97 \$	1997–98 \$
Food and Beverage	39.40	40.34	47.60	38.40	43.32
Pleasure Shopping	15.04	14.38	17.56	16.34	16.53
Gambling	0.77	–	0.42	1.25	0.84
Entertainment	12.29	6.89	17.39	15.39	13.51
Transport Fares	14.30	11.84	18.19	15.97	15.72
Vehicle Expenses	3.66	2.36	6.53	2.89	4.02
Other Incidentals	4.14	3.33	5.59	4.40	4.55
Accommodation	87.00	92.93	99.23	86.71	95.66
Total Expenditure	176.60	172.07	212.51	181.35	194.16
Total Expenditure less Transport	162.30	160.23	194.32	165.38	178.44

* = nominal dollars. Source: QVS

Note: 1997–98 expenditure estimates based on average over period 1994 to 1996.

Applying these estimates of adjusted total expenditure, we are able to calculate the gross value of island resort based tourism expenditure. These estimates are presented in table 2.13.

Table 2.13 Great Barrier Reef Marine Park gross value of island resort based tourism expenditure*

	1993–94	1994–95	1995–96	1996–97	1997–98
Total	\$193 182 000	\$216 939 000	\$240 623 000	\$195 853 000	\$226 127 000

* = nominal dollars. Source: KPMG Consulting, GBRMPA

2.1.4 Summary

Table 2.14 summaries the gross value of commercial tourism activities within the Great Barrier Reef Marine Park and surrounding environs attributable to Marine Park tourists.

Table 2.14 Great Barrier Reef Marine Park gross value of tourism expenditure (\$'000)*

	1993–94 \$	1994–95 \$	1995–96 \$	1996–97 \$	1997–98 \$
Tourism Vessel Passengers	148 785	145 874	172 821	160 046	155 903
Mainland Accommodation	69 182	73 701	93 947	74 728	72 806
Island Resorts	193 182	216 939	240 623	195 853	226 127
Total	411 149	436 513	507 392	430 627	454 836

* = nominal dollars. Source: KPMG Consulting, GBRMPA

2.2 Commercial Fishing

Information on the size and value of commercial fishing operations in the Great Barrier Reef region is recorded by Queensland Fisheries Management Authority (QFMA) and analysed by the Fisheries Branch of the Queensland Department of Primary Industries (DPI).

The GBRMP area utilised for commercial fishing as described in this report is the region from 10°41' south to 24°30' south—the northern and southern boundaries of the Park.

Tables 2.15 and 2.16 present information on the size of the commercial fishing catch (in tonnes) and its estimated gross 'wharf' value by fish species.

Table 2.15 Size of commercial fishing catch in the Great Barrier Reef Marine Park (tonnes)

Species name	1991	1992	1993	1994	1995	1996	1997
Barramundi	208	133	167	140	135	128	152
Coral Trout	1 417	1 469	1 274	1 163	1 372	1 647	1 352
Crab	579	827	1 336	2 002	1 512	1 869	1 958
Lobsters	388	518	642	584	732	631	692
Mackerel—Grey	66	74	56	52	46	60	124
Mackerel—Spanish	465	415	442	449	344	454	655
Mullet	132	111	100	151	226	186	128
Other	831	758	905	880	1 014	1 235	1 720
Prawn	5 134	4 070	5 107	4 560	5 803	6 478	5 444
Red Throat Emperor	513	545	544	545	471	572	759
Scallop	724	741	1 763	1 074	1 519	528	797
Shark	143	161	196	219	267	248	309
Snapper	24	13	12	17	39	43	62
Squid	9	13	21	23	24	23	37
Threadfin—Blue	104	85	92	101	87	79	95
Threadfin—King	80	60	71	63	53	60	62
Whiting	77	99	28	29	21	28	24
Total	10 893	10 093	12 755	12 050	13 666	14 268	14 372
Source: QFMA, DPI							

Table 2.16 Gross value of commercial fishing catch in the Great Barrier Reef Marine Park (\$'000)*

Species name	1991 \$	1992 \$	1993 \$	1994 \$	1995 \$	1996 \$	1997 \$
Barramundi	1 454	930	1 168	978	942	893	1 065
Coral Trout	14 170	14 694	12 740	11 628	13 721	16 473	13 518
Crab	4 040	5 062	7 017	9 347	7 801	8 847	9 435
Lobsters	4 661	6 218	7 712	7 022	8 884	7 574	8 305
Mackerel—Grey	393	442	339	313	274	358	744
Mackerel—Spanish	3 253	2 908	3 094	3 142	2 408	3 176	4 588
Mullet	398	335	300	455	679	559	384
Other	4 094	3 417	3 521	3 289	3 982	5 166	7 192
Prawn	62 840	51 071	65 803	58 067	75 419	82 542	68 071
Red Throat Emperor	2 564	2 726	2 719	2 724	2 357	2 861	3 796
Scallop	14 482	14 784	35 169	21 334	30 283	10 397	15 818
Shark	858	966	1 176	1 314	1 604	1 490	1 853
Snapper	189	104	100	134	311	344	498
Squid	44	67	104	113	119	113	186
Threadfin—Blue	416	340	367	403	350	314	382
Threadfin—King	320	239	283	254	213	239	248
Whiting	309	397	111	116	83	112	97
Total	114 486	104 700	141 722	120 630	149 429	141 458	136 180
* = nominal dollars. Source: QFMA, DPI							

The above analysis provides an indication of the relative importance of each species to commercial fishing within the Great Barrier Reef region. As shown in figure 2.1, prawns represent the most significant species in terms of both catch (38% of total catch size) and value (50% of total value) in the region.

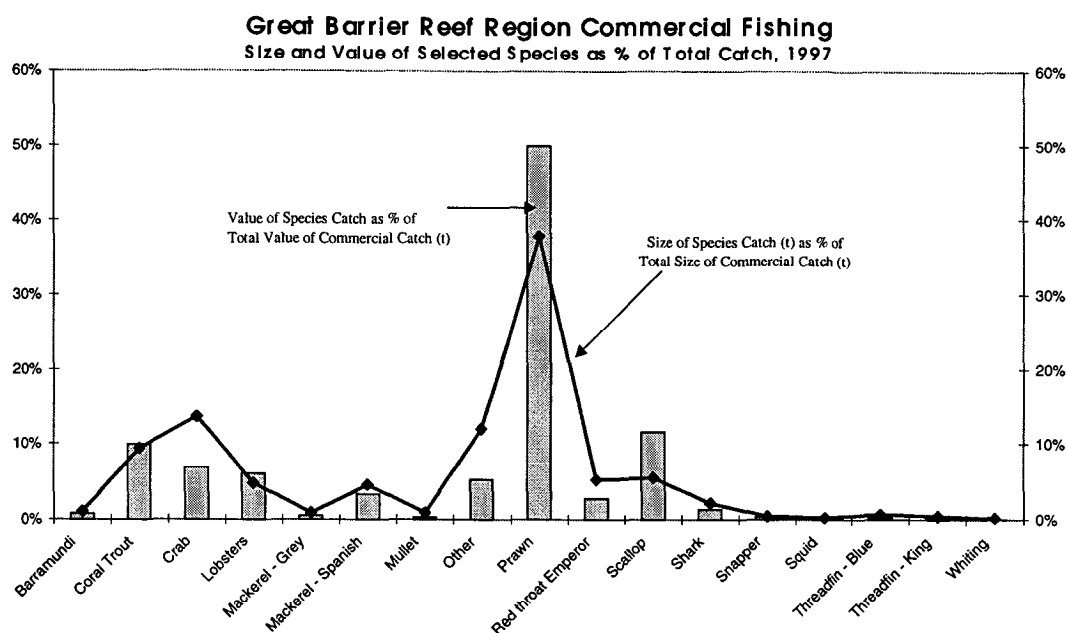


Figure 2.1 Size and value of selected commercial fishing species for the Great Barrier Reef region, 1997

2.3 Private Recreational Fishing and Boating

Queensland Department of Transport statistics reveal a total of 37 951 recreational motor boats registered within the areas adjacent to the catchment area.

Research conducted by Blamey and Hundloe (1993) estimated that nearly two-thirds (63%) of registered private boats within areas adjacent to the GBRMP were used for recreational fishing within the Marine Park itself. Further, this study also found average expenditure in 1990 on recreational fishing and boating to be approximately \$3700 per vessel, including boat trip costs.

Assuming this per vessel expenditure by other recreational fishing and boating enthusiasts is consistent over time, adjusted for inflation, it is possible to estimate the value of recreational fishing and boating expenditure within the GBRMP for the study period.

Table 2.17 Great Barrier Reef Marine Park recreational fishing and boating

	1993-94	1994-95	1995-96	1996-97	1997-98
No. of boats registered adjacent to Marine Park	43 458	44 955	42 487	40 155	37 951
No. of boats used in Marine Park	27 379	28 322	26 767	25 298	23 909
Annual expenditure per boat	\$4 092	\$4 244	\$4 407	\$4 477	\$4 499
Gross Value (\$'000)*	\$112 038	\$120 194	\$117 953	\$113 258	\$107 572

* = nominal dollars. Source: Blamey and Hundloe, KPMG Consulting

Other published and unpublished research on the value of recreational fishing and boating in the catchment area vary from the estimate presented above. Details of this other research are presented below.

- An unpublished study by the Queensland Fisheries Management Authority and GBRMPA has estimated the gross value of recreational fishing and boating to the Queensland economy, and specifically the gross value of recreational fishing and boating derived from users of the Marine Park. The study has estimated there are approximately 28 900 recreational fishers utilising the GBRMP annually, generating gross income for the Queensland economy of between \$84 million (cost of fishing approach) and \$132 million (gross expenditure approach) per annum.
- Studies conducted in other Australian states provide an estimate of annual expenditure on recreational fishing by anglers. Average annual expenditure on recreational fishing by anglers in South Australia is approximately \$750, Victoria \$1000 and Western Australia \$650. Assuming recreational anglers in the GBRMP have a similar spending pattern to other recreational anglers around Australia, it is estimated this group would contribute approximately \$110 million to the Queensland economy.

In summary, various studies over the past few years have attempted to value annual expenditure by recreational anglers on fishing and boating in the GBRMP. Considering the results of these studies, it would appear that the gross value of recreational fishing and boating in 1997-98 (as determined through adjusting the Blamey and Hundloe (1993) methodology) of \$108 million appears appropriate.

2.4 Summary

Table 2.18 presents the gross financial value of the three direct uses of the GBRMP for the period 1993-94 to 1997-98.

Table 2.18 Great Barrier Reef Marine Park gross financial value of direct uses (\$'000)*

	1993-94 \$	1994-95 \$	1995-96 \$	1996-97 \$	1997-98 \$
Commercial Tourism	411 149	436 513	507 392	430 627	454 836
Commercial Fishing	141 722	120 630	149 429	141 458	136 180
Recreational Fishing and Boating	112 038	120 194	117 953	113 258	107 572
Total	664 910	677 337	774 774	685 342	698 588

* = nominal dollars. Source: KPMG Consulting