

## Appendix 1

### Year by Year plots for cod, haddock, and yellowtail in the DFO, NEFSC spring, and NEFSC fall surveys

**NOTE: This file is quite large and colorful. Please do not print unless necessary.**

The following pages contain a set of 9 plots on each page, with each page a separate year as noted in the top left corner of the top left plot. The three rows show catch (kg/tow) of cod (blue), haddock (red), and yellowtail flounder (purple). The three columns are the DFO (left), NEFSC spring (middle), and NEFSC fall (right) surveys. The scale bar is the same for each species over time, but differs among species. The size of the bubble is proportional to the catch at that station. Catches below the smallest positive value in the scale legend are denoted by the symbol for the smallest positive value in the scale legend (to improve readability of small catches). Catches above the largest symbol in the scale legend are not replaced by the largest symbol in the scale legend, see particularly the DFO catches of yellowtail flounder in 2007 and 2008. Although the DFO survey generally has higher catch rates for all three species than the NEFSC surveys, the same scaling was used for all three surveys to easier comparisons across surveys. The values shown in the scale legends for each species were selected based on the distribution of positive catches from all years (see table below).

Distribution of positive catches by species and survey for years 1963-2010. Catches are in kg.

%ile	Cod			Haddock			Yellowtail Flounder		
	DFO	Spring	Fall	DFO	Spring	Fall	DFO	Spring	Fall
0%	0.013	0.001	0.002	0.036	0.001	0.003	0.001	0.002	0.001
10%	1.949	1.620	1.458	1.853	0.755	0.200	0.647	0.300	0.370
20%	3.889	3.573	2.860	4.126	1.963	0.755	1.029	0.500	0.640
30%	6.809	5.695	4.374	8.448	3.634	2.114	2.059	0.765	1.020
40%	11.104	8.100	6.642	16.420	5.900	5.267	3.189	1.158	1.580
50%	17.500	11.390	9.558	32.667	9.513	9.588	5.147	1.792	2.560
60%	27.273	15.739	13.770	59.500	15.100	19.750	8.277	2.556	4.134
70%	42.126	22.691	19.764	109.380	25.309	35.363	14.045	3.844	6.400
80%	67.015	34.812	29.192	232.650	44.156	61.946	25.235	6.760	10.880
90%	135.960	58.666	49.223	584.750	106.702	140.219	72.895	13.958	24.280
100%	3524.700	4445.798	678.030	7928.000	1786.330	4946.837	7525.600	164.600	175.840











































































































