

# Aquaculture Production Report 2017-2018



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**More information**

Author: Ryan Jefferson, Aquaculture Unit, Port Stephens Fisheries Institute

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**Acknowledgments**

Project Manager: Ryan Jefferson, Aquaculture Unit, Port Stephens Fisheries Institute

Data: Raelene Trenaman, Ryan Jefferson

Tables and Graphs: Raelene Trenaman, Ryan Jefferson

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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 2017 to 30 June 2018. 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 2017/2018**

Grouping	Common Name	Scientific Name	Production (Kilograms)	Production (Dozens)	Average Price per Production Unit	Value (\$)
Crustaceans	Black Tiger Prawn	<i>Penaeus monodon</i>	284,201		\$20.48	\$5,821,070
	Yabby	<i>Cherax destructor</i>	5,250		\$26.81	\$140,772
	Yabby (bait)	<i>Cherax destructor</i>	9,932		\$27.40	\$272,117
<b>Subtotal</b>						<b>\$6,233,959</b>
Freshwater Fish	Barramundi	<i>Lates calcarifer</i>	46,457		\$14.73	\$684,390
	Golden Perch	<i>Macquaria ambigua</i>	3,252		\$13.08	\$42,539
	Murray Cod	<i>Maccullochella peelii</i>	265,899		\$18.38	\$4,886,380
	Rainbow Trout	<i>Oncorhynchus mykiss</i>	181,565		\$14.77	\$2,681,819
	Silver Perch	<i>Bidyanus bidyanus</i>	220,682		\$12.48	\$2,753,187
<b>Subtotal</b>						<b>\$11,048,315</b>
Hatchery	Hatchery Species**					\$5,278,401
<b>Subtotal</b>						<b>\$5,278,401</b>
Molluscs	Sydney Rock Oyster	<i>Saccostrea glomerata</i>		5,989,101		\$48,742,804
	Pacific Oyster	<i>Crassostrea gigas</i>		168,208		\$3,017,345
	Native Oyster	<i>Ostrea angasi</i>		5,242		\$72,013
	Oyster Spat***					\$2,739,247
<b>Subtotal</b>						<b>\$54,571,408</b>
Others*						\$1,310,152
<b>Total Value (\$)</b>						<b>\$78,442,235</b>

\*Not available for confidentiality reasons ( $\leq 5$  farms authorised to cultivate species). Includes Australian Paratya (*Paratya australiensis*), Blue Mussel (*Mytilus galloprovincialis*), Brook Trout (*Salvelinus fontinalis*), Eel Tailed Catfish (*Tandanus tandanus*), Floodplain Mussel (*Velesunio ambiguus*), Moreton Bay Bug (*Thenus australiensis*), Mulloway (*Argyrosomus japonicus*), Tube Worm (*Diopatra aciculata*), Yellowtail Kingfish (*Seriola lalandi*) & Sydney Rock Oyster (*Saccostrea glomerata*; nursery cultivated).

\*\*Refer to Table 3 of the Report.

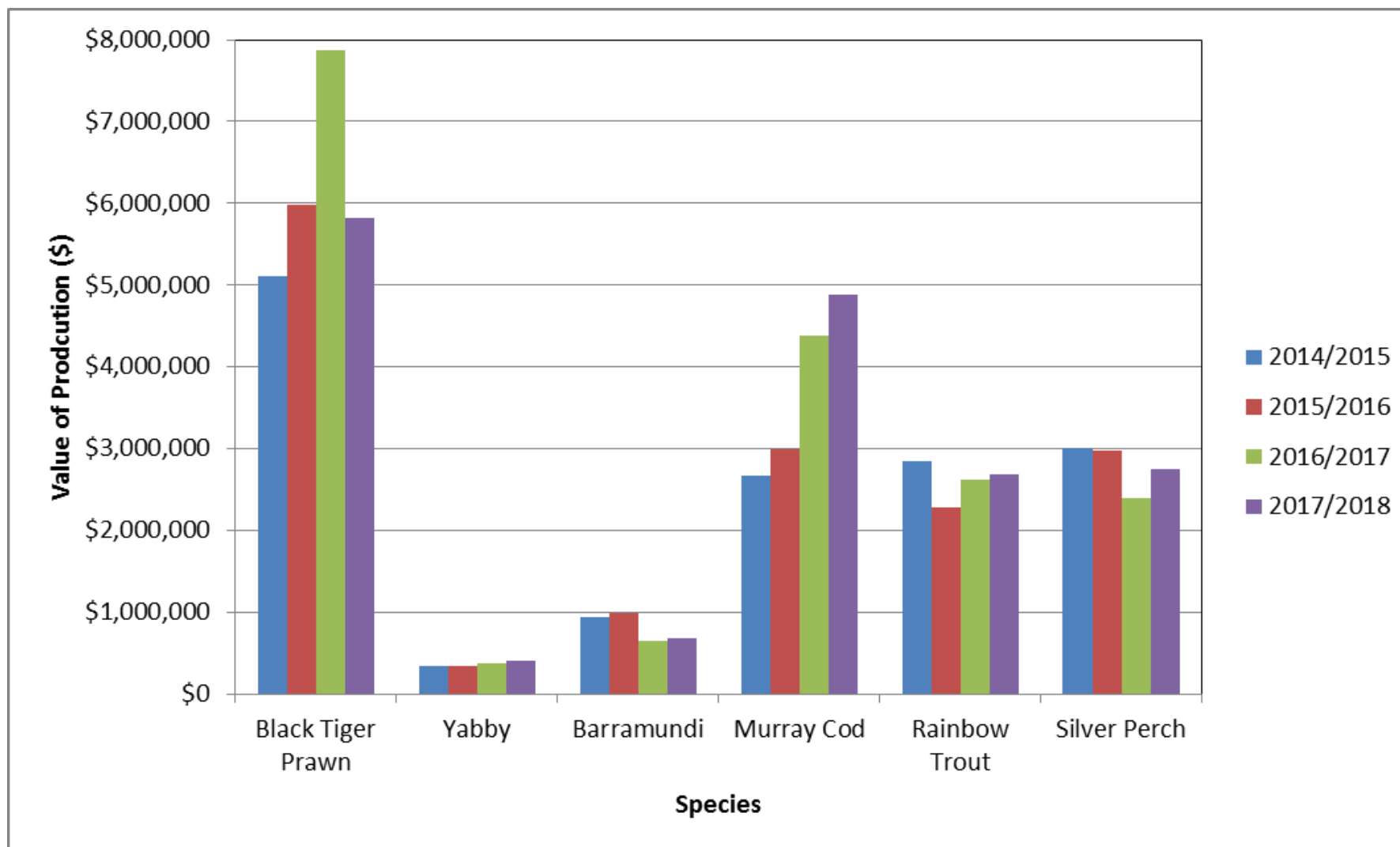
\*\*\*Refer to Table 7 of the Report.

**Table 2: Fish, Crustacean and Mollusc Production 2017/2018**

Grouping	Common Name	Scientific Name	Production (kg)	Average Price per Production Unit	Value (\$)
Crustaceans	Black Tiger Prawn	<i>Penaeus monodon</i>	284,201	\$20.48	\$5,821,070
	Yabby	<i>Cherax destructor</i>	5,250	\$26.81	\$140,772
	Yabby (bait)	<i>Cherax destructor</i>	9,932	\$27.40	\$272,117
<b>Subtotal</b>					<b>\$6,233,959</b>
Freshwater Fish	Barramundi	<i>Lates calcarifer</i>	46,457	\$14.73	\$684,390
	Golden Perch	<i>Macquaria ambigua</i>	3,252	\$13.08	\$42,539
	Murray Cod	<i>Maccullochella peelii</i>	265,899	\$18.38	\$4,886,380
	Rainbow Trout	<i>Oncorhynchus mykiss</i>	181,565	\$14.77	\$2,681,819
	Silver Perch	<i>Bidyanus bidyanus</i>	220,682	\$12.48	\$2,753,187
<b>Subtotal</b>					<b>\$11,048,315</b>
Others*					\$834,130
<b>Total Value (\$)</b>					<b>\$18,116,404</b>

\*Not available for confidentiality reasons ( $\leq 5$  farms authorised to cultivate species). Includes Australian Paratya (*Paratya australiensis*), Brook Trout (*Salvelinus fontinalis*), Eel Tailed Catfish (*Tandanus tandanus*), Floodplain Mussel (*Velesunio ambiguus*), Moreton Bay Bug (*Thenus australiensis*), Mulloway (*Argyrosomus japonicus*), Tube Worm (*Diopatra aciculata*) & Sydney Rock Oyster (*Saccostrea glomerata*; nursery cultivated).



**Figure A: Comparison of Land Based Aquaculture Production by Species and Year**

**Table 3: Commercial Hatchery Production 2017/2018**

Grouping	Common Name	Scientific Name	Production (individuals)	Average Price per Production Unit	Value (\$)
<b>Aquarium Species</b>	Aquarium Species		**	**	\$103,343
	Koi Carp	<i>Cyprinus carpio</i>	155,250	\$1.29	\$199,625
<b>Subtotal</b>					<b>\$302,968</b>
<b>Freshwater Fish</b>	Australian Bass	<i>Macquaria novemaculeata</i>	998,664	\$0.66	\$659,186
	Eel Tailed Catfish	<i>Tandanus tandanus</i>	9,258	\$2.05	\$19,009
	Golden Perch	<i>Macquaria ambigua</i>	2,957,914	\$0.31	\$909,380
	Murray Cod	<i>Maccullochella peelii</i>	4,143,373	\$0.39	\$1,595,917
	Rainbow Trout	<i>Oncorhynchus mykiss</i>	53,275	\$0.90	\$47,752
	Silver Perch	<i>Bidyanus bidyanus</i>	801,994	\$0.27	\$219,482
<b>Subtotal</b>					<b>\$3,450,726</b>
<b>Others*</b>					\$1,524,707
<b>Total Value (\$)</b>					<b>\$5,278,401</b>

\*Not available for confidentiality reasons ( $\leq 5$  hatcheries authorised to cultivate species). Includes Black Tiger Prawn (*Penaeus monodon*), Brown Trout (*Salmo trutta*), Estuary Perch (*Macquaria colonorum*), Lamington Urchin (*Tripneustes gratilla*), Pacific Oyster (*Crassostrea gigas*), Sydney Rock Oyster (*Saccostrea glomerata*) & Yellowtail Kingfish (*Seriola lalandi*).

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

**Table 4: Sydney Rock Oyster & Pacific Oyster\*\* Production by Estuary and Grade 2017/2018**

Estuary	Species	Large Grade Dozens	Large Grade Value (\$)	Medium Grade Dozens	Medium Grade Value (\$)	Small Grade Dozens	Small Grade Value (\$)	Total Dozens	Total Value (\$)
Nambucca River	Sydney Rock Oyster	12,939	\$137,800	24,876	\$209,456	17,700	\$110,271	55,515	\$457,527
Macleay River	Sydney Rock Oyster	7,250	\$77,213	44,596	\$375,498	26,139	\$162,846	77,985	\$615,557
Hastings River	Sydney Rock Oyster	32,053	\$341,364	97,096	\$817,548	83,480	\$520,080	212,629	\$1,678,993
Camden Haven	Sydney Rock Oyster	69,918	\$744,627	121,168	\$1,020,235	165,940	\$1,033,806	357,026	\$2,798,667
Manning River	Sydney Rock Oyster	25,922	\$276,069	28,542	\$240,324	56,872	\$354,313	111,336	\$870,706
Wallis Lake	Sydney Rock Oyster	277,961	\$2,960,285	537,901	\$4,529,126	709,207	\$4,418,360	1,525,069	\$11,907,771
Port Stephens	Sydney Rock Oyster	452,167	\$4,815,579	296,983	\$2,500,597	241,028	\$1,501,604	990,178	\$8,817,780
	Pacific Oyster	13,905	\$169,502	15,197	\$151,514	16,288	\$124,115	45,390	\$445,131
Brisbane Water	Sydney Rock Oyster	12,983	\$138,269	41,957	\$353,278	91,139	\$567,796	146,079	\$1,059,343
Hawkesbury River	Sydney Rock Oyster	7,481	\$79,673	13,317	\$112,129	10,504	\$65,440	31,302	\$257,242
	Pacific Oyster (Triploid)	5,694	\$135,859	5,918	\$84,213	3,880	\$42,331	15,492	\$262,403
Crookhaven River	Sydney Rock Oyster	47,838	\$509,475	170,009	\$1,431,476	141,374	\$880,760	359,221	\$2,821,711
	Pacific Oyster (Triploid)	10,765	\$256,853	2,488	\$35,404	2,225	\$24,275	15,478	\$316,532
Clyde River	Sydney Rock Oyster	78,644	\$837,559	249,232	\$2,098,533	162,216	\$1,010,606	490,092	\$3,946,698
	Pacific Oyster (Triploid)	56,748	\$1,354,007	10,443	\$148,604	1,405	\$15,329	68,596	\$1,517,940
Tuross Lake	Sydney Rock Oyster	32,426	\$345,337	42,891	\$361,142	22,249	\$138,611	97,566	\$845,090
Wagonga Inlet	Sydney Rock Oyster	42,503	\$452,657	78,295	\$659,244	154,839	\$964,647	275,637	\$2,076,548
Wapengo Lake	Sydney Rock Oyster	44,740	\$476,481	87,263	\$734,754	67,864	\$422,793	199,867	\$1,634,028
Merimbula Lake	Sydney Rock Oyster	140,841	\$1,499,957	277,605	\$2,337,434	124,411	\$775,081	542,857	\$4,612,471
Pambula River	Sydney Rock Oyster	70,308	\$748,780	135,126	\$1,137,761	75,512	\$470,440	280,946	\$2,356,981



Estuary	Species	Large Grade Dozens	Large Grade Value (\$)	Medium Grade Dozens	Medium Grade Value (\$)	Small Grade Dozens	Small Grade Value (\$)	Total Dozens	Total Value (\$)
Wonboyn River	Sydney Rock Oyster	38,079	\$405,541	37,646	\$316,979	33,149	\$206,518	108,874	\$929,039
Others*	Sydney Rock Oyster	40,672	\$433,157	39,342	\$331,260	46,908	\$292,237	126,922	\$1,056,653
	Pacific Oyster (Triploid)	15,622	\$372,741	5,830	\$82,961	1,800	\$19,638	23,252	\$475,340
<b>Total</b>		<b>1,537,459</b>	<b>\$17,568,783</b>	<b>2,363,721</b>	<b>\$20,069,471</b>	<b>2,256,129</b>	<b>\$14,121,895</b>	<b>6,157,309</b>	<b>\$51,760,149</b>

\*Not available for confidentiality reasons ( $\leq 5$  current permit holders in the estuary). Others include: Bega River, Bellinger River, Bermagui River, Botany Bay, Clarence River, Nelson Lagoon, Patonga Creek (Sydney Rock Oyster & Pacific Oyster (Triploid)), Richmond River, Shoalhaven River, Tweed River, Wapengo Lake (Pacific Oyster (Triploid)), Wooli Wooli River.

\*\* Includes Diploid and Triploid Pacific Oyster Production.

#### Grade Size

Sydney Rock Oyster

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)

Pacific Oyster

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)

**Table 5: Sydney Rock Oyster Production – 2014/15, 2015/16, 2016/17 & 2017/18 by Estuary and Grade**

Estuary	Large Grade 2014/15	Large Grade 2015/16	Large Grade 2016/17	Large Grade 2017/18	Medium Grade 2014/15	Medium Grade 2015/16	Medium Grade 2016/17	Medium Grade 2017/18	Small Grade 2014/15	Small Grade 2015/16	Small Grade 2016/17	Small Grade 2017/18	Total Dozens 2014/15	Total Dozens 2015/16	Total Dozens 2016/17	Total Dozens 2017/18
Nambucca River	9,162	16,112	14,982	12,939	17,284	33,093	26,658	24,876	10,405	54,047	35,160	17,700	36,851	103,252	76,800	55,515
Macleay River	6,611	7,628	3,142	7,250	11,161	14,332	14,794	44,596	12,534	14,345	21,740	26,139	30,306	36,305	39,676	77,985
Hastings River	34,331	58,414	98,684	32,053	114,150	122,156	128,374	97,096	121,605	118,929	51,388	83,480	270,086	299,499	278,446	212,629
Camden Haven	67,160	47,941	50,381	69,918	66,874	51,417	67,970	121,168	303,028	170,118	207,015	165,940	437,062	269,476	325,366	357,026
Manning River	27,381	23,669	17,276	25,922	26,125	65,154	35,061	28,542	54,402	51,609	37,281	56,872	107,908	140,432	89,618	111,336
Wallis Lake	192,157	218,715	236,609	277,961	375,189	490,031	481,692	537,901	710,806	842,330	748,424	709,207	1,278,152	1,551,076	1,466,725	1,525,069
Port Stephens	343,074	317,894	376,721	452,167	203,158	215,739	236,863	296,983	207,489	236,110	201,762	241,028	753,721	769,743	815,346	990,178
Brisbane Water	10,768	700	20,111	12,983	30,053	14,170	47,845	41,957	17,181	51,789	87,770	91,139	58,002	66,659	155,726	146,079
Hawkesbury River	9,755	27,736	10,787	7,481	8,340	11,112	24,713	13,317	15,808	16,258	14,126	10,504	33,903	55,106	49,626	31,302
Crookhaven River	42,091	37,695	47,797	47,838	97,842	96,624	157,525	170,009	86,668	58,752	57,723	141,374	226,601	193,071	263,045	359,221
Clyde River	79,726	80,416	66,939	78,644	213,172	186,784	142,506	249,232	178,690	161,210	132,482	162,216	471,588	428,410	341,927	490,092
Tuross Lake	19,453	18,377	37,117	32,426	33,319	23,445	33,537	42,891	5,935	5,678	24,322	22,249	58,707	47,500	94,976	97,566
Wagonga Inlet	52,379	37,872	52,937	42,503	113,217	73,577	75,219	78,295	171,955	120,084	139,450	154,839	337,551	231,533	267,606	275,637

Estuary	Large Grade 2014/15	Large Grade 2015/16	Large Grade 2016/17	Large Grade 2017/18	Medium Grade 2014/15	Medium Grade 2015/16	Medium Grade 2016/17	Medium Grade 2017/18	Small Grade 2014/15	Small Grade 2015/16	Small Grade 2016/17	Small Grade 2017/18	Total Dozens 2014/15	Total Dozens 2015/16	Total Dozens 2016/17	Total Dozens 2017/18
<b>Wapengo Lake</b>	22,916	23,714	31,615	44,740	66,614	44,415	76,639	87,263	20,075	41,234	33,966	67,864	109,605	109,363	142,220	199,867
<b>Merimbula Lake</b>	55,643	113,202	94,347	140,841	202,356	191,865	238,348	277,605	156,970	123,983	203,400	124,411	414,969	429,050	536,095	542,857
<b>Pambula River</b>	76,132	54,866	60,136	70,308	136,549	131,045	111,201	135,126	56,096	50,261	75,174	75,512	268,777	236,172	246,511	280,946
<b>Wonboyn River</b>	23,844	31,470	42,712	38,079	29,793	53,129	44,772	37,646	35,629	34,616	39,863	33,149	89,266	119,215	127,347	108,874
<b>Others*</b>	63,020	78,777	75,391	40,672	39,972	59,222	59,091	39,342	66,917	50,058	66,328	46,908	169,909	188,057	200,810	126,922
<b>Total</b>	<b>1,135,603</b>	<b>1,195,198</b>	<b>1,337,684</b>	<b>1,434,725</b>	<b>1,785,168</b>	<b>1,877,310</b>	<b>2,002,808</b>	<b>2,323,845</b>	<b>2,232,193</b>	<b>2,201,411</b>	<b>2,177,374</b>	<b>2,230,531</b>	<b>5,152,964</b>	<b>5,273,919</b>	<b>5,517,866</b>	<b>5,989,101</b>

\*Not available for confidentiality reasons ( $\leq 5$  current permit holders in the estuary). Others include: Bega River, Bellinger River, Bermagui River, Botany Bay, Clarence River, Nelson Lagoon, Patonga Creek, Richmond River, Shoalhaven River, Tweed River, Wooli Wooli River.

#### Grade Size

Sydney Rock Oyster      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)

**Table 6: Pacific Oyster Production\*\* - 2014/2015, 2015/2016, 2016/2017 & 2017/18 by Estuary and Grade**

Estuary	Large Grade 2014/15	Large Grade 2015/16	Large Grade 2016/17	Large Grade 2017/18	Medium Grade 2014/15	Medium Grade 2015/16	Medium Grade 2016/17	Medium Grade 2017/18	Small Grade 2014/15	Small Grade 2015/16	Small Grade 2016/17	Small Grade 2017/18	Total Dozens 2014/15	Total Dozens 2015/16	Total Dozens 2016/17	Total Dozens 2017/18
Port Stephens	11,147	32,100	8,853	13,905	17,371	44,875	8,008	15,197	15,326	21,279	12,238	16,288	43,844	98,254	29,099	45,390
Hawkesbury River	2,697	1,000	3,373	5,694	158	3,675	0	5,918	0	70	0	3,880	2,855	4,745	3,373	15,492
Crookhaven River	83,597	53,617	11,924	10,765	36,369	56,611	20,776	2,488	21,612	24,946	3,258	2,225	141,578	135,174	35,958	15,478
Clyde River	81,887	140,388	164,649	56,748	49,781	49,051	18,064	10,443	24,600	8,896	7,377	1,405	156,268	198,335	190,090	68,596
Others*	9,134	14,470	20,633	15,622	11,492	11,683	5,976	5,830	3,964	5,633	2,230	1,800	24,590	31,786	28,839	23,252
<b>Total</b>	<b>188,462</b>	<b>241,575</b>	<b>209,432</b>	<b>102,734</b>	<b>115,171</b>	<b>165,895</b>	<b>52,824</b>	<b>39,876</b>	<b>65,502</b>	<b>60,824</b>	<b>25,103</b>	<b>25,598</b>	<b>369,135</b>	<b>468,294</b>	<b>287,359</b>	<b>168,208</b>

\*Not available for confidentiality reasons ( $\leq 5$  current permit holders in the estuary). Others include: Patonga Creek & Wapengo Lake.

\*\*Includes Diploid & Triploid Pacific Oyster production.

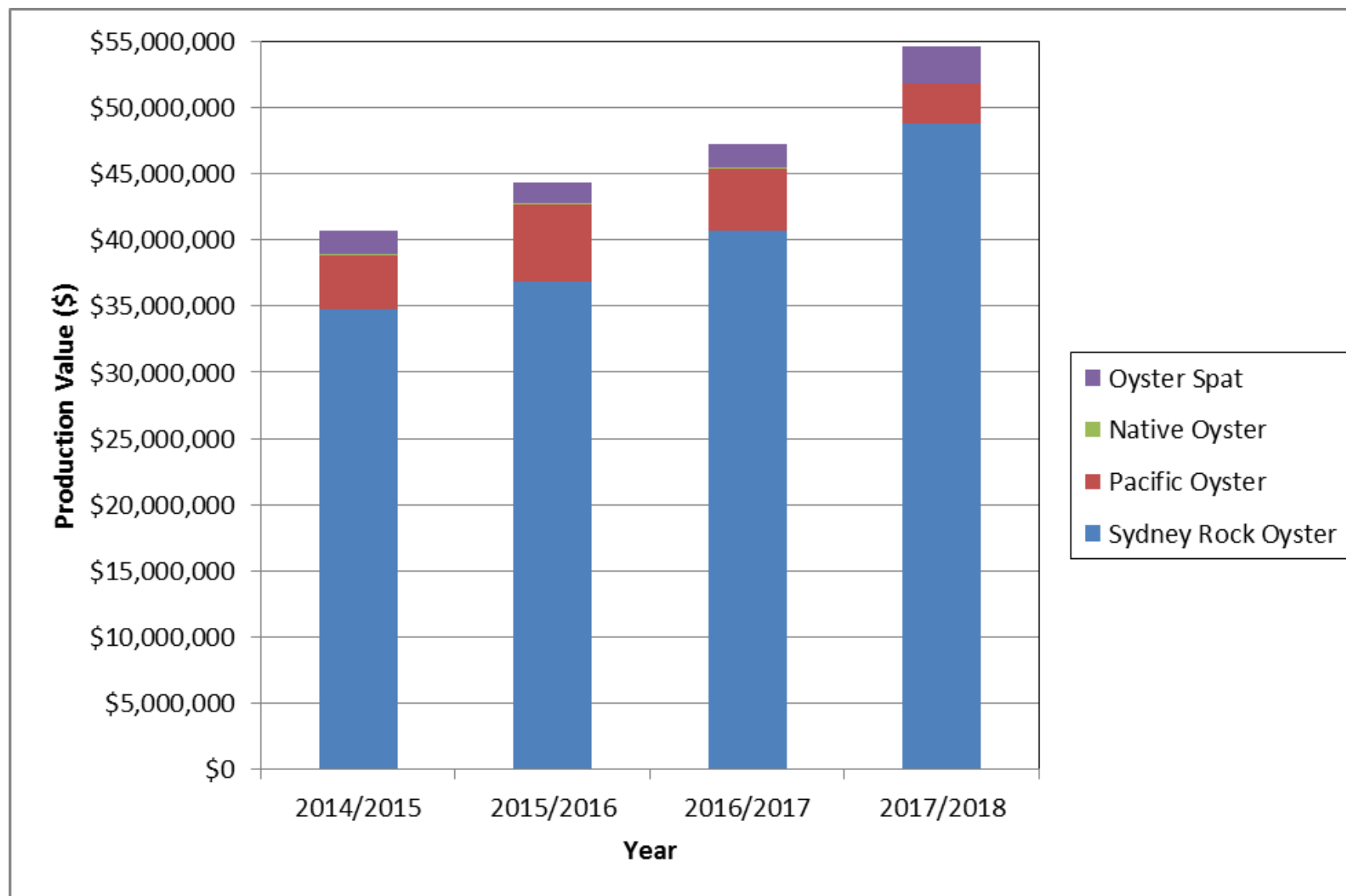
#### Grade Size

Pacific Oyster    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)

**Table 7: Oyster Spat Production\* by Spat Source for 2017/2018**

Type of Cultivation	Large Spat (\$)	Medium Spat (\$)	Small Spat (\$)	Total Value (\$)
Hatchery Nursery Stock	\$97,784	\$366,044	\$96,338	\$560,166
Wild Caught Stock	\$1,642,003	\$365,478	\$171,600	\$2,179,081
<b>Total</b>	<b>\$1,739,787</b>	<b>\$731,522</b>	<b>\$267,938</b>	<b>\$2,739,247</b>

\*Includes figures for Sydney Rock Oyster, Pacific Oyster & Native Oyster.

**Figure B: Comparison of Oyster Aquaculture Production by Species and Year**

**Table 8: Total Oyster Production by Permit Holder for 2017/2018**

Production Range	Nil Production	1 - 5,000 Dozen	5,001 - 20,000 Dozen	20,001 - 35,000 Dozen	35,001 - 50,000 Dozen	> 50,001 Dozen	Total
Number of Permit Holders*	40	46	95	41	13	27	262
Percentage of Permit Holders	15%	18%	36%	16%	5%	10%	100%
Quantity Produced (dozens)		94,538	1,146,487	1,072,397	545,558	3,303,571	6,162,551
Percentage of Production (dozens)		2%	19%	17%	9%	54%	100%
<b>Total Value (\$)</b>		<b>\$927,971</b>	<b>\$10,064,505</b>	<b>\$9,076,495</b>	<b>\$4,563,048</b>	<b>\$27,200,143</b>	<b>\$51,832,162</b>

Does not include oyster spat production.

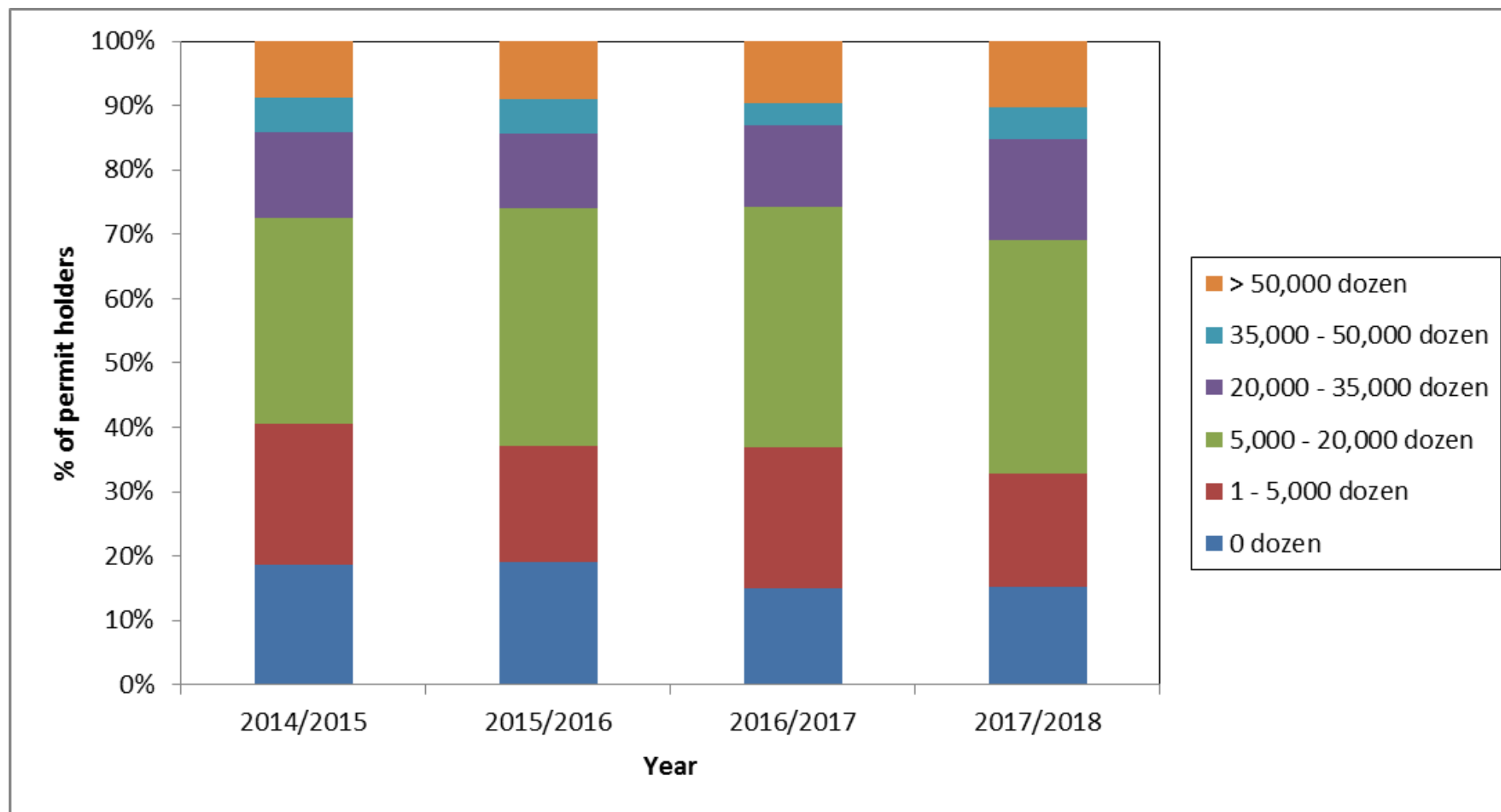
\* Does not include the Class A permit holders who did not submit a production return for 2017/2018.

**Table 9: Average Reported Farm Gate Price for 2017/2018 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	\$10.65	\$12.19	\$23.86*	\$18.67
Medium	\$8.42	\$9.97	\$14.23	\$13.80
Small	\$6.23	\$7.62	\$10.91	\$11.50

\*Includes jumbo grade size.



**Figure C: Percentage of Class A Permit Holders by Production Group**

**Table 10: Average Farm Gate Price for 2017/2018 by Estuary\* & Species**

Estuary	Species	Large Grade	Medium Grade	Small Grade
Nambucca River	Sydney Rock Oyster	\$12.17	\$9.83	\$8.13
Macleay River	Sydney Rock Oyster	\$10.60	\$7.93	\$6.07
Hastings River	Sydney Rock Oyster	\$10.05	\$8.24	\$6.12
Camden Haven	Sydney Rock Oyster	\$10.70	\$8.53	\$5.94
Manning River	Sydney Rock Oyster	\$10.15	\$8.04	\$5.88
Wallis Lake	Sydney Rock Oyster	\$9.79	\$7.53	\$5.11
Port Stephens	Sydney Rock Oyster	\$10.10	\$7.99	\$5.78
	Pacific Oyster (Diploid)	\$12.19	\$9.60	\$7.62
Brisbane Water	Sydney Rock Oyster	\$13.02	\$7.94	\$5.68
Hawkesbury River	Sydney Rock Oyster	\$9.75	\$8.68	\$6.56
	Pacific Oyster (Triploid)	\$14.25	\$10.67	\$9.25
Crookhaven River	Sydney Rock Oyster	\$9.86	\$7.81	\$5.52
	Pacific Oyster (Triploid)	\$39.44	\$10.80	\$13.22
Clyde River	Sydney Rock Oyster	\$12.52	\$9.07	\$7.10
	Pacific Oyster (Triploid)	\$24.09	\$17.80	\$13.00
Tuross Lake	Sydney Rock Oyster	\$10.31	\$8.06	\$6.29
Wagonga Inlet	Sydney Rock Oyster	\$10.50	\$8.45	\$6.27
Wapengo Lake	Sydney Rock Oyster	\$11.21	\$9.02	\$7.27
Merimbula Lake	Sydney Rock Oyster	\$10.92	\$8.46	\$6.86
Pambula River	Sydney Rock Oyster	\$10.64	\$8.46	\$6.58
Wonboyn River	Sydney Rock Oyster	\$10.12	\$8.36	\$6.10

\* Average farm gate price not recorded for estuaries with ≤ 5 permit holders.

#### Grade Size

Sydney Rock Oyster

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)

Pacific Oyster

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)