

2017 Kachemak Trawl Survey Summary

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Table 1: Male Tanner crab abundance estimates using the 2017 size class revisions from trawl surveys in the Southern District, 1990-2017. No survey was conducted in 2010 and 2014-2016

Year	Tows	Pre-4 (<66mm)	Pre-3 (66-79mm)	Pre-2 (80-95mm)	Pre-1 (96-113mm)	Legal (>114mm)	Legal CI	Total	Total CI
1990	14	434,468	336,711	556,501	493,498	893,456	674,240	2,714,634	1,145,882
1991	15	252,510	131,374	273,576	685,422	1,379,426	453,670	2,722,308	879,693
1992	15	209,831	71,948	134,688	381,086	1,978,010	1,054,687	2,775,565	1,097,301
1993	16	558,464	59,025	73,378	107,855	848,810	363,005	1,647,532	430,628
1994	16	260,137	127,473	161,944	101,303	356,246	156,693	1,007,104	451,486
1995	16	300,509	198,207	301,598	484,296	811,734	807,143	2,096,344	1,299,465
1996	16	176,841	32,054	49,592	454,902	742,974	595,718	1,456,364	1,174,485
1997	16	134,484	87,749	107,042	244,548	478,055	211,981	1,051,879	323,965
1998	16	320,868	16,134	9,216	20,131	403,196	347,716	771,087	373,615
1999	16	713,951	699,162	830,294	518,904	312,049	239,298	3,074,360	2,743,906
2000	16	446,734	231,376	345,433	316,831	480,494	261,368	1,820,868	754,144
2001	16	1,508,596	470,833	344,754	255,343	504,698	318,804	3,084,224	1,995,590
2002	14	1,673,386	908,731	838,260	369,526	311,822	244,971	4,101,726	2,098,934
2003	16	884,933	861,700	806,086	553,965	358,230	201,368	3,464,914	1,726,501
2004	16	635,416	355,266	1,041,375	723,209	868,018	460,041	3,623,284	1,875,763
2005	15	986,832	174,394	87,049	155,515	405,890	452,079	1,809,679	1,083,062
2006	17	970,276	133,238	113,845	191,802	456,127	583,967	1,865,289	1,828,893
2007	16	326,276	38,953	100,798	116,841	561,046	909,757	1,143,914	1,252,423
2008	16	528,442	87,852	187,970	125,792	351,461	425,347	1,281,516	787,437
2009	15	818,177	439,944	547,114	636,899	752,945	548,314	3,195,079	2,338,396
2011	37	4,005,798	190,619	78,819	32,032	139,263	121,689	4,447,159	1,983,355
2012	37	1,527,582	2,375,372	721,862	123,414	80,920	55,218	4,829,149	1,796,356
2013	37	778,423	390,244	716,835	1,098,146	192,637	105,523	3,179,046	975,058
2017	38	180,159	369,070	274,479	187,270	124,965	132,255	1,135,943	806,870

Table 2: Male Tanner crab abundance estimates using the pre-2017 size class definitions from trawl surveys in the Southern District, 1990-2017. No survey was conducted in 2010 and 2014-2016

Year	Tows	Pre-4 (<70mm)	Pre-3 (70-91mm)	Pre-2 (92-114mm)	Pre-1 (115-139mm)	Legal (>140mm)	Legal CI	Total	Total CI
1990	14	496,674	722,894	613,950	492,692	388,422	403,617	2,714,634	1,145,882
1991	15	293,894	277,640	802,800	848,159	499,815	226,608	2,722,308	879,693
1992	15	237,159	125,034	455,057	902,459	1,055,855	734,287	2,775,565	1,097,301
1993	16	578,321	89,958	135,248	325,507	518,498	254,074	1,647,532	430,628
1994	16	312,332	210,142	132,840	158,590	193,199	106,304	1,007,104	451,486
1995	16	356,090	389,839	565,725	506,325	278,365	296,245	2,096,344	1,299,465
1996	16	186,397	44,644	522,916	601,084	101,322	69,836	1,456,364	1,174,485
1997	16	171,929	123,219	287,722	325,897	143,111	80,729	1,051,879	323,965
1998	16	325,474	19,208	24,005	195,049	205,808	190,004	771,087	373,615
1999	16	911,483	1,160,291	697,642	200,663	104,282	91,894	3,074,360	2,743,906
2000	16	513,366	453,588	390,984	380,557	82,374	72,974	1,820,868	754,144
2001	16	1,619,958	655,741	319,106	392,469	96,951	61,266	3,084,224	1,995,590
2002	14	2,027,607	1,275,475	499,598	211,036	88,010	69,895	4,101,726	2,098,934
2003	16	1,228,442	1,188,614	710,246	288,894	48,717	52,980	3,464,914	1,726,501
2004	16	671,544	1,119,199	1,037,689	683,921	110,930	75,834	3,623,284	1,875,763
2005	15	1,043,700	185,975	186,987	347,339	45,676	41,786	1,809,679	1,083,062
2006	17	1,029,633	154,678	230,111	226,338	224,530	286,932	1,865,289	1,828,893
2007	16	339,466	92,716	176,167	373,061	162,504	238,989	1,143,914	1,252,423
2008	16	552,269	224,880	159,200	239,726	105,440	130,955	1,281,516	787,437
2009	15	1,000,556	643,343	852,512	554,785	143,882	141,993	3,195,079	2,338,396
2011	37	4,109,517	159,347	40,208	94,797	42,660	40,810	4,447,159	1,983,355
2012	37	2,031,199	2,532,088	188,265	57,085	20,512	20,105	4,829,149	1,796,356
2013	37	925,729	680,678	1,390,554	141,245	38,077	34,026	3,179,046	975,058
2017	38	234,313	553,408	230,471	110,673	7,078	8,329	1,135,943	806,870

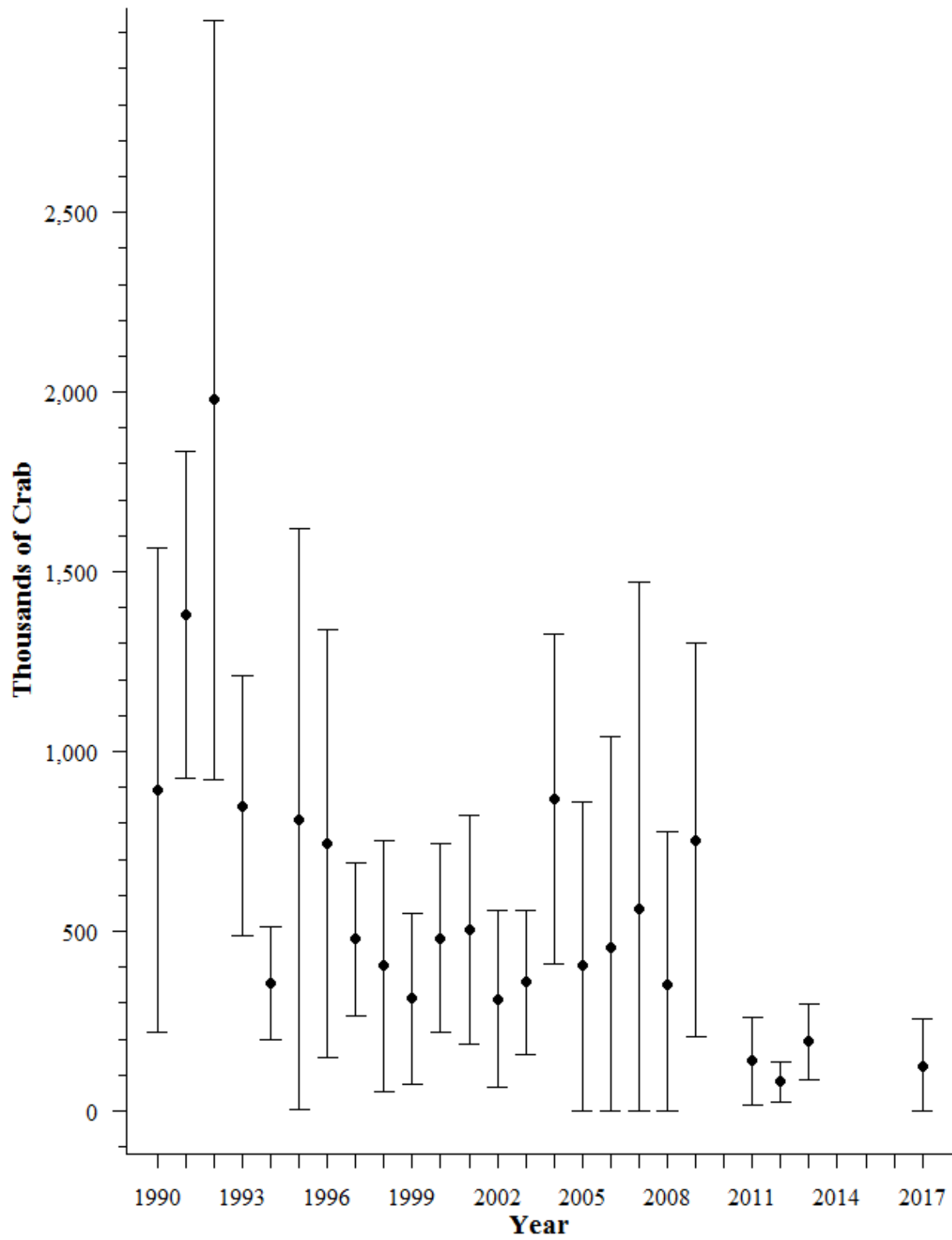


Figure 1: Legal male Tanner crab abundance estimates and 95% confidence intervals using the 2017 legal size (114 mm or 4.5 in) from trawl surveys in the Southern District, 1990-2017.

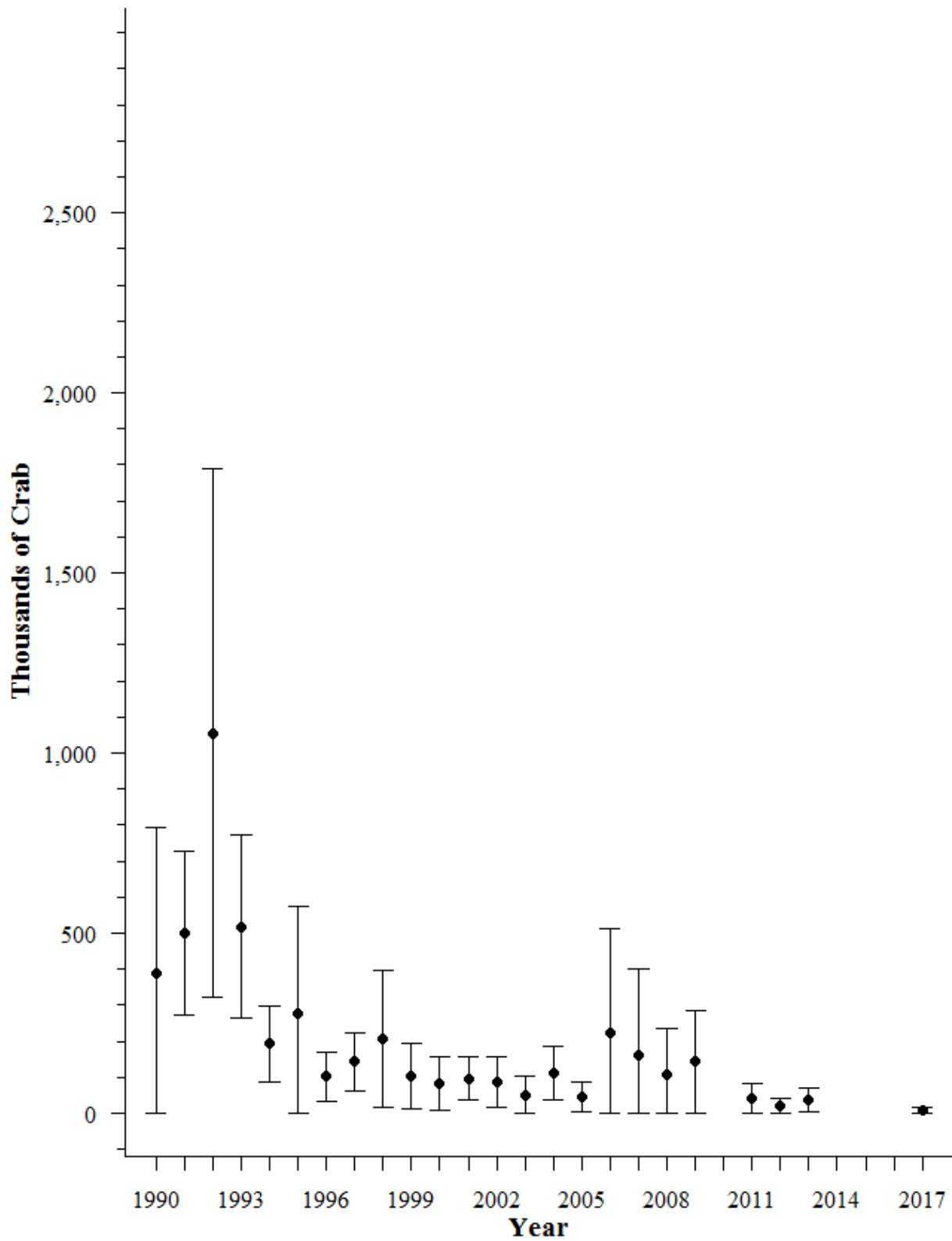


Figure 2: Legal male Tanner crab abundance estimates and 95% confidence intervals using the pre-2017 legal size (140 mm or 5.5 in) from trawl surveys in the Southern District, 1990-2017.