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Aquaculture Production



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Title: Aquaculture production report 2008–2009

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Published by Industry & Investment NSW

ISSN 1444-840

Acknowledgements

Project Manager: Sheree Wiseman, Aquaculture Unit, Port Stephens Fisheries Institute

Data: Joyce Paterson, Jenny Batterham, Janine Sakker, Raelene Trenaman, Ryan Jefferson

Tables & Graphs: Sheree Wiseman, Janine Sakker, Raelene Treneman

Disclaimer

Information presented in this publication is presented as a general representation of aquaculture production in NSW for the reporting period 1 July 2008 to 30 June 2009. All care has been taken to ensure the information is correct at the time of publication. Industry & Investment NSW does not guarantee the accuracy of the information provided by the permit holders.

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File reference: BN10/163

Minister's message

It is my great pleasure to present the NSW Government's Aquaculture Production Report for 2008-2009.

The NSW aquaculture sector has established a reputation as a major contributor of high quality seafood product to NSW. The industry provides employment opportunities and contributes significant and sustainable benefits to the local and regional communities of NSW.

Total aquaculture production in NSW increased in value in 2008-2009, to \$53.1 million, representing a 3% rise from the previous year. The value of the Sydney rock oyster industry rose to \$37.2 million and retained its place as our most valuable aquaculture sector.

Hawkesbury River triploid (sterile hatchery-bred) Pacific oyster production increased in value to \$2 million. This was up \$0.9 million, or 116%, from the previous year and importantly indicates an estuary in recovery after the devastating QX oyster disease outbreak of 2005.

Our land based fish farming sector continued to struggle due to the effects of the ongoing drought. Despite this, production figures remain comparable to the previous year. For example, Mulloway increased in value 111% to \$149,000, while the commercial hatchery sector increased in value by \$83,724 (4%).

The NSW Aquaculture Land Based Strategy was gazetted in December 2009 and streamlines the approvals process for investors, ensuring that aquaculture enterprises in NSW are established and operated in a sustainable manner.

I thank all aquaculture farm operators who contributed to this report, as their ongoing cooperation remains invaluable.

I look forward to watching the NSW aquaculture industry continue to thrive in future.



A handwritten signature in black ink that reads "Steve Whan".

Steve Whan MLC
NSW Minister for Primary Industries

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Table 1: Snapshot of Aquaculture Production for 2008/2009

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	N/a	113.49	164,108	\$13.89	\$2,279,654
	yabby	<i>Cherax destructor</i>	87	22	58.79**	4,138	\$17.77	\$73,514
	yabby (bait)	<i>Cherax destructor</i>						\$102,346
Freshwater fish	barramundi	<i>Lates calcarifer</i>	7	N/a	0.46	111,000	\$10.86	\$1,303,750
	eel-long finned	<i>Anguilla reinhardtii</i>	17	N/a	0.70	3,600	\$8.61	\$31,000
	golden perch	<i>Macquaria ambigua</i>	76	N/a	0.90	212	\$21.97	\$4,658
	Murray cod	<i>Maccullochella peelii</i>	44	N/a	4.20	7,725	\$18.32	\$141,505
	rainbow trout	<i>Oncorhynchus mykiss</i>	27	N/a	8.25	143,514	\$10.70	\$1,536,252
	silver perch	<i>Bidyanus bidyanus</i>	96	22	42.36	179,618	\$10.41	\$1,870,174
	mulloway	<i>Argyrosomus japonicus</i>	22	N/a	6.50	31,350	\$4.75	\$149,000
Sub total								\$7,491,853
Hatchery	Hatchery (species)	(see hatchery production table)						\$2,357,462
Mollusc - oysters	Sydney rock oyster	<i>Saccostrea glomerata</i> (see oyster production tables)						\$37,217,054
	Pacific oyster	<i>Crassostrea gigas</i> (see oyster production tables)						\$1,264,230
	Triploid Pacific oyster	<i>Crassostrea gigas</i> (see oyster production tables)						\$2,032,715
	flat oysters	<i>Ostrea angasi</i>						\$159,304
	oyster spat	(see oyster production tables)						\$1,974,154
*Other								\$622,246
Total \$ Value								\$53,119,018

N/a = not available due to confidentiality e.g. fewer than five producers.

*Other = Due to confidentiality these figures are included under this category. Species include, tube worm (*Diopatra aciculate*), blue mussel (*Mytilus galloprovincialis*) & pearl oyster (*Pinctada imbricate*).

**Includes Commercial Production Area Class E (multi site) aquaculture permits.

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

Table 2: Fish, Crustacean and Mollusc Production 2008/2009

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	N/a	113.49	164,108	\$13.89	\$2,279,654
	yabby	<i>Cherax destructor</i>	87	22	58.79*	4,138	\$17.77	\$73,514
	yabby (bait)	<i>Cherax destructor</i>						\$102,346
Freshwater fish	barramundi	<i>Lates calcarifer</i>	7	N/a	0.46	111,000	\$10.86	\$1,303,750
	eel-long finned	<i>Anguilla reinhardtii</i>	17	N/a	0.70	3,600	\$8.61	\$31,000
	golden perch	<i>Macquaria ambigua</i>	76	N/a	0.90	212	\$21.97	\$4,658
	Murray cod	<i>Maccullochella peelii</i>	44	N/a	4.20	7,725	\$18.32	\$141,505
	rainbow trout	<i>Oncorhynchus mykiss</i>	27	N/a	8.25	143,514	\$10.70	\$1,536,252
	silver perch	<i>Bidyanus bidyanus</i>	96	22	42.36	179,618	\$10.41	\$1,870,174
Marine fish	mulloway	<i>Argyrosomus japonicus</i>	22	N/a	6.50	31,350	\$4.75	\$149,000
Total \$ Value								\$7,491,853

N/a = not available due to confidentiality e.g. fewer than five producers.

*Includes Commercial Production Area Class E (multi site) aquaculture permits.

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

Table 3: Commercial Hatchery Production 2008/2009

Grouping	Common Name	Scientific Name	Number of Permits	Hatcheries Producing	Product Description	Quantity	Average Price per Unit (\$)	Total Value (\$)
Crustaceans	black tiger prawn	<i>Penaeus monodon</i>	7	N/a	Larvae	5,322,000	\$0.02	\$85,052
Freshwater fish	aquarium species	Various species	6	5	Juveniles	**	**	\$277,030
	Australian bass	<i>Macquaria novemaculeata</i>	15	N/a	Juveniles	319,640	\$0.68	\$218,782
					Larvae	1,000	\$0.38	\$380
	eel tailed catfish	<i>Tandanus tandanus</i>	19	N/a	Juveniles	34,958	\$1.55	\$54,334
	golden perch	<i>Macquaria ambigua</i>	34	8	Juveniles	1,590,970	\$0.26	\$408,603
	goldfish	<i>Carassius auratus</i>	8	6	Juveniles	99,668	\$0.73	\$72,401
	koi carp	<i>Cyprinus carpio</i>	9	7	Juveniles	198,483	\$1.05	\$208,011
	Murray cod	<i>Maccullochella peelii</i>	18	6	Juveniles	1,194,438	\$0.54	\$644,103
					Larvae	200,000	\$0.20	\$39,000
	rainbow trout	<i>Oncorhynchus mykiss</i>	11	N/a	Juveniles	58,149	\$0.86	\$50,191
					Eggs	1,000	\$0.22	\$220
	silver perch	<i>Bidyanus bidyanus</i>	36	11	Juveniles	789,121	\$0.32	\$253,211
					Larvae	200,000	\$0.01	\$2,000
Marine fish	mulloway	<i>Argyrosomus japonicus</i>	11	N/a	Juveniles	16,600	\$1.27	\$21,100
*Other								\$23,044
Total Value								\$2,357,462

N/a = not available due to confidentiality e.g. fewer than five producers.

*Other = Due to confidentiality these figures are included under this category. Species include sand whiting (*Sillago ciliata*), Sydney rock oyster (*Saccostrea glomerata*) & Pacific oyster (*Crassostrea gigas*).

** Quantity and average price not recorded due to the range of species.

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

Figure A: Comparative Graph of Non-Oyster Aquaculture Production

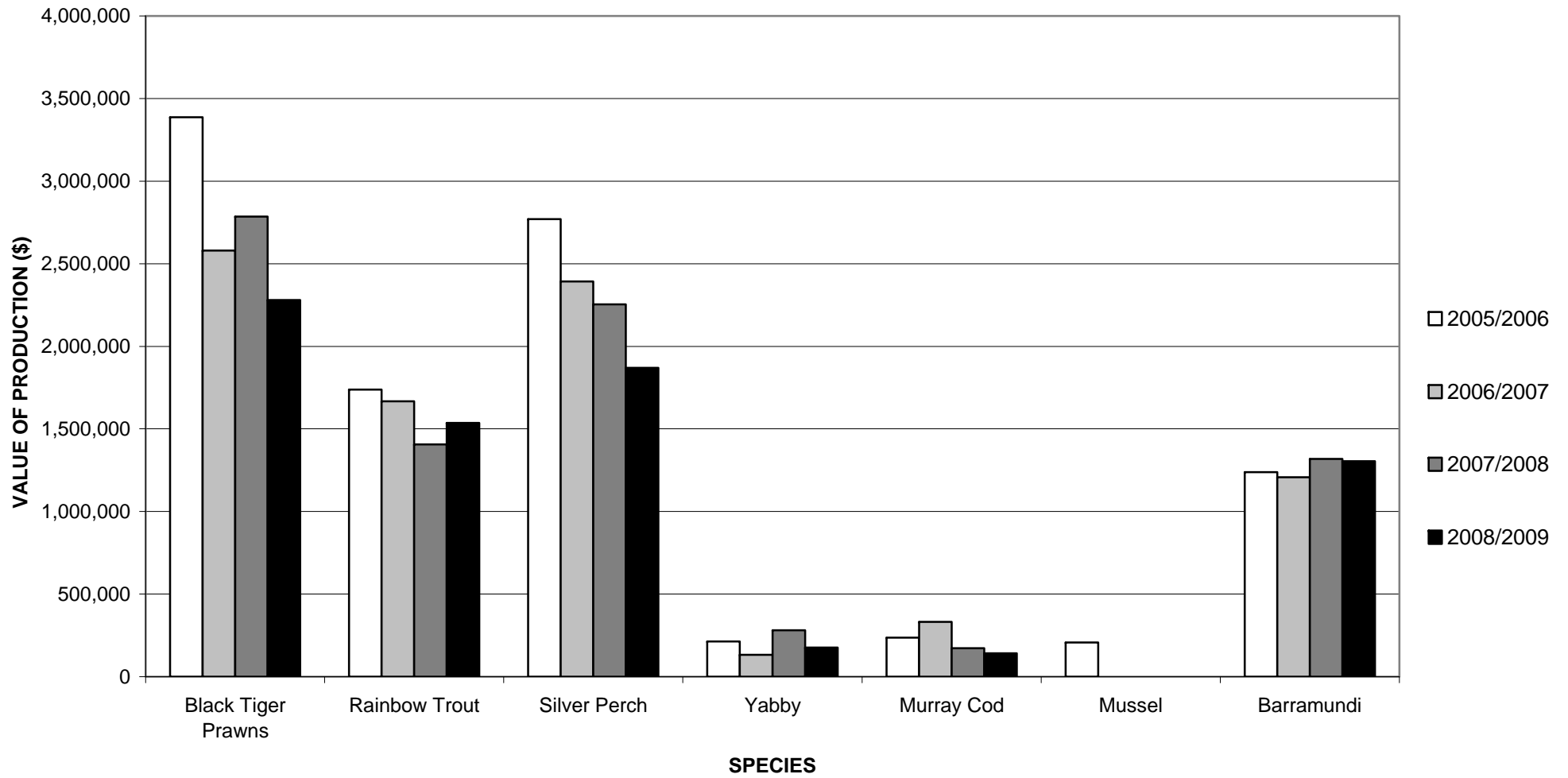


Table 4: Sydney Rock Oyster Production – 2005/2006, 2006/2007, 2007/2008 and 2008/2009 by Estuary

Estuary	Plate Grade Dozens				Bistro Grade Dozens				Bottle Grade Dozens				Total Dozens			
	05/06	06/07	07/08	08/09	05/06	06/07	07/08	08/09	05/06	06/07	07/08	08/09	05/06	06/07	07/08	08/09
Nambucca River	44,582	30,823	32,181	35,035	44,075	59,362	44,137	38,542	19,235	17,161	34,789	17,996	107,892	107,346	111,107	91,573
Macleay River	39,342	5,271	4,982	2,593	58,614	10,940	12,762	10,329	78,467	28,116	47,020	27,751	176,423	44,327	64,764	40,673
Hastings River	65,248	66,552	32,253	26,745	97,224	95,509	75,111	54,985	135,296	148,339	119,559	184,767	297,768	310,400	226,923	266,497
Camden Haven	110,511	88,608	78,450	94,944	71,667	77,415	51,615	32,636	129,995	145,530	86,030	34,000	312,173	311,553	216,095	161,580
Manning River	80,873	80,971	23,911	54,301	79,605	52,557	20,246	45,591	172,607	130,409	26,666	26,038	333,085	263,937	70,823	125,930
Wallis Lake	403,249	455,384	520,523	445,703	583,373	726,249	815,855	557,701	1,026,736	1,138,780	1,328,837	1,770,438	2,013,358	2,320,413	2,665,215	2,773,842
Port Stephens	248,028	292,611	272,974	250,586	196,873	200,773	225,323	189,997	271,708	189,167	108,610	159,657	716,609	682,551	606,907	600,240
Brisbane Water	108,261	43,000	34,765	21,750	122,770	61,377	74,104	60,610	260,593	167,998	143,295	103,770	491,624	272,375	252,164	186,130
Hawkesbury River	300	2,000	N/a	2,900	440	3,400	N/a	2,175	4,710	5,100	5,500	300	5,450	10,500	5,500	5,375
Shoalhaven River	12,224	18,814	13,976	15,689	13,717	14,320	15,364	7,864	8,842	15,541	10,423	20,982	34,783	48,675	39,763	44,535
Crookhaven River	34,968	36,472	35,012	25,269	40,799	34,430	35,480	36,474	54,757	51,732	56,942	59,185	130,524	122,634	127,434	120,928
Clyde River	203,277	152,254	137,818	183,301	270,543	210,894	238,164	290,144	426,335	407,189	374,212	408,970	900,155	770,337	750,194	882,415
Tuross Lake	12,688	27,250	23,130	15,005	28,780	30,090	33,414	24,645	30,400	22,875	26,409	16,225	71,868	80,215	82,953	55,875
Wagonga Inlet	29,628	32,200	42,176	42,489	83,551	114,027	104,917	79,399	143,509	171,172	82,965	212,371	256,688	317,399	230,058	334,259
Wapengo Lake	14,812	11,555	12,656	10,264	48,280	35,055	40,696	28,470	24,370	22,695	32,608	19,305	87,462	69,305	85,960	58,039
Merimbula Lake	62,495	116,760	76,852	85,387	63,611	74,407	47,927	48,150	73,801	59,994	126,916	46,068	199,907	251,161	251,695	179,605
Pambula River	27,600	40,467	40,472	42,065	50,117	63,943	50,038	44,727	87,082	92,484	90,416	111,334	164,799	196,894	180,926	198,126
Wonboyn River	24,356	26,408	35,876	35,517	17,067	21,715	17,427	24,841	3,617	7,729	9,485	23,912	45,040	55,852	62,788	84,270
*Others	78,515	98,430	123,422	104,792	44,921	117,183	103,771	108,666	37,436	72,980	91,616	115,936	160,872	288,593	318,809	329,394
Totals	1,630,390	1,625,830	1,541,429	1,494,335	1,940,741	2,003,646	2,006,351	1,685,946	2,996,362	2,894,991	2,802,298	3,359,005	6,567,493	6,524,467	6,350,078	6,539,286

*Others not named for confidentiality include: Tweed River, Richmond River, Clarence River, Woolli Woolli River, Bellinger River, Hunter River, Botany Bay, Bermagui River & Nelson Lagoon.

N/a: Data not available for confidentiality reasons.

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

Estuary	Type of Cultivation	Plate Grade (Bags)	Plate Grade (Dozens)	Value(\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value(\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value(\$)	Total Bags	Total Dozens	Total Value (\$)
Nambucca River	Raft/Pontoon	349	34,873	\$279,681	336	37,008	\$229,450	121	15,781	\$69,436	807	87,662	\$578,567
	Tray	2	162	\$1,299	14	1,534	\$9,511	17	2,215	\$9,746	33	3,911	\$20,556
Estuary Total		350	35,035	\$280,981	350	38,542	\$238,960	138	17,996	\$79,182	839	91,573	\$599,124
Macleay River	Baskets	11	1,100	\$8,822	55	6,076	\$37,671	156	20,218	\$88,959	222	27,394	\$135,452
	Floating	3	305	\$2,446	2	181	\$1,122	2	210	\$924	6	696	\$4,492
	Raft/Pontoon	1	75	\$602	1	132	\$818	2	210	\$924	4	417	\$2,344
	Tray	11	1,113	\$8,926	36	3,940	\$24,428	55	7,113	\$31,297	102	12,166	\$64,651
Estuary Total		26	2,593	\$20,796	94	10,329	\$64,040	213	27,751	\$122,104	333	40,673	\$206,940
Hastings River	Baskets	1	141	\$1,131	8	868	\$5,382	13	1,684	\$7,410	22	2,693	\$13,922
	Floating	29	2,944	\$23,611	42	4,578	\$28,384	56	7,232	\$31,821	127	14,754	\$83,815
	Long-line	10	1,000	\$8,020	20	2,200	\$13,640	100	13,000	\$57,200	130	16,200	\$78,860
	Raft/Pontoon	56	5,645	\$45,273	61	6,676	\$41,391	86	11,191	\$49,240	203	23,512	\$135,905
	Tray	170	17,015	\$136,460	370	40,663	\$252,111	1,167	151,660	\$667,304	1,706	209,338	\$1,055,875
Estuary Total		267	26,745	\$214,495	500	54,985	\$340,907	1,421	184,767	\$812,975	2,189	266,497	\$1,368,377
Camden Haven	Baskets	28	2,750	\$22,055	8	825	\$5,115				35	3,575	\$27,170
	Floating	4	375	\$3,008	3	275	\$1,705	3	325	\$1,430	9	975	\$6,143
	Raft/Pontoon	677	67,675	\$542,754	196	21,568	\$133,722	226	29,325	\$129,030	1,098	118,568	\$805,505
	Slats	4	375	\$3,008	3	275	\$1,705	3	325	\$1,430	9	975	\$6,143
	Tray	238	23,769	\$190,627	88	9,693	\$60,097	31	4,025	\$17,710	357	37,487	\$268,434
Estuary Total		949	94,944	\$761,451	297	32,636	\$202,343	262	34,000	\$149,600	1,508	161,580	\$1,113,394
Manning River	Baskets	2	233	\$1,869	3	346	\$2,145	2	260	\$1,144	7	839	\$5,158
	Dredge	61	6,053	\$48,545	9	975	\$6,045	5	599	\$2,636	74	7,627	\$57,226
	Floating	2	150	\$1,203	6	650	\$4,030	21	2,750	\$12,100	29	3,550	\$17,333
	Long-line	10	1,034	\$8,293	11	1,168	\$7,242	9	1,200	\$5,280	30	3,402	\$20,814
	Slats	0	33	\$265	1	66	\$409				1	99	\$674
	Tray	468	46,798	\$375,320	385	42,386	\$262,793	163	21,229	\$93,408	1,017	110,413	\$731,521
Estuary Total		543	54,301	\$435,494	414	45,591	\$282,664	200	26,038	\$114,567	1,158	125,930	\$832,725
Wallis Lake	Baskets	33	3,340	\$26,787	141	15,535	\$96,317	292	37,940	\$166,936	466	56,815	\$290,040
	Stick	555	55,525	\$445,311	522	57,402	\$355,892	186	24,240	\$106,656	1,264	137,167	\$907,859
	Tray	3,868	386,838	\$3,102,441	4,407	484,764	\$3,005,537	13,140	1,708,258	\$7,516,335	21,416	2,579,860	\$13,624,313
Estuary Total		4,457	445,703	\$3,574,538	5,070	557,701	\$3,457,746	13,619	1,770,438	\$7,789,927	23,146	2,773,842	\$14,822,211
Port Stephens	Baskets	100	10,000	\$80,200	61	6,655	\$41,261	60	7,735	\$34,034	220	24,390	\$155,495
	Long-line	20	2,000	\$16,040							20	2,000	\$16,040
	Stick	67	6,700	\$53,734	80	8,805	\$54,591	29	3,737	\$16,443	176	19,242	\$124,768
	Tray	2,319	231,886	\$1,859,726	1,587	174,537	\$1,082,129	1,140	148,185	\$652,014	5,045	554,608	\$3,593,869
Estuary Total		2,506	250,586	\$2,009,700	1,727	189,997	\$1,177,981	1,228	159,657	\$702,491	5,461	600,240	\$3,890,172

Estuary	Type of Cultivation	Plate Grade (Bags)	Plate Grade (Dozens)	Value(\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value(\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value(\$)	Total Bags	Total Dozens	Total Value (\$)
Brisbane Water	Baskets	13	1,250	\$10,025	94	10,300	\$63,860	85	11,036	\$48,558	191	22,586	\$122,443
	Floating	5	450	\$3,609	53	5,870	\$36,394	73	9,462	\$41,633	131	15,782	\$81,636
	Long-line				1	100	\$620	24	3,100	\$13,640	25	3,200	\$14,260
	Raft/Pontoon	10	1,000	\$8,020	4	400	\$2,480				14	1,400	\$10,500
	Tray	191	19,050	\$152,781	399	43,940	\$272,428	617	80,172	\$352,757	1,207	143,162	\$777,966
Estuary Total		218	21,750	\$174,435	551	60,610	\$375,782	798	103,770	\$456,588	1,567	186,130	\$1,006,805
Hawkesbury River	Floating	15	1,450	\$11,629	10	1,050	\$6,510	1	150	\$660	25	2,650	\$18,799
	Tray	15	1,450	\$11,629	10	1,125	\$6,975	1	150	\$660	26	2,725	\$19,264
Estuary Total		29	2,900	\$23,258	20	2,175	\$13,485	2	300	\$1,320	51	5,375	\$38,063
Shoalhaven River	Baskets	59	5,851	\$46,925	30	3,252	\$20,162	74	9,607	\$42,271	162	18,710	\$109,358
	Floating							15	2,000	\$8,800	15	2,000	\$8,800
	Long-line							15	2,000	\$8,800	15	2,000	\$8,800
	Tray	98	9,838	\$78,901	42	4,612	\$28,594	57	7,375	\$32,450	197	21,825	\$139,945
Estuary Total		157	15,689	\$125,826	71	7,864	\$48,757	161	20,982	\$92,321	390	44,535	\$266,903
Crookhaven River	Baskets	172	17,214	\$138,056	224	24,587	\$152,439	226	29,418	\$129,439	622	71,219	\$419,935
	Floating	11	1,050	\$8,421				4	550	\$2,420	15	1,600	\$10,841
	Long-line				14	1,560	\$9,672	50	6,500	\$28,600	64	8,060	\$38,272
	Slats	4	353	\$2,831	13	1,380	\$8,556	15	1,926	\$8,474	31	3,659	\$19,861
	Tray	67	6,652	\$53,349	81	8,947	\$55,471	160	20,791	\$91,480	308	36,390	\$200,301
Estuary Total		253	25,269	\$202,657	332	36,474	\$226,139	455	59,185	\$260,414	1040	120,928	\$689,210
Clyde River	Baskets	85	8,500	\$68,170	177	19,450	\$120,590	338	43,900	\$193,160	600	71,850	\$381,920
	Floating	7	667	\$5,349	121	13,363	\$82,851	25	3,253	\$14,313	153	17,283	\$102,513
	Stick	430	43,000	\$344,860	555	61,000	\$378,200	762	99,000	\$435,600	1,746	203,000	\$1,158,660
	Tray	1,311	131,134	\$1,051,695	1,785	196,331	\$1,217,252	2,022	262,817	\$1,156,395	5,118	590,282	\$3,425,342
Estuary Total		1,833	183,301	\$1,470,074	2,638	290,144	\$1,798,893	3,146	408,970	\$1,799,468	7,617	882,415	\$5,068,435
Tuross Lake	Baskets	69	6,905	\$55,378	190	20,895	\$129,549	94	12,225	\$53,790	353	40,025	\$238,717
	Long-line	33	3,250	\$26,065	8	825	\$5,115				40	4,075	\$31,180
	Stick	1	50	\$401	19	2,050	\$12,710	15	2,000	\$8,800	35	4,100	\$21,911
	Tray	48	4,800	\$38,496	8	875	\$5,425	15	2,000	\$8,800	71	7,675	\$52,721
Estuary Total		150	15,005	\$120,340	224	24,645	\$152,799	125	16,225	\$71,390	499	55,875	\$344,529
Wagonga Inlet	Baskets	10	1,000	\$8,020	38	4,200	\$26,040	97	12,600	\$55,440	145	17,800	\$89,500
	Long-line	20	2,000	\$16,040	23	2,550	\$15,810	8	1,000	\$4,400	51	5,550	\$36,250
	Stick	21	2,100	\$16,842	10	1,100	\$6,820	16	2,100	\$9,240	47	5,300	\$32,902
	Tray	374	37,389	\$299,860	650	71,549	\$443,604	1,513	196,671	\$865,352	2,537	305,609	\$1,608,816
Estuary Total		425	42,489	\$340,762	722	79,399	\$492,274	1,634	212,371	\$934,432	2,780	334,259	\$1,767,468
Wapengo Lake	Baskets							32	4,200	\$18,480	32	4,200	\$18,480
	Floating	1	100	\$802	9	1,000	\$6,200	8	1,000	\$4,400	18	2,100	\$11,402
	Slats	5	461	\$3,697	20	2,245	\$13,919	15	1,960	\$8,624	40	4,666	\$26,240

Estuary	Type of Cultivation	Plate Grade (Bags)	Plate Grade (Dozens)	Value(\$)	Bistro Grade (Bags)	Bistro Grade (Dozens)	Value(\$)	Bottle Grade (Bags)	Bottle Grade (Dozens)	Value(\$)	Total Bags	Total Dozens	Total Value (\$)
	Stick				1	100	\$620				1	100	\$620
	Tray	97	9,703	\$77,818	228	25,125	\$155,775	93	12,145	\$53,438	419	46,973	\$287,031
Estuary Total		103	10,264	\$82,317	259	28,470	\$176,514	149	19,305	\$84,942	510	58,039	\$343,773
Merimbula Lake	Floating	170	17,034	\$136,613	165	18,104	\$112,245	146	19,016	\$83,670	481	54,154	\$332,528
	Long-line	43	4,285	\$34,366	91	9,975	\$61,845	27	3,500	\$15,400	160	17,760	\$111,611
	Stick	126	12,640	\$101,373	23	2,498	\$15,488	2	300	\$1,320	151	15,438	\$118,180
	Tray	514	51,428	\$412,453	160	17,573	\$108,953	179	23,252	\$102,309	853	92,253	\$623,714
Estuary Total		854	85,387	\$684,804	438	48,150	\$298,530	354	46,068	\$202,699	1,646	179,605	\$1,186,033
Pambula River	Baskets	71	7,102	\$56,958	61	6,658	\$41,280	57	7,427	\$32,679	189	21,187	\$130,916
	Floating	54	5,396	\$43,276	65	7,116	\$44,119	115	14,924	\$65,666	233	27,436	\$153,061
	Long-line	15	1,482	\$11,886	5	541	\$3,354	7	899	\$3,956	27	2,922	\$19,195
	Raft/Pontoon	0	14	\$112	3	319	\$1,978	4	548	\$2,411	7	881	\$4,501
	Slats	20	1,977	\$15,856	20	2,241	\$13,894	28	3,699	\$16,276	69	7,917	\$46,025
	Tray	261	26,094	\$209,274	253	27,852	\$172,682	645	83,837	\$368,883	1,159	137,783	\$750,839
Estuary Total		421	42,065	\$337,361	407	44,727	\$277,307	856	111,334	\$489,870	1,684	198,126	\$1,104,538
Wonboyn River	Baskets	13	1,276	\$10,234	12	1,355	\$8,401	27	3,518	\$15,479	52	6,149	\$34,114
	Floating	243	24,261	\$194,573	162	17,828	\$110,534	99	12,805	\$56,342	503	54,894	\$361,449
	Long-line	90	8,991	\$72,108	39	4,307	\$26,703	42	5,413	\$23,817	171	18,711	\$122,628
	Tray	10	989	\$7,932	12	1,351	\$8,376	17	2,176	\$9,574	39	4,516	\$25,882
Estuary Total		355	35,517	\$284,846	226	24,841	\$154,014	184	23,912	\$105,213	765	84,270	\$544,073
*Others	Baskets	15	1,470	\$11,789	231	25,424	\$157,629	205	26,679	\$117,388	451	53,573	\$286,806
	Dredge							5	650	\$2,860	5	650	\$2,860
	Floating	19	1,860	\$14,917	15	1,683	\$10,435	16	2,126	\$9,354	50	5,669	\$34,706
	Raft/Pontoon	151	15,088	\$121,006	52	5,738	\$35,576	14	1,820	\$8,008	217	22,646	\$164,589
	Stick	15	1,500	\$12,030	10	1,100	\$6,820	12	1,560	\$6,864	37	4,160	\$25,714
	Tray	849	84,874	\$680,689	679	74,721	\$463,270	639	83,101	\$365,644	2,167	242,696	\$1,509,604
*Others Totals		1,048	104,792	\$840,432	988	108,666	\$673,729	892	115,936	\$510,118	2,928	329,394	\$2,024,279
TOTALS		14,943	1,494,335	\$11,984,567	15,327	1,685,946	\$10,452,865	25,839	3,359,005	\$14,779,622	56,109	6,539,286	\$37,217,054

*Others not named for confidentiality include Tweed River, Richmond River, Clarence River, Woolli Woolli River, Bellinger River, Hunter River, Botany Bay, Bermagui River & Nelson Lagoon.

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

Table 6: Sydney Rock Oyster Sales by Market

Market Description	Plate Grade			Bistro Grade			Bottle Grade			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Export	3	300	\$2,406				15	2,000	\$8,800	18	2,300	\$11,206
Interstate	1,759	175,886	\$1,410,606	2,234	245,697	\$1,523,321	8,278	1,076,133	\$4,734,985	12,270	1,497,716	\$7,668,912
Local	3,832	383,183	\$3,073,128	4,185	460,336	\$2,854,083	4,517	587,261	\$2,583,948	12,534	1,430,780	\$8,511,159
NSW (Other than Sydney)	1,058	105,843	\$848,861	1,668	183,459	\$1,137,446	2,599	337,905	\$1,486,782	5,326	627,207	\$3,473,089
Sydney	8,291	829,123	\$6,649,566	7,240	796,454	\$4,938,015	10,429	1,355,706	\$5,965,106	25,960	2,981,283	\$17,552,688
Totals	14,943	1,494,335	\$11,984,567	15,327	1,685,946	\$10,452,865	25,839	3,359,005	\$14,779,622	56,109	6,539,286	\$37,217,054

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

Table 7: Sydney Rock Oyster Sales by Production Method

Type of Cultivation	Plate Grade			Bistro Grade			Bottle Grade			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value(\$)	Bags	Dozens	Value (\$)
Baskets	681	68,132	\$546,419	1,331	146,426	\$907,841	1,757	228,447	\$1,005,167	3,770	443,005	\$2,459,427
Dredge	61	6,053	\$48,545	9	975	\$6,045	10	1,249	\$5,496	79	8,277	\$60,086
Floating	560	56,042	\$449,457	652	71,698	\$444,528	583	75,803	\$333,533	1,795	203,543	\$1,227,518
Long-line	240	24,042	\$192,817	211	23,226	\$144,001	282	36,612	\$161,093	733	83,880	\$497,911
Raft/Pontoon	1,244	124,370	\$997,447	653	71,841	\$445,414	453	58,875	\$259,050	2,350	255,086	\$1,701,912
Slats	32	3,199	\$25,656	56	6,207	\$38,483	61	7,910	\$34,804	149	17,316	\$98,943
Stick	1,215	121,515	\$974,550	1,219	134,055	\$831,141	1,023	132,937	\$584,923	3,456	388,507	\$2,390,614
Tray	10,910	1,090,982	\$8,749,676	11,196	1,231,518	\$7,635,412	21,671	2,817,172	\$12,395,557	43,776	5,139,672	\$28,780,644
Totals	14,943	1,494,335	\$11,984,567	15,327	1,685,946	\$10,452,865	25,839	3,359,005	\$14,779,622	56,109	6,539,286	\$37,217,054

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

Table 8: Sydney Rock Oyster Sales by Permit Holders

Production Range	0 Bags No Prod Report Returned	0 Bags (nil prod)	<=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 *	2	29	11 (16)	12 (18)	14 (20)	8 (12)	9 (13)	8 (11)	4 (6)	3 (4)	100
Number of Permit Holders	8	100	38	41	47	28	30	26	14	9	333
Quantity Produced (bags)	0	0	408	1,557	3,463	3,610	5,913	9,368	10,546	21,229	56,094
Quantity Produced (dozens)	0	0	46,633	176,695	393,231	408,028	667,768	1,072,809	1,197,046	2,577,076	6,539,286
Percentage of production (dozens)			1	3	6	6	10	16	18	40	100
Total Value (\$)			\$280,441	\$1,067,243	\$2,367,864	\$2,479,544	\$4,078,385	\$6,332,277	\$7,241,182	\$13,370,119	\$37,217,054

*Number in brackets is the percentage of permit holders excluding nil production and reports not returned.

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

Figure B: Percentage of Oyster Permit Holders by Production Range

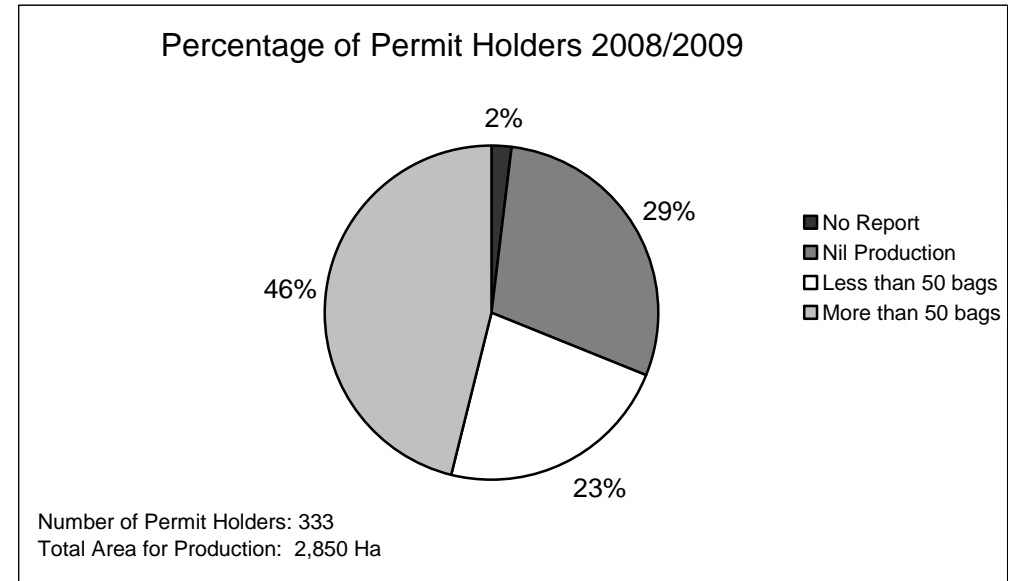
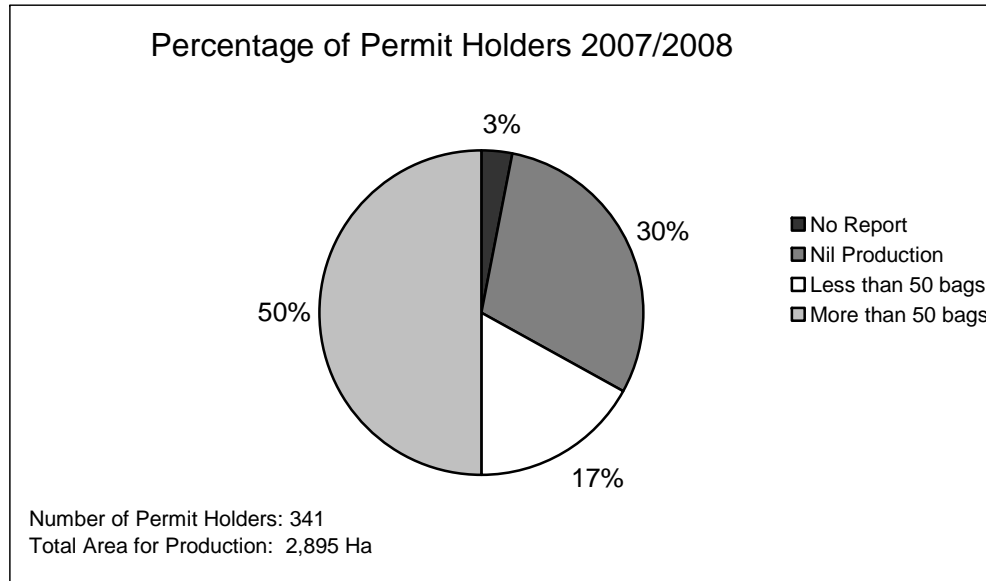
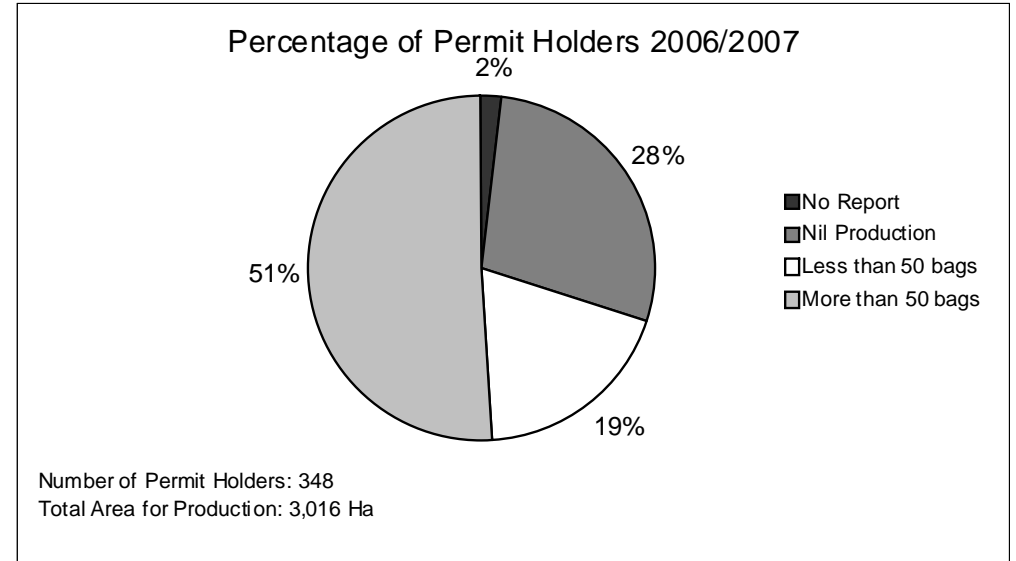
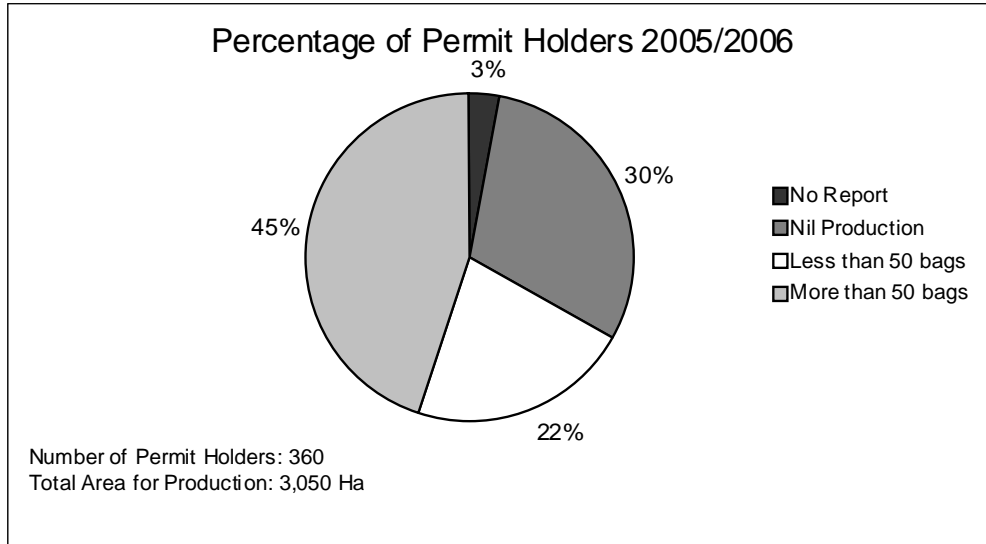


Table 9: Sydney Rock Oyster Sales by Estuary

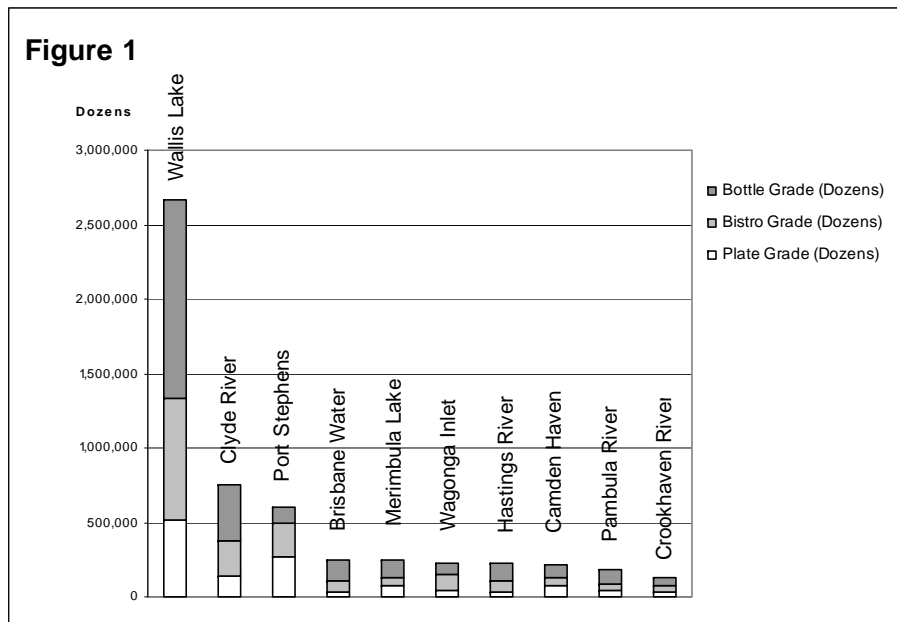
Estuary	Plate Grade			Bistro Grade			Bottle Grade			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Nambucca River	350	35,035	\$280,981	350	38,542	\$238,960	138	17,996	\$79,182	839	91,573	\$599,124
Macleay River	26	2,593	\$20,796	94	10,329	\$64,040	213	27,751	\$122,104	333	40,673	\$206,940
Hastings River	267	26,745	\$214,495	500	54,985	\$340,907	1,421	184,767	\$812,975	2,189	266,497	\$1,368,377
Camden Haven	949	94,944	\$761,451	297	32,636	\$202,343	262	34,000	\$149,600	1,508	161,580	\$1,113,394
Manning River	543	54,301	\$435,494	414	45,591	\$282,664	200	26,038	\$114,567	1,158	125,930	\$832,725
Wallis Lake	4,457	445,703	\$3,574,538	5,070	557,701	\$3,457,746	13,619	1,770,438	\$7,789,927	23,146	2,773,842	\$14,822,211
Port Stephens	2,506	250,586	\$2,009,700	1,727	189,997	\$1,177,981	1,228	159,657	\$702,491	5,461	600,240	\$3,890,172
Brisbane Water	218	21,750	\$174,435	551	60,610	\$375,782	798	103,770	\$456,588	1,567	186,130	\$1,006,805
Hawkesbury River	29	2,900	\$23,258	20	2,175	\$13,485	2	300	\$1,320	51	5,375	\$38,063
Shoalhaven River	157	15,689	\$125,826	71	7,864	\$48,757	161	20,982	\$92,321	390	44,535	\$266,903
Crookhaven River	253	25,269	\$202,657	332	36,474	\$226,139	455	59,185	\$260,414	1,040	120,928	\$689,210
Clyde River	1,833	183,301	\$1,470,074	2,638	290,144	\$1,798,893	3,146	408,970	\$1,799,468	7,617	882,415	\$5,068,435
Tuross Lake	150	15,005	\$120,340	224	24,645	\$152,799	125	16,225	\$71,390	499	55,875	\$344,529
Wagonga Inlet	425	42,489	\$340,762	722	79,399	\$492,274	1,634	212,371	\$934,432	2,780	334,259	\$1,767,468
Wapengo Lake	103	10,264	\$82,317	259	28,470	\$176,514	149	19,305	\$84,942	510	58,039	\$343,773
Merimbula Lake	854	85,387	\$684,804	438	48,150	\$298,530	354	46,068	\$202,699	1,646	179,605	\$1,186,033
Pambula River	421	42,065	\$337,361	407	44,727	\$277,307	856	111,334	\$489,870	1,684	198,126	\$1,104,538
Wonboyn River	355	35,517	\$284,846	226	24,841	\$154,014	184	23,912	\$105,213	765	84,270	\$544,073
*Others	1,048	104,792	\$840,432	988	108,666	\$673,729	892	115,936	\$510,118	2,928	329,394	\$2,024,279
Totals	14,943	1,494,335	\$11,984,567	15,327	1,685,946	\$10,452,865	25,839	3,359,005	\$14,779,622	56,109	6,539,286	\$37,217,054

*Others not named for confidentiality include Tweed River, Richmond River, Clarence River, Wooli Wooli River, Bellinger River, Hunter River, Botany Bay, Bermagui River & Nelson Lagoon.

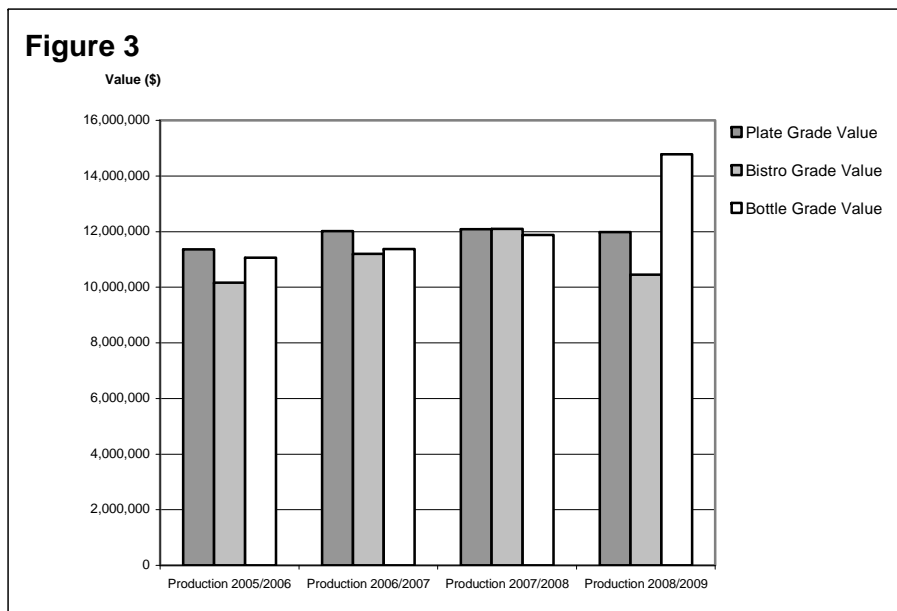
Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

Figure C: Comparative Graphs: Sydney Rock Oyster (SRO) Production

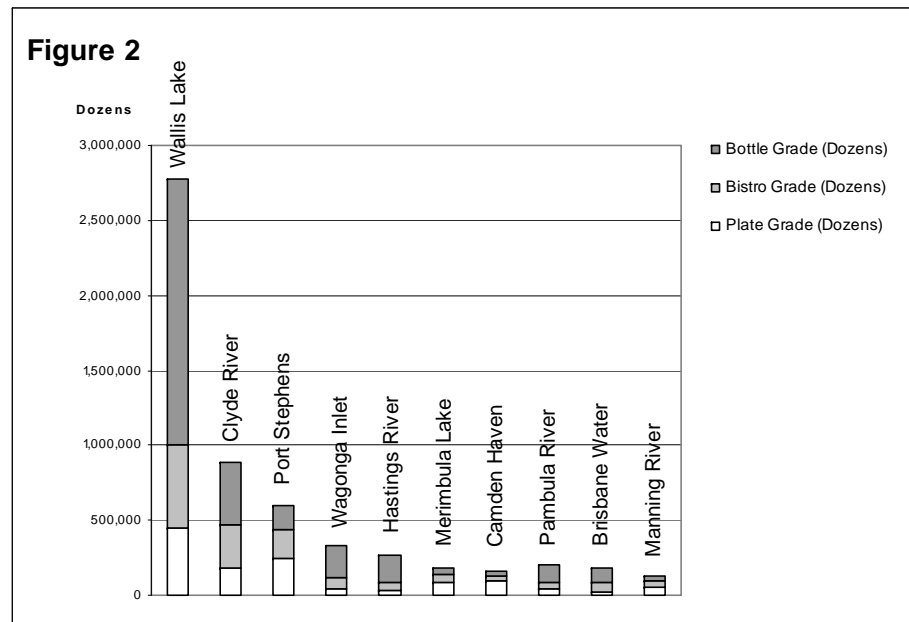
The ten most productive estuaries for cultivation and sale of SRO in 2007/2008



Value of plate, bistro and bottle/cocktail grade SRO production in 2005/2006, 2006/2007 and 2007/2008 compared to 2008/2009



The ten most productive estuaries for the cultivation and sale of SRO in 2008/2009



The quantity of plate, bistro and bottle/cocktail grade SRO production in 2005/2006, 2006/2007 and 2007/2008 compared to 2008/2009

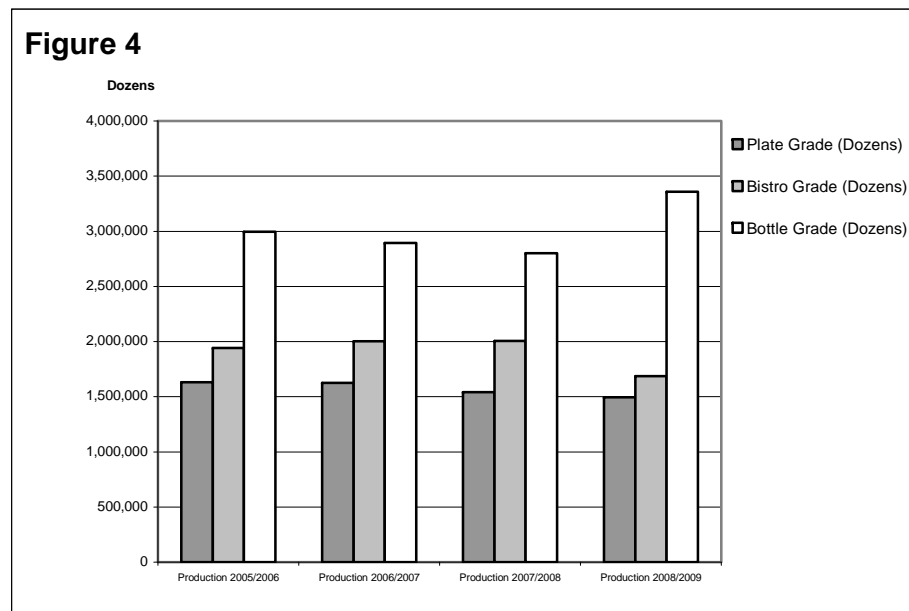


Table 10: Pacific Oyster Sales from Port Stephens

	Grade 1			Grade 2			Grade 3			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Total	1,086	82,505	\$584,960	645	77,366	\$482,764	276	41,457	\$196,506	2,007	201,328	\$1,264,230

Table 11: Pacific Oyster Sales by Production Method

Type of Cultivation	Grade 1			Grade 2			Grade 3			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Baskets	421	31,998	\$226,866	383	45,906	\$286,453	150	22,457	\$106,446	953	100,361	\$619,765
Long-line	437	33,229	\$235,594	135	16,250	\$101,400	81	12,100	\$57,354	653	61,579	\$394,348
Stick	10	760	\$5,388	6	760	\$4,742	40	6,000	\$28,440	56	7,520	\$38,571
Tray	217	16,518	\$117,113	120	14,450	\$90,168	6	900	\$4,266	344	31,868	\$211,547
Total	1,086	82,505	\$584,960	645	77,366	\$482,764	276	41,457	\$196,506	2,007	201,328	\$1,264,230

Table 12: Pacific Oyster Sales by Market

Market Description	Grade 1			Grade 2			Grade 3			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Interstate	50	3,812	\$27,027	102	12,262	\$76,515	45	6,752	\$32,004	197	22,826	\$135,546
Local	227	17,274	\$122,473	183	21,930	\$136,843	56	8,435	\$39,982	466	47,639	\$299,298
NSW (Other than Sydney)	294	22,318	\$158,235	94	11,324	\$70,662	66	9,930	\$47,068	454	43,572	\$275,965
Sydney	514	39,101	\$277,226	265	31,850	\$198,744	109	16,340	\$77,452	889	87,291	\$553,422
Total	1,086	82,505	\$584,960	645	77,366	\$482,764	276	41,457	\$196,506	2,007	201,328	\$1,264,230

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

Table 13: Triploid Pacific Oyster Sales

	Supreme			Premium			Standard			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Total	2,017	80,675	\$749,471	1,676	100,534	\$744,957	1,045	83,585	\$538,287	4,737	264,794	\$2,032,715

Table 14: Triploid Pacific Oyster Sales by Production Method

Type of Cultivation	Supreme			Premium			Standard			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Baskets	19	750	\$6,968	49	2,922	\$21,652	75	6,000	\$38,640	142	9,672	\$67,260
Floating	5	200	\$1,858	20	1,200	\$8,892	19	1,500	\$9,660	44	2,900	\$20,410
Long-line							114	9,106	\$58,643	114	9,106	\$58,643
Tray	1,993	79,725	\$740,645	1,607	96,412	\$714,413	837	66,979	\$431,345	4,437	243,116	\$1,886,403
Total	2,017	80,675	\$749,471	1,676	100,534	\$744,957	1,045	83,585	\$538,287	4,737	264,794	\$2,032,715

Table 15: Triploid Pacific Oyster Sales by Market

Market Description	Supreme			Premium			Standard			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
Interstate	375	15,000	\$139,350							375	15,000	\$139,350
Local	35	1,400	\$13,006	123	7,400	\$54,834	81	6,500	\$41,860	240	15,300	\$109,700
NSW (Other than Sydney)							82	6,549	\$42,176	82	6,549	\$42,176
Sydney	1,607	64,275	\$597,115	1,552	93,134	\$690,123	882	70,536	\$454,252	4,041	227,945	\$1,741,490
Total	2,017	80,675	\$749,471	1,676	100,534	\$744,957	1,045	83,585	\$538,287	4,737	264,794	\$2,032,715

Please Note: Due to rounding effect there may be some small variances in bag quantities and \$ value.

Table 16: Spat Production Value by Cultivation Method

Type of Cultivation	Large Spat (\$)	Medium Spat (\$)	Small Spat (\$)	Total Value (\$)
Hatchery Single Seed	\$83,240	\$8,500	\$402,890	\$494,630
Stick	\$51,360			\$51,360
Wild Caught Single Seed	\$897,179	\$368,385	\$162,600	\$1,428,164
Total value	\$1,031,779	\$376,885	\$565,490	\$1,974,154

Note: Values include figures for Sydney rock oyster, Pacific oyster and flat oyster spat.

Table 17: Spat Sales by Estuary

Estuary	Large Spat		Medium Spat		Small Spat		Total	
	Quantity	Value (\$)	Quantity	Value (\$)	Quantity	Value (\$)	Quantity	Value (\$)
Hastings River	5,209,100	\$505,800	3,123,000	\$227,260	1,717,000	\$63,300	10,049,100	\$796,360
Port Stephens	1,013,455	\$219,859			5,958,000	\$178,740	6,971,455	\$398,599
*Others	3,418,540	\$306,120	2,547,060	\$149,625	10,288,000	\$323,450	16,253,600	\$779,195
Totals	9,641,095	\$1,031,779	5,670,060	\$376,885	17,963,000	\$565,490	33,274,155	\$1,974,154

*Others not named for confidentiality reasons include: Wooli Wooli River, Bellinger River, Nambucca River, Macleay River, Camden Haven, Manning River, Hunter River, Brisbane Water, Crookhaven River, Wagonga Inlet, Nelson Lagoon, Merimbula Lake, Pambula River & Wonboyn River.

Appendix 1. Oyster Price and Weight Conversions

For the purposes of this report the following estimates have been developed on data supplied by permit holders:

Sydney Rock Oysters

1 bag of Plate Grade Oysters = 100 dozen @ a Farm Gate Price of \$802 per bag.

1 bag of Bistro Grade Oysters = 110 dozen @ a Farm Gate Price of \$682 per bag.

1 bag of Bottle/Cocktail Grade Oysters = 130 dozen @ a Farm Gate Price of \$572 per bag.

Pacific Oysters

1 bag of Grade 1 (Select and Prime) Pacific Oysters = 76 dozen @ a Farm Gate Price of \$538.84 per bag.

1 bag of Grade 2 (Bistro) Pacific Oysters = 120 dozen @ a Farm Gate Price of \$748.80 per bag.

1 bag of Grade 3 (Mini) Pacific Oysters = 150 dozen @ a Farm Gate Price of \$711 per bag.

Triploid Pacific Oysters

1 bag of Triploid Supreme Oysters = 40 dozen @ Farm Gate Price of \$371.60 per bag.

1 bag of Triploid Premium Oysters = 60 dozen @ Farm Gate Price of \$444.60 per bag.

1 bag of Triploid Standard Oysters = 80 dozen @ Farm Gate Price of \$515.20 per bag.

Weight Conversions

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