

Recreational Ship Census June 2016

About this Publication

This publication presents the results of a census taken of recreational ships registered in Queensland on 30 June 2016. The data presented in this publication was extracted from the Department of Transport and Main Roads TRAILS Registration System (the register) on 15 July 2016.

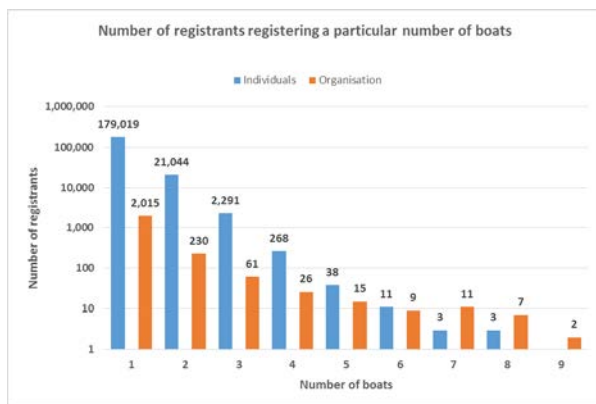
Tables of statistics are included which give selected details of the ships. These include the maritime region in which the ships were registered, the length of the ship, the ship types, the engine output, the year of manufacture and the age, gender and licence status of those who have registered the ships.

For purposes of comparison, data is also provided at 30 June for the years 2011 and 2015.

The calculation of the growth rates and decommissioning rates mentioned in this report have been made using the formulas described in the Australian Bureau of Statistics 9309.0 - Motor Vehicle Census, Australia using data presented in the attached tables and previous additions of this report.

Key Points

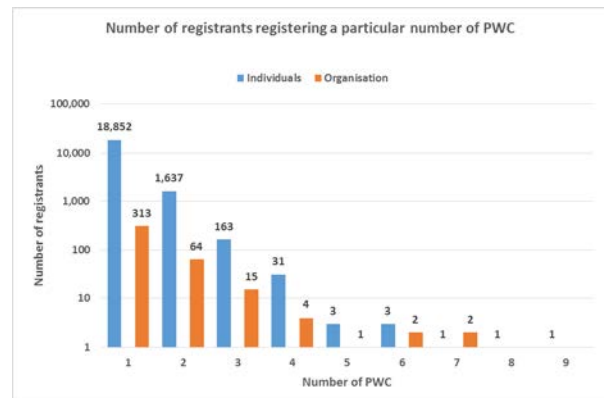
At 30 June 2016 there were 256,154 recreational ships (boats and personal water craft) listed on the register by 221,669 different registrants (individuals or organisations). This equates to approximately 1 registered recreational ship for every 19 people resident in Queensland.



There were 232,716 recreational boats which were registered by 205,099 registrants. The majority of registrants (88.3%) had registered a single boat while another 10.4% of registrants had registered two boats. The remaining 1.1% of registrants had registered a total of 3.9% of all registered boats (9108). While the majority of boats (229,353) were registered by individuals, 3333 boats were registered by 2395 organisations.

There were also 23,435 PWC registered to 21,101 registrants. The majority of registrants (90.8%) had registered a single PWC while another 8.1% of registrants had registered two PWC. The remaining 1% of registrants had registered a total of 3.6% of all registered PWC (865). While the majority of PWC (22,796) were registered by individuals, 636 PWC were registered by 406 organisations.

It is of interest to note that 4531 registrants had registered at least one boat and at least one PWC.

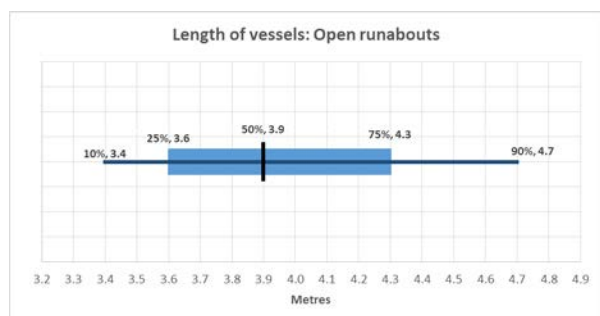


In total these registrants registered 5827 boats and 5335 PWC. The majority (69.9%) registered a single boat and a single PWC.

During the twelve months ending 30 June 2015, 18,329 boat registrations were added to the register, 17,292 were removed from the register, while 19,788 were transferred from one registrant to another. Based on these figures Queensland's flotilla of registered recreational boats has a decommissioning rate of approximately 6.8% per annum.

Over this same period 3719 PWC registrations were added to the register, 1749 were removed from the register while 2976 were transferred from one registrant to another. Based on these figures Queensland's flotilla of registered recreational PWC has a decommissioning rate of approximately 8.1% per annum.

Together these transactions resulted in the number of recreational boats and PWC on the register increasing by 0.59% and 7.52% over the last year and by an average of 1% and 7.8% respectively over the last five years.



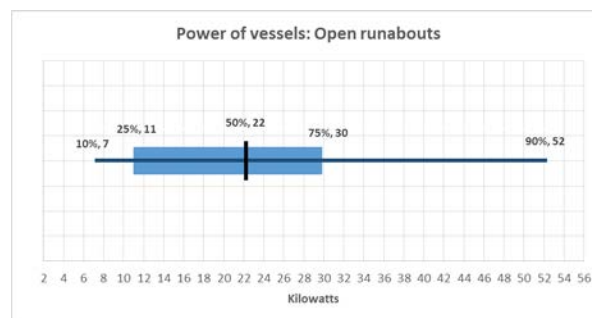
The most popular type of recreational boat is the open runabout which accounts for 66.3% (154,356) of the recreational boat flotilla. Fifty per cent of these open runabouts are no longer than 3.9 metres, have engines producing no more than 22 kilowatts, were manufactured more than 12 years ago and are registered by persons at least 52 years of age.

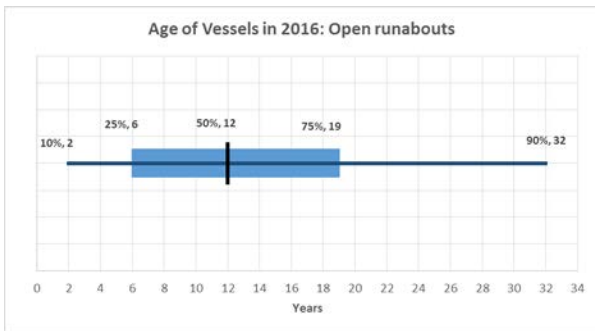
The majority of recreational boats (71.4%) are no more than 5 metres in length. This percentage increases to 96.6% for recreational boats which are no more than 10 metres in length.

The engine output figures need to be interpreted with some caution as they are likely to indicate the power of the motor fitted to a recreational boat at the time it was first registered.

The majority of recreational boats (89.1%) are fitted with outboard motors. Sixty-nine per cent are fitted with an engine producing more than 10 and no more than 100 kilowatts.

The most commonly fitted engines (57%) produce more than 25 and no more than 50 kilowatts.



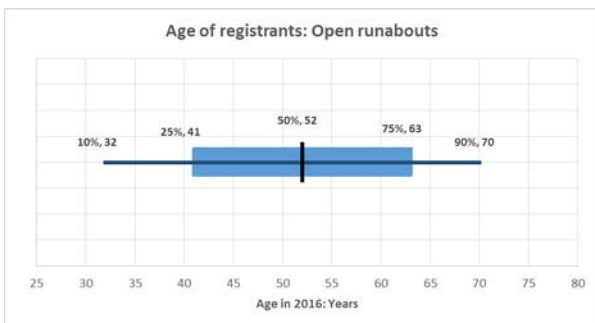


Estimating the age of the flotilla presents some difficulty as 21.3% of registered recreational boats were registered without the year of manufacture being recorded.

Nevertheless the extant records indicate that 20.7% of recreational boats were manufactured before 1996, 45.1% were manufactured between 1996 and 2010 leaving 12.9% which were manufactured within the last six years. The average age of a registered recreational boat is 15.7 years with a median age of 12 years.

In contrast with recreational boats only 0.76% of PWC have been registered without the year of manufacture being recorded.

The majority of PWC (55.1%) were manufactured between 2006 and 2010 while 40.8% of PWC were manufactured within the last 6 years. The average age of a registered recreational PWC is 9.3 years with a median age of 6 years.



Baby Boomers (people born between 1947 and 1966) registered 45.2% of all recreational boats and 32.5% of all recreational PWC. Generation X/Y (people born between 1967 and 1986) registered 35.9% of the recreational boats and 49.3% of all recreational PWC.

The average age of those registering recreational ships was 52 years for boats and 44 years for PWC. Males registered 89.7% of the boats and 84.7% of the PWC on the register.

Thirteen per cent of recreational boats have been registered to a registrant who does not hold a Recreational Marine Driver Licence (RMDL). Forty-six per cent of registrants obtained their RMDL no later than the year 2000 while 41.4% obtained their RMDL between 2001 and 2016.

Twelve per cent of PWC have been registered to a registrant who does not hold a Personal Water Craft Licence (PWCL). Seventeen per cent were issued a PWCL in 2005, the first year in which PWCL were issued, while 50.7% were issued a PWCL during the last 6 years.

Disclaimer

The data sources used in the compilation of this report are subject to an ongoing process of data validation and consequently the numbers and calculations presented are subject to revision.

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Table 1: Number of recreational ships by cabin type (selected particulars)

Vessel Type	Full Cabin Cruiser	Half Cabin Cruiser	Quarter Cabin Cruiser	Bow Rider	Centre Console	Sport/Ski Boat	Open Runabout	PWC	Total
	no.	no.	no.	no.	no.	no.	no.	no.	no.
Maritime Region									
Brisbane	9829	12,883	4415	6470	7271	4409	79,260	18,492	143,029
Gladstone	2241	4190	1360	931	3036	1221	32,433	2164	47,576
Mackay	1134	1813	546	423	1340	469	13,122	889	19,736
Townsville	930	1972	605	465	2640	484	15,681	897	23,674
Cairns	1063	1989	757	548	2240	663	13,825	990	22,075
Ex QLD	10	8			3	2	35	3	61
Vessel Length									
Length <= 3 m	2	18	8	11	30	58	3424	4867	8418
3 m < Length <= 5 m	96	5489	1786	1937	9654	2028	141,596	18,542	181,128
5 m < Length <= 7.5 m	2633	15,712	5566	6703	6525	5038	9028	26	51,231
7.5 m < Length <= 10 m	4996	1390	291	174	232	81	255		7419
10 m < Length <= 15 m	6405	230	31	7	82	38	48		6841
15 m < Length <= 20 m	905	14	1	3	6	4	3		936
20 m < Length <= 25 m	131			1			1		133
25 m < Length	39	2		1	1	1	1		45
Engine Type									
Inboard	10,833	2504	574	3441	382	4498	2995	22,772	47,999
Outboard	4371	20,351	7109	5396	16,147	2729	151,359	663	208,125
Other	3				1	21	2		27
Carriage of Sails									
Without Sails	9583	22,296	7595	8818	16,405	7248	153,844	23,435	249,224
With Sails	5624	559	88	19	125		512		6927
Year of Manufacture									
Year <=1995	5669	6664	1857	469	2471	2786	28,249	789	48,954
1995 < Year <=2000	1305	1506	897	621	1986	857	14,357	2093	23,622
2001 < Year <=2010	4403	6038	3906	6569	8408	2824	51,168	10,825	94,141
Year = 2011	204	334	164	288	557	181	3728	1195	6651
Year = 2012	160	317	182	282	682	182	4259	1581	7645
Year = 2013	164	271	232	221	733	150	4382	2227	8380
Year = 2014	156	279	224	212	726	133	4184	1984	7898
Year = 2015	158	250	170	144	738	108	3458	1910	6936
Year = 2016	42	61	51	31	229	27	1078	653	2172
Not Recorded	2946	7135					39,493	178	49,752
Total	15,207	22,855	7683	8837	16,530	7248	154,356	23,435	256,151

Table 2: Number of recreational ships by cabin type (selected particulars)

	Full Cabin Cruiser	Half Cabin Cruiser	Quarter Cabin Cruiser	Bow Rider	Centre Console	Sport/Ski Boat	Open Runabout	PWC	Total
	no.	no.	no.	no.	no.	no.	no.	no.	no.
Gender of Registrant									
Female	1672	1912	541	921	1046	773	12,674	2942	22,481
Male	12,866	20,546	7046	7770	15,069	6311	139,024	19,843	228,475
Not Reported	61	140	2	5	6	4	994	14	1226
Organisation	608	257	94	141	409	160	1664	636	3969
Age of Registrant									
Oldest Generation 1891–1926	20	36	7	0	6	1	334	0	404
Lucky Generation 1927–1946	2564	2362	528	453	1096	168	19,242	349	26,762
Baby Boom 1947–1966	8896	10,514	3365	3633	7066	2309	69,346	7610	112,739
Generation X & Y 1967–1986	2877	8628	3369	4284	6843	3952	53,479	11,553	94,985
I Generation 1987–2006	179	917	318	322	1104	653	9316	3273	16,082
Not Reported	63	141	2	4	6	5	975	14	1210
Organisation	608	257	94	141	409	160	1664	636	3969
Year of issue Recreational Marine Drivers Licence									
No License Issued	2774	2440	723	818	1689	667	19,678	2047	30,836
Not Recorded	44	44	19	9	35	6	364	23	544
1962 to 1980	1670	2246	533	341	1307	304	16,005	469	22,875
1981 to 2000	4794	8455	2832	2604	6345	2664	56,966	5631	90,291
2001 to 2016	5925	9670	3576	5065	7154	3607	61,343	15,265	111,605
Year of issue Personal Water Craft License									
No License Issued	12,827	19,686	6488	6446	14,429	5068	137,869	2693	205,506
2005	997	1059	403	700	702	749	5798	4023	14,431
2006 to 2010	623	854	351	639	621	589	4348	4839	12,864
2011 to 2016	760	1256	441	1052	778	842	6341	11,880	23,350
Total	15,207	22,855	7683	8837	16,530	7248	154,356	23,435	256,151

Table 3: Number of recreational ships by maritime region (selected particulars)

Maritime Region	Brisbane	Gladstone	Mackay	Townsville	Cairns	Ex QLD	Total
	no.	no.	no.	no.	no.	no.	no.
Vessel Type							
Full Cabin Cruiser	9829	2241	1134	930	1063	10	15,207
Half Cabin Cruiser	12,883	4190	1813	1972	1989	8	22,855
Quarter Cabin Cruiser	4415	1360	546	605	757		7683
Bow Rider	6470	931	423	465	548		8837
Centre Console	7271	3036	1340	2640	2240	3	16,530
Sport/Ski Boat	4409	1221	469	484	663	2	7248
Open Runabout	79,260	32,433	13,122	15,681	13,825	35	154,356
PWC/Jet-Ski	18,492	2164	889	897	990	3	23,435
Vessel Length							
Length <= 3 m	6165	1149	403	312	388	1	8418
3 m < Length <= 5 m	98,457	35,811	14,190	17,595	15,038	37	18,1128
5 m < Length <= 7.5 m	28,459	8491	3938	4786	5544	13	51,231
7.5 m < Length <= 10 m	4674	1100	571	512	559	3	7419
10 m < Length <= 15 m	4488	941	509	417	480	6	6841
15 m < Length <= 20 m	659	72	96	48	60	1	936
20 m < Length <= 25 m	98	10	19	1	5		133
25 m < Length	29	2	10	3	1		45
Engine Type							
Inboard	34,531	5664	2567	2253	2968	16	47,999
Outboard	108,487	41,907	17,167	21,419	19,100	45	208,125
Other	11	5	2	2	7		27
Carriage of Sails							
Without Sails	138,785	46,517	19,203	23,221	21,443	55	249,224
With Sails	4244	1059	533	453	632	6	6927
Year of Manufacture							
Year <=1995	27,248	9893	3323	4115	4367	8	48,954
1995 < Year <=2000	12,734	4376	1738	2365	2404	5	23,622
2001 < Year <=2010	53,282	16,769	7461	8558	8053	18	94,141
Year = 2011	3919	1058	613	592	468	1	6651
Year = 2012	4465	1226	704	700	550		7645
Year = 2013	5230	1294	626	672	557	1	8380
Year = 2014	5176	1197	523	527	475		7898
Year = 2015	4608	1013	404	508	403		6936
Year = 2016	1445	353	125	113	136		2172
Not Recorded	24,922	10,397	4219	5524	4662	28	49,752
Total	143,029	47,576	19,736	23,674	22,075	61	256,151

Table 4: Number of recreational ships by maritime region (selected particulars)

Column1	Brisbane	Gladstone	Mackay	Townsville	Cairns	Ex QLD	Total
	no.	no.	no.	no.	no.	no.	no.
Gender of Registrant							
Female	13,026	4132	1565	1922	1834	2	22,481
Male	126,712	42,851	17,837	21,283	19,751	41	228,475
Not Reported	529	197	100	217	167	16	1226
Organisation	2762	396	234	252	323	2	3969
Age of Registrant							
Oldest Generation 1891–1926	243	77	16	42	26	0	404
Lucky Generation 1927–1946	14,939	5901	1700	2213	2002	7	26,762
Baby Boom 1947–1966	62,530	21,952	8222	10,205	9806	24	112,739
Generation X & Y 1967–1986	53,339	16,089	8046	9032	8469	10	94,985
I Generation 1987–2006	8691	2974	1419	1714	1284	0	16,082
Not Recorded	525	187	99	216	165	18	1210
Organisation	2762	396	234	252	323	2	3969
Year of issue Recreational Marine Drivers Licence							
No License Issued	17,446	5539	2278	2686	2840	47	30,836
Not Recorded	282	106	44	54	58	0	544
1962 to 1980	10,822	5132	2108	2926	1885	2	22,875
1981 to 2000	46,699	17,729	7521	9401	8938	3	90,291
2001 to 2016	67,780	19,070	7785	8607	8354	9	111,605
Year of issue Personal Water Craft License							
No License Issued	105,929	41,425	17,409	21,145	19,539	59	205,506
2005	10,181	1951	830	750	718	1	14,431
2006 to 2010	9315	1540	578	719	712	0	12,864
2011 to 2016	17,604	2660	919	1060	1106	1	23,350
Total	143,029	47,576	19,736	23,674	22,075	61	256,151

Table 5: Number of recreational ships by vessel length (selected particulars)

Vessel Length Metres	<= 3	3.01 to 5	5.1 to 7.5	7.51 to 10	10.01 to 15	>15	Total
	no.	no.	no.	no.	no.	no.	no.
Vessel Type							
Full Cabin Cruiser	2	96	2633	4996	6405	1075	15,207
Half Cabin Cruiser	18	5489	15,712	1390	230	16	22,855
Quarter Cabin Cruiser	8	1786	5566	291	31	1	7683
Bow Rider	11	1937	6703	174	7	5	8837
Centre Console	30	9654	6525	232	82	7	16,530
Sport/Ski Boat	58	2028	5038	81	38	5	7248
Open Runabout	3424	141,596	9028	255	48	5	154,356
PWC/Jet-Ski	4867	18,542	26				23,435
Maritime Region							
Brisbane	6165	98,457	28,459	4674	4488	786	143,029
Gladstone	1149	35,811	8491	1100	941	84	47,576
Mackay	403	14,190	3938	571	509	125	19,736
Townsville	312	17,595	4786	512	417	52	23,674
Cairns	388	15,038	5544	559	480	66	22,075
Ex QLD	1	37	13	3	6	1	61
Engine Type							
Inboard	4836	20,795	10,804	4518	5972	1074	47,999
Outboard	3582	160,329	40,407	2899	868	40	208,125
Other		4	20	2	1		27
Carriage of Sails							
Without Sails	8397	180,626	50,003	5476	3835	887	249,224
With Sails	21	502	1228	1943	3006	227	6927
Year of Manufacture							
Year <=1995	1903	32,477	9154	2445	2650	325	48,954
1995 < Year <=2000	1829	16,117	4288	616	683	89	23,622
2001 < Year <=2010	2589	64,365	22,171	2536	2037	443	94,141
Year = 2011	146	5016	1259	105	82	43	6651
Year = 2012	152	6034	1268	98	59	34	7645
Year = 2013	249	6699	1229	90	82	31	8380
Year = 2014	426	6026	1268	79	69	30	7898
Year = 2015	393	5298	1069	93	54	29	6936
Year = 2016	55	1767	295	26	20	9	2172
Not Recorded	676	37,329	9230	1331	1105	81	49,752
Total	8418	181,128	51,231	7419	6841	1114	256,151

Table 6: Number of recreational ships by vessel length (selected particulars)

Vessel Length Metres	< = 3	3.01 to 5	5.1 to 7.5	7.51 to 10	10.01 to 15	>15	Total
	no.	no.	no.	no.	no.	no.	no.
Gender of Registrant							
Female	1000	15,475	4254	767	867	118	22,481
Male	7197	162,512	45,904	6398	5669	795	228,475
Not Reported	39	922	210	26	27	2	1226
Organisation	182	2219	863	228	278	199	3969
Age of Registrant							
Oldest Generation 1891–1926	12	325	47	11	6	3	404
Lucky Generation 1927–1946	596	20,001	3718	1028	1217	202	26,762
Baby Boom 1947–1966	2989	78,681	22,165	4103	4246	555	112,739
Generation X & Y 1967–1986	3489	66,587	21,849	1908	1004	148	94,985
I Generation 1987–2006	1109	12,410	2382	118	59	4	16,082
Not Reported	41	905	207	23	31	3	1210
Organisation	182	2219	863	228	278	199	3969
Year of issue Recreational Marine Drivers Licence							
No License Issued	1305	21,598	5094	1108	1328	403	30,836
Not Recorded	5	152	40	8	4	3	212
1962 to 1980	392	17,009	4157	748	791	110	23,207
1981 to 2000	2453	63,243	19,644	2551	2089	311	90,291
2001 to 2016	4263	79,126	22,296	3004	2629	287	111,605
Year of issue Personal Water Craft							
No License Issued	3665	147,184	41,976	6089	5749	843	205,506
2005	1406	8705	3236	493	469	122	14,431
2006 to 2010	1090	8497	2542	390	270	75	12,864
2011 to 2016	2257	16,742	3477	447	353	74	23,350
Total	8418	181,128	51,231	7419	6841	1114	256,151

Table 7: Number of recreational ships by maritime region (selected years)

Regions	Brisbane	Gladstone	Mackay	Townsville	Cairns	Ex Qld	Total
	no.	no.	no.	no.	no.	no.	no.
Full Cabin Cruiser							
2011	10,024	2251	1091	894	992	185	15,437
2015	9871	2273	1147	938	1042	12	15,283
2016	9829	2241	1134	930	1063	10	15,207
Half Cabin Cruiser							
2011	13,814	4225	1731	2053	1894	59	23,776
2015	13,011	4243	1805	2011	1952	8	23,030
2016	12,883	4190	1813	1972	1989	8	22,855
Quarter Cabin Cruiser							
2011	3762	1155	476	499	628	17	6537
2015	4268	1337	551	603	736		7495
2016	4415	1360	546	605	757		7683
Bow Rider							
2011	5543	756	351	432	439	22	7543
2015	6372	919	426	469	530	1	8717
2016	6470	931	423	465	548		8837
Centre Console							
2011	5548	2281	1059	2009	1593	42	12,532
2015	6865	2909	1299	2509	2107	3	15,692
2016	7271	3036	1340	2640	2240	3	16,530
Sport/Ski Boat							
2011	3880	925	436	392	543	12	6188
2015	4389	1221	481	485	654	2	7232
2016	4409	1221	469	484	663	2	7248
Open Runabout							
2011	76,287	30,856	12,358	15,625	13,480	337	148,943
2015	78,637	32,252	13,216	15,941	13,819	35	153,900
2016	79,260	32,433	13,122	15,681	13,825	35	154,356
PWC/Jet-Ski							
2011	12,450	1453	685	827	627	68	16,110
2015	17,050	2010	881	919	932	3	21,795
2016	18,492	2164	889	897	990	3	23,435
Total							
2011	131,308	43,902	18,187	22,731	20,196	742	237,066
2015	140,463	47,164	19,806	23,875	21,772	64	253,144
2016	143,029	47,576	19,736	23,674	22,075	61	256,151

Table 8 : Number of recreational boat registrations by vessel length (selected years)

Length*	Column1	Column2	Column3	Percentage Change	Percentage Change	Average Annual Growth
Length	Jun-11	Jun-15	Jun-16	11/16	15/16	11/16
Length <= 3 m	3944	3634	3551	-9.96	-2.28	-2.08
3 m < Length <= 5 m	154,571	161,689	162,586	5.19	0.55	1.02
5 m < Length <=7.5 m	47,179	50,657	51,205	8.53	1.08	1.65
7.5 m < Length <= 10 m	7469	7387	7419	-0.67	0.43	-0.13
10 m < Length <= 15 m	6762	6887	6841	1.17	-0.67	0.23
15 m < Length <= 20 m	872	922	936	7.34	1.52	1.43
20 m < Length <=25 m	110	131	133	20.91	1.53	3.87
25 m < Length	49	42	45	-8.16	7.14	-1.69
Not Recorded						
Total	220,956	231,349	232,716	5.32	0.59	1.04
*Excludes PWC						

Table 9 : Number of recreational boat registrations by main engine power (selected years)

Engine Power*	Column1	Column2	Column3	Percentage Change	Percentage Change	Average Annual Growth
Kilowatts	Jun-11	Jun-15	Jun-16	11/16	15/16	11/16
0 < KWP <= 5	9146	8776	8676	-5.1	-1.1	-1.0
5 < KWP <=10	15,230	13,836	13,438	-11.8	-2.9	-2.5
10 < KWP <=25	74,790	78,289	78,510	5.0	0.3	1.0
25 < KWP <=50	49,288	53,697	54,450	10.5	1.4	2.0
50 < KWP <=100	35,989	37,646	38,193	6.1	1.5	1.2
100 < KWP <=150	19,218	20,486	20,831	8.4	1.7	1.6
150 < KWP <=300	13,101	14,482	14,553	11.1	0.5	2.1
300 < KWP <=500	849	968	985	16.0	1.8	3.0
500 < KWP	1698	1905	1942	14.4	1.9	2.7
Not Recorded	1647	1264	1138	-30.9	-10.0	-7.1
Total	220,956	231,349	232,716	5.3	0.6	1.0
*Excludes PWC						

Table 10 : Number of recreational ship registrations by cabin type (selected years)

Vessels Type	Column1	Column2	Column3	Percentage Change	Percentage Change	Average Annual Growth
Description	Jun-11	Jun-15	Jun-16	11/16	15/16	11/16
Full Cabin Cruiser	15,437	15,283	15,207	-1.5	-0.50	-0.3
Half Cabin Cruiser	23,776	23,030	22,855	-3.9	-0.76	-0.8
Quarter Cabin Cruiser	6537	7495	7683	17.5	2.51	3.3
Bow Rider	7543	8717	8837	17.2	1.38	3.2
Centre Console	12,532	15,692	16,530	31.9	5.34	5.7
Sport/Ski Boat	6188	7232	7248	17.1	0.22	3.2
Open Runabout	148,943	153,900	154,356	3.6	0.30	0.7
All Boats	220,956	231,349	232,716	5.3	0.59	1.0
PWC	16,110	21,795	23,435	45.5	7.52	7.8
Total	237,066	253,144	256,151	8.1	1.19	1.6

Table 11 : Number of recreational ship registrations by maritime regions (selected years)

Maritime Region	Column1	Column2	Column3	Percentage Change	Percentage Change	Average Annual Growth
Description	Jun-11	Jun-15	Jun-16	11/16	15/16	11/16
Brisbane	132,150	140,463	143,029	8.2	1.83	1.6
Gladstone	43,430	47,164	47,576	9.5	0.87	1.8
Mackay	18,072	19,806	19,736	9.2	-0.35	1.8
Townsville	22,933	23,875	23,674	3.2	-0.84	0.6
Cairns	20,368	21,772	22,075	8.4	1.39	1.6
Ex Qld	113	64	61			
Total	237,066	253,144	256,151	8.1	1.19	1.6

Table 12 : Number of New, Discontinued and Transferred ship Registrations (selected years)

Year	New Registrations	Discontinued Registrations	Transferred Registrations	Total
	no.	no.	no.	no.
Boats				
2011	17,027	14,965	17,654	220,956
2015	18,138	16,628	19,682	231,349
2016	18,329	17,292	19,788	232,716
PWC				
2011	2545	1094	1796	16,110
2015	3510	2107	2689	21,795
2016	3719	1749	2976	23,435