

Appendix 1. Summary of commercial sampling for Div. 4TVW haddock in 1997.

The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	1	-	-	-
	# Measured	50	-	-	-
	# Aged	16	-	-	-
	Catch	2	1	3	0
4W	# Samples	-	-	1	-
	# Measured	-	-	109	-
	# Aged	-	-	25	-
	Catch	2	1	18	2

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	1
	# Measured	-	-	-	43
	# Aged	-	-	-	21
	Catch	1	2	13	1
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	1	3	37	36

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	2	0	0
4W	# Samples	-	2	-	-
	# Measured	-	148	-	-
	# Aged	-	19	-	-
	Catch	0	1	0	0

* Apply longline/handline & miscellaneous to trawl gear age/length key

Appendix 2. Summary of commercial sampling for Div. 4TVW haddock in 1998.
 The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	2	3	2
4W	# Samples	-	-	-	3
	# Measured	-	-	-	598
	# Aged	-	-	-	48
	Catch	3	4	12	55

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	1	-	-
	# Measured	-	88	-	-
	# Aged	-	25	-	-
	Catch	0	2	8	1
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	2	9	28	29

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	1	0	0
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	2	0	0

* Apply longline/handline & miscellaneous to trawl gear age/length key

Appendix 3. Summary of commercial sampling for Div. 4TVW haddock in 1999.
 The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	2	2	1	1
	# Measured	381	504	218	201
	# Aged	36	40	20	21
	Catch	1	9	3	7
4W	# Samples	2	-	-	-
	# Measured	399	-	-	-
	# Aged	31	-	-	-
	Catch	5	0	6	8

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	2	2	2
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	1	9	16	0

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	0	0	0
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	1	0	0

* Apply longline/handline & miscellaneous to trawl gear age/length key

Appendix 4. Summary of commercial sampling for Div. 4TVW haddock in 2000.
 The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	1	-	-
	# Measured	-	94	-	-
	# Aged	-	19	-	-
	Catch	5	4	3	6
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	3	0	3	5

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	2	-
	# Measured	-	-	168	-
	# Aged	-	-	45	-
	Catch	1	1	2	0
4W	# Samples	-	1	-	-
	# Measured	-	186	-	-
	# Aged	-	25	-	-
	Catch	0	21	13	1

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	0	0	0
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	0	0	0

* Apply longline/handline & miscellaneous to trawl gear age/length key

Appendix 5. Summary of commercial sampling for Div. 4TVW haddock in 1985 .

The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	10	18	5	7
	# Measured	2108	3891	1031	1583
	# Aged	164	185	69	24
	Catch	1588	4100	1737	703
4W	# Samples	2	3	2	1
	# Measured	623	663	417	206
	# Aged	29	22	16	-
	Catch	1308	722	103	116

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	7	81	113	50
4W	# Samples	-	1	3	1
	# Measured	-	205	576	88
	# Aged	-	25	79	-
	Catch	76	23	159	338

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	4	2	2
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	0	11	6

* Apply Miscellaneous to appropriate longline/handline age/length key.

Appendix 6. Summary of commercial sampling for Div. 4TVW haddock in 1986 .

The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	11	27	14	9
	# Measured	2837	6050	2938	1800
	# Aged	153	181	159	62
	Catch	876	4312	3530	952
4W	# Samples	5	4	1	5
	# Measured	1219	798	248	1126
	# Aged	72	91	23	55
	Catch	2307	298	432	2328

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	2	-
	# Measured	-	-	244	-
	# Aged	-	-	25	-
	Catch	4	122	212	54
4W	# Samples	-	3	11	8
	# Measured	-	525	1466	1126
	# Aged	-	85	185	117
	Catch	82	82	336	239

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	2	4	1
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	1	11	42	12

* Apply Miscellaneous to appropriate longline/handline age/length key.

Appendix 7. Summary of commercial sampling for Div. 4TVW haddock in 1987.

The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	6	11	8	4
	# Measured	1122	2134	1618	806
	# Aged	102	213	136	61
	Catch	280	902	612	337
4W	# Samples	1	6	1	2
	# Measured	157	1232	206	406
	# Aged	-	86	-	39
	Catch	77	129	168	123

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	1	-
	# Measured	-	-	288	-
	# Aged	-	-	24	-
	Catch	9	89	159	48
4W	# Samples	-	-	6	-
	# Measured	-	-	1004	-
	# Aged	-	-	121	-
	Catch	26	48	227	145

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	1	-
	# Measured	-	-	111	-
	# Aged	-	-	14	-
	Catch	0	12	2	0
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	4	24	20

* Apply Miscellaneous to appropriate longline/handline age/length key.

Appendix 8. Summary of commercial sampling for Div. 4TVW haddock in 1988 .

The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	5	9	14	6
	# Measured	997	1943	2884	1186
	# Aged	97	129	258	93
	Catch	222	932	782	410
4W	# Samples	2	-	1	-
	# Measured	423	-	203	-
	# Aged	54	-	17	-
	Catch	62	143	193	61

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	2	2	-
	# Measured	-	378	464	-
	# Aged	-	44	49	-
	Catch	14	88	331	83
4W	# Samples	-	2	9	-
	# Measured	-	369	1653	-
	# Aged	-	16	116	-
	Catch	19	96	398	126

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	9	9	1
4W	# Samples	-	-	1	-
	# Measured	-	-	130	-
	# Aged	-	-	20	-
	Catch	0	4	18	56

* Apply Miscellaneous to appropriate longline/handline age/length key.

Appendix 9. Summary of commercial sampling for Div. 4TVW haddock in 1989.

The boxes represent the aggregations used in the development of the age length keys.

Gear	OTB/SNU	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	10	11	9	8
	# Measured	1945	2385	1653	1552
	# Aged	213	252	158	141
	Catch	622	1649	655	215
4W	# Samples	1	7	4	-
	# Measured	279	1537	838	-
	# Aged	27	151	37	-
	Catch	155	653	555	300

Gear	Longline/handline *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	1	3	1	-
	# Measured	156	687	200	-
	# Aged	11	84	24	-
	Catch	11	116	227	107
4W	# Samples	-	2	5	-
	# Measured	-	392	945	-
	# Aged	-	21	74	-
	Catch	274	411	639	553

Gear	Miscellaneous *	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4TV	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	4	2	0
4W	# Samples	-	-	-	-
	# Measured	-	-	-	-
	# Aged	-	-	-	-
	Catch	0	6	25	10

* Apply Miscellaneous to appropriate longline/handline age/length key.