

# Aquaculture Production

Report 2007–08



Title: Aquaculture production report 2007–2008

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#### Disclaimer

Information presented in this publication is presented as a general representation of aquaculture production in NSW for the reporting period 1 July 2007 to 30 June 2008. All care has been taken to ensure the information is correct at the time of publication. NSW Department of Primary Industries does not guarantee the accuracy of the information provided by the permit holders.

This information should not be used in the development of business plans, investment proposals or other applications unless professional advice is sought.

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## Minister's message

It is my great pleasure to present the NSW Government's Aquaculture Production report for the 2007-2008 financial year.

The NSW aquaculture sector has established a reputation as a major contributor to high quality seafood production in NSW. The industry provides employment and contributes significantly to local and regional communities. It continues to promote ecologically sustainable farming practices through partnerships with the seafood industry, community groups and other stakeholders.

NSW total aquaculture production increased in value in 2007-2008 to \$51.5 million, representing a 4.6 percent increase from the previous year. The value of the Sydney rock oyster industry rose by 4.3 percent to \$36 million reflecting our most valuable industry.

Of particular note is that the Hawkesbury River is well on the road to regaining its historical position as a major oyster producing estuary in NSW following the devastating impact of QX oyster disease in 2004/5. In addition to cleaning the estuary of dead stock and redundant oyster cultivation material they have adopted new technology and are now growing disease resistant oysters. This positive result again reflects the enthusiasm and dedication from our Hawkesbury farmers.

The NSW Oyster Industry Sustainable Aquaculture Strategy, a joint industry/government initiative, has also made inroads into raising the profile of the oyster industry and promoting initiatives to improve water quality in our estuaries. The Strategy received a commendation at the Premier's Public Sector Awards in late 2007.

Drought still continues to impact our land based sector. Despite this, production figures are still comparable to last financial year. Commercial hatchery production increased in value by \$735,348 (47.7 percent) and prawn farming by 8 percent to \$2.8 million.

A NSW Hatchery Quality Assurance Program was also introduced this financial year for hatcheries producing native freshwater fish for stocking of waterways. While mandatory for hatcheries participating in stocking programs it is also used to accredit other hatcheries that comply with hatchery best management practices.

I would like to thank all aquaculture farm operators who contributed to this report, as their on-going cooperation is invaluable. I look forward to watching the NSW aquaculture industry continue to thrive in the future.



A handwritten signature in black ink, appearing to read 'Ian Macdonald'.

Ian Macdonald, MLC  
NSW Minister for Primary Industries

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**Table 1: Snapshot of Aquaculture Production for 2007/2008**

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 (\$)
<b>Crustaceans</b>	black tiger prawn	<i>Penaeus monodon</i>	12	N/a	124.2	201,850	\$13.80	\$2,784,962
	yabby	<i>Cherax destructor</i>	106	20	460.98**	6,195	\$21.00	\$130,094
	yabby (bait)	<i>Cherax destructor</i>						\$150,989
<b>Freshwater fish</b>	barramundi	<i>Lates calcarifer</i>	7	N/a	0.45	111,400	\$11.83	\$1,318,300
	brown trout	<i>Salmo trutta</i>	13	N/a	0.2	43	\$19.91	\$856
	eel-long finned	<i>Anguilla reinhardtii</i>	19	N/a	3.1	5,121	\$10.21	\$52,300
	golden perch	<i>Macquaria ambigua</i>	96	N/a	0.6	328	\$22.16	\$7,267
	Murray cod	<i>Maccullochella peelii</i>	59	7	8.37	8,516	\$20.33	\$173,118
	rainbow trout	<i>Oncorhynchus mykiss</i>	28	7	4.37	130,448	\$10.78	\$1,406,713
	silver perch	<i>Bidyanus bidyanus</i>	108	28	49.92	203,083	\$11.10	\$2,253,513
	<b>Marine fish</b>	mulloway	<i>Argyrosomus japonicus</i>	25	N/a	1.99	9,300	\$7.59
	sand whiting	<i>Sillago ciliata</i>	10	N/a	1	50	\$12.00	\$600
	snapper	<i>Pagrus auratus</i>	14	N/a	1	80	\$12.00	\$960
	yellowfin bream	<i>Acanthopagrus australis</i>	13	N/a	1	110	\$12.00	\$1,320
<b>Sub total</b>								<b>\$8,351,564</b>
<b>Hatchery</b>	Hatchery (species)	(see hatchery production table)						\$2,273,738
<b>Mollusc - oysters</b>	Sydney rock oyster	<i>Saccostrea glomerata</i> (see oyster production tables)						\$36,064,846
	Pacific oyster	<i>Crassostrea gigas</i> (see oyster production tables)						\$1,298,544
	Triploid Pacific oyster	<i>Crassostrea gigas</i>						\$941,939
	flat oysters	<i>Ostrea angasi</i>						\$272,823
	oyster spat	(see oyster production tables)						\$1,897,155
<b>*Other</b>								\$465,400
<b>Total \$ Value</b>								<b>\$51,566,009</b>

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

\*Other = Due to confidentiality these figures are included under this category. Species include, beach worm *Australonuphis parateres*, blue mussel *Mytilus galloprovincialis*, dusky flathead *Platycephalus fuscus*, pearl oyster *Pinctada imbricata* and yellowtail kingfish *Seriola lalandi*.

\*\*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 2007/2008**

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	124.2	201,850	\$13.80	\$2,784,962
	yabby	<i>Cherax destructor</i>	106	20	460.98**	6,195	\$21.00	\$130,094
	yabby (bait)	<i>Cherax destructor</i>						\$150,989
Freshwater fish	barramundi	<i>Lates calcarifer</i>	7	N/a	0.45	111,400	\$11.83	\$1,318,300
	brown trout	<i>Salmo trutta</i>	13	N/a	0.2	43	\$19.91	\$856
	eel-long finned	<i>Anguilla reinhardtii</i>	19	N/a	3.1	5,121	\$10.21	\$52,300
	golden perch	<i>Macquaria ambigua</i>	96	N/a	0.6	328	\$22.16	\$7,267
	Murray cod	<i>Maccullochella peelii</i>	59	7	8.37	8,516	\$20.33	\$173,118
	rainbow trout	<i>Oncorhynchus mykiss</i>	28	7	4.37	130,448	\$10.78	\$1,406,713
	silver perch	<i>Bidyanus bidyanus</i>	108	28	49.92	203,083	\$11.10	\$2,253,513
	mulloway	<i>Argyrosomus japonicus</i>	25	N/a	1.99	9,300	\$7.59	\$70,572
	sand whiting	<i>Sillago ciliata</i>	10	N/a	1	50	\$12.00	\$600
Marine fish	snapper	<i>Pagrus auratus</i>	14	N/a	1	80	\$12.00	\$960
	yellowfin bream	<i>Acanthopagrus australis</i>	13	N/a	1	110	\$12.00	\$1,320
	*Other							\$129,900
<b>Total \$ Value</b>								<b>\$8,481,464</b>

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

\*Other = Due to confidentiality these figures are included under this category. Species include, blue mussel *Mytilus galloprovincialis*, dusky flathead *Platycephalus fuscus*, and yellowtail kingfish *Seriola lalandi*.

\*\*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 2007/2008**

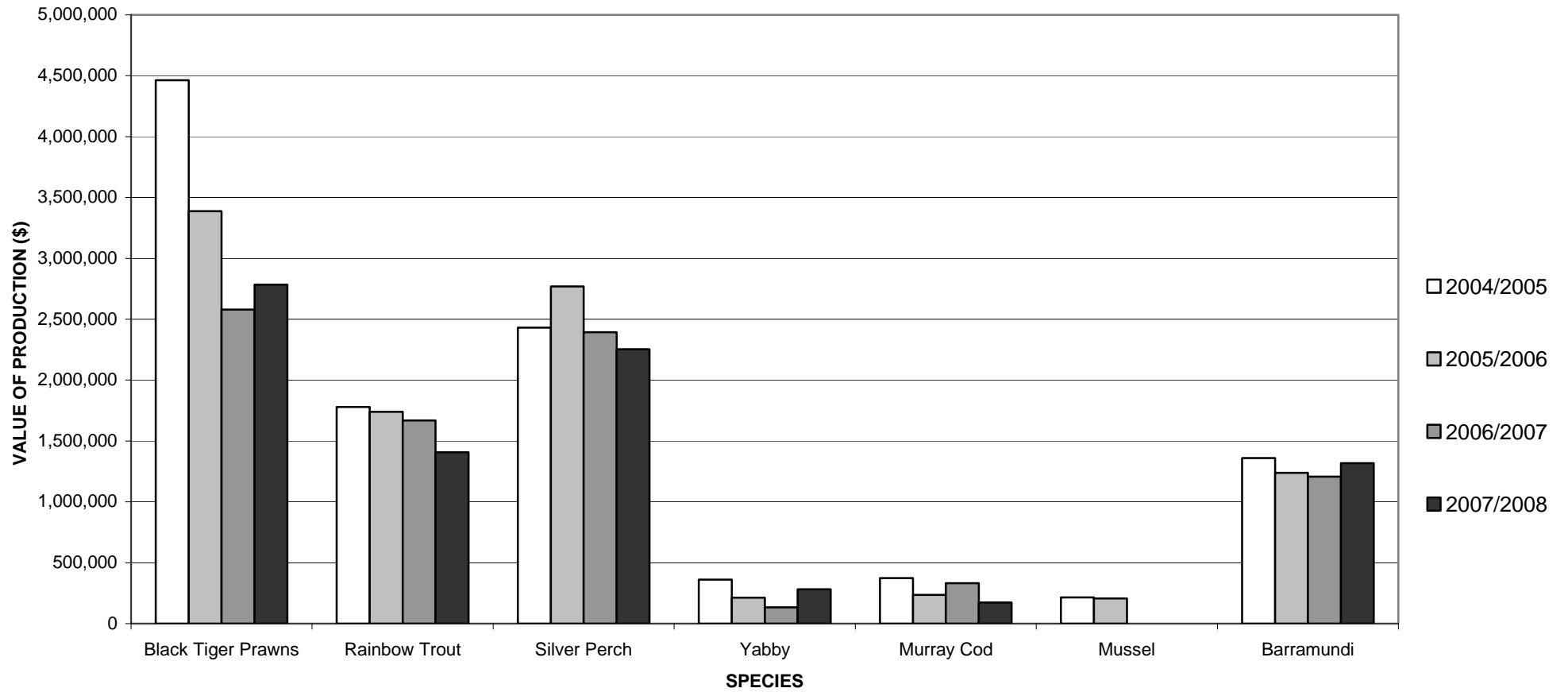
Grouping	Common Name	Scientific Name	Number of Permits	Hatcheries Producing	Product Description	Quantity	Average Price per Unit (\$)	Total Value (\$)
<b>Crustaceans</b>	black tiger prawn	<i>Penaeus monodon</i>	7	N/a	Larvae	6,000,000	0.02	\$108,000
<b>Freshwater fish</b>	aquarium species	<b>Various species</b>	6	5	Juveniles	223,634	0.97	\$217,519
	Australian bass	<i>Macquaria novemaculeata</i>	16	N/a	Juveniles	304,846	0.62	\$188,304
					Larvae	5,000	0.57	\$2,830
	eel tailed catfish	<i>Tandanus tandanus</i>	19	N/a	Juveniles	18,365	1.78	\$32,753
	golden perch	<i>Macquaria ambigua</i>	36	8	Juveniles	1,389,522	0.22	\$307,377
	goldfish	<i>Carassius auratus</i>	8	N/a	Juveniles	56,000	0.67	\$37,400
	koi carp	<i>Cyprinus carpio</i>	8	6	Juveniles	243,000	0.71	\$172,500
	Murray cod	<i>Maccullochella peelii</i>	17	8	Juveniles	1,427,769	0.60	\$851,577
					Larvae	266,000	0.20	\$52,150
	rainbow trout	<i>Oncorhynchus mykiss</i>	12	N/a	Juveniles	22,958	1.23	\$28,154
	silver perch	<i>Bidyanus bidyanus</i>	38	11	Juveniles	883,270	0.27	\$240,084
<b>Marine fish</b>	mulloway	<i>Argyrosomus japonicus</i>	11	N/a	Juveniles	24,800	0.83	\$20,460
	Yellowfin bream	<i>Acanthopagrus australis</i>	6	N/a	Juveniles	50	6.00	\$300
<b>*Other</b>								\$14,330
<b>Total Value</b>								<b>\$2,273,738</b>

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

\*Other = Due to confidentiality these figures are included under this category. Species include silver bream *Acanthopagrus australis* & sand whiting *Sillago ciliata*.

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 – 2004/2005, 2005/2006, 2006/2007 and 2007/2008 by Estuary**

Estuary	Plate Grade Dozens				Bistro Grade Dozens				Bottle Grade Dozens				Total Dozens			
	04/05	05/06	06/07	07/08	04/05	05/06	06/07	07/08	04/05	05/06	06/07	07/08	04/05	05/06	06/07	07/08
Nambucca River	21,997	44,582	30,823	32,181	23,030	44,075	9,362	44,137	19,630	19,235	17,161	34,789	64,657	107,892	107,346	111,107
Macleay River	20,392	39,342	5,271	4,982	35,502	58,614	10,940	12,762	75,104	78,467	28,116	47,020	130,998	176,423	44,327	64,764
Hastings River	50,570	65,248	66,552	32,253	116,535	97,224	95,509	75,111	133,150	135,296	148,339	119,559	300,255	297,768	310,400	226,923
Camden Haven	75,400	110,511	88,608	78,450	60,462	71,667	77,415	51,615	129,285	129,995	145,530	86,030	265,147	312,173	311,553	216,095
Manning River	77,957	80,873	80,971	23,911	62,324	79,605	52,557	20,246	107,670	172,607	130,409	26,666	247,951	333,085	263,937	70,823
Wallis Lake	490,654	403,249	455,384	520,523	633,423	583,373	726,249	815,855	1,098,017	1,026,736	1,138,780	1,328,837	2,222,094	2,013,358	2,320,413	2,665,215
Port Stephens	249,250	248,028	292,611	272,974	206,823	196,873	200,773	225,323	233,018	271,708	189,167	108,610	689,091	716,609	682,551	606,907
Brisbane Water	146,435	108,261	43,000	34,765	126,799	122,770	61,377	74,104	246,526	260,593	167,998	143,295	519,760	491,624	272,375	252,164
Hawkesbury River	71,462	300	2,000		119,220	440	3,400		265,348	4,710	5,100	5,500	456,030	5,450	10,500	5,500
Shoalhaven River	24,098	12,224	18,814	13,976	13,054	13,717	14,320	15,364	3,633	8,842	15,541	10,423	40,785	34,783	48,675	39,763
Crookhaven River	27,267	34,968	36,472	35,012	36,248	40,799	34,430	35,480	58,245	54,757	51,732	56,942	121,760	130,524	122,634	127,434
Clyde River	196,422	203,277	152,254	137,818	393,392	270,543	210,894	238,164	488,153	426,335	407,189	374,212	1,077,967	900,155	770,337	750,194
Tuross Lake	9,074	12,688	27,250	23,130	33,940	28,780	30,090	33,414	30,645	30,400	22,875	26,409	73,659	71,868	80,215	82,953
Wagonga Inlet	19,980	29,628	32,200	42,176	69,906	83,551	114,027	104,917	125,511	143,509	171,172	82,965	215,397	256,688	317,399	230,058
Wapengo Lake	8,604	14,812	11,555	12,656	44,435	48,280	35,055	40,696	27,300	24,370	22,695	32,608	80,339	87,462	69,305	85,960
Merimbula Lake	106,119	62,495	116,760	76,852	43,280	63,611	74,407	47,927	42,159	73,801	59,994	126,916	191,558	199,907	251,161	251,695
Pambula River	35,062	27,600	40,467	40,472	59,940	50,117	63,943	50,038	83,524	87,082	92,484	90,416	178,526	164,799	196,894	180,926
Wonboyn River	28,001	24,356	2,6408	35,876	17,875	17,067	21,715	17,427	6,552	3,617	7729	9,485	52,428	45,040	55,852	62,788
**Others	95,859	78,515	98,430	123,422	81,422	44,921	117,183	103,771	80,737	37,436	72,980	91,616	258,018	160,872	288,593	318,809
<b>Totals</b>	<b>1,754,603</b>	<b>1,630,390</b>	<b>1,625,830</b>	<b>1,541,429</b>	<b>2,177,610</b>	<b>1,940,741</b>	<b>2,003,646</b>	<b>2,006,351</b>	<b>3,254,207</b>	<b>2,996,362</b>	<b>2,894,991</b>	<b>2,802,298</b>	<b>7,186,420</b>	<b>6,567,493</b>	<b>6,524,467</b>	<b>6,350,078</b>

\*\*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 (\$)
<b>Nambucca River</b>	Floating	10	1,000	\$7,840	20	2,200	\$13,266	70	9,100	\$38,584	100	12,300	\$59,690
	Raft/Pontoon	212	21,181	\$166,059	331	36,437	\$219,715	160	20,814	\$88,251	703	78,432	\$474,026
	Tray	100	10,000	\$78,400	50	5,500	\$33,165	38	4,875	\$20,670	188	20,375	\$132,235
<b>Estuary Total</b>		<b>322</b>	<b>32,181</b>	<b>\$252,299</b>	<b>401</b>	<b>44,137</b>	<b>\$266,146</b>	<b>268</b>	<b>34,789</b>	<b>\$147,505</b>	<b>991</b>	<b>111,107</b>	<b>\$665,951</b>
<b>Macleay River</b>	Baskets	24	2,432	\$19,067	62	6,874	\$41,450	219	28,472	\$120,721	306	37,778	\$181,238
	Floating	5	500	\$3,920	1	140	\$844				6	640	\$4,764
	Raft/Pontoon	1	68	\$533	1	74	\$446	1	88	\$373	2	230	\$1,352
	Tray	20	1,982	\$15,539	52	5,674	\$34,214	142	18,460	\$78,270	213	26,116	\$128,024
<b>Estuary Total</b>		<b>50</b>	<b>4,982</b>	<b>\$39,059</b>	<b>116</b>	<b>12,762</b>	<b>\$76,955</b>	<b>362</b>	<b>47,020</b>	<b>\$199,365</b>	<b>528</b>	<b>64,764</b>	<b>\$315,379</b>
<b>Hastings River</b>	Baskets				59	6,500	\$39,195	19	2,500	\$10,600	78	9,000	\$49,795
	Floating	17	1,653	\$12,960	10	1,110	\$6,693	19	2,500	\$10,600	46	5,263	\$30,253
	Raft/Pontoon	15	1,450	\$11,368	39	4,251	\$25,634	606	78,717	\$333,760	659	84,418	\$370,762
	Tray	292	29,150	\$228,536	575	63,250	\$381,398	276	35,842	\$151,970	1,142	128,242	\$761,904
<b>Estuary Total</b>		<b>323</b>	<b>32,253</b>	<b>\$252,864</b>	<b>683</b>	<b>75,111</b>	<b>\$452,919</b>	<b>920</b>	<b>119,559</b>	<b>\$506,930</b>	<b>1,925</b>	<b>226,923</b>	<b>\$1,212,713</b>
<b>Camden Haven</b>	Raft/Pontoon	639	63,900	\$500,976	304	33,440	\$201,643	551	71,630	\$303,711	1,494	168,970	\$1,006,330
	Stick				103	11,300	\$68,139	100	13,000	\$55,120	203	24,300	\$123,259
	Tray	146	14,550	\$114,072	63	6,875	\$41,456	11	1,400	\$5,936	219	22,825	\$161,464
<b>Estuary Total</b>		<b>785</b>	<b>78,450</b>	<b>\$615,048</b>	<b>469</b>	<b>51,615</b>	<b>\$311,238</b>	<b>662</b>	<b>86,030</b>	<b>\$364,767</b>	<b>1,915</b>	<b>216,095</b>	<b>\$1,291,054</b>
<b>Manning River</b>	Baskets	40	4,000	\$31,360	21	2,300	\$13,869	9	1,150	\$4,876	70	7,450	\$50,105
	Floating				7	800	\$4,824	15	2,000	\$8,480	23	2,800	\$13,304
	Long-line	5	500	\$3,920							5	500	\$3,920
	Tray	194	19,411	\$152,182	156	17,146	\$103,390	181	23,516	\$99,708	531	60,073	\$355,280
<b>Estuary Total</b>		<b>239</b>	<b>23,911</b>	<b>\$187,462</b>	<b>184</b>	<b>20,246</b>	<b>\$122,083</b>	<b>205</b>	<b>26,666</b>	<b>\$113,064</b>	<b>628</b>	<b>70,823</b>	<b>\$422,609</b>
<b>Wallis Lake</b>	Baskets	11	1,076	\$8,436	87	9,553	\$57,605	217	28,175	\$119,462	314	38,804	\$185,502
	Stick	1,008	100,755	\$789,919	1,549	170,393	\$1,027,470	2,879	374,286	\$1,586,973	5,436	645,434	\$3,404,362
	Tray	4,187	418,692	\$3,282,545	5,781	635,909	\$3,834,531	7,126	926,376	\$3,927,834	17,094	1,980,977	\$11,044,911
<b>Estuary Total</b>		<b>5,205</b>	<b>520,523</b>	<b>\$4,080,900</b>	<b>7,417</b>	<b>815,855</b>	<b>\$4,919,606</b>	<b>10,222</b>	<b>1,328,837</b>	<b>\$5,634,269</b>	<b>22,844</b>	<b>2,665,215</b>	<b>\$14,634,775</b>
<b>Port Stephens</b>	Baskets	48	4,804	\$37,663	53	5,804	\$34,998	5	613	\$2,599	106	11,221	\$75,261

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 (\$)
	Long-line	40	4,000	\$31,360	45	5,000	\$30,150	3	334	\$1,416	88	9,334	\$62,926
	Stick	27	2,650	\$20,776	72	7,913	\$47,715	17	2,273	\$9,638	116	12,836	\$78,129
	Tray	2,615	261,520	\$2,050,317	1,878	206,606	\$1,245,834	811	105,390	\$446,854	5,304	573,516	\$3,743,005
<b>Estuary Total</b>		<b>2,730</b>	<b>272,974</b>	<b>\$2,140,116</b>	<b>2,048</b>	<b>225,323</b>	<b>\$1,358,698</b>	<b>835</b>	<b>108,610</b>	<b>\$460,506</b>	<b>5,614</b>	<b>606,907</b>	<b>\$3,959,320</b>
<b>Brisbane Water</b>	Baskets	17	1,650	\$12,936	118	12,950	\$78,089	323	41,950	\$177,868	457	56,550	\$268,893
	Floating				11	1,200	\$7,236	5	650	\$2,756	16	1,850	\$9,992
	Long-line				66	7,300	\$44,019				66	7,300	\$44,019
	Raft/Pontoon	15	1,500	\$11,760	6	650	\$3,920				21	2,150	\$15,680
	Stick	90	9,000	\$70,560	160	17,623	\$106,267	420	54,587	\$231,449	670	81,210	\$408,276
	Tray	226	22,615	\$177,302	313	34,381	\$207,317	355	46,108	\$195,498	893	103,104	\$580,117
<b>Estuary Total</b>		<b>348</b>	<b>34,765</b>	<b>\$272,558</b>	<b>674</b>	<b>74,104</b>	<b>\$446,847</b>	<b>1,102</b>	<b>143,295</b>	<b>\$607,571</b>	<b>2,124</b>	<b>252,164</b>	<b>\$1,326,976</b>
<b>Hawkesbury River</b>	Tray							42	5,500	\$23,320	42	5,500	\$23,320
<b>Estuary Total</b>								<b>42</b>	<b>5,500</b>	<b>\$23,320</b>	<b>42</b>	<b>5,500</b>	<b>\$23,320</b>
<b>Shoalhaven River</b>	Baskets	1	100	\$784	25	2,696	\$16,257	23	2,994	\$12,695	49	5,790	\$29,735
	Floating				24	2,668	\$16,088	5	668	\$2,832	29	3,336	\$18,920
	Long-line				24	2,666	\$16,076	5	666	\$2,824	29	3,332	\$18,900
	Tray	139	13,876	\$108,788	67	7,334	\$44,224	47	6,095	\$25,843	252	27,305	\$178,855
<b>Estuary Total</b>		<b>140</b>	<b>13,976</b>	<b>\$109,572</b>	<b>140</b>	<b>15,364</b>	<b>\$92,645</b>	<b>80</b>	<b>10,423</b>	<b>\$44,194</b>	<b>360</b>	<b>39,763</b>	<b>\$246,410</b>
<b>Crookhaven River</b>	Baskets	267	26,697	\$209,304	211	23,195	\$139,866	175	22,799	\$96,668	653	72,691	\$445,838
	Floating	4	400	\$3,136							4	400	\$3,136
	Long-line				9	1,000	\$6,030	76	9,850	\$41,764	85	10,850	\$47,794
	Slats							61	7,943	\$33,678	61	7,943	\$33,678
	Tray	79	7,915	\$62,054	103	11,285	\$68,049	126	16,350	\$69,324	308	35,550	\$199,426
<b>Estuary Total</b>		<b>350</b>	<b>35,012</b>	<b>\$274,494</b>	<b>323</b>	<b>35,480</b>	<b>\$213,944</b>	<b>438</b>	<b>56,942</b>	<b>\$241,434</b>	<b>1,111</b>	<b>127,434</b>	<b>\$729,873</b>
<b>Clyde River</b>	Baskets	75	7,469	\$58,557	158	17,426	\$105,079	340	44,136	\$187,137	573	69,031	\$350,772
	Floating	40	4,000	\$31,360	27	3,000	\$18,090				67	7,000	\$49,450
	Stick	115	11,499	\$90,152	49	5,399	\$32,556	302	39,205	\$166,229	466	56,103	\$288,937
	Tray	1,149	114,850	\$900,424	1,930	212,339	\$1,280,404	2,237	290,871	\$1,233,293	5,316	618,060	\$3,414,121
<b>Estuary Total</b>		<b>1,378</b>	<b>137,818</b>	<b>\$1,080,493</b>	<b>2,165</b>	<b>238,164</b>	<b>\$1,436,129</b>	<b>2,879</b>	<b>374,212</b>	<b>\$1,586,659</b>	<b>6,422</b>	<b>750,194</b>	<b>\$4,103,281</b>

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 (\$)
<b>Tuross Lake</b>	Baskets	113	11,300	\$88,592	187	20,600	\$124,218	99	12,900	\$54,696	400	44,800	\$267,506
	Tray	118	11,830	\$92,747	116	12,814	\$77,268	104	13,509	\$57,278	339	38,153	\$227,294
<b>Estuary Total</b>		<b>231</b>	<b>23,130</b>	<b>\$181,339</b>	<b>304</b>	<b>33,414</b>	<b>\$201,486</b>	<b>203</b>	<b>26,409</b>	<b>\$111,974</b>	<b>738</b>	<b>82,953</b>	<b>\$494,800</b>
<b>Wagonga Inlet</b>	Baskets	15	1,500	\$11,760	19	2,100	\$12,663	9	1,200	\$5,088	43	4,800	\$29,511
	Long-line	1	100	\$784	15	1,700	\$10,251	48	6,300	\$26,712	65	8,100	\$37,747
	Tray	406	40,576	\$318,116	919	101,117	\$609,736	581	75,465	\$319,972	1,906	217,158	\$1,247,823
<b>Estuary Total</b>		<b>422</b>	<b>42,176</b>	<b>\$330,660</b>	<b>954</b>	<b>104,917</b>	<b>\$632,650</b>	<b>638</b>	<b>82,965</b>	<b>\$351,772</b>	<b>2,014</b>	<b>230,058</b>	<b>\$1,315,081</b>
<b>Wapengo Lake</b>	Baskets	6	600	\$4,704	13	1,375	\$8,291	15	1,950	\$8,268	34	3,925	\$21,263
	Raft/Pontoon							12	1,600	\$6,784	12	1,600	\$6,784
	Stick	2	200	\$1,568	13	1,375	\$8,291	15	1,950	\$8,268	30	3,525	\$18,127
	Tray	119	11,856	\$92,951	345	37,946	\$228,814	209	27,108	\$114,938	672	76,910	\$436,703
<b>Estuary Total</b>		<b>127</b>	<b>12,656</b>	<b>\$99,223</b>	<b>370</b>	<b>40,696</b>	<b>\$245,397</b>	<b>251</b>	<b>32,608</b>	<b>\$138,258</b>	<b>747</b>	<b>85,960</b>	<b>\$482,878</b>
<b>Merimbula Lake</b>	Baskets				9	1,000	\$6,030	9	1,105	\$4,685	18	2,105	\$10,715
	Floating	32	3,185	\$24,970	26	2,910	\$17,547	34	4,440	\$18,826	92	10,535	\$61,343
	Long-line	51	5,100	\$39,984	58	6,332	\$38,182	10	1,300	\$5,512	119	12,732	\$83,678
	Stick	284	28,400	\$222,656							284	28,400	\$222,656
	Tray	402	40,167	\$314,909	343	37,685	\$227,241	924	120,071	\$509,101	1,668	197,923	\$1,051,251
<b>Estuary Total</b>		<b>769</b>	<b>76,852</b>	<b>\$602,520</b>	<b>436</b>	<b>47,927</b>	<b>\$289,000</b>	<b>976</b>	<b>126,916</b>	<b>\$538,124</b>	<b>2,180</b>	<b>251,695</b>	<b>\$1,429,643</b>
<b>Pambula River</b>	Baskets	94	9,362	\$73,398	52	5,688	\$34,299	77	9,951	\$42,192	222	25,001	\$149,889
	Floating	23	2,264	\$17,750	37	4,067	\$24,524	15	1,981	\$8,399	75	8,312	\$50,673
	Long-line	2	230	\$1,803	1	150	\$905	1	90	\$382	4	470	\$3,089
	Raft/Pontoon	1	83	\$651	8	840	\$5,065	10	1,340	\$5,682	19	2,263	\$11,398
	Slats	1	87	\$682							1	87	\$682
	Stick				1	69	\$416	3	371	\$1,573	3	440	\$1,989
<b>Estuary Total</b>		<b>405</b>	<b>40,472</b>	<b>\$317,300</b>	<b>455</b>	<b>50,038</b>	<b>\$301,729</b>	<b>696</b>	<b>90,416</b>	<b>\$383,364</b>	<b>1,555</b>	<b>180,926</b>	<b>\$1,002,393</b>
<b>Wonboyn River</b>	Baskets	12	1,200	\$9,408	23	2,500	\$15,075	8	1,000	\$4,240	42	4,700	\$28,723
	Floating	245	24,548	\$192,456	88	9,650	\$58,190	38	4,950	\$20,988	371	39,148	\$271,634
	Long-line	72	7,189	\$56,362	20	2,229	\$13,441	8	1,000	\$4,240	100	10,418	\$74,043
	Stick	20	2,000	\$15,680	9	1,000	\$6,030	4	500	\$2,120	33	3,500	\$23,830

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 (\$)
	Tray	9	939	\$7,362	19	2,048	\$12,349	16	2,035	\$8,628	44	5,022	\$28,340
<b>Estuary Total</b>		<b>359</b>	<b>35,876</b>	<b>\$281,268</b>	<b>158</b>	<b>17,427</b>	<b>\$105,085</b>	<b>73</b>	<b>9,485</b>	<b>\$40,216</b>	<b>590</b>	<b>62,788</b>	<b>\$426,569</b>
<b>Others</b>	Baskets	20	2,000	\$15,680	15	1,700	\$10,251	102	13,250	\$56,180	137	16,950	\$82,111
	Floating	10	1,045	\$8,193	37	4,113	\$24,801	132	17,100	\$72,504	179	22,258	\$105,498
	Long-line	5	475	\$3,724	18	1,988	\$11,988	12	1,553	\$6,585	35	4,016	\$22,296
	Raft/Pontoon	392	39,200	\$307,328	324	35,590	\$214,608	56	7,250	\$30,740	772	82,040	\$552,676
	Tray	807	80,702	\$632,704	549	60,380	\$364,091	404	52,463	\$222,443	1,760	193,545	\$1,219,238
<b>Others Total</b>		<b>1,234</b>	<b>123,422</b>	<b>\$967,628</b>	<b>943</b>	<b>103,771</b>	<b>\$625,739</b>	<b>706</b>	<b>91,616</b>	<b>\$388,452</b>	<b>2,883</b>	<b>318,809</b>	<b>\$1,981,819</b>
<b>TOTALS</b>		<b>15,414</b>	<b>1,541,429</b>	<b>\$12,084,803</b>	<b>18,239</b>	<b>2,006,351</b>	<b>\$12,098,297</b>	<b>21,557</b>	<b>2,802,298</b>	<b>\$11,881,744</b>	<b>55,211</b>	<b>6,350,078</b>	<b>\$36,064,843</b>

\*\* 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 & \$ 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	49	4,860	\$38,102							49	4,860	\$38,102
Interstate	2,346	234,648	\$1,839,640	3,162	347,854	\$2,097,560	5,098	662,758	\$2,810,094	10,607	1,245,260	\$6,747,294
Local	3,443	344,270	\$2,699,077	4,071	447,811	\$2,700,300	4,847	630,119	\$2,671,705	12,361	1,422,200	\$8,071,082
NSW (Other than Sydney)	1,099	109,863	\$861,326	1,625	178,772	\$1,077,995	2,051	266,635	\$1,130,532	4,775	555,270	\$3,069,853
Sydney	8,478	847,788	\$6,646,658	9,381	1,031,914	\$6,222,441	9,560	1,242,786	\$5,269,413	27,419	3,122,488	\$18,138,512
<b>Totals</b>	<b>15,414</b>	<b>1,541,429</b>	<b>\$12,084,803</b>	<b>18,240</b>	<b>2,006,351</b>	<b>\$12,098,297</b>	<b>21,556</b>	<b>2,802,298</b>	<b>\$11,881,744</b>	<b>55,210</b>	<b>6,350,078</b>	<b>\$36,064,843</b>

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	742	74,190	\$581,650	1,111	122,261	\$737,234	1,647	214,145	\$907,975	3,501	410,596	\$2,226,858
Floating	386	38,595	\$302,585	290	31,858	\$192,104	334	43,389	\$183,969	1,009	113,842	\$678,658
Long-line	176	17,594	\$137,937	258	28,365	\$171,041	162	21,093	\$89,434	596	67,052	\$398,412
Raft/Pontoon	1,274	127,382	\$998,675	1,012	111,282	\$671,030	1,396	181,439	\$769,301	3,681	420,103	\$2,439,007
Slats	1	87	\$682				61	7,943	\$33,678	62	8,030	\$34,360
Stick	1,545	154,504	\$1,211,311	1,955	215,072	\$1,296,884	3,740	486,172	\$2,061,369	7,240	855,748	\$4,569,565
Tray	11,291	1,129,077	\$8,851,964	13,614	1,497,513	\$9,030,003	14,216	1,848,117	\$7,836,016	39,121	4,474,707	\$25,717,983
<b>Totals</b>	<b>15,414</b>	<b>1,541,429</b>	<b>\$12,084,803</b>	<b>18,240</b>	<b>2,006,351</b>	<b>\$12,098,297</b>	<b>21,556</b>	<b>2,802,298</b>	<b>\$11,881,744</b>	<b>55,210</b>	<b>6,350,078</b>	<b>\$36,064,843</b>

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

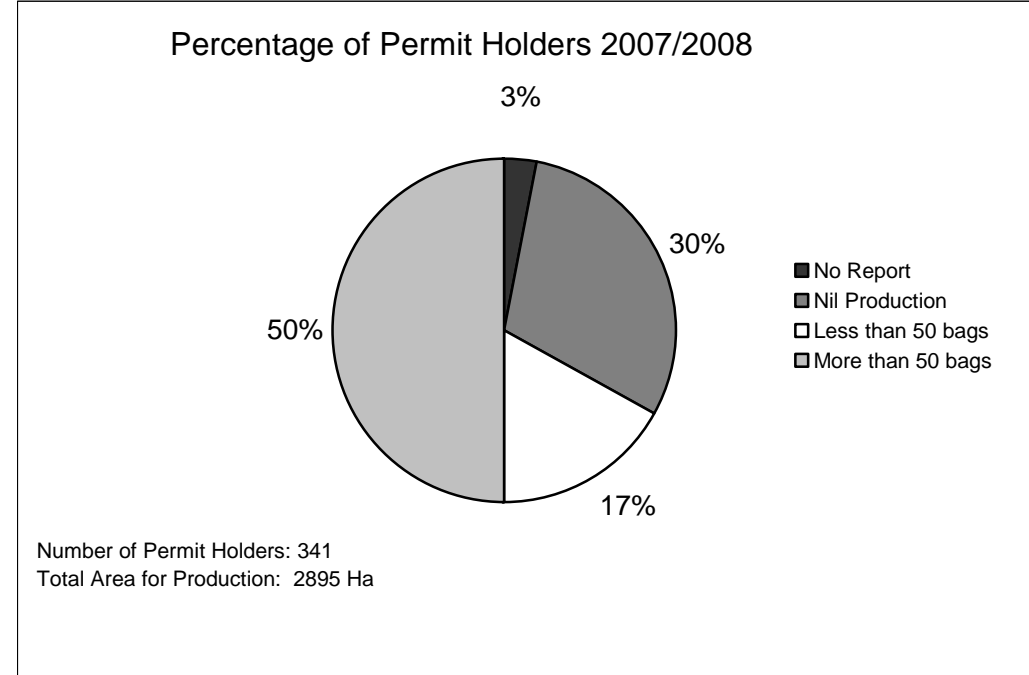
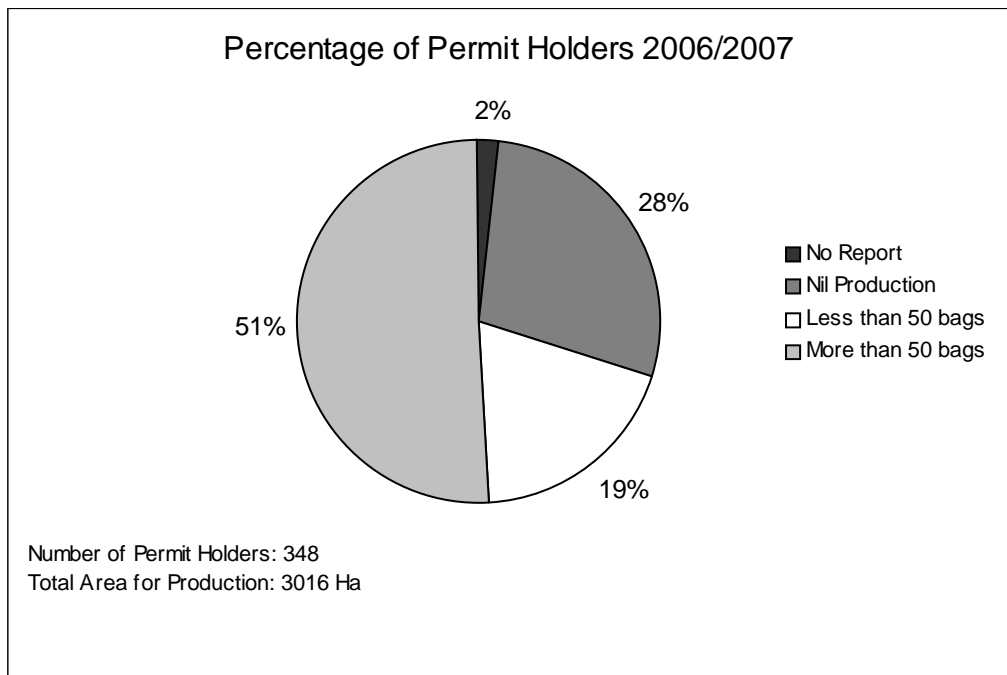
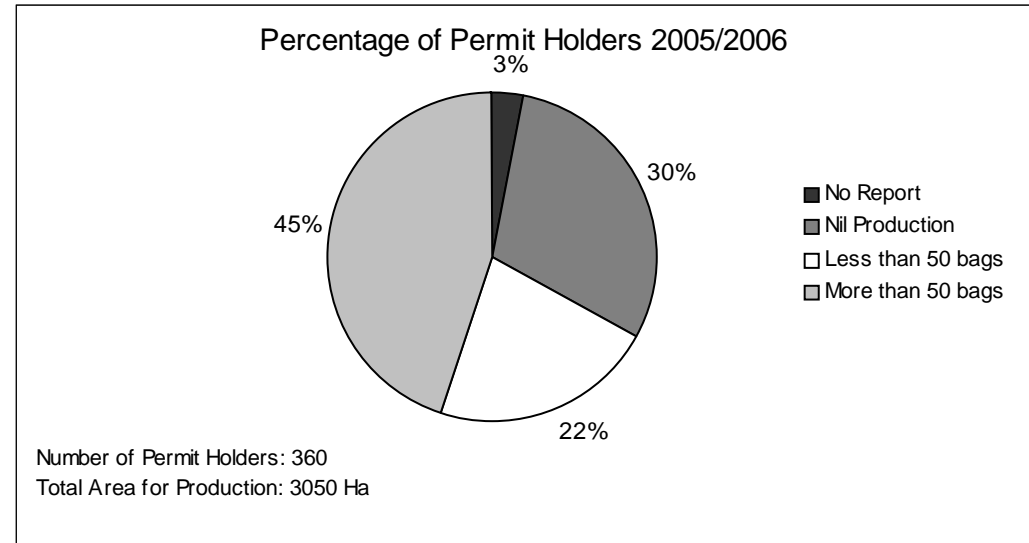
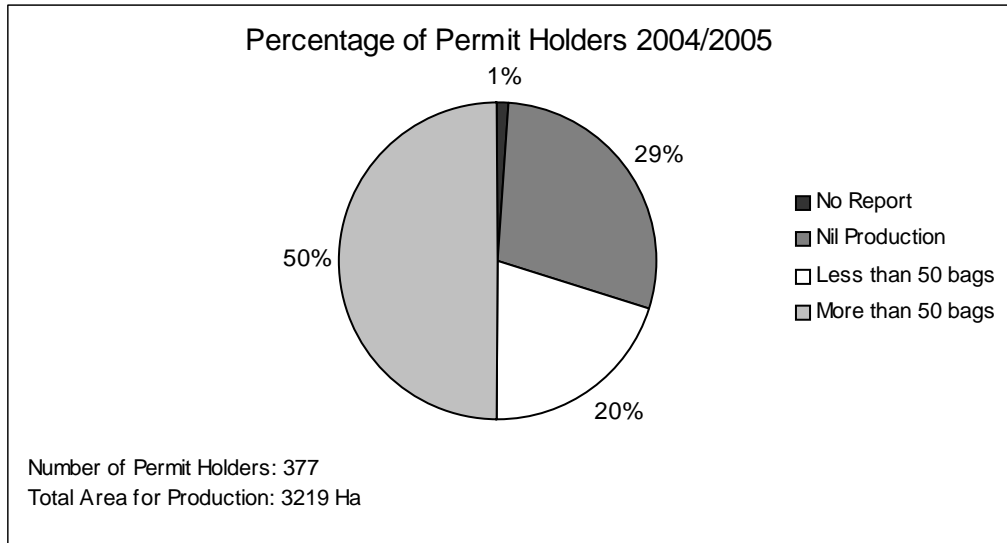
**Table 8: Sydney Rock Oyster Sales by Permit Holders**

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 *	3	30	11 (17)	6 (8)	18 (27)	9 (14)	8 (12)	8 (12)	5 (7)	2 (3)	100
Number of Permit Holders	10	103	36	19	61	32	28	28	17	7	341
Quantity Produced (bags)	0	0	430	764	4,340	4,093	5,486	9,537	12,254	18,297	55,201
Quantity Produced (dozens)	0	0	48,944	85,824	495,168	462,210	617,419	1,088,236	1,431,161	2,121,116	6,350,078
Percentage of production (dozens)			1	1	8	7	10	17	23	33	100
Total Value (\$)			\$282,081	\$514,021	\$2,862,778	\$2,730,442	\$3,682,213	\$6,300,156	\$7,873,037	\$11,820,116	\$36,064,844

\* 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	322	32,181	\$252,299	401	44,137	\$266,146	268	34,789	\$147,505	991	111,107	\$665,950
Macleay River	50	4,982	\$39,059	116	12,762	\$76,955	362	47,020	\$199,365	528	64,764	\$315,379
Hastings River	323	32,253	\$252,864	683	75,111	\$452,919	920	119,559	\$506,930	1,926	226,923	\$1,212,713
Camden Haven	785	78,450	\$615,048	469	51,615	\$311,238	662	86,030	\$364,767	1,916	216,095	\$1,291,053
Manning River	239	23,911	\$187,462	184	20,246	\$122,083	205	26,666	\$113,064	628	70,823	\$422,609
Wallis Lake	5,205	520,523	\$4,080,900	7,417	815,855	\$4,919,606	10,222	1,328,837	\$5,634,269	22,844	2,665,215	\$14,634,775
Port Stephens	2,730	272,974	\$2,140,116	2,048	225,323	\$1,358,698	835	108,610	\$460,506	5,613	606,907	\$3,959,320
Brisbane Water	348	34,765	\$272,558	674	74,104	\$446,847	1,102	143,295	\$607,571	2,124	252,164	\$1,326,976
Hawkesbury River							42	5,500	\$23,320	42	5,500	\$23,320
Shoalhaven River	140	13,976	\$109,572	140	15,364	\$92,645	80	10,423	\$44,194	360	39,763	\$246,411
Crookhaven River	350	35,012	\$274,494	323	35,480	\$213,944	438	56,942	\$241,434	1,111	127,434	\$729,872
Clyde River	1,378	137,818	\$1,080,493	2,165	238,164	\$1,436,129	2,879	374,212	\$1,586,659	6,422	750,194	\$4,103,281
Tuross Lake	231	23,130	\$181,339	304	33,414	\$201,486	203	26,409	\$111,974	738	82,953	\$494,799
Wagonga Inlet	422	42,176	\$330,660	954	104,917	\$632,650	638	82,965	\$351,772	2,014	230,058	\$1,315,082
Wapengo Lake	127	12,656	\$99,223	370	40,696	\$245,397	251	32,608	\$138,258	748	85,960	\$482,878
Merimbula Lake	769	76,852	\$602,520	436	47,927	\$289,000	976	126,916	\$538,124	2,181	251,695	\$1,429,644
Pambula River	405	40,472	\$317,300	455	50,038	\$301,729	696	90,416	\$383,364	1,556	180,926	\$1,002,393
Wonboyn River	359	35,876	\$281,268	158	17,427	\$105,085	73	9,485	\$40,216	590	62,788	\$426,569
**Others	1,234	123,422	\$967,628	943	103,771	\$625,739	705	91,616	\$388,452	2,883	318,809	\$1,981,822
<b>Totals</b>	<b>15,414</b>	<b>1,541,429</b>	<b>\$12,084,803</b>	<b>18,239</b>	<b>2,006,351</b>	<b>\$12,098,296</b>	<b>21,556</b>	<b>2,802,298</b>	<b>\$11,881,744</b>	<b>55,215</b>	<b>6,350,078</b>	<b>\$36,064,846</b>

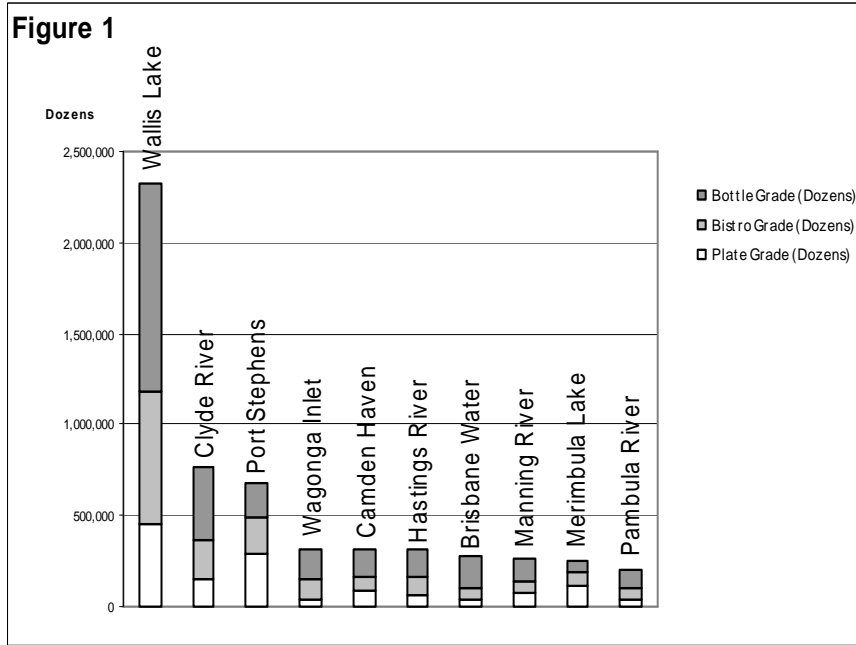
\*\*Others not named for confidentiality include Tweed River, Richmond River, Clarence River, Woolli Woolli River, Bellinger River, Hunter River, Botany Bay, Bermagui River & Nelson Lagoon.

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

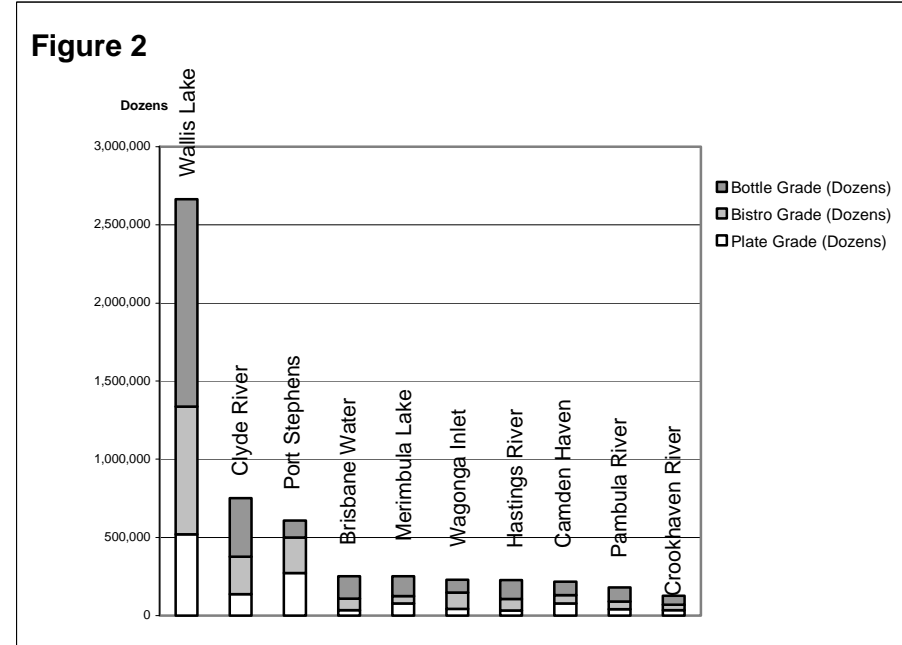


# Figure C: Comparative Graphs: Sydney Rock Oyster (SRO) Production

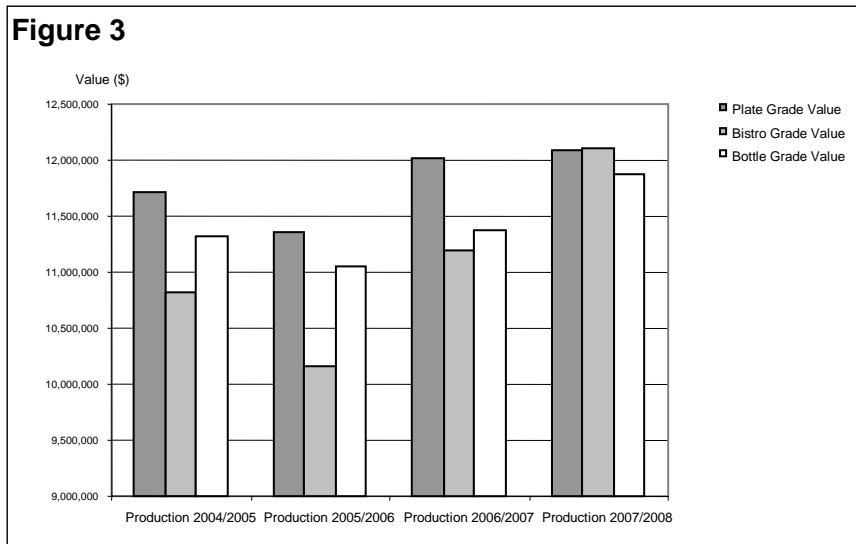
The ten most productive estuaries for the cultivation and sale of SRO in 2006/2007



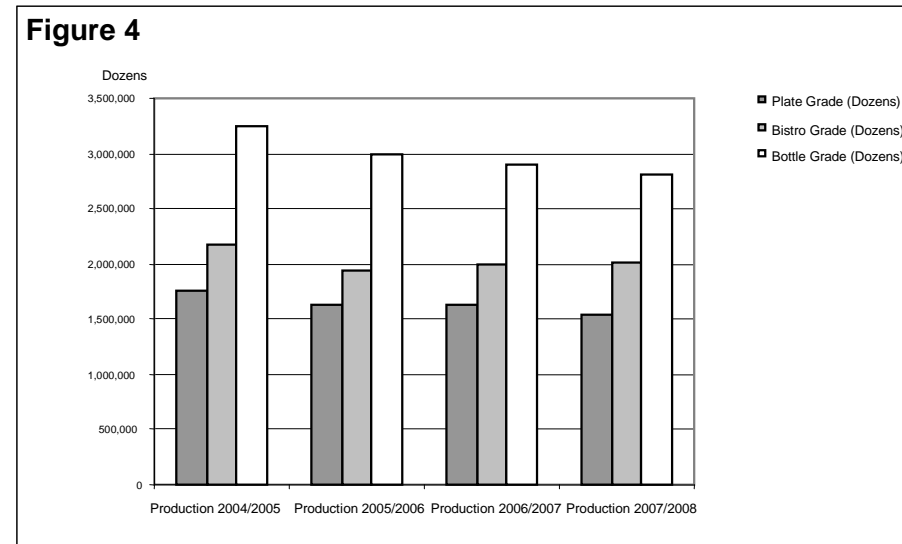
The ten most productive estuaries for cultivation and sale of SRO in 2007/2008



Value of plate, bistro and bottle/cocktail grade SRO production in 2004/2005, 2005/2006 and 2006/2007 compared to 2007/2008



The quantity of plate, bistro and bottle/cocktail grade SRO production in 2004/2005, 2005/2006 and 2006/2007 compared to 2007/2008



**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 (\$)
<b>Total</b>	<b>1,603</b>	<b>121,817</b>	<b>\$808,865</b>	<b>554</b>	<b>66,460</b>	<b>\$368,853</b>	<b>183</b>	<b>27,398</b>	<b>\$120,825</b>	<b>2,339</b>	<b>215,675</b>	<b>\$1,298,544</b>

**Table 11: Pacific Oyster Sales by Production Method**

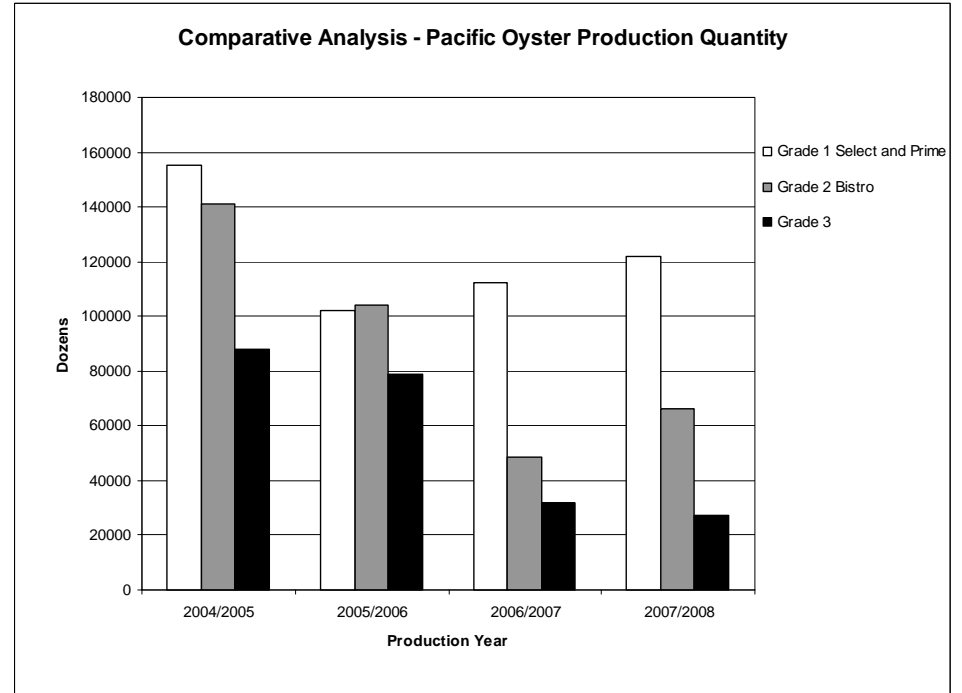
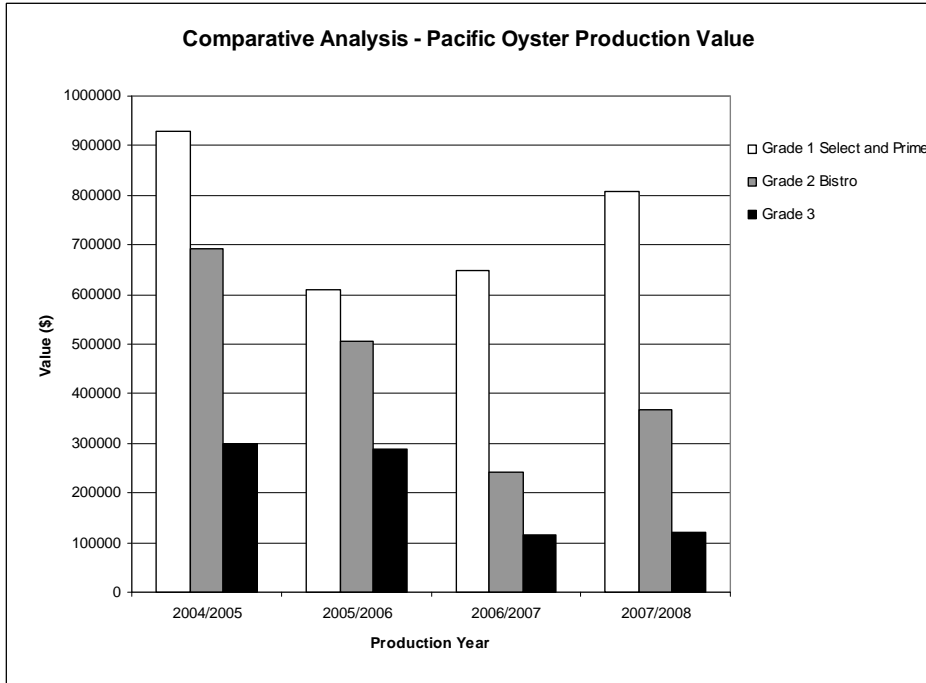
Type of Cultivation	Grade 1			Grade 2			Grade 3			Total		
	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)	Bags	Dozens	Value (\$)
<b>Baskets</b>	522	39,637	\$263,190	258	30,938	\$171,706	53	7,917	\$34,914	833	78,492	\$469,810
<b>Long-line</b>	743	56,485	\$375,060	133	16,009	\$88,850	74	11,118	\$49,030	950	83,612	\$512,940
<b>Stick</b>				2	250	\$1,388	33	5,000	\$22,050	35	5,250	\$23,438
<b>Tray</b>	338	25,695	\$170,615	161	19,263	\$106,910	22	3,363	\$14,831	521	48,321	\$292,356
<b>Total</b>	<b>1,603</b>	<b>121,817</b>	<b>\$808,865</b>	<b>554</b>	<b>66,460</b>	<b>\$368,853</b>	<b>183</b>	<b>27,398</b>	<b>\$120,825</b>	<b>2,339</b>	<b>215,675</b>	<b>\$1,298,544</b>

**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 (\$)
<b>Interstate</b>	324	24,602	\$163,357	152	18,183	\$100,916	24	3,608	\$15,911	500	46,393	\$280,184
<b>Local</b>	381	28,979	\$192,421	149	17,880	\$99,234	45	6,700	\$29,547	575	53,559	\$321,202
<b>NSW (Other than Sydney)</b>	287	21,808	\$144,805	137	16,442	\$91,253	98	14,655	\$64,629	522	52,905	\$300,687
<b>Sydney</b>	611	46,428	\$308,282	116	13,955	\$77,450	16	2,435	\$10,738	743	62,818	\$396,470
<b>Total</b>	<b>1,603</b>	<b>121,817</b>	<b>\$808,865</b>	<b>554</b>	<b>66,460</b>	<b>\$368,853</b>	<b>183</b>	<b>27,398</b>	<b>\$120,825</b>	<b>2,340</b>	<b>215,675</b>	<b>\$1,298,543</b>

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

**Figure D: Comparative Graphs – Pacific Oyster Production**



**Table 13: Spat Production Value by Cultivation Method**

Type of Cultivation	Large Spat (\$)	Medium Spat (\$)	Small Spat (\$)	Total Value (\$)
Hatchery Single Seed	\$28,200	\$71,200	\$336,400	\$435,800
Stick	\$271,150	\$4,980	\$40,440	\$316,570
Wild Caught Single Seed	\$652,015	\$265,370	\$227,400	\$1,144,785
<b>Total Value</b>	<b>\$951,365</b>	<b>\$341,550</b>	<b>\$604,240</b>	<b>\$1,897,155</b>

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

**Table 14: Spat Sales by Estuary**

Estuary	Large Spat		Medium Spat		Small Spat		Total	
	Quantity	Value (\$)	Quantity	Value (\$)	Quantity	Value (\$)	Quantity	Value (\$)
Hastings River	4,957,766	\$368,960	8,533,000	\$205,420	6,745,000	\$204,900	20,235,766	\$779,280
Port Stephens	358,600	\$57,600	7,710,000	\$104,200	177,000	\$40,440	8,245,600	\$202,240
**Others	2,802,170	\$524,805	612,660	\$31,930	14,027,600	\$358,900	17,442,430	\$915,635
<b>Total</b>	<b>8,118,536</b>	<b>\$951,365</b>	<b>16,855,660</b>	<b>\$341,550</b>	<b>20,949,600</b>	<b>\$604,240</b>	<b>45,923,796</b>	<b>\$1,897,155</b>

\* Others not named for confidentiality reasons include: Tweed River, Clarence River, Wooli Wooli River, Bellinger River, Nambucca River, Macleay River, Camden Haven, Manning River, Wallis Lake, Hunter River, Shoalhaven River, Crookhaven River, Clyde River, Wagonga Inlet, Merimbula Lake & Nelson Lagoon.

## **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 \$784.00 per bag.

1 bag of Bistro Grade Oysters = 110 dozen @ a Farm Gate Price of \$663.30 per bag.

1 bag of Bottle/Cocktail Grade Oysters = 130 dozen @ a Farm Gate Price of \$551.20 per bag.

### **Pacific Oysters**

1 bag of Grade 1 (Select and Prime) Pacific Oysters = 76 dozen @ a Farm Gate Price of \$504.64 per bag.

1 bag of Grade 2 (Bistro) Pacific Oysters = 120 dozen @ a Farm Gate Price of \$666.00 per bag.

1 bag of Grade 3 (Mini) Pacific Oysters = 150 dozen @ a Farm Gate Price of \$661.50 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.