

# AQUACULTURE Production Report

2001/2002

# Minister's Message



It is a pleasure to present the NSW Government's Aquaculture Production report for the 2001-2002 financial year.

With NSW Government support, the value of our State's aquaculture production continues to increase, setting a new record of nearly \$46 million.

During the 2001-2002 financial year, steady increases of production continued for silver perch, mussel and rainbow trout. Production of rainbow trout increased by more than 47 tonnes, adding almost \$500,000 to the farm gate value of this sector.

At the same time, marine aquaculture production - a new industry sector - rose by 90 per cent on the previous year's production.

Black tiger prawn production reached 345 tonnes, a significant improvement on the previous financial year while the hatchery sector remained stable.

Sydney rock oysters remain the backbone of our State's aquaculture industry and farm gate prices increased by nearly six per cent. Pacific oyster production also increased reaching nearly \$2 million for Port Stephens growers.

In a first for NSW, Angasi oysters were grown for commercial production with assistance from the State Government.

The future for NSW aquaculture continues to look positive with the Carr Government's support resulting in steady growth and increasing demand.

Ian Macdonald, MLC  
NSW Minister for  
Agriculture and Fisheries



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# Table 1 - Snapshot of Aquaculture Production for 2001/2002

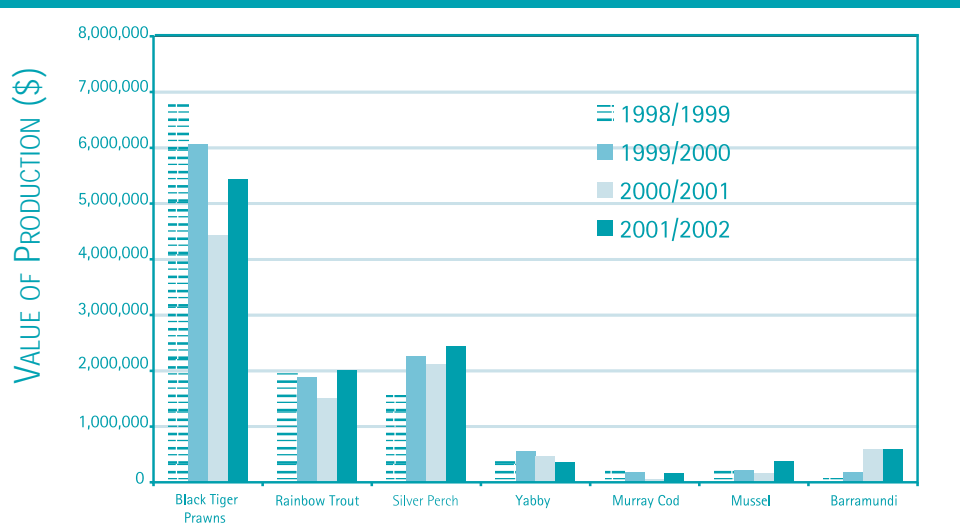
Grouping	Common Name	Scientific Name	No. Farms with Permits for this Species	No. Farms Producing this Species	Commercial Production Area (ha)	Production (kg)	Average Price per kg (\$)	Total (\$) Value
Crustaceans	black tiger prawn	<i>Penaeus monodon</i>	12	Na	127.7	345,633	15.74	5,440,435
	redclaw	<i>Cherax quadricarinatus</i>	24	Na	1.6	200	15.00	3,000
	yabby	<i>Cherax destructor</i>	152	30	82.01	31,564	11.53	363,965
Freshwater fish	brown trout	<i>Salmo trutta</i>	14	Na	0.5	200	10.00	2,000
	brook trout	<i>Salvelinus fontinalis</i>	10	Na	0.1	594	6.27	3,724
	golden perch	<i>Macquaria ambigua</i>	127	Na	8.70	1,124	14.60	16,415
	barramundi	<i>Lates calcarifer</i>	7	Na	0.59	54,881	10.73	588,723
	Murray cod	<i>Maccullochella peelii</i>	82	9	14.1	8,185	20.31	166,283
	rainbow trout	<i>Oncorhynchus mykiss</i>	42	16	8.68	250,394	8.04	2,013,983
	silver perch	<i>Bidyanus bidyanus</i>	148	51	88.22	278,140	8.80	2,450,304
Marine fish	eel-long finned	<i>Anguilla reinhardtii</i>	26	6	20.07	9,275	12.66	117,441
	mulloway	<i>Argyrosomus japonicus</i>	25	Na	0.1	500	9.00	4,500
	tube worm	<i>Diopatra dentata</i>	na	Na	0.1	37	54.05	2,000
	snapper	<i>Pagrus auratus</i>	13	Na	1.4	24,185	9.08	219,633
Sub total								11,392,406
Hatchery	Hatchery (species) (see hatchery production table)							2,382,349
Mollusc - oysters	Sydney rock oyster	<i>Saccostrea glomerata</i> (see oyster production tables)						29,585,931
	Pacific oyster	<i>Crassostrea gigas</i> (see oyster production tables)						1,952,273
Mollusc - other	Blue mussel	<i>Mytilus galloprovincialis</i>	na	Na	13.0	76,678	4.99	382,890
*Other								47,333
Total \$ Value								45,743,182

na = not available due to confidentiality eg fewer than 5 permits  
 \*Other = Due to confidentiality these figures are included under this category.  
 Species include Angasi Oyster *Ostrea angasi*, Pearl Oyster *Pinctada imbricata* and Eastern Freshwater cod *Maccullochella ikei*.  
 Note that the "Average price per kg (\$)" has been rounded to nearest cent.

# Table 2 - Fish, Crustacean and Mollusc Production 2001/2002

Grouping	Common Name	Scientific Name	No. Farms with Permits for this Species	No. Farms Producing this Species	Commercial Production Area (ha)	Production (kg)	Average Price per kg (\$)	Total (\$) Value
Crustaceans	black tiger prawn	<i>Penaeus monodon</i>	12	Na	127.7	345,633	15.74	5,440,435
	redclaw	<i>Cherax quadricarinatus</i>	24	Na	1.6	200	15.00	3,000
	yabby	<i>Cherax destructor</i>	152	30	82.01	31,564	11.53	363,965
Freshwater fish	brown trout	<i>Salmo trutta</i>	14	Na	0.5	200	10.00	2,000
	brook trout	<i>Salvelinus fontinalis</i>	10	Na	0.1	594	6.27	3,724
	golden perch	<i>Macquaria ambigua</i>	127	Na	8.70	1,124.1	14.60	16,415
	barramundi	<i>Lates calcarifer</i>	7	Na	0.59	54,881	10.73	588,723
	Murray cod	<i>Maccullochella peelii</i>	82	9	14.1	8,185	20.31	166,283
	rainbow trout	<i>Oncorhynchus</i>	42	16	8.68	250,394	8.04	2,013,983
	silver perch	<i>Bidyanus bidyanus</i>	148	51	88.22	278,140	8.80	2,450,304
Marine fish	eel-long finned	<i>Anguilla reinhardtii</i>	26	6	20.07	9275	12.66	117,441
	mulloway	<i>Argyrosomus japonicus</i>	25	Na	0.1	500	9.00	4,500
	tube worm	<i>Diopatra dentata</i>	na	Na	0.1	37	54.05	2,000
	snapper	<i>Pagrus auratus</i>	13	Na	1.4	24,185	9.08	219,633
Mollusc - other	Blue mussel	<i>Mytilus galloprovincialis</i>	na	Na	13.0	76,678	4.99	382,890
*Other								47,333
Total \$ Value								\$11,822,629

**Figure A - Comparative Graph: Non-oyster Aquaculture Production**



na = not available due to confidentiality eg fewer than 5 permits

\*Other = Due to confidentiality these figures are included under this category. Species include Angasi Oyster *Ostrea angasi*, Pearl Oyster *Pinctada imbricata* and Eastern Freshwater cod *Maccullochella ikei*.

Note that the "Average price per kg (\$)" has been rounded to the nearest cent.

# Table 3 - Commercial Hatchery Production 2001/2002

Grouping	Common Name	Scientific Name	No. of Permits	Hatcheries Producing	Product Description	Quantity	Average Price per unit (\$)	Total (\$) Value
Crustaceans	Freshwater shrimp	Macrobrachium sp.	na	na	Juveniles (per indiv)	100	0.70	70
	Yabby	Cherax destructor	na	na	Juveniles (per indiv)	224,260	0.12	27,190
Freshwater fish	Aquarium Species	(aquarium species)	7	na	Fish Fingerlings (per indiv)	25,250	0.40	10,100
	Australian bass	Macquaria novemaculeata	17		Fish Fingerlings (per indiv)	212,000	0.46	98,025
	brown trout	Salmo trutta	9	na	Fish Fingerlings (per indiv)	2,000	0.85	1,700
	eel tailed catfish	Tandanus tandanus	24	na	Fish Fingerlings (per indiv)	21,989	1.07	23,489
	golden perch	Macquaria ambigua	43	11	Fish Fingerlings (per indiv)	1,203,155	0.24	290,438
			na	na	Fish Fry (per indiv)	432	0.05	20
	goldfish	Carassius auratus	6	na	Fish Fingerlings (per indiv)	316,667	0.70	223,203
	koi carp	Cyprinus carpio	5	na	Fish Fingerlings (per indiv)	201,833	0.52	104,450
	Murray cod	Maccullochella peelii	24	10	Fish Fingerlings (per indiv)	592,457	0.55	327,997
			na	na	Fish Fry (per indiv)	280	0.10	28
	Pacific blue eye	Pseudomugil signifer	na	na	Fish Fingerlings (per indiv)	1000	0.72	715
	rainbow trout	Oncorhynchus mykiss	15	6	Fish Fingerlings (per indiv)	197,500	0.75	148,750
			na	na	Fish Fry (per indiv)	40,000	0.05	2,000
			na	na	Fish Eggs (per indiv)	6000	0.18	1,100
	silver perch	Bidyanus bidyanus	47	19	Fish Fingerlings (per indiv)	921,197	0.25	225,959
			na	Fish Fry (per indiv)	200	0.10	20	
Marine fish	mulloway	Argyrosomus japonicus	7	na	Fish Fingerlings (per indiv)	120,600	0.87	104,645
					Fish Eggs (per indiv)	15,000	0.22	3,300
	Sand whiting	Silligo cillitia	na	na	Fish Fingerlings (per indiv)	700	1.10	770
	silver bream	Acanthopagrus australis	na	na	Fish Fingerlings (per indiv)	700	1.19	830
	snapper	Pagrus auratus	4	na	Fish Fingerlings (per indiv)	1500	0.77	1,150
Molluscs	mussels (freshwater)	Velesunio ambiguus	na	na	Juveniles (per indiv)	5050	0.59	3,000
*Other					Juveniles (per indiv)			783,400
Total Value								\$2,382,349

\*Other = Due to confidentiality these figures are included under this category. Species include Angasi Oyster *Ostrea angasi*, Pearl Oyster *Pinctada imbricata*, Eastern Freshwater cod *Maccullochella ikei* and seahorses *Hippocampus procerus*. Note that the "Average Price per unit (\$)" has been rounded to the nearest cent.

# Table 4 - Sydney Rock Oyster Production - 1998/99, 1999/2000, 2000/01 and 2001/02 by Estuary

Estuary Name	Plate Grade (Dozens) 98/99	Plate Grade (Dozens) 99/00	Plate Grade (Dozens) 00/01	Plate Grade (Dozens) 01/02	Bistro Grade (Dozens) 98/99	Bistro Grade (Dozens) 99/00	Bistro Grade (Dozens) 00/01	Bistro Grade (Dozens) 01/02	Bottle Grade (Dozens) 98/99	Bottle Grade (Dozens) 99/00	Bottle Grade (Dozens) 00/01	Bottle Grade (Dozens) 01/02	Total Dozens 98/99	Total Dozens 99/00	Total Dozens 00/01	Total Dozens 01/02
Tweed River	27,800	22,800	17,700	25,757	26,290	35,090	10,200	18,390	2,860	8,092	8,450	4,683	56,950	65,982	36,350	48,830
Bellinger River	26,095	22,891	29,100	47,705	18,665	20,326	22,290	30,122	9,685	11,340	5,400	14,831	54,445	54,557	56,790	92,658
Nambucca River	50,764	55,266	45,998	41,195	60,740	43,909	44,698	36,010	28,732	29,671	22,636	25,527	140,236	128,846	113,332	102,732
Macleay River	32,341	7,936	14,019	21,503	48,474	15,680	28,966	45,351	55,034	42,431	78,425	106,081	135,849	66,047	121,410	172,935
Hastings River	23,316	33,696	36,163	52,513	76,700	69,376	51,869	80,317	60,462	130,534	142,022	208,771	160,478	233,606	230,054	341,601
Camden Haven	58,630	63,150	59,670	79,373	43,860	49,445	42,735	34,801	42,585	42,835	33,215	50,364	145,075	155,430	135,620	164,538
Manning River	87,980	86,850	49,300	69,200	30,640	51,920	32,775	66,993	50,655	70,070	42,470	48,774	169,275	208,840	124,545	184,967
Wallis Lake	701,350	737,000	820,300	538,850	453,308	593,010	687,330	649,499	653,380	1,030,860	1,203,050	1,110,244	1,808,038	2,360,870	2,710,680	2,298,593
Port Stephens	230,883	203,466	239,861	209,332	257,000	209,140	247,190	183,573	292,358	188,528	225,216	206,593	780,241	601,134	712,267	599,498
Hunter River	5,300	7,700	5,150	4,150	25,575	23,320	7,755	10,765	23,335	26,325	1,560	8,530	54,210	57,345	14,465	23,445
Brisb. Waters	397,414	271,784	252,884	163,920	237,322	209,579	220,506	140,622	324,877	389,961	391,336	280,719	959,613	871,324	864,726	585,261
Hawkesbury Rr	371,800	303,175	243,230	278,300	299,042	235,212	225,830	278,700	364,843	519,155	384,605	518,995	1,035,685	1,057,542	853,665	1,075,995
Shoalhaven Rr	24,464	11,887	19,916	11,353	14,860	13,772	22,384	9,235	1,840	4,845	20,992	14,885	41,164	30,504	63,292	35,473
Crookhaven Rr	44,766	41,402	23,652	28,170	51,515	48,487	13,614	18,464	78,064	55,650	52,694	53,550	174,345	145,539	89,960	100,184
Clyde River	183,372	115,050	114,942	119,019	219,221	215,120	219,238	209,899	325,878	209,915	432,043	387,636	728,471	540,085	766,223	716,554
Tuross Lake	51,600	44,600	30,600	6,909	47,045	54,285	42,290	25,560	50,440	70,655	44,395	27,959	149,085	169,540	117,285	60,428
Wagonga Inlet	65,600	36,850	23,000	19,950	145,035	60,820	90,200	94,478	104,715	143,845	148,265	136,359	315,350	241,515	261,465	250,787
Wapengo Lake	19,923	17,980	14,624	9,649	24,929	51,754	52,372	42,149	10,166	19,530	15,113	26,427	55,018	89,264	82,109	78,225
Nelson Lagoon	3,000	3,000	2,000	1,226	2,475	5,500	4,400	1,647	11,765	6,500	18,200	18,500	17,240	15,000	24,600	21,373
Merimbula Lake	162,204	175,365	114,464	128,086	50,712	77,861	54,297	54,133	27,915	55,384	26,109	38,909	240,831	308,610	194,870	221,128
Pambula River	57,475	35,525	33,418	31,328	39,820	31,801	43,338	38,809	32,735	35,837	49,817	51,373	130,030	103,163	126,573	121,510
Wonboyn River	75,229	43,550	18,084	4,199	8,305	15,724	7,665	4,682	16,835	12,480	4,030	3,000	100,369	71,754	29,779	11,881
*Others	91,370	72,463	24,555	21,219	159,981	106,609	60,260	37,747	176,885	143,885	48,745	55,688	428,236	322,957	133,560	114,654
<b>Totals</b>	<b>2,792,676</b>	<b>2,413,386</b>	<b>2,232,630</b>	<b>1,912,906</b>	<b>2,341,514</b>	<b>2,237,740</b>	<b>2,232,202</b>	<b>2,111,946</b>	<b>2,746,044</b>	<b>3,248,328</b>	<b>3,398,788</b>	<b>3,398,398</b>	<b>7,880,234</b>	<b>7,899,454</b>	<b>7,863,620</b>	<b>7,423,250</b>

\*Others not named for confidentiality include: Brunswick River, Richmond River, Clarence River, Woolli Woolli River, Patonga Creek, Botany Bay, Georges River, Conjola River, Wallaga Lake and Bermagui River.



# Table 5 - Sydney Rock Oyster Sales by Estuary and Production Method

Estuary Name	Maturing Method Description	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value (\$)	Total Prod'n (Bags)	Total Prod'n (Dozens)	Total Value (\$)
Tweed River	Baskets	0	0	0	14	1,485	6,311	7	936	2,705	21	2,421	9,016
	Long-line	0	0	0	2	165	701	1	104	301	2	269	1,002
	Tray	258	25,757	145,269	152	16,740	71,145	28	3,643	10,528	438	46,140	226,943
Estuary Total		258	25,757	145,269	167	18,390	78,158	36	4,683	13,534	461	48,830	236,961
Bellinger River	Raft/Pontoon	443	44,285	249,767	268	29,522	125,469	103	13,381	38,671	814	87,188	413,907
	Tray	34	3,420	19,289	5	600	2,550	11	1,450	4,191	51	5,470	26,029
Estuary Total		477	47,705	269,056	274	30,122	128,019	114	14,831	42,862	865	92,658	439,936
Nambucca River	Baskets	3	325	1,833	0	0	0	0	0	0	3	325	1,833
	Long-line	60	6,000	33,840	15	1,650	7,013	5	650	1,879	80	8,300	42,731
	Raft/Pontoon	311	31,073	175,252	264	29,076	123,573	146	19,005	54,924	721	79,154	353,749
	Tray	38	3,797	21,415	48	5,284	22,457	45	5,872	16,970	131	14,953	60,842
Estuary Total		412	41,195	232,340	327	36,010	153,043	196	25,527	73,773	936	102,732	459,155
Macleay River	Baskets	56	5,614	31,663	118	12,951	55,042	271	35,292	101,994	445	53,857	188,699
	Floating	10	1,000	5,640	2	245	1,041	0	0	0	12	1,245	6,681
	Raft/Pontoon	15	1,506	8,494	23	2,549	10,833	32	4,139	11,962	70	8,194	31,289
	Tray	134	13,383	75,480	269	29,606	125,826	513	66,650	192,619	916	109,639	393,924
Estuary Total		215	21,503	121,277	412	45,351	192,742	816	106,081	306,574	1,443	172,935	620,593
Hastings River	Baskets	8	785	4,427	5	557	2,367	246	31,928	92,272	259	33,270	99,067
	Floating	0	0	0	0	0	0	9	1,200	3,468	9	1,200	3,468
	Long-line	22	2,246	12,667	34	3,758	15,972	43	5,622	16,248	100	11,626	44,887
	Raft/Pontoon	124	12,408	69,981	198	21,776	92,548	401	52,157	150,734	723	86,341	313,263
	Stick	70	7,000	39,480	74	8,190	34,808	31	4,000	11,560	175	19,190	85,848
	Tray	301	30,074	169,617	419	46,036	195,653	876	113,864	329,067	1,595	189,974	694,337
Estuary Total		525	52,513	296,173	730	80,317	341,347	1,606	208,771	603,348	2,861	341,601	1,240,869
Camden Haven	Baskets	49	4,900	27,636	18	1,980	8,415	0	0	0	67	6,880	36,051
	Floating	3	290	1,636	15	1,600	6,800	73	9,520	27,513	91	11,410	35,948
	Long-line	2	200	1,128	2	220	935	0	0	0	4	420	2,063
	Raft/Pontoon	262	26,200	147,768	88	9,660	41,055	101	13,130	37,946	451	48,990	226,769
	Tray	478	47,783	269,496	194	21,341	90,699	213	27,714	80,093	885	96,838	440,289
Estuary Total		794	79,373	447,664	316	34,801	147,904	387	50,364	145,552	1,498	164,538	741,120
Manning River	Baskets	40	4,000	22,560	30	3,265	13,876	8	975	2,818	77	8,240	39,254
	Dredge	53	5,267	29,706	28	3,098	13,167	14	1,755	5,072	94	10,120	47,944
	Floating	60	6,000	33,840	10	1,100	4,675	35	4,550	13,150	105	11,650	51,665
	Long-line	55	5,500	31,020	51	5,610	23,843	39	5,070	14,652	145	16,180	69,515
	Raft/Pontoon	48	4,767	26,886	18	1,998	8,492	11	1,365	3,945	76	8,130	39,322
	Stick	2	200	1,128	5	600	2,550	1	130	376	8	930	4,054
	Tray	435	43,466	245,148	467	51,322	218,119	269	34,929	100,945	1,170	129,717	564,212
Estuary Total		692	69,200	390,288	609	66,993	284,720	375	48,774	140,957	1,676	184,967	815,965

# Table 5 continued: Sydney Rock Oyster Sales by Estuary and Production Method

Estuary Name	Maturing Method Description	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value (\$)	Total Prod'n (Bags)	Total Prod'n (Dozens)	Total Value (\$)
Wallis Lake	Stick	28	2,800	15,792	177	19,500	82,875	0	0	0	205	22,300	98,667
	Tray	5,361	536,050	3,023,322	5,727	629,999	2,677,496	8,540	1,110,244	3,208,605	19,628	2,276,293	8,909,423
Estuary Total		5,389	538,850	3,039,114	5,905	649,499	2,760,371	8,540	1,110,244	3,208,605	19,833	2,298,593	9,008,090
Port Stephens	Baskets	30	2,992	16,875	31	3,433	14,590	12	1,616	4,670	74	8,041	36,135
	Floating	0	0	0	8	880	3,740	0	0	0	8	880	3,740
	Stick	130	12,950	73,038	82	9,021	38,339	247	32,051	92,627	458	54,022	204,005
	Tray	1,934	193,390	1,090,720	1,548	170,239	723,516	1,330	172,926	499,756	4,812	536,555	2,313,991
Estuary Total		2,093	209,332	1,180,632	1,669	183,573	780,185	1,589	206,593	597,054	5,351	599,498	2,557,872
Hunter River	Baskets	0	0	0	0	0	0	2	250	723	2	250	723
	Tray	42	4,150	23,406	98	10,765	45,751	64	8,280	23,929	203	23,195	93,086
Estuary Total		42	4,150	23,406	98	10,765	45,751	66	8,530	24,652	205	23,445	93,809
Brisbane Waters	Baskets	44	4,370	24,647	27	2,951	12,542	21	2,757	7,968	92	10,078	45,156
	Floating	4	400	2,256	0	0	0	52	6,809	19,678	56	7,209	21,934
	Long-line	11	1,100	6,204	28	3,080	13,090	52	6,804	19,664	91	10,984	38,958
	Raft/Pontoon	18	1,750	9,870	12	1,300	5,525	0	0	0	29	3,050	15,395
	Stick	9	911	5,138	86	9,439	40,116	90	11,683	33,764	185	22,033	79,018
	Tray	1,554	155,389	876,394	1,126	123,852	526,371	1,944	252,666	730,205	4,623	531,907	2,132,970
Estuary Total		1,639	163,920	924,509	1,278	140,622	597,644	2,159	280,719	811,278	5,077	585,261	2,333,430
Hawkesbury River	Stick	75	7,500	42,300	95	10,500	44,625	100	13,000	37,570	270	31,000	124,495
	Tray	2,708	270,800	1,527,312	2,438	268,200	1,139,850	3,892	505,995	1,462,326	9,038	1,044,995	4,129,488
Estuary Total		2,783	278,300	1,569,612	2,534	278,700	1,184,475	3,992	518,995	1,499,896	9,309	1,075,995	4,253,983
Shoalhaven River	Baskets	2	162	914	1	58	247	0	0	0	2	220	1,160
	Floating	0	0	0	0	0	0	60	7,800	22,542	60	7,800	22,542
	Tray	112	11,191	63,117	83	9,177	39,002	55	7,085	20,476	250	27,453	122,595
Estuary Total		114	11,353	64,031	84	9,235	39,249	115	14,885	43,018	312	35,473	146,297
Crookhaven River	Baskets	25	2,500	14,100	6	690	2,933	54	6,955	20,100	85	10,145	37,132
	Floating	0	0	0	11	1,200	5,100	0	0	0	11	1,200	5,100
	Stick	22	2,200	12,408	46	5,005	21,271	178	23,200	67,048	246	30,405	100,727
	Tray	235	23,470	132,371	105	11,569	49,168	180	23,395	67,612	520	58,434	249,151
Estuary Total		282	28,170	158,879	168	18,464	78,472	412	53,550	154,760	861	100,184	392,110
Clyde River	Baskets	98	9,837	55,481	221	24,359	103,526	334	43,374	125,351	653	77,570	284,357
	Floating	15	1,501	8,466	12	1,315	5,589	13	1,667	4,818	40	4,483	18,872
	Raft/Pontoon	240	24,000	135,360	91	10,000	42,500	372	48,400	139,876	703	82,400	317,736
	Stick	76	7,621	42,982	208	22,842	97,079	492	63,969	184,870	776	94,432	324,931
	Tray	761	76,060	428,978	1,376	151,383	643,378	1,771	230,226	665,353	3,908	457,669	1,737,709
Estuary Total		1,190	119,019	671,267	1,908	209,899	892,071	2,982	387,636	1,120,268	6,080	716,554	2,683,606
Tuross Lake	Baskets	42	4,183	23,592	95	10,452	44,421	71	9,292	26,854	208	23,927	94,867
	Floating	1	110	620	5	573	2,435	18	2,326	6,722	24	3,009	9,778



# Table 5 continued: Sydney Rock Oyster Sales by Estuary and Production Method

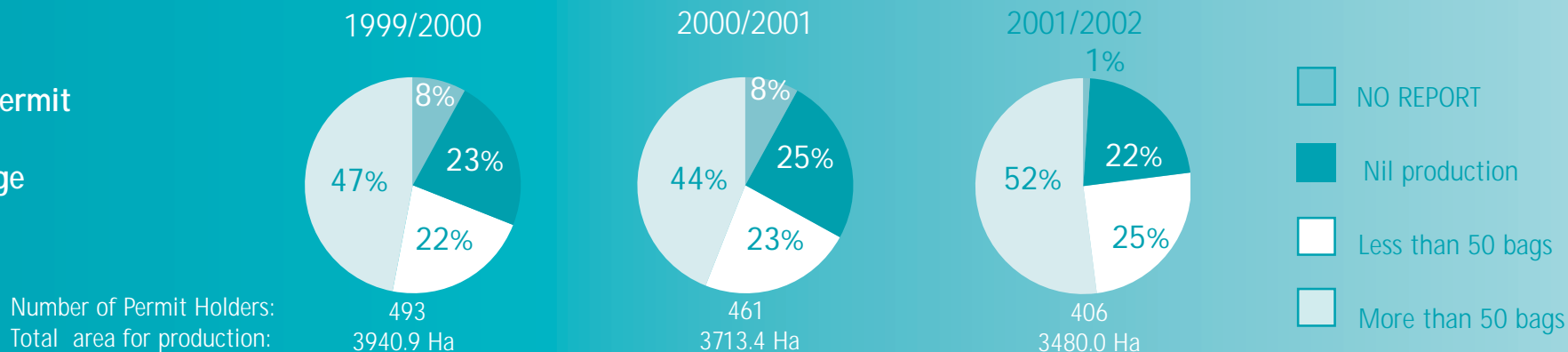
Estuary Name	Maturing Method Description	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value (\$)	Total Prod'n (Bags)	Total Prod'n (Dozens)	Total Value (\$)
Estuary Total Wagonga Inlet	Stick	6	583	3,288	23	2,560	10,880	31	3,983	11,511	60	7,126	25,679
	Tray	20	2,033	11,466	109	11,975	50,894	95	12,358	35,715	224	26,366	98,074
		69	6,909	38,967	232	25,560	108,630	215	27,959	80,802	517	60,428	228,398
	Baskets	10	1,000	5,640	66	7,250	30,813	4	500	1,445	80	8,750	37,898
	Floating	0	0	0	32	3,562	15,139	2	292	844	35	3,854	15,982
Estuary Total Wapengo Lake	Stick	27	2,700	15,228	0	0	0	0	0	0	27	2,700	15,228
	Tray	163	16,250	91,650	761	83,666	355,581	1,043	135,567	391,789	1,966	235,483	839,019
		200	19,950	112,518	859	94,478	401,532	1,049	136,359	394,078	2,107	250,787	908,127
	Baskets	1	125	705	18	1,925	8,181	0	0	0	19	2,050	8,886
	Stick	41	4,131	23,299	88	9,651	41,017	23	3,042	8,791	152	16,824	73,107
Estuary Total Nelson Lagoon	Tray	54	5,393	30,417	278	30,573	129,935	180	23,385	67,583	512	59,351	227,934
		96	9,649	54,420	383	42,149	179,133	203	26,427	76,374	683	78,225	309,928
	Long-line	9	926	5,223	12	1,347	5,725	92	12,000	34,680	114	14,273	45,627
Estuary Total Merimbula Lake	Tray	3	300	1,692	3	300	1,275	50	6,500	18,785	56	7,100	21,752
		12	1,226	6,915	15	1,647	7,000	142	18,500	53,465	170	21,373	67,379
Estuary Total Pambula River	Stick	276	27,600	155,664	0	0	0	0	0	0	276	27,600	155,664
	Tray	1,005	100,486	566,741	492	54,133	230,065	299	38,909	112,447	1,796	193,528	909,253
Estuary Total Wonboyn River		1,281	128,086	722,405	492	54,133	230,065	299	38,909	112,447	2,072	221,128	1,064,917
	Baskets	2	200	1,128	2	200	850	0	0	0	4	400	1,978
	Stick	0	0	0	3	330	1,403	0	0	0	3	330	1,403
Estuary Total *Other Estuaries	Tray	311	31,128	175,562	348	38,279	162,686	395	51,373	148,468	1,054	120,780	486,716
		313	31,328	176,690	353	38,809	164,938	395	51,373	148,468	1,061	121,510	490,096
	Baskets	6	600	3,384	3	360	1,530	0	0	0	9	960	4,914
	Long-line	8	795	4,484	4	421	1,789	0	0	0	12	1,216	6,273
	Stick	4	444	2,504	6	670	2,848	6	760	2,196	16	1,874	7,548
Estuary Total	Tray	24	2,360	13,310	29	3,231	13,732	17	2,240	6,474	70	7,831	33,516
		42	4,199	23,682	43	4,682	19,899	23	3,000	8,670	108	11,881	52,251
	Tray	173	17,324	97,707	162	17,830	75,778	229	29,777	86,056	564	64,931	259,540
	Floating	5	500	2,820	23	2,500	10,625	15	2,000	5,780	43	5,000	19,225
	Long-line	33	3,320	18,725	57	6,301	26,779	34	4,444	12,843	125	14,065	58,347
Estuary Total	Baskets	0	0	0	49	5,359	22,776	56	7,269	21,007	105	12,628	43,783
	Raft/Pontoon	0	0	0	51	5,619	23,881	91	11,874	34,316	142	17,493	58,197
	Stick	1	75	423	1	138	587	2	324	936	4	537	1,946
		212	21,219	119,675	343	37,747	160,425	428	55,688	160,938	984	114,654	441,038
Total	All Methods	19,129	1,912,906	10,788,790	19,200	2,111,946	8,975,771	26,142	3,398,398	9,821,370	64,470	7,423,250	29,585,931

\*Other Estuaries not named for confidentiality include: Brunswick River, Richmond River, Clarence River, Wooli Wooli River, Patonga Creek, Botany Bay, Georges River, Conjola River, Wallaga Lake and Bermagui River.

## Table 6 - Sydney Rock Oyster Sales by Market

Market Description	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle/Cocktail Grade (Bags)	Bottle/Cocktail Grade (Doz)	Value (\$)	Total Prodn (Dozens)	Total Prodn	Total Value (\$)
Export	0	0	0	55	6,000	25,500	0	0	0	55	6,000	25,500
Interstate	4,045	404,538	2,281,594	3,452	379,669	1,613,593	6,493	844,073	2,439,371	13,990	1,628,280	6,334,559
Local	4,013	401,305	2,263,360	5,293	582,181	2,474,269	5,716	743,057	2,147,435	15,021	1,726,543	6,885,064
NSW (Other than Sydney)	1,360	135,970	766,871	2,031	223,456	949,688	2,933	381,326	1,102,032	6,324	740,752	2,818,591
Sydney	9,711	971,093	5,476,965	8,369	920,640	3,912,720	11,000	1,429,942	4,132,532	29,080	3,321,675	13,522,217
Totals	19,129	1,912,906	10,788,790	19,200	2,111,946	8,975,771	26,142	3,398,398	9,821,370	64,470	7,423,250	29,585,931

### Figure B - Percentage of Permit Holders by Production Range



## Table 7 - Sydney Rock Oyster Sales by Production Method

Type of Cultivation	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle/Cocktail Grade (Bags)	Bottle/Cocktail Grade (Doz)	Value (\$)	Total Prodn (Bags)	Total Prodn (Dozens)	Total Value (\$)
Baskets	416	41,593	234,585	703	77,275	328,419	1,086	141,144	407,906	2,204	260,012	970,909
Dredge	53	5,267	29,706	28	3,098	13,167	14	1,755	5,072	94	10,120	47,944
Floating	98	9,801	55,278	118	12,975	55,144	278	36,164	104,514	494	58,940	214,935
Long-line	201	20,087	113,291	205	22,552	95,846	267	34,694	100,266	673	77,333	309,402
Raft/Pontoon	1,460	145,989	823,378	1,014	111,500	473,875	1,257	163,451	472,373	3,731	420,940	1,769,626
Stick	767	76,715	432,673	895	98,446	418,396	1,201	156,142	451,250	2,863	331,303	1,302,318
Tray	16,135	1,613,454	9,099,881	16,237	1,786,100	7,590,925	22,039	2,865,048	8,279,989	54,411	6,264,602	24,970,794
Total	19,129	1,912,906	10,788,790	19,200	2,111,946	8,975,771	26,142	3,398,398	9,821,370	64,470	7,423,250	29,585,931

## Table 8 - Sydney Rock Oyster Sales by Permit Holders

Production Range	0 Bags No Prodn Report Returned	0 Bags (Nilprod)	<=25 Bags	>25 and <=50 Bags	>50 and <=100 Bags	>100 and <=150 Bags	>150 and <=250 Bags	>250 and <=500 Bags	>500 and <=1000 Bags	>1000 Bags	Totals
Percentage of Permit Holders	1	22	14(19)	10(13)	17(22)	9(12)	11(14)	8(11)	4(6)	2(3)	100
Number of Permit Holders	3	89	61	42	70	36	44	35	18	8	406
Quantity Produced(bags)	0	0	711	1,556	4,989	4,598	8,655	12,005	11,249	20,706	64,470
Quantity Produced (dozens)	0	0	80,093	176,984	573,092	532,203	1,000,786	1,384,051	1,275,231	2,400,810	7,423,250
Percentage of production	0	0	1.1	2.4	7.7	7.1	13.4	18.6	17.4	32.1	100
\$ Value	0	0	335,416	724,788	2,288,558	2,085,610	3,949,742	5,500,300	5,286,035	9,415,482	29,585,931

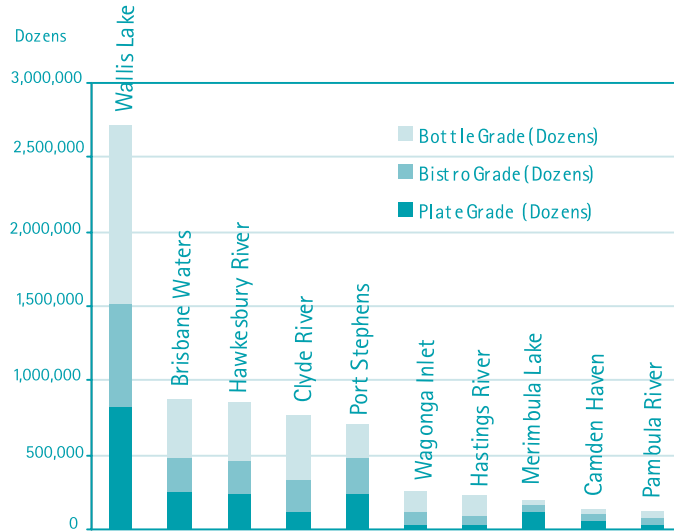
## Table 9 - Sydney Rock Oysters Sales by Estuary

From Estuary	Plate Grade (Bags)	Plate Grade (Dozens)	Value (\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value (\$)	Bottle/Cocktail Grade (Bags)	Bottle/Cocktail Grade (Dozens)	Value (\$)	Total Prod'n (Bags)	Total Prod'n (Dozens)	Total Value (\$)
Tweed River	258	25,757	145,269	167	18,390	78,158	36	4,683	13,534	461	48,830	236,961
Bellinger River	477	47,705	269,056	274	30,122	128,019	114	14,831	42,862	865	92,658	439,936
Nambucca River	412	41,195	232,340	327	36,010	153,043	196	25,527	73,773	936	102,732	459,155
Macleay River	215	21,503	121,277	412	45,351	192,742	816	106,081	306,574	1,443	172,935	620,593
Hastings River	525	52,513	296,173	730	80,317	341,347	1,606	208,771	603,348	2,861	341,601	1,240,869
Camden Haven	794	79,373	447,664	316	34,801	147,904	387	50,364	145,552	1,498	164,538	741,120
Manning River	692	69,200	390,288	609	66,993	284,720	375	48,774	140,957	1,676	184,967	815,965
Wallis Lake	5,389	538,850	3,039,114	5,905	649,499	2,760,371	8,540	1,110,244	3,208,605	19,833	2,298,593	9,008,090
Port Stephens	2,093	209,332	1,180,632	1,669	183,573	780,185	1,589	206,593	597,054	5,351	599,498	2,557,872
Hunter River	42	4,150	23,406	98	10,765	45,751	66	8,530	24,652	205	23,445	93,809
Brisbane Waters	1,639	163,920	924,509	1,278	140,622	597,644	2,159	280,719	811,278	5,077	585,261	2,333,430
Hawkesbury River	2,783	278,300	1,569,612	2,534	278,700	1,184,475	3,992	518,995	1,499,896	9,309	1,075,995	4,253,983
Shoalhaven River	114	11,353	64,031	84	9,235	39,249	115	14,885	43,018	312	35,473	146,297
Crookhaven River	282	28,170	158,879	168	18,464	78,472	412	53,550	154,760	861	100,184	392,110
Clyde River	1,190	119,019	671,267	1,908	209,899	892,071	2,982	387,636	1,120,268	6,080	716,554	2,683,606
Tuross Lake	69	6,909	38,967	232	25,560	108,630	215	27,959	80,802	517	60,428	228,398
Wagonga Inlet	200	19,950	112,518	859	94,478	401,532	1,049	136,359	394,078	2,107	250,787	908,127
Wapengo Lake	96	9,649	54,420	383	42,149	179,133	203	26,427	76,374	683	78,225	309,928
Nelson Lagoon	12	1,226	6,915	15	1,647	7,000	142	18,500	53,465	170	21,373	67,379
Merimbula Lake	1,281	128,086	722,405	492	54,133	230,065	299	38,909	112,447	2,072	221,128	1,064,917
Pambula River	313	31,328	176,690	353	38,809	164,938	395	51,373	148,468	1,061	121,510	490,096
Wonboyn River	42	4,199	23,682	43	4,682	19,899	23	3,000	8,670	108	11,881	52,251
Others	212	21,219	119,675	343	37,747	160,425	428	55,688	160,938	984	114,654	441,038
<b>Total</b>	<b>19,129</b>	<b>1,912,906</b>	<b>10,788,790</b>	<b>19,200</b>	<b>2,111,946</b>	<b>8,975,771</b>	<b>26,142</b>	<b>3,398,398</b>	<b>9,821,370</b>	<b>64,470</b>	<b>7,423,250</b>	<b>29,585,931</b>

# Figure C - Comparative Graphs - Sydney Rock Oyster (SRO) Production

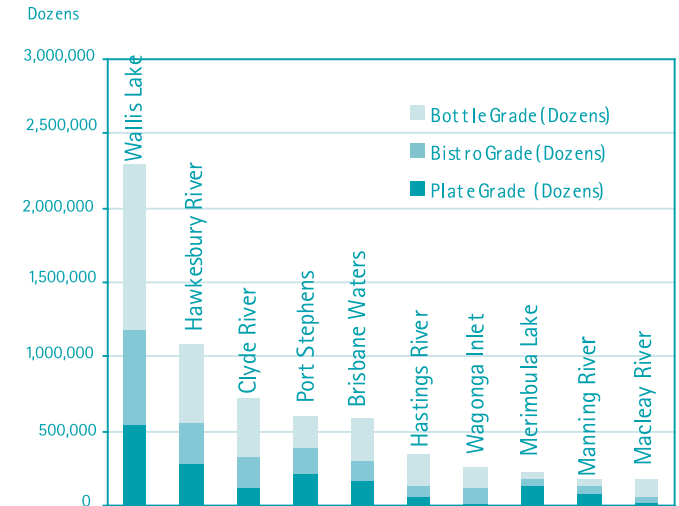
## Figure 1

The ten most productive estuaries for the cultivation and sale of SRO in 2000/2001



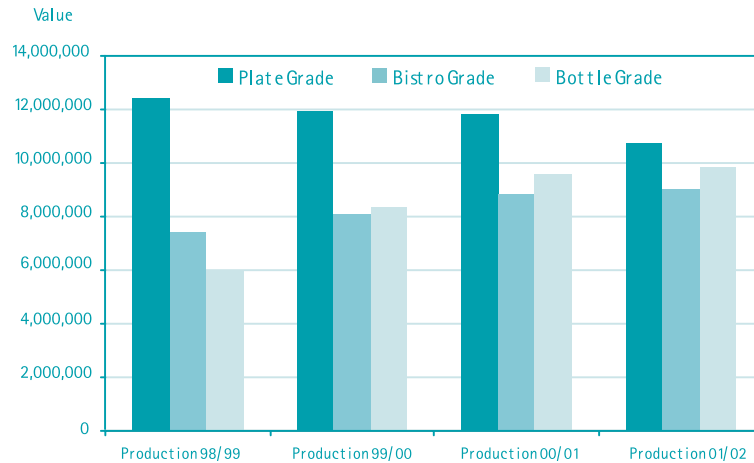
## Figure 2

The ten most productive estuaries for the cultivation and sale of SRO in 2001/2002



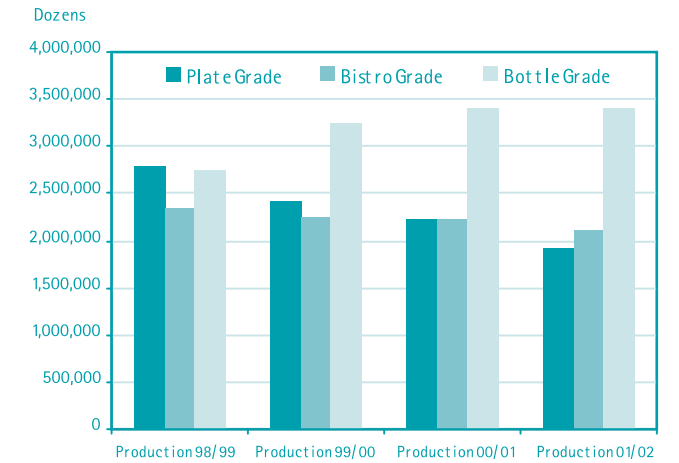
## Figure 3

The value of plate, bistro and bottle grade SRO production in 1998/99, 1999/2000 and 2000/2001 compared to 2001/2002



## Figure 4

The quantity of plate, bistro and bottle/cocktail grade SRO production in 1998/99, 1999/2000 and 2000/2001 compared to 2001/2002



## Table 10 - Pacific Oyster Sales from Port Stephens

	Grade 1 Select & Prime (Bags)	Grade 1 Select & Prime (Dozens)	Value (\$)	Grade 2 Bistro (Bags)	Grade 2 Bistro (Dozens)	Value (\$)	Grade 3 (Bags)	Grade 3 (Dozens)	Value (\$)	Total Bags	Total Dozens	Total Value (\$)
Total	2,552	193,953	1,018,253	1,229	147,467	617,887	687	102,975	316,133	4,467	444,395	1,952,273

## Table 11 - Pacific Oyster Sales by Production Methods

Type of Cultivation	Grade 1 Select & Prime (Bags)	Grade 1 Select & Prime (Dozens)	Value (\$)	Grade 2 Bistro (Bags)	Grade 2 Bistro (Dozens)	Value (\$)	Grade 3 (Bags)	Grade 3 (Dozens)	Value (\$)	Total Bags	Total Dozens	Total Value (\$)
Baskets	456	34,622	181,766	241	28,933	121,229	172	25,825	79,283	869	89,380	382,278
Long-line	327	24,833	130,373	199	23,868	100,007	71	10,709	32,877	597	59,410	263,257
Raft/Pontoon	92	7,000	36,750	0	0	0	0	0	0	92	7,000	36,750
Stick	9	656	3,444	12	1,415	5,929	10	1,500	4,605	30	3,571	13,978
Tray	1,669	126,842	665,921	777	93,251	390,722	433	64,941	199,369	2,879	285,034	1,256,011
Total	2,552	193,953	1,018,253	1,229	147,467	617,887	687	102,975	316,133	4,467	444,395	1,952,273

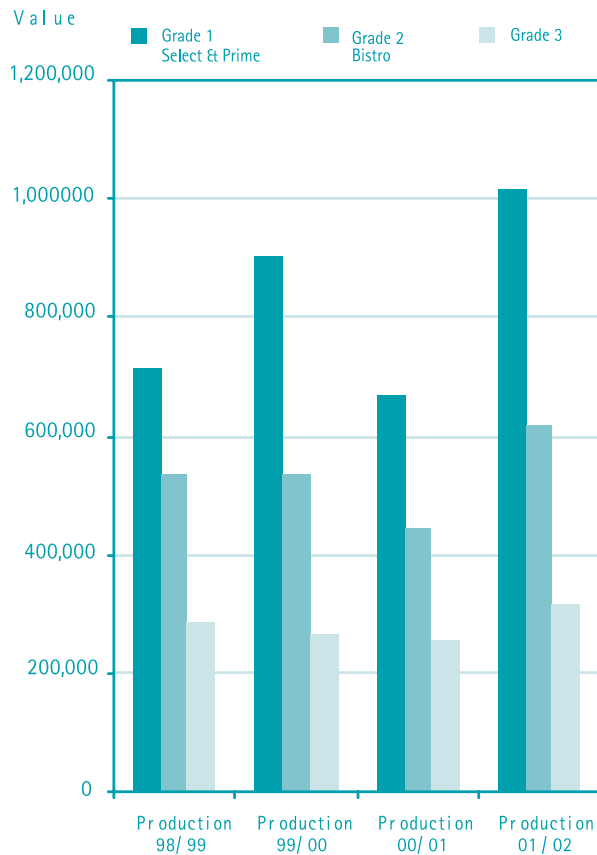
## Table 12 - Pacific Oyster Sales by Market

Market Description	Grade 1 Select & Prime (Bags)	Grade 1 Select & Prime (Dozens)	Value (\$)	Grade 2 Bistro (Bags)	Grade 2 Bistro (Dozens)	Value (\$)	Grade 3 (Bags)	Grade 3 (Dozens)	Value (\$)	Total Bags	Total Dozens	Total Value (\$)
Interstate	637	48,410	254,153	680	81,617	341,975	395	59,177	181,673	1,712	189,204	777,801
Local	633	48,098	252,515	153	18,382	77,021	120	17,968	55,162	906	84,448	384,697
NSW (Other than Sydney)	314	23,834	125,129	126	15,108	63,303	72	10,749	32,999	511	49,691	221,430
Sydney	969	73,611	386,458	270	32,360	135,588	101	15,081	46,299	1,339	121,052	568,345
Total	2,552	193,953	1,018,253	1,229	147,467	617,887	687	102,975	316,133	4,467	444,395	1,952,273

# Figure D - Comparative Graphs - Pacific Oyster Production

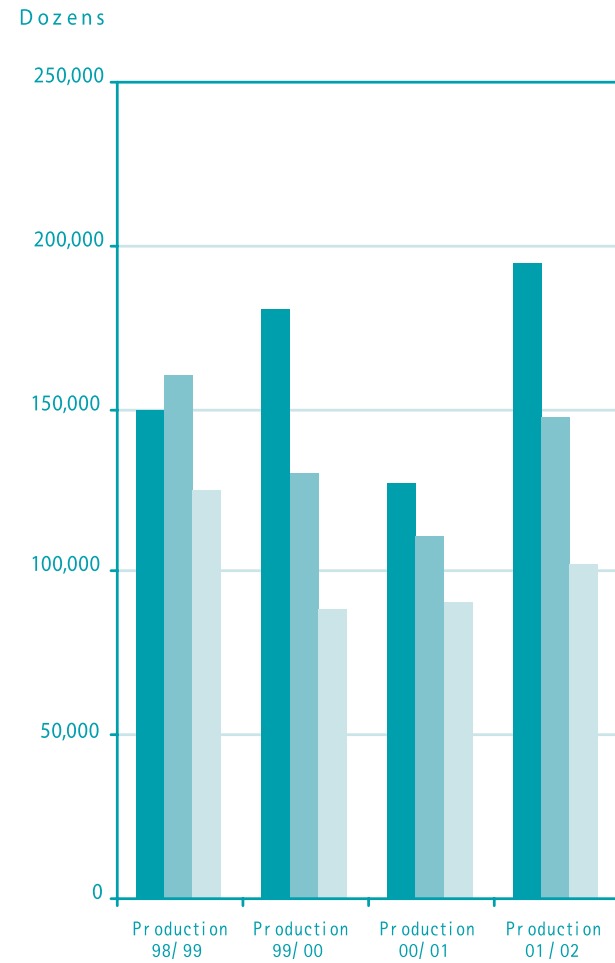
## Figure 1

The value of Grade 1, Grade 2 and Grade 3 Pacific oyster production in 1998/1999, 1999/2000, 2000/2001 compared to 2001/2002.



## Figure 2

The quantity of Grade 1, Grade 2 and Grade 3 Pacific oyster production in 1998/1999, 1999/2000, 2000/2001 compared to 2001/2002.





# Oyster

## Price and Weight Conversions

For the purposes of this report the following estimates have been developed on advice from permit holders and market sources.

### Sydney Rock Oysters

1 bag of Plate Grade Oysters =  
100 dozen @ a Farm Gate Price of \$564.00 per bag.

1 bag of Bistro Grade Oysters =  
110 dozen @ a Farm Gate Price of \$467.50 per bag.

1 bag of Bottle/Cocktail Grade Oysters =  
130 dozen @ a Farm Gate Price of \$375.70 per bag.

### Pacific Oysters

1 bag of Grade 1 (Select and Prime) Pacific Oysters =  
76 dozen @ a Farm Gate Price of \$399.00 per bag.

1 bag of Grade 2 (Bistro) Pacific Oysters =  
120 dozen @ a Farm Gate Price of \$502.80 per bag.

1 bag of Grade 3 (Mini) Pacific Oysters =  
150 dozens @ a Farm Gate Price of \$460.50 per bag.

### Weight Conversion

An approximate conversion to production by weight for Sydney rock oysters can be made at the rate of 14 bags to the tonne.

