

## **Appendix 1.**

### **Description of the statistical material**

This paper presents time series that represent Swedish official statistics and cover the development of the pound net fishery in Kalmar County from 1931 to 2016. Data of the pound net fishery has been collected and presented in three main formats over the years. First, between 1931 and 1977, primary data was collected by regional interest organizations (called “hushållningssällskap” in Swedish) that support rural development. Fisheries officers at the county boards then gathered this information, adjusted it in accordance with sales notes from fish byers and reported it to the Swedish Statistical Agency (SSA). SSA published the material in statistical yearbooks, which included a specific table of the pound net fishery (Fig. A1.1). Second, between 1970 and 1979, number of fishers and fishing gear were not collected annually by the regional interest organizations and county board fisheries officers. During this period, the fishers were instead obliged to report their occupational status and used fishing gear to SSA every third year. Third, since 1979, fishers have reported catches and fishing effort based on gear type through logbooks. These logbooks are directly sent to the fisheries management agency.

These different formats were compiled into one common format in a Microsoft Access database. The statistics from the year books were digitalized, and the logbook data was accessed, sorted and aggregated based on gear type. The logbook data is comprised of anonymized data per fishing operation from 1980 to 2016 and number of vessels was used as a proxy for number of fishers during this period. This is considered as a reliable proxy because the vessels used in the pound net fishery are rather small and cannot fit more than one to two persons. It is yet possible that the format differences have influenced the dataset. To minimize such influence, the time-series was presented to the fisheries director of Kalmar who was asked validated them. In consultation with the fisheries director and after further investigations, some years were excluded due to low reliability. In summary, the best available information was used to identify the long-term trends of the pound net fishery and measures were taken to validate these trends. An overview of the statistical material is presented in table A1.1 and the raw data in table A1.2 and A1.3.

Län	Antal fiskare	Bottengarn m. m.		Sumpar		Pålkranar		Båtar	
		Antal	Värde 1 000 kr	Antal	Värde 1 000 kr	Antal	Värde 1 000 kr	Antal	Värde 1 000 kr
Gävleborgs . . . . .	17	18	42	—	—	—	—	—	—
Stockholms . . . . .	13	10	26	10	2	—	—	8	21
Kalmar läns norra del . . .	54	88	116	68	6	—	—	63	102
» » södra » . . . . .	293	512	2 028	441	46	96	161	412	395
Gotlands . . . . .	10	8	15	9	1	1	0	7	5
Blekinge . . . . .	258	313	1 417	258	49	67	102	202	254
Kristianstads									
Sydkusten . . . . .	237	409	732	171	52	18	32	139	53
Skålderviken m. m. . . .	23	17	51	—	—	7	2	16	13
Malmöhus . . . . .	318	457	1 673	279	68	78	111	166	424
Summa år 1952	1 223	1 832	6 100	1 236	224	267	408	1 013	1 267
» » 1951	1 168	1 663	5 796	1 201	195	273	386	955	1 107

I följande tablå lämnas uppgifter om fångsten länsvis.

Län	Sill o. strömming	Torsk	Flundre-fiskar	Makrill	Lax o. laxöring	Äl	Gädda	Annan fisk	Summa
Gävleborgs . . . . .	{ ton 4 1 000 kr 3	—	—	—	0 0	2 7	0 0	0 1	6 11
Stockholms . . . . .	{ ton — 1 000 kr —	0 0	0 0	—	—	10 48	0 0	0 0	10 48
Kalmar läns norra del . . . .	{ ton — 1 000 kr —	0 0	—	—	—	17 69	1 2	4 2	22 73
Kalmar läns södra del . . . . .	{ ton 1 1 000 kr 1	37 16	30 22	—	2 7	251 1 139	6 15	40 28	367 1 228
Gotlands . . . . .	{ ton — 1 000 kr —	1 0	0 0	—	—	1 6	—	0 1	2 7
Blekinge . . . . .	{ ton 7 1 000 kr 4	15 8	3 2	—	—	239 994	3 6	1 1	268 1 015
Kristianstads	{ ton — 1 000 kr —	0 0	—	—	4 30	231 937	—	0 0	235 967
Kristianstads	{ ton 1 1 000 kr 1	12 5	1 1	20 13	5 35	—	—	7 3	46 58
Skåldervik m. m. . . . .	{ ton 9 1 000 kr 8	171 86	29 26	49 30	2 14	332 1 216	0 0	75 35	667 1 415
Summa år 1952	{ ton 22 1 000 kr 17	236 115	63 51	69 43	13 86	1 083 4 416	10 23	127 71	1 623 4 822
» » 1951	{ ton 59 1 000 kr 43	423 178	99 75	94 51	13 35	1 296 4 786	9 19	125 70	2 118 5 257

Figure A1.1. Presentation of the pound net fishery in the statistical year books. This example refers to 1952.

Table A1.1. Overview of the statistical material. Pound net value and price per kilo fish were compensated for inflation using the Swedish Consumer Price Index (CPI).

Variable	Unit	Source	Missing values	
			Year	Reason
Catch	Metric ton (mt)	Statistical yearbook	1978	No available information
		Fisheries logbook	1979-1984, 1994-1995	Low reliability
Pound net fishery		Statistical yearbook	1931-1978	No available information
		Fisheries logbook	1979-1996	No available information
Other gear types		Statistical yearbook	1931-1978	No available information
		Fisheries logbook	1979-1996	No available information
Number fishers	Number	Statistical yearbook	1931, 1939-1942, 1971-1972, 1974-1975, 1977-1978	No available information
		Fisheries logbook (number of vessels as an proxy)	1979-1984; 1994-1995	Low reliability
Pound net value	1000 SEK (TSEK)	Statistical year book	1931, 1939-1942, 1971-1972, 1974-1975, 1977-1978	No available information
		Fisheries logbook	1980-2016	No available information
Fish price	Price per kilo (SEK/kg)	Swedish official statistics compiled by Hentati-Sundberg		

Table A1.2. Raw data of the pound net fishery in Kalmar County. Catch is presented in metric ton and catch value is presented in thousand Swedish krona (TSEK).

Yr	Eel catch (mt)	Eel catch value (TSEK)	Other catch (mt)	Other catch value (TSEK)	Pound net value (TSEK)	Fisher
1931	455	19914	156	3641	NA	NA
1932	329	15017	186	1971	36647	642
1933	412	18193	323	2044	38248	650
1934	487	21444	219	1654	37096	647
1935	501	23153	368	2615	35941	671
1936	482	21096	219	1920	36203	689
1937	551	24300	189	1315	37640	697
1938	526	23830	174	1394	39613	720
1939	661	29240	258	2136	NA	NA
1940	583	27637	271	2084	NA	NA
1941	494	27114	431	4340	NA	NA
1942	297	19068	284	3771	NA	NA
1943	323	21533	120	1453	21298	416
1944	480	28202	254	1861	23716	391
1945	394	25164	243	1875	25898	385
1946	391	24875	262	1896	28619	373
1947	402	24546	274	1765	31569	382
1948	333	20931	109	561	30482	367
1949	329	18616	114	550	32633	360
1950	460	28921	131	654	34956	332
1951	348	18494	155	639	32829	327
1952	268	14560	121	687	29944	347
1953	422	21628	169	900	31958	340
1954	347	20294	167	780	32193	337
1955	413	22618	212	1302	31275	328
1956	351	20916	294	1730	31330	326
1957	459	26798	316	1945	30428	326
1958	342	20673	278	1748	31866	332
1959	589	33324	313	1861	33458	347
1960	422	25820	272	1705	33076	347
1961	555	36312	342	2007	34967	319
1962	466	34293	321	1787	38768	347
1963	487	33339	351	1798	46288	342
1964	417	31613	344	1694	47089	365
1965	450	37304	394	2059	53551	356
1966	504	38286	558	2420	51544	354
1967	432	32309	661	2544	57007	359
1968	505	36852	482	1992	60058	298
1969	451	32510	456	2214	61311	306
1970	342	28050	485	3197	66475	240
1971	373	30953	342	2034	NA	NA

1972	403	32394	343	2078	NA	NA
1973	368	30397	295	2050	70163	237
1974	282	25976	386	2737	NA	NA
1975	411	36735	365	2362	NA	NA
1976	233	17537	258	1812	66814	184
1977	207	16992	255	1567	NA	NA
1978	NA	NA	NA	NA	NA	NA
1979	NA	NA	NA	NA	86694	150
1980	NA	NA	NA	NA	NA	NA
1981	NA	NA	NA	NA	NA	NA
1982	NA	NA	NA	NA	NA	NA
1983	NA	NA	NA	NA	NA	NA
1984	NA	NA	NA	NA	NA	NA
1985	77	6128	137	959	NA	30
1986	64	5012	53	387	NA	26
1987	47	3797	51	335	NA	25
1988	93	6582	76	378	NA	37
1989	87	5859	63	442	NA	53
1990	104	6146	55	476	NA	52
1991	121	7271	63	369	NA	48
1992	145	7055	59	260	NA	49
1993	105	5672	50	233	NA	51
1994	NA	NA	NA	NA	NA	NA
1995	NA	NA	NA	NA	NA	NA
1996	21	1346	9	93	NA	38
1997	33	2180	9	90	NA	28
1998	17	1060	13	97	NA	27
1999	19	1190	7	54	NA	40
2000	24	1218	7	57	NA	31
2001	26	1599	5	35	NA	35
2002	32	1638	3	72	NA	31
2003	31	1634	3	26	NA	28
2004	15	859	5	33	NA	22
2005	20	1341	6	39	NA	26
2006	42	2788	5	38	NA	26
2007	58	4213	7	55	NA	30
2008	52	2826	6	54	NA	23
2009	25	1322	5	58	NA	21
2010	29	1564	6	71	NA	24
2011	20	1318	12	110	NA	29
2012	17	1566	14	136	NA	29
2013	21	1879	9	58	NA	29
2014	27	1724	12	124	NA	37
2015	16	1022	5	65	NA	28
2016	13	830	6	45	NA	29

Table A1.3. Raw data of catch and catch value that pound net fishers landed with other gear types than pound nets. Catch is presented in metric ton (mt) and catch value is presented in thousand Swedish krona (TSEK).

Yr	Eel catch (mt)	Eel catch value (TSEK)	Other catch (mt)	Other catch value (TSEK)
1996	0,6	41	22	171
1997	0,0	0	0,5	3
1998	0,0	0	1,2	40
1999	0,4	26	28	403
2000	0,0	0	11	140
2001	0,3	17	19	296
2002	0	0	24	363
2003	0	0	10	130
2004	0	0	6	71
2005	0,3	18	11	132
2006	1,5	98	55	208
2007	1,6	115	36	235
2008	1,8	97	28	204
2009	1,2	63	21	114
2010	1,5	80	32	123
2011	1,7	110	21	88
2012	1,8	162	7	92
2013	2,3	207	3	40
2014	3,4	217	7	84
2015	2,8	180	9	120
2016	2,7	170	4	59