

Table 15b. Beginning of year weight-at-age estimates (kg) from a generalized Von Bertalanffy (VonB2) growth model described in Cadigan (2016b) fitted by cohort to average weight at age data for cod from autumn bottom-trawl surveys in Divs. 2J3KL from 1983-2015. Weights are projected to 2018.

Year	Age 1	Age 2	Age 3	Age 4	Age 5	Age 6	Age 7	Age 8	Age 9	Age 10	Age 11	Age 12	Age 13	Age 14	Age 15	Age 16	Age 17	Age 18	Age 19	Age 20
1983	0.01	0.07	0.21	0.44	0.78	1.26	1.89	2.55	3.43	4.34	5.84	7.49	9.39	11.29	13.48	15.35	16.54	18.09	19.57	20.98
1984	0.01	0.08	0.21	0.45	0.77	1.22	1.84	2.61	3.36	4.35	5.35	7.04	8.84	10.88	12.85	15.10	16.97	18.09	19.57	20.98
1985	0.01	0.08	0.21	0.44	0.78	1.21	1.77	2.52	3.43	4.26	5.37	6.43	8.31	10.24	12.39	14.42	16.70	18.53	19.57	20.98
1986	0.01	0.08	0.22	0.45	0.77	1.22	1.76	2.42	3.30	4.35	5.25	6.45	7.57	9.62	11.67	13.92	15.97	18.25	20.03	20.98
1987	0.01	0.08	0.22	0.46	0.78	1.21	1.77	2.40	3.17	4.18	5.35	6.30	7.60	8.76	10.97	13.11	15.42	17.48	19.74	21.45
1988	0.01	0.08	0.22	0.46	0.80	1.23	1.75	2.42	3.14	4.00	5.14	6.43	7.41	8.79	9.98	12.33	14.55	16.90	18.94	21.16
1989	0.01	0.08	0.22	0.46	0.81	1.26	1.78	2.39	3.16	3.95	4.90	6.16	7.57	8.57	10.01	11.21	13.69	15.97	18.34	20.34
1990	0.01	0.08	0.22	0.46	0.81	1.27	1.83	2.43	3.12	3.98	4.84	5.87	7.24	8.75	9.76	11.25	12.46	15.04	17.35	19.71
1991	0.01	0.08	0.23	0.47	0.81	1.28	1.84	2.50	3.17	3.93	4.87	5.79	6.88	8.35	9.96	10.97	12.50	13.70	16.36	18.69
1992	0.01	0.09	0.25	0.50	0.83	1.28	1.86	2.52	3.27	3.99	4.82	5.82	6.78	7.93	9.50	11.20	12.18	13.74	14.92	17.65
1993	0.01	0.08	0.25	0.54	0.90	1.32	1.86	2.55	3.30	4.13	4.89	5.76	6.82	7.81	9.01	10.67	12.43	13.40	14.97	16.13
1994	0.01	0.08	0.24	0.55	0.99	1.43	1.93	2.56	3.34	4.17	5.06	5.85	6.74	7.86	8.87	10.11	11.84	13.67	14.60	16.18
1995	0.02	0.08	0.24	0.53	1.00	1.60	2.12	2.67	3.35	4.21	5.11	6.06	6.85	7.77	8.92	9.94	11.22	13.01	14.88	15.78
1996	0.02	0.08	0.24	0.52	0.95	1.63	2.39	2.93	3.51	4.24	5.17	6.12	7.10	7.89	8.82	10.00	11.03	12.32	14.17	16.08
1997	0.02	0.09	0.24	0.51	0.93	1.52	2.43	3.34	3.88	4.45	5.21	6.19	7.18	8.19	8.96	9.88	11.08	12.11	13.42	15.32
1998	0.02	0.09	0.25	0.51	0.91	1.48	2.25	3.39	4.45	4.95	5.48	6.24	7.27	8.28	9.30	10.05	10.96	12.17	13.19	14.50
1999	0.02	0.09	0.26	0.53	0.90	1.45	2.18	3.13	4.52	5.70	6.12	6.58	7.33	8.38	9.40	10.43	11.14	12.03	13.25	14.25
2000	0.02	0.09	0.26	0.55	0.94	1.42	2.12	3.02	4.15	5.79	7.07	7.37	7.74	8.46	9.53	10.55	11.56	12.23	13.10	14.31
2001	0.02	0.09	0.27	0.56	0.98	1.49	2.07	2.92	3.99	5.30	7.19	8.54	8.69	8.95	9.62	10.69	11.70	12.69	13.31	14.15
2002	0.02	0.09	0.26	0.57	1.00	1.55	2.18	2.84	3.84	5.08	6.56	8.68	10.08	10.06	10.18	10.79	11.86	12.85	13.82	14.38
2003	0.02	0.09	0.26	0.55	1.02	1.58	2.27	3.00	3.73	4.87	6.26	7.90	10.23	11.66	11.46	11.43	11.97	13.02	13.98	14.92
2004	0.02	0.09	0.27	0.54	0.97	1.61	2.31	3.13	3.94	4.71	6.00	7.53	9.31	11.84	13.27	12.86	12.69	13.15	14.17	15.10
2005	0.02	0.09	0.27	0.56	0.95	1.53	2.36	3.19	4.11	4.99	5.78	7.19	8.86	10.76	13.46	14.86	14.27	13.94	14.32	15.31
2006	0.02	0.09	0.27	0.56	0.98	1.50	2.23	3.26	4.19	5.20	6.12	6.91	8.45	10.24	12.25	15.07	16.44	15.66	15.18	15.47
2007	0.02	0.09	0.27	0.56	0.99	1.53	2.16	3.06	4.28	5.31	6.39	7.33	8.11	9.75	11.64	13.73	16.66	17.97	17.01	16.39
2008	0.02	0.10	0.27	0.56	0.99	1.56	2.21	2.95	4.00	5.43	6.52	7.66	8.60	9.34	11.08	13.05	15.21	18.20	19.45	18.33
2009	0.02	0.10	0.27	0.56	0.99	1.55	2.25	3.02	3.85	5.05	6.67	7.81	8.98	9.91	10.60	12.41	14.46	16.66	19.68	20.85
2010	0.02	0.10	0.28	0.58	0.99	1.55	2.24	3.08	3.93	4.84	6.18	7.99	9.16	10.35	11.24	11.87	13.75	15.85	18.06	21.09
2011	0.02	0.10	0.29	0.59	1.01	1.55	2.24	3.05	4.01	4.94	5.91	7.38	9.36	10.55	11.73	12.58	13.14	15.07	17.20	19.42
2012	0.02	0.10	0.29	0.60	1.05	1.59	2.24	3.05	3.97	5.04	6.03	7.04	8.63	10.78	11.95	13.13	13.92	14.39	16.36	18.51
2013	0.02	0.10	0.29	0.61	1.06	1.64	2.30	3.06	3.98	4.99	6.15	7.18	8.22	9.92	12.21	13.36	14.51	15.23	15.63	17.62
2014	0.02	0.10	0.29	0.60	1.08	1.66	2.38	3.14	3.98	5.00	6.09	7.32	8.38	9.44	11.24	13.65	14.76	15.87	16.52	16.84
2015	0.02	0.10	0.28	0.60	1.06	1.70	2.41	3.25	4.09	5.01	6.10	7.25	8.55	9.61	10.68	12.55	15.07	16.14	17.19	17.78
2016	0.02	0.10	0.28	0.60	1.06	1.67	2.46	3.29	4.23	5.14	6.11	7.26	8.46	9.80	10.86	11.92	13.86	16.46	17.48	18.48
2017	0.02	0.10	0.28	0.59	1.05	1.66	2.41	3.36	4.29	5.32	6.27	7.27	8.47	9.70	11.08	12.12	13.16	15.16	17.82	18.77
2018	0.02	0.10	0.28	0.59	1.04	1.65	2.40	3.29	4.38	5.39	6.49	7.47	8.48	9.72	10.96	12.36	13.37	14.38	16.42	19.12