



Challenger ORH fishery: QMS (retained) species

Total commercial tows	64	78	112	106	154
Total observed tows	67	80	73	70	84
% tows observed	104.7%	102.6%	65.2%	66.0%	54.5%

Species	2008/09			2009/10			2010/11			2011/12			2012/13			Scaled up total 5-year catch	% of total catch	Average annual catch
	kg	%	tonnes	kg	%	tonnes	kg	%	tonnes	kg	%	tonnes	kg	%	tonnes			
Orange roughy	229,788	92.9%	229.8	332,083	98.6%	332.1	320,567	97.4%	491.8	238,623	94.6%	361.3	281,573	92.7%	516.2	1,931.3	95.2%	386.3
Spiky oreo	2,248	0.9%	2.2	488	0.1%	0.5	3,799	1.2%	5.8	6,401	2.5%	9.7	5,570	1.8%	10.2	28.5	1.4%	5.7
Ribaldo	838	0.3%	0.8	331	0.1%	0.3	767	0.2%	1.2	821	0.3%	1.2	2,134	0.7%	3.9	7.5	0.4%	1.5
Hake	270	0.1%	0.3	261	0.1%	0.3	284	0.1%	0.4	241	0.1%	0.4	418	0.1%	0.8	2.1	0.1%	0.4
Hoki	99	0.0%	0.1	138	0.0%	0.1	222	0.1%	0.3	325	0.1%	0.5	294	0.1%	0.5	1.6	0.1%	0.3
Cardinal fish		0.0%	0.0		0.0%	0.0	98	0.0%	0.2	163	0.1%	0.2	44	0.0%	0.1	0.5	0.0%	0.1
Pale ghost shark	35	0.0%	0.0	16	0.0%	0.0	36	0.0%	0.1	59	0.0%	0.1	111	0.0%	0.2	0.4	0.0%	0.1
Ray's bream	2	0.0%	0.0	1	0.0%	0.0	1	0.0%	0.0		0.0%	0.0	140	0.0%	0.3	0.3	0.0%	0.1
Sea perch	30	0.0%	0.0	17	0.0%	0.0	14	0.0%	0.0	9	0.0%	0.0	69	0.0%	0.1	0.2	0.0%	0.0
Smooth oreo	27	0.0%	0.0	13	0.0%	0.0	10	0.0%	0.0	16	0.0%	0.0	15	0.0%	0.0	0.1	0.0%	0.0
Silver warehou		0.0%	0.0		0.0%	0.0	27	0.0%	0.0		0.0%	0.0	2	0.0%	0.0	0.0	0.0%	0.0
Ghost shark	2	0.0%	0.0		0.0%	0.0	1	0.0%	0.0	13	0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0
Smooth skate		0.0%	0.0	7	0.0%	0.0		0.0%	0.0		0.0%	0.0	6	0.0%	0.0	0.0	0.0%	0.0
Blue shark		0.0%	0.0		0.0%	0.0		0.0%	0.0	11	0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0
Black oreo		0.0%	0.0		0.0%	0.0	1	0.0%	0.0	1	0.0%	0.0	9	0.0%	0.0	0.0	0.0%	0.0
Alfonsino		0.0%	0.0	2	0.0%	0.0	2	0.0%	0.0		0.0%	0.0	3	0.0%	0.0	0.0	0.0%	0.0
Ling		0.0%	0.0	6	0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0
Spiny dogfish		0.0%	0.0		0.0%	0.0		0.0%	0.0	3	0.0%	0.0	2	0.0%	0.0	0.0	0.0%	0.0
Giant stargazer	2	0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	3	0.0%	0.0	0.0	0.0%	0.0
King crab		0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	5	0.0%	0.0	0.0	0.0%	0.0
Arrow squid		0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	5	0.0%	0.0	0.0	0.0%	0.0
Lookdown dory		0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	2	0.0%	0.0	0.0	0.0%	0.0
Frostfish		0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	1	0.0%	0.0	0.0	0.0%	0.0
NZ Southern arrow squid		0.0%	0.0	1	0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0
Rough skate	1	0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0
Kingfish	1	0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0
QMS Total	233,343	94.3%	233.3	333,364	99.0%	333.4	325,829	99.0%	499.9	246,686	97.8%	373.6	290,406	95.6%	532.4	1,972.6	97.3%	394.5
ALL SPECIES	247,377	100.0%	247.4	336,694	100.0%	336.7	329,215	100.0%	505.1	252,224	100.0%	381.9	303,822	100.0%	557.0	2,028.1	100.0%	405.6

Where 5-year annual percentage catch exceeds 5%



Challenger ORH fishery: elasmobranch (potentially vulnerable) species

All commercial tows	64	78	112	106	154
All observed tows	67	80	73	70	84
Percentage of tows observed	104.7%	102.6%	65.2%	66.0%	54.5%

Species	2008/09			2009/10			2010/11			2011/12			2012/13			Scaled up total 5 yr catch	% of total catch	Average annual catch		
	Unit	kg	%	tonnes	kg	%	tonnes	kg	%	tonnes	kg	%	tonnes	kg	%				tonnes	
Leafscale gulper shark		1,072	0.4%	1.1	949	0.3%	0.9	1,197	0.4%	1.8	1,441	0.6%	2.2	2,412	0.8%	4.4	10.5	0.5%	2.1	
Other sharks and dogfish		9,051	3.7%	9.1		0.0%	0.0	8	0.0%	0.0		0.0%	0.0		0.0%	0.0	9.1	0.4%	1.8	
Shovelnose dogfish		634	0.3%	0.6	191	0.1%	0.2	411	0.1%	0.6	525	0.2%	0.8	726	0.2%	1.3	3.6	0.2%	0.7	
Smooth skin dogfish		581	0.2%	0.6	409	0.1%	0.4	139	0.0%	0.2	527	0.2%	0.8	781	0.3%	1.4	3.4	0.2%	0.7	
Plunket's shark		314	0.1%	0.3		0.0%	0.0	301	0.1%	0.5	494	0.2%	0.7	358	0.1%	0.7	2.2	0.1%	0.4	
Seal shark		197	0.1%	0.2	134	0.0%	0.1	283	0.1%	0.4	370	0.1%	0.6	172	0.1%	0.3	1.6	0.1%	0.3	
Longnose velvet dogfish		190	0.1%	0.2	244	0.1%	0.2	31	0.0%	0.0	129	0.1%	0.2	197	0.1%	0.4	1.0	0.1%	0.2	
Potuguese dogfish		111	0.0%	0.1	16	0.0%	0.0	4	0.0%	0.0	130	0.1%	0.2	325	0.1%	0.6	0.9	0.0%	0.2	
Widenosed chimaera		158	0.1%	0.2	241	0.1%	0.2	34	0.0%	0.1	88	0.0%	0.1	126	0.0%	0.2	0.8	0.0%	0.2	
Baxter's lantern dogfish		82	0.0%	0.1	62	0.0%	0.1	22	0.0%	0.0	97	0.0%	0.1	210	0.1%	0.4	0.7	0.0%	0.1	
Pale ghost shark		35	0.0%	0.0	16	0.0%	0.0	36	0.0%	0.1	59	0.0%	0.1	111	0.0%	0.2	0.4	0.0%	0.1	
Long-nosed chimaera		23	0.0%	0.0	11	0.0%	0.0	33	0.0%	0.1	14	0.0%	0.0	76	0.0%	0.1	0.2	0.0%	0.0	
Deepwater spiny skate			0.0%	0.0		0.0%	0.0		0.0%	0.0	30	0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0	
Slender smooth-hound			0.0%	0.0		0.0%	0.0	22	0.0%	0.0		0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0	
Ghost shark	2		0.0%	0.0		0.0%	0.0	1	0.0%	0.0	13	0.0%	0.0		0.0%	0.0	0.0	0.0%	0.0	
Longnosed deepsea skate			0.0%	0.0		0.0%	0.0	11	0.0%	0.0		0.0%	0.0	2	0.0%	0.0	0.0	0.0%	0.0	
Lucifer dogfish	3		0.0%	0.0	3		0.0%	0.0		0.0%	0.0	4		0.0%	0.0	4		0.0%	0.0	
Cat shark	2		0.0%	0.0	2		0.0%	0.0		0.0%	0.0	5		0.0%	0.0	4		0.0%	0.0	
Smooth skate			0.0%	0.0	7		0.0%	0.0		0.0%	0.0			0.0%	0.0	6		0.0%	0.0	
Electric ray			0.0%	0.0			0.0%	0.0	5		0.0%	0.0			0.0%	0.0	5		0.0%	0.0
Blue shark			0.0%	0.0			0.0%	0.0			0.0%	0.0	11		0.0%	0.0			0.0%	0.0
Prickly dogfish			0.0%	0.0			0.0%	0.0			0.0%	0.0	8		0.0%	0.0			0.0%	0.0
Etmopterus pusillus			0.0%	0.0			0.0%	0.0			0.0%	0.0	4		0.0%	0.0	2		0.0%	0.0
Spiny dogfish			0.0%	0.0			0.0%	0.0			0.0%	0.0	3		0.0%	0.0	2		0.0%	0.0
Chimaera spp.			0.0%	0.0			0.0%	0.0	5		0.0%	0.0			0.0%	0.0			0.0%	0.0
Notoraja asperula	1		0.0%	0.0			0.0%	0.0			0.0%	0.0	2		0.0%	0.0			0.0%	0.0
Frill shark			0.0%	0.0			0.0%	0.0			0.0%	0.0	2		0.0%	0.0			0.0%	0.0
Deepsea skates	3		0.0%	0.0			0.0%	0.0			0.0%	0.0			0.0%	0.0			0.0%	0.0
Notoraja spinifera	1		0.0%	0.0			0.0%	0.0			0.0%	0.0	1		0.0%	0.0			0.0%	0.0
Chimaera, purple			0.0%	0.0	2		0.0%	0.0			0.0%	0.0			0.0%	0.0			0.0%	0.0
Rough skate	1		0.0%	0.0			0.0%	0.0			0.0%	0.0			0.0%	0.0			0.0%	0.0
Elasmobranch total catch		12,461	5.0%	12.5	2,287	0.7%	2.3	2,543	0.8%	3.9	3,947	1.6%	6.0	5,529	1.8%	10.1	34.8	1.7%	7.0	
ALL SPECIES		247,377	100.0%	247.4	336,694	100.0%	336.7	329,215	100.0%	505.1	252,224	100.0%	381.9	303,822	100.0%	557.0	2,028.1	100.0%	405.6	



Challenger ORH fishery: wider area information

No additional information is provided as no species other than orange roughy made up more than 5% or 1% of the total catch.