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Aquaculture Production Report 2013-2014



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Aquaculture Production Report 2013–2014

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Information presented in this publication is presented as a general representation of aquaculture production in NSW for the reporting period 1 July 2013 to 30 June 2014. 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.

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Table 1: Snapshot of Total Aquaculture Production for 2013/2014

Grouping	Common Name	Scientific Name	Production Kilograms	Average Price per production unit	Value (\$)
Crustaceans	Black Tiger Prawn	<i>Penaeus monodon</i>	287,307	\$15.64	\$4,494,632
	Yabby	<i>Cherax destructor</i>	6,322	\$10.25	\$64,789
	Yabby (bait)	<i>Cherax destructor</i>	11,200	\$19.63	\$219,827
Subtotal					\$4,779,248
Freshwater Fish	Barramundi	<i>Lates calcarifer</i>	58,813	\$15.94	\$937,648
	Golden Perch	<i>Macquaria ambigua</i>	484	\$10.54	\$5,101
	Longfinned Eel	<i>Anguilla reinhardtii</i>	33,600	\$10.46	\$351,360
	Murray Cod	<i>Maccullochella peelii</i>	85,292	\$16.86	\$1,438,089
	Rainbow Trout	<i>Oncorhynchus mykiss</i>	253,040	\$10.82	\$2,738,836
	Silver Perch	<i>Bidyanus bidyanus</i>	194,750	\$13.95	\$2,717,599
Subtotal					\$8,188,633
Marine Fish	Mulloway	<i>Argyrosomus japonicus</i>	92,918	\$11.00	\$1,022,098
Subtotal					\$1,022,098
Hatchery	Hatchery Species**				\$2,782,153
Subtotal					\$2,782,153
Molluscs	Sydney Rock Oyster	<i>Saccostrea glomerata</i>			\$31,844,593
	Pacific Oyster	<i>Crassostrea gigas</i>			\$2,114,696
	Native Oyster	<i>Ostrea angasi</i>			\$103,080
	Oyster Spat***				\$1,823,071
	Oyster Nursery Species****				\$117,625
Subtotal					\$36,003,065
Others*					\$589,614
Total Value \$					\$53,364,811

*Not available for confidentiality reasons (e.g. ≤ 5 farms authorised to cultivate species). Species include: Australian Paratya (*Paratya australiensis*), Blue Mussel (*Mytilus galloprovincialis*), Eastern Yabby (*Cherax rotundus setosus*), Floodplain Mussel (*Vesunio ambiguus*), Native Oyster (*Ostrea angasi*; nursery cultivated), Pearl Oyster (*Pinctada imbricata*) and Tube Worm (*Diopatra aciculata*)

** Refer to Table 3 of the Report. *** Refer to Table 7 of the Report **** Refer to Table 2 of the Report.

Table 2: Fish, Crustacean and Mollusc Land Based Production for 2013/2014

Grouping	Common Name	Scientific Name	Production (kg)	Average Price per Production Unit	Value (\$)
Crustaceans	Black Tiger Prawn	<i>Penaeus monodon</i>	287,307	\$15.64	\$4,494,632
	Yabby	<i>Cherax destructor</i>	6,322	\$10.25	\$64,789
	Yabby (bait)	<i>Cherax destructor</i>	11,200	\$19.63	\$219,827
Subtotal					\$4,779,248
Freshwater Fish	Barrumundi	<i>Lates calcarifer</i>	58,813	\$15.94	\$937,648
	Golden Perch	<i>Macquaria ambigua</i>	484	\$10.54	\$5,101
	Longfinned Eel	<i>Anguilla reinhardtii</i>	33,600	\$10.46	\$351,360
	Murray Cod	<i>Maccullochella peelii</i>	85,292	\$16.86	\$1,438,089
	Rainbow Trout	<i>Oncorhynchus mykiss</i>	253,040	\$10.82	\$2,738,836
	Silver Perch	<i>Bidyanus bidyanus</i>	194,750	\$13.95	\$2,717,599
Subtotal					\$8,188,633
Marine Fish	Mulloway	<i>Argyrosomus japonicus</i>	92,918	\$11.00	\$1,022,098
Subtotal					\$1,022,098
Molluscs	Sydney Rock Oyster**	<i>Saccostrea glomerata</i>			\$117,625
	Floodplain Mussel	<i>Velesunio ambiguus</i>			\$20,140
Subtotal					\$137,765
Others*					\$326,300
Total Value (\$)					\$14,454,044

* Not available for confidentiality reasons (e.g. ≤ 5 farms authorised to cultivate species). Species include: Australian Paratya (*Paratya australiensis*), Eastern Yabby (*Cherax rotundus setosus*), Native Oyster (*Ostrea angasi*; nursery cultivated) and Tube Worm (*Diopatra aciculata*)

** Cultivated in a nursery under a land-based aquaculture permit.

Figure A: Comparison of Land Based Aquaculture Production for 2013/2014 by Species by Year

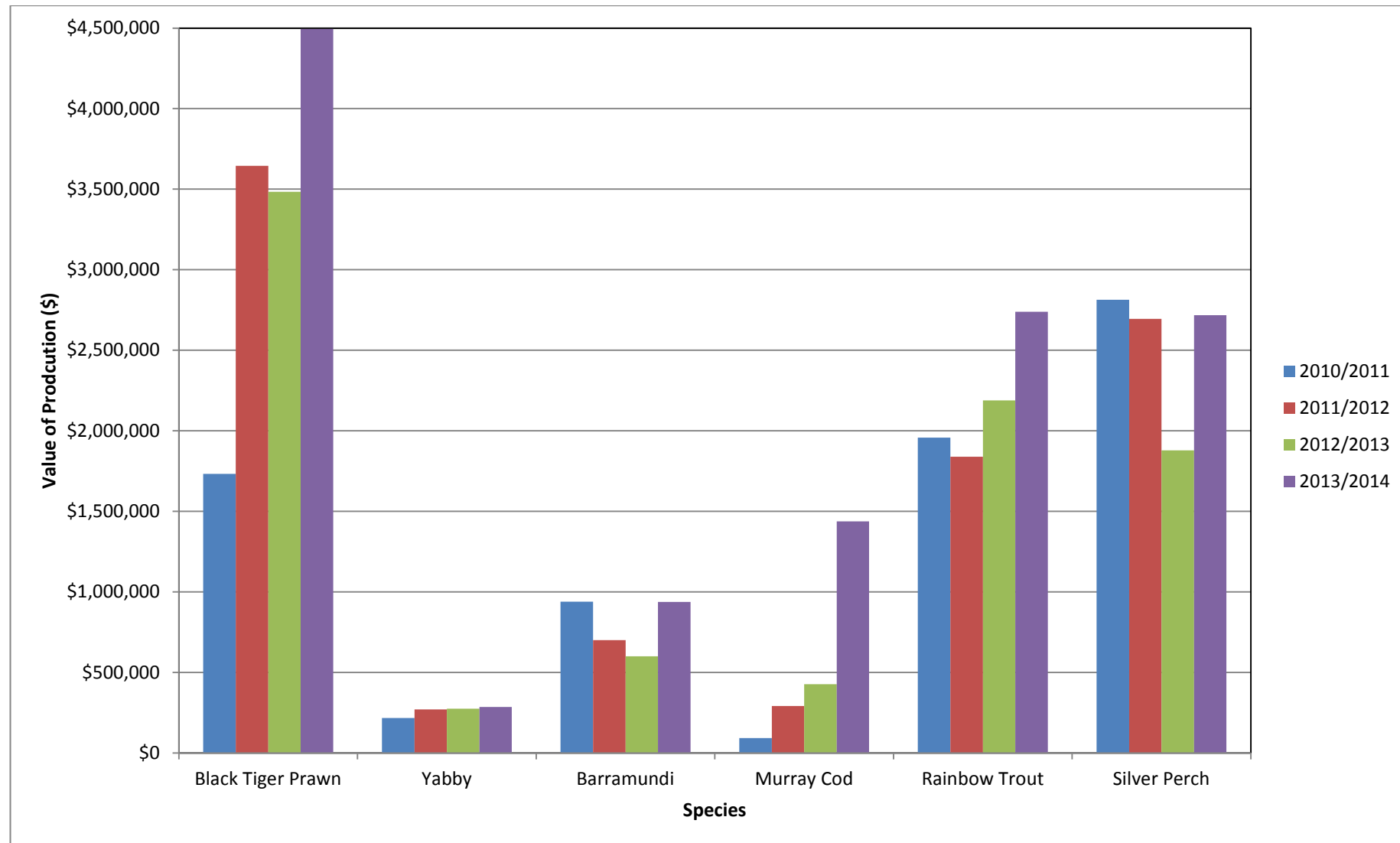


Table 3: Commercial Hatchery Production for 2013/2014

Grouping	Common Name	Scientific Name	Production (Individuals)	Average Price per Production Unit	Value (\$)
Aquarium Species	Aquarium Species***		**	**	\$164,656
	Koi Carp	<i>Cyprinus carpio</i>	135,580	\$1.82	\$246,390
Subtotal					\$411,046
Freshwater Fish	Australian Bass	<i>Macquaria novemaculeate</i>	604,617	\$0.54	\$326,810
	Eel Tailed Catfish	<i>Tandanus tandanus</i>	5,691	\$2.26	\$12,872
	Golden Perch	<i>Macquaria ambigua</i>	1,989,935	\$0.32	\$634,387
	Murray Cod	<i>Maccullochella peelii</i>	1,852,292	\$0.43	\$793,979
	Rainbow Trout	<i>Oncorhynchus mykiss</i>	33,160	\$0.74	\$24,645
	Silver Perch	<i>Bidyanus bidyanus</i>	625,300	\$0.31	\$194,832
Subtotal					\$1,987,525
Marine Fish	Mulloway	<i>Argyrosomus japonicus</i>	250,000	\$0.02	\$3,750
Subtotal					\$3,750
Others*					\$379,832
Total Value (\$)					\$2,782,153

* Not available for confidentiality reasons (e.g. ≤ 5 farms authorised to cultivate species). Species include: Black Tiger Prawn (*Penaeus monodon*), Brown Trout (*Salmo trutta*), Estuary Perch (*Macquaria colonorum*), Native Oyster (*Ostrea angasi*; hatchery cultivated) and Sydney Rock Oyster (*Saccostrea glomerata*; hatchery cultivated).

** Quantity and average price not recorded due to range of species. *** Includes goldfish (*Carassius auratus*).

Table 4: Sydney Rock Oyster Production by Estuary and Grade for 2013/2014

Estuary	Large Grade (>70mm total length or >50g whole weight)		Medium Grade (55-70mm total length or 30-50g whole weight)		Small Grade (<55mm total length or < 30g whole weight)		Total	
	Dozens	Value (\$)	Dozens	Value (\$)	Dozens	Value (\$)	Dozens	Value (\$)
Nambucca River	18,415	\$167,577	42,916	\$299,125	87,635	\$439,051	148,966	\$905,752
Macleay River	4,238	\$38,566	6,711	\$46,776	21,845	\$109,443	32,794	\$194,785
Hastings River	29,038	\$264,246	160,479	\$1,118,539	42,834	\$214,598	232,351	\$1,597,383
Camden Haven	76,133	\$692,810	61,684	\$429,937	64,783	\$324,563	202,600	\$1,447,311
Manning River	25,006	\$227,555	24,333	\$169,601	25,248	\$126,492	74,587	\$523,648
Wallis Lake	161,918	\$1,473,454	456,442	\$3,181,401	608,168	\$3,046,922	1,226,528	\$7,701,776
Port Stephens	227,190	\$2,067,429	201,335	\$1,403,305	189,441	\$949,099	617,966	\$4,419,833
Brisbane Water	6,800	\$61,880	23,636	\$164,743	58,999	\$295,585	89,435	\$522,208
Hawkesbury River	7,087	\$64,492	10,064	\$70,146	9,390	\$47,044	26,541	\$181,682
Crookhaven River	36,288	\$330,221	105,266	\$733,704	75,865	\$380,084	217,419	\$1,444,008
Clyde River	92,166	\$838,711	243,925	\$1,700,157	290,950	\$1,457,660	627,041	\$3,996,527
Tuross Lake	25,897	\$235,663	36,727	\$255,987	6,025	\$30,185	68,649	\$521,835
Wagonga Inlet	51,730	\$470,743	82,457	\$574,725	119,544	\$598,915	253,731	\$1,644,384
Wapengo Lake	11,933	\$108,590	44,050	\$307,029	20,945	\$104,934	76,928	\$520,553
Merimbula Lake	61,117	\$556,165	172,214	\$1,200,332	132,464	\$663,645	365,795	\$2,420,141
Pambula River	63,835	\$580,899	116,085	\$809,112	36,605	\$183,391	216,525	\$1,573,402
Wonboyn River	20,888	\$190,081	26,955	\$187,876	31,176	\$156,192	79,019	\$534,149
Others*	99,204	\$902,756	70,172	\$489,099	60,551	\$303,361	229,927	\$1,695,216
Total	1,018,883	\$9,271,835	1,885,451	\$13,141,593	1,882,468	\$9,431,165	4,786,802	\$31,844,593

* Not available for confidentiality reasons (≤ 5 permits in the estuary). Others include: Bellinger River, Bermagui River, Botany Bay, Clarence River, Nelson Lagoon, Richmond River, Shoalhaven River, Tweed River and Wooli Wooli River.

Table 5: Sydney Rock Oyster Production – 2010/2011, 2011/2012, 2012/2013 & 2013/2014 by Estuary and Grade

Estuary	Large Grade (>70mm total length or >50g whole weight)				Medium Grade (55-70mm total length or 30-50g whole weight)				Small Grade (<55mm total length or < 30g whole weight)				Total Dozens			
	2010/11	2011/12	2012/13	2013/14	2010/11	2011/12	2012/13	2013/14	2010/11	2011/12	2012/13	2013/14	2010/11	2011/12	2012/13	2013/14
Nambucca River	37,457	19,756	22,565	18,415	69,349	31,163	31,238	42,916	35,715	41,439	60,794	87,635	142,521	92,358	114,597	148,996
Macleay River	3,836	3,178	3,022	4,238	8,699	5,398	7,012	6,711	14,777	14,001	18,924	21,845	27,312	22,577	28,958	32,794
Hastings River	35,204	27,455	26,674	29,038	87,363	71,132	70,386	160,479	139,007	105,588	85,641	42,834	261,574	204,175	182,701	232,351
Camden Haven	72,701	46,794	36,172	76,133	68,810	35,380	26,905	61,684	98,354	46,426	70,837	64,783	239,865	128,600	133,914	202,600
Manning River	7,595	27,090	17,375	25,006	9,636	43,460	45,879	24,333	9,934	75,425	60,654	25,248	27,165	145,975	123,908	74,587
Wallis Lake	242,399	190,157	168,060	161,918	558,465	428,704	543,943	456,442	985,800	711,842	627,404	608,168	1,786,664	1,330,703	1,339,407	1,226,528
Port Stephens	310,949	314,194	286,344	227,190	237,396	206,528	181,741	201,335	162,167	144,252	104,347	189,441	710,512	664,974	572,432	617,966
Brisbane Water	38,935	28,484	7,069	6,800	52,167	59,948	25,302	23,636	99,680	113,038	114,712	58,999	190,782	201,470	147,083	89,435
Hawkesbury River	3,428	274	3,424	7,087	3,327	1,398	588	10,064	0	0	0	9,390	6,755	1,672	4,012	26,541
Crookhaven River	16,356	15,719	11,082	36,288	19,465	49,307	110,022	105,266	21,830	80,805	67,762	75,865	57,651	145,831	188,866	217,419
Clyde River	99,185	86,072	86,668	92,166	225,398	200,202	206,602	243,925	381,945	304,247	376,211	290,950	706,528	590,521	669,481	627,041
Tuross Lake	17,426	15,539	22,696	25,897	8,872	18,347	27,278	36,727	2,120	2,771	3,230	6,025	28,418	36,657	53,204	68,649
Wagonga Inlet	39,843	42,642	39,373	51,730	61,031	65,377	58,813	82,457	112,974	117,175	110,181	119,544	213,848	225,194	208,367	253,731
Wapengo Lake	13,482	9,156	9,442	11,933	27,183	37,054	39,338	44,050	10,742	22,008	20,745	20,945	51,407	68,218	69,525	76,928
Merimbula Lake	49,418	54,109	53,869	61,117	125,274	101,786	142,903	172,214	100,038	102,151	115,201	132,464	274,730	258,046	311,973	365,795
Pambula River	68,013	63,926	61,137	63,835	71,663	66,915	84,541	116,085	114,017	103,761	138,425	36,605	253,693	234,602	284,103	216,525
Wonboyn River	33,763	22,932	23,587	20,888	22,287	18,296	30,431	26,955	8,482	11,712	24,354	31,176	64,532	52,940	78,372	79,019
Others*	67,038	38,583	58,639	99,204	49,567	50,657	54,316	70,172	82,672	65,120	51,912	60,551	199,277	154,360	164,867	229,927
Total	1,157,028	1,006,060	937,198	1,018,883	1,705,952	1,491,052	1,687,238	1,885,451	2,380,254	2,061,761	2,051,334	1,882,468	5,243,234	4,558,873	4,675,770	4,786,802

* Not available for confidentiality reasons (≤ 5 permits in the estuary). Others include: Bellinger River, Bermagui River, Botany Bay, Clarence River, Nelson Lagoon, Richmond River, Shoalhaven River, Tweed River and Wooli Wooli River.

Table 6: Pacific Oyster Production – 2010/2011, 2011/2012, 2012/2013 & 2013/2014 by Estuary and Grade**

Estuary	Large Grade (> 85mm total length or > 70g whole weight)				Medium Grade (70- 85mm total length or 35 - 70g whole weight)				Small Grade (<70mm total length or < 35g whole weight)				Total Dozens			
	2010/11	2011/12	2012/13	2013/14	2010/11	2011/12	2012/13	2013/14	2010/11	2011/12	2012/13	2013/14	2010/11	2011/12	2012/13	2013/14
Wallis Lake	1,408	681	415	9,830	7,340	4,310	1,231	11,262	9,384	10,300	7,275	4,757	18,132	15,291	8,921	25,849
Port Stephens	83,734	100,726	119,834	43,915	52,647	104,219	49,581	34,695	42,062	78,909	39,231	22,904	178,443	283,854	208,646	101,514
Hawkesbury River	82,025	57,461	24,193	6,851	132,723	98,207	113,091	9,789	81,872	118,513	48,809	4,581	296,620	274,181	186,093	21,221
Crookhaven River	2,138	6,083	2,452	20,436	5,235	6,956	14,050	23,736	5,229	21,572	17,480	24,104	12,602	34,611	33,982	68,276
Clyde River	N/A	N/A	0	4,746	N/A	N/A	5,000	10,675	N/A	N/A	10,000	5,300	N/A	N/A	15,000	20,721
Others*	1,988	0	2,731	7,935	6,979	8,330	1,007	7,787	16,228	1,132	14,664	1,910	25,195	9,462	18,402	1,7632
Total	171,293	164,951	149,625	93,713	204,924	22,2022	183,960	97,944	154,775	230,426	137,459	63,556	530,992	617,399	471,044	255,213

* Not available for confidentiality reasons (≤ 5 permits in the estuary). Others include: Patonga Creek, Shoalhaven River & Wapengo Lake

** Includes Diploid and Triploid Pacific Oyster Production.

Table 7: Oyster Spat Production* by Spat Source for 2013/2014

Type of Cultivation	Large Spat (\$)	Medium Spat (\$)	Small Spat (\$)	Total Value (\$)
Hatchery Nursery Stock	\$38,513	\$212,537	\$170,678	\$421,728
Wild Caught Stock	\$1,242,098	\$152,933	\$6,312	\$1,401,343
Total	\$1,280,611	\$365,470	\$176,990	\$1,823,071

*Includes figures for Sydney Rock Oyster & Pacific Oyster.

Figure B: Comparison of Oyster Aquaculture Production for 2013/2014 by Species and Year

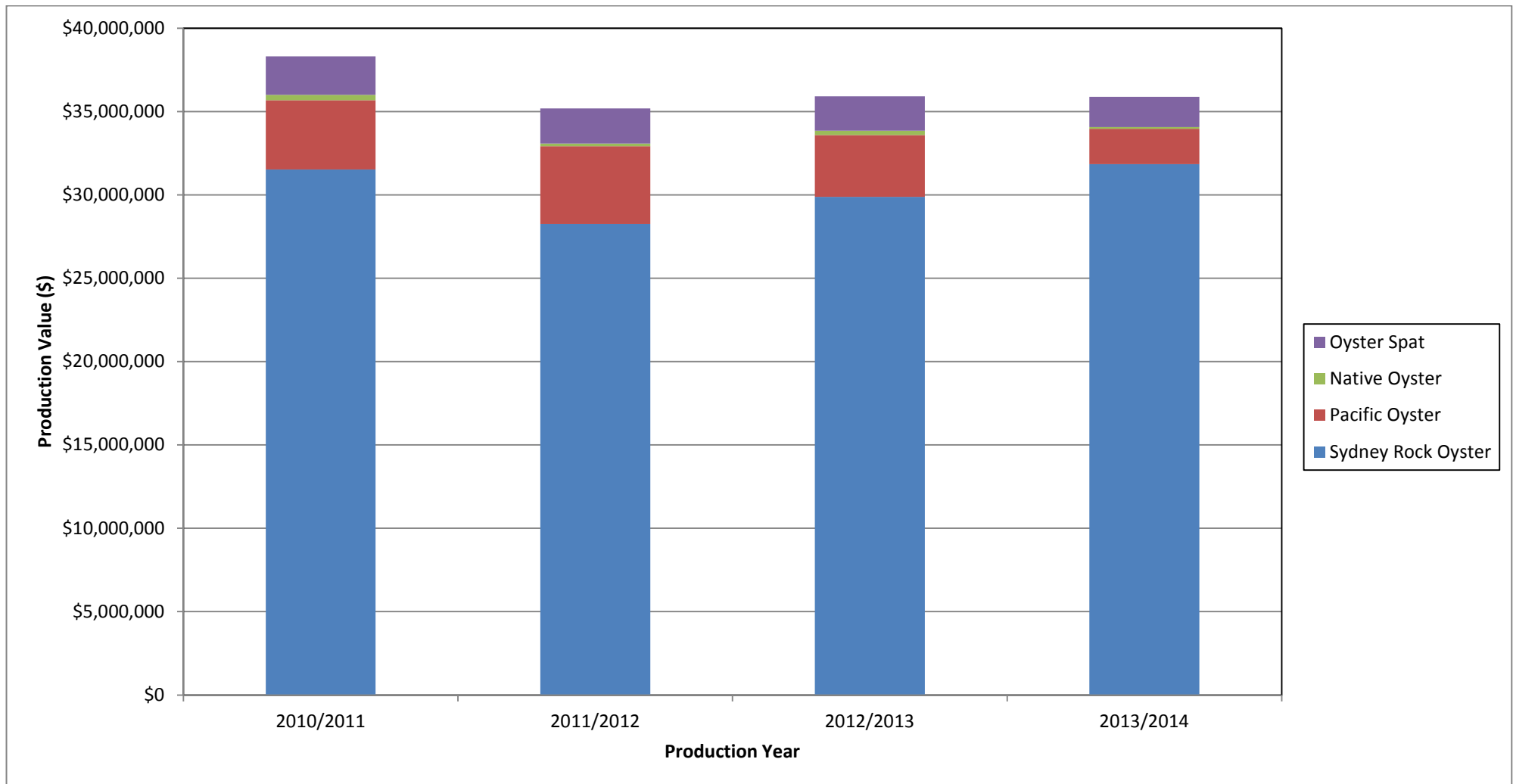


Table 8: Total Oyster Production by Permit Holder for 2013/2014

Production Range	Nil Production	1 – 5,000 Dozen	5,000 – 20,000 Dozen	20,000 – 35,000 Dozen	35,000 – 50,000 Dozen	> 50,000 Dozen	Total
Percentage of Permit Holders	21%	22%	31%	12%	7%	8%	100%
Number of Permit Holders*	58	61	86	34	19	21	279
Quantity Produced (dozens)		137,163	964,229	903,890	800,816	2,242,757	5,048,855
Percentage of Production (dozens)		3%	19%	18%	16%	44%	100%
Total Value (\$)		\$997,873	\$6,759,100	\$6,207,350	\$5,410,721	\$14,687,325	\$34,062,369

*Does not include Class A permit holders who did not submit a production return for 2013/2014. Does not include oyster spat production.

Table 9: Average Reported Farm Gate Price 2013/2014 by Species and Grade

Grade	Sydney Rock Oyster <i>average price per dozen</i>	Pacific Oyster <i>average price per dozen</i>	Triploid Pacific Oyster <i>average price per dozen</i>	Native Oyster <i>average price per dozen</i>
Large	\$9.10	\$8.23	\$11.13	\$13.75
Medium	\$6.97	\$6.48	\$8.83	\$15.67
Small	\$5.01	\$5.30	\$7.24	

Figure C: Percentage of Class A Permit Holders for 2013/2014 by Production Group

