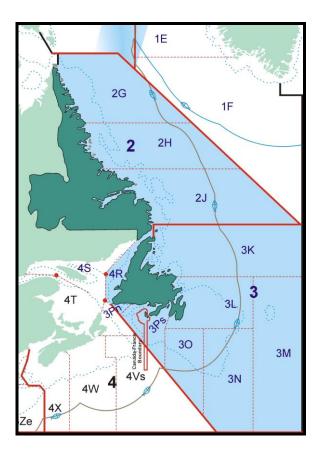
Profile of Commercial Fishery in NAFO Division 4R Newfoundland and Labrador (NL) Region



Prepared for:

Community-University Research for Recovery Alliance, Memorial University

Prepared by:

Sharmane Allen

January 2013

Table of Contents

1. Overall Landings and Values for Newfoundland and Labrador by NAFO Division	
2. Landings and Values by Fleet Category (1998-2011)	
3. Landings and Value by Fleet Category and Species (1998-2011)	
4. Active Fishing Enterprises by Vessel Category (1998-2011)	
5. Average Income by Fleet Category (1998-2011)	
6. Landed Value by Month (1998-2011)	
Appendix A: Licence Profile (2006-2011)	
Appendix B: Map – DFO Statistical Sections	
Appendix C: Detailed Landings and Values (1998-2011) (Attached Excel Data File) ¹	
Appendix D: Historic Landings and Values (1975-1997) (Attached Excel Data File) ²	

¹ The data file contains fish/marine species that were landed in NAFO Divisions 4R during the 1998-2011. This data file is based on fish caught by harvesters homeported in 4R. However, their catches may have been caught in NAFO Divisions outside of their homeport NAFO Division.

² The data file contains species that were landed in NAFO Divisions 3Pn and 4R during the 1975 to 1997 period. Whereas the 1998-2011 data is based on fish caught by harvesters homeported in either 3Pn or 4R, the historic data shows total landings regardless of who or where the fish was caught.

1. Introductory Notes

- This report documents the landings and values of active fishing enterprises homeported (i.e. located) in NAFO Division 4R, irrespective of where they catch or land their fish. DFO defines an active fishing enterprise as one that reports commercial landings to DFO for the given calendar year in which the enterprise was registered.
- NAFO Division 4R is managed by the DFO office in Corner Brook. The division includes DFO Statistical Section 1, and 40-51 (see *Appendix-B*). Due to confidentiality reasons the data will be presented at the NAFO level by inshore (< 34'11"), nearshore (35'-64'11"), midshore/offshore (>65') fleets.
- Two time series are documented in this report: 1975 to 1997 and 1998 to 2011. The different series were warranted because DFO changed its data collection processes in 1998 to include additional detail (e.g. reports by fisher, inclusion of discards, etc.). This report focuses on the 1998-2011 dataset.

2. NAFO Division 4R Landed Volumes and Landed Value in Provincial Context

• As illustrated in *Tables 1* and 2, over the 1998 to 2011 period, on average NAFO Division 4R accounted for approximately 21% of the Province's total landings and approximately 10% of the total annul landed value.

Т	Table 1: Landed Volumes (MT) by Homeport NAFO Division 1998-2011								
Homeport NAFO	1998- 2004 Ave.	2005	2006	2007	2008	2009	2010	2011	
2H	231	212	191	300	118	108	104	147	
2J	7,776	7,385	8,532	8,116	8,445	6,696	7,443	7,761	
3K	48,799	70,729	74,646	66,180	69,512	50,880	49,684	43,311	
3L	126,724	139,577	137,031	135,228	136,605	141,737	150,313	131,828	
3PN	3,187	2,560	2,732	2,262	2,231	2,328	1,267	1,099	
3PS	29,938	27,357	28,516	27,465	27,878	23,629	23,922	23,263	
4R	50,463	64,873	69,336	72,501	69,116	75,553	68,446	55,463	
UKNAFO ³	320	3,029	982	173	176	68	96	77	
Total	267,438	315,723	321,966	312,226	314,081	300,998	301,274	262,949	

Tab	Table 2: Landed Values (\$CAN '000) by Homeport NAFO Division 1998-2011								
Homeport NAFO	1998- 2004 Ave.	2005	2006	2007	2008	2009	2010	2011	
2H	681	603	448	992	379	285	300	613	
2J	18,383	11,424	12,724	14,530	15,038	10,897	12,835	18,670	
3K	100,514	80,628	76,581	85,633	99,350	69,622	69,059	93,831	
3L	269,090	240,109	196,558	241,894	260,257	263,362	281,438	358,179	
3PN	4,291	3,363	3,832	4,393	4,377	3,512	2,447	2,595	
3PS	62,731	44,331	41,850	52,120	50,908	40,708	41,346	59,019	
4 R	47,090	55,424	57,920	57,854	57,474	41,395	45,624	54,373	
UKNAFO	686	4,074	1,647	1,364	1,533	438	693	589	
Total	503,466	439,956	391,560	458,780	489,316	430,218	453,741	587,869	

³ NDNAFO – Unidentified NAFO Division

3. Overall Landed Volumes and Landed Value by Fleet Category (1998-2011)

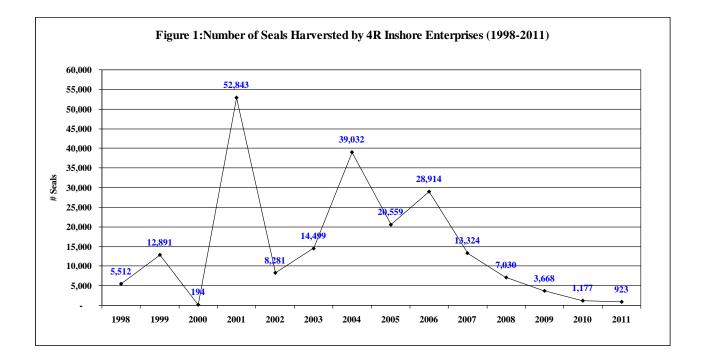
- The average annual landings for the inshore fleet over the 1998-2011 period was 7,515 MT with an average landed value of \$18 million (*Table-3*). On average the inshore fleet accounted for 14% of the division's landings, and 36% of the landed value
- The total average landings for the nearshore fleet over the 1998-2011 period was 33,283 MT with an average landed value of \$28 million (*Table-3*). On average the nearshore fleet accounted for 55% of the division's landings, and 55% of the landed value.
- The total average landings for the mid/offshore fleet over the 1998-2011 period was 18,382 MT with an average landed value of \$4 million (*Table-3*). On average the nearshore fleet accounted for 31% of the division's landings and 9% of the landed value.

Table 3: Total La	Table 3: Total Landed Volume (MT) and Landed Value (\$CAN '000) by Fleet CategoryNAFO Division 4R (1998-2011)							gory			
Landings/Values	1998/- 2004 Ave.	2005	2006	2007	2008	2009	2010	2011			
Inshore Landings	7,717	8,396	8,515	7,754	6,288	7,061	5,872	7,308			
Nearshore Landings 25,553 36,829 41,642 44,322 43,066 45,190 42,116 33,926											
Mid/Offshore Landings	17,193	19,647	19,178	20,425	19,762	23,302	20,458	14,229			
Inshore Value	19,182	19,953	21,334	21,835	19,175	11,962	10,760	12,329			
Nearshore Value	24,273	29,933	31,811	30,857	33,517	23,700	29,313	37,721			
Mid/Offshore Value	3,635	5,538	4,774	5,163	4,782	5,733	5,549.	4,322			
Total Landings	50,463	64,873	69,336	72,501	69,116	75,553	68,446	55,463			
Total Value	47,090	55,424	57,920	57,854	57,474	41,395	45,624	54,373			

4. Landings, Value and Prices by Fleet Category and Species (1998-2011)

- During the 1998 to 2011 period, the inshore fleet recorded catches for 51 different species. As *Table-4* illustrates, the major species landed by this fleet were cod, herring, capelin, lobster, and snow crab, on average accounting for 29%, 17%, 14%, 12% and 7% respectively. On average, mackerel, Iceland scallops, turbot, and lumpfish roe accounted 5%, 4%, 3%, and 2% respectively.
- In 2011, cod landings decreased substantially compared to the 1998 to 2010 period, accounting for only 9% of the total landings. Herring, capelin, lobster and snow crab accounted for 34%, 28%, 9%, and 6% respectively. *Figure-1* illustrates the sharp decline in the harvest of seals by the 4R inshore fleet in recent years, primarily due to decreased activity and poor markets. In 2011, only 932 pelts were landed compared to the all-time high of 52,843 pelts in 2001.

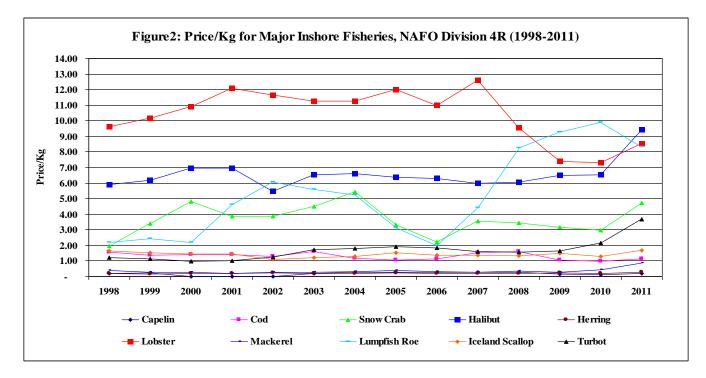
Т	able 4: Ins	shore Lan	dings (kg)	by Major	Species N	AFO Divi	sion 4R	
Species	Ave. 1998 -2004	2005	2006	2007	2008	2009	2010	2011
Cod	2,346,802	1,937,792	2,273,757	2,804,939	2,695,254	1,989,833	1,550,223	681,118
Herring	1,406,888	1,409,401	1,210,005	793,275	652,208	836,745	930,534	2,463,169
Capelin	566,754	1,943,406	1,800,119	1,167,213	771,927	1,960,854	1,182,078	2,034,446
Lobster	862,934	1,026,234	1,106,467	1,085,410	1,218,358	944,068	866,768	660,546
Snow Crab	791,881	494,073	416,458	332,008	214,786	177,324	125,178	406,343
Mackerel	249,648	494,892	783,374	931,905	90,362	503,020	499,021	206,515
Iceland Scallop	377,726	227,414	290,284	172,783	72,261	107,165	133,994	280,979
Turbot	202,459	274,896	250,181	186,810	183,739	198,611	227,387	221,588
Lumpfish Roe	226,255	136,227	94,815	56,475	98,348	9,895	42,677	32,151
Amer. Plaice	142,893	65,192	32,034	56,227	35,862	86,667	58,173	54,427
Whelks	83,720	55,220	22,296	8,175	11,891	5,073	2,982	63,335
Halibut	23,877	41,193	45,959	40,951	88,960	131,798	91,546	98,704
Skate	82,543	11,121	23,670	20,807	16,459	5,658	8,537	6,646
Other	352,929	279,067	166,003	97,109	137,228	103,852	152,769	98,132
Total	7,717,308	8,396,129	8,515,423	7,754,087	6,287,643	7,060,564	5,871,868	7,308,100



Over the 1998 to 2011 period, lobster accounted for 54% of the landed value in NAFO Division 4R, while cod and snow crab accounted for 16% and 12% respectively (see *Table-5*). In 2011, lobster accounted for 46%, while snow crab represented 16% and cod dropped to 6%. In terms of average landed value during the 1998 to 2010 period, seals, lumpfish roe, Iceland scallops, turbot, and halibut were also important fisheries. In 2011, the seal fishery contributed little to the annual landed value while halibut, turbot, herring, and Iceland scallops contributed 8%, 7%, 5%, and 4% respectively.

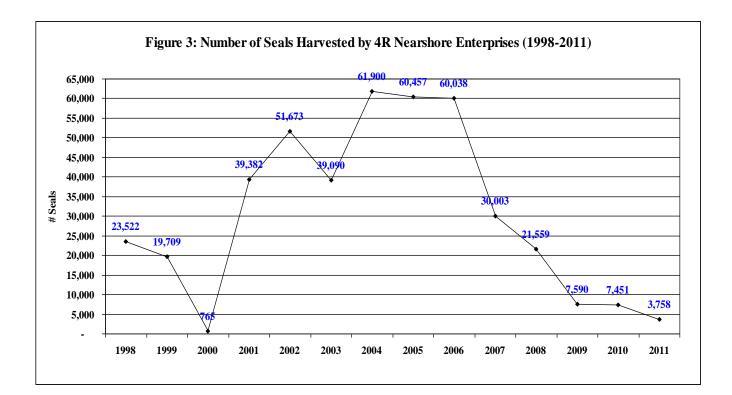
Т	able 5: Insl	hore Lande	d Value (\$	CAN) by M	ajor Specie	es NAFO D	ivision 4R	
Species	Ave.1998- 2004	2005	2006	2007	2008	2009	2010	2011
Lobster	9,532,983	12,305,318	12,150,230	13,664,523	11,647,585	6,989,131	6,334,802	5,633,763
Cod	3,219,656	2,026,109	2,590,009	4,315,533	4,295,808	2,092,931	1,537,304	781,026
Snow Crab	3,248,651	1,645,405	920,265	1,181,033	738,065	565,122	372,555	1,926,019
Seal Pelts	595,575	985,849	3,011,896	673,400	230,252	49,471	17,038	12,104
Lumpfish Roe	626,049	424,103	188,126	248,804	810,627	91,519	422,025	267,221
Iceland Scallops	549,008	349,631	393,081	237,965	95,238	160,857	173,710	475,357
Turbot	271,863	528,353	461,298	299,521	287,232	327,217	487,747	812,153
Halibut	153,636	263,382	289,988	244,497	538,319	853,037	599,245	930,039
Capelin	132,088	513,749	469,054	313,163	198,274	302,603	143,331	363,074
Herring	262,893	332,666	249,929	162,429	124,724	184,407	182,039	646,615
Mackerel	75,202	185,807	257,604	266,785	31,793	142,514	216,888	179,940
Eels	71,142	108,358	219,872	124,426	46,769	67,654	127,974	97,759
Other	443,672	284,353	132,622	102,506	130,543	135,747	145,605	204,251
Total	19,182,419	19,953,083	21,333,973	21,834,586	19,175,230	11,962,209	10,760,261	12,329,322

- As *Figure-2* shows, the price/kg of most major species caught by the inshore fleet during the 1998 to 2011 period was below \$2.00. In contrast the average price for lobster, halibut, lumpfish roe, and snow crab over this period was \$10.38, \$6.56, \$5.25 and \$3.66 respectively. In recent years the price of lobster dropped considerably but improved in 2011 to \$8.53/kg. With the exception of lumpfish roe, the price/kg increase slightly for each of the major species in 2011.
- The average price for cod over the 1998 to 2011 period was \$1.31/kg, while in 2011 the price was \$1.15/kg. The average price per seal pelt during the 1998 to 2011 period was \$34.01, going as high as \$104.17 in 2006 and as low as \$7.09 in 2000. In 2011, the average price was \$13.11.



- During the 1998 to 2011 period, the nearshore fleet recorded catches for 53 different species. As *Table-6* illustrates, the primary species landed in NAFO Division 4R during this period was shrimp, mackerel, herring, and capelin, on average accounting for 45%, 24%, 15%, and 9% of total annual landings respectively. In 2011, shrimp accounted for 45% of total landings, while herring, capelin and mackerel accounted for 23%, 15%, and 13%. On average turbot accounts for 3% of total landings, while cod, snow crab, and Iceland scallops average 1% each.
- *Figure-3* illustrates the sharp decline in the harvest of seals by the 4R nearshore fleet in recent years, primarily due to decreased activity and poor markets. In 2011, only 3,758 pelts were landed compared to the all-time high of 61,900 pelts in 2004.

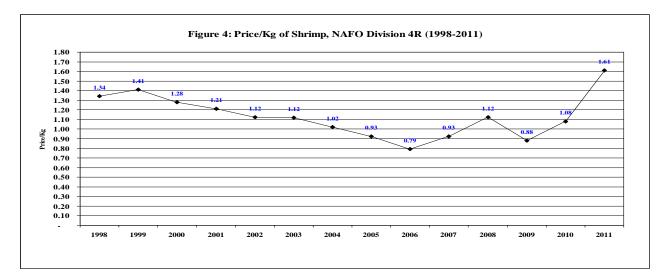
	Table 6: Nearshore Landings (kg) by Major Species NAFO Division 4R								
Species	Ave.1998- 2004	2005	2006	2007	2008	2009	2010	2011	
Shrimp	12,422,017	18,281,615	19,009,755	19,709,485	20,136,438	13,332,863	16,627,616	15,344,035	
Mackerel	5,138,756	8,555,565	10,175,455	15,026,001	8,450,134	16,538,086	10,843,329	4,357,087	
Herring	3,221,972	5,129,010	6,093,975	4,350,948	8,905,792	8,282,033	8,127,649	7,701,592	
Capelin	1,960,444	2,355,886	3,841,150	2,992,661	3,691,466	5,065,790	4,678,299	5,021,319	
Turbot	961,848	912,791	772,727	742,791	587,166	876,164	986,285	814,877	
Cod	382,811	435,580	666,242	728,273	725,503	529,085	384,269	132,285	
Snow Crab	635,578	342,722	120,038	226,019	166,129	108,652	85,787	209,838	
Iceland Scallop	338,329	215,519	368,056	109,592	38,368	138,434	111,893	149,739	
Redfish	238,878	259,465	251,588	77,774	4,333	40,708	1,702	321	
Other	252,550	341,294	342,745	358,585	360,366	278,386	268,928	195,196	
Total	25,553,183	36,829,447	41,641,732	44,322,130	43,065,694	45,190,202	42,115,757	33,926,288	



• In terms of landed value shrimp was the primary nearshore fishery over the 1998 to 2011 period, accounting for 60% of the total landed value (*Table-7*). The mackerel, snow crab, turbot, herring, and lobster fisheries accounted for 10%, 6%, 5%, 4%, and 3% respectively. On average, the cod and capelin each accounted for 2%, while halibut and Iceland scallops each average 1%. In 2011, the shrimp fishery accounted for 65% of the total landed value, while mackerel, turbot, and herring accounted for 11%, 8%, and 5% respectively. While seals accounted for 5% of the average landed value during the 1998 to 2011 period, in 2011 they represented just 0.2% of total landings. Cod landings in 2011 only accounted for 0.4% of total landings.

Та	Table 7: Nearshore Landed Value (\$CAN) by Major Species NAFO Division 4R								
Species	Ave. 1998- 2004	2005	2006	2007	2008	2009	2010	2011	
Shrimp	14,802,516	16,927,533	15,080,637	18,238,522	22,640,324	11,757,452	17,962,049	24,694,046	
Mackerel	1,368,416	3,086,617	3,286,332	4,115,505	2,802,370	5,104,216	4,779,724	4,305,448	
Snow Crab	2,552,391	1,136,484	259,673	791,696	569,018	342,148	255,319	994,609	
Turbot	1,288,228	1,754,376	1,424,771	1,190,952	917,894	1,439,796	2,114,342	2,988,410	
Seals	1,236,522	2,718,897	6,206,140	1,461,284	687,238	110,441	104,578	62,369	
Herring	556,095	1,234,649	1,178,466	869,889	1,653,360	1,825,857	1,609,336	2,020,478	
Lobster	464,194	1,017,420	1,339,152	1,643,760	1,355,543	819,541	849,928	757,248	
Capelin	429,349	682,571	1,085,576	802,079	943,259	781,763	566,708	896,670	
Cod	519,087	456,971	788,229	1,100,911	1,180,276	556,488	380,753	151,433	
Halibut	287,306	357,031	379,694	322,557	600,156	686,503	475,326	544,186	
Iceland Scallop	500,485	284,731	496,356	150,057	54,430	207,796	145,058	253,327	
Other	268,872	275,363	286,430	169,332	112,738	67,951	70,344	53,028	
Total	24,273,462	29,932,643	31,811,456	30,856,543	33,516,608	23,699,953	29,313,466	37,721,252	

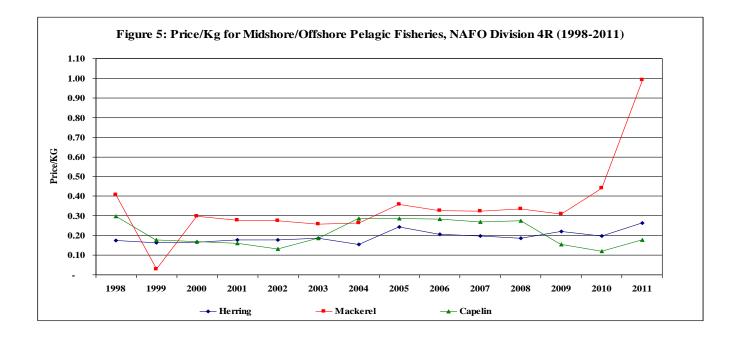
• The average market prices for species fished by the nearshore fleet are comparable to prices paid in the inshore fisheries (see *Figure-3*). As *Figure-4* illustrates the price/kg of shrimp has fluctuated over the 1999 to 2011 period. The average price was \$1.13, peaking at \$1.61 in 2011 and going as low as \$0.79 in 2006. The average price per seal pelt during the 1998 to 2011 period was \$33.85, going as high as \$103.37 in 2006 and as low as \$8.85 in 2000. In 2011, the average price was \$16.60.



• During the 1998 to 2011 period, the primary species landed by the combined midshore and offshore fleets were herring, mackerel, and capelin, accounting for 55%, 30% and 15% of total landings (*Table-6*). On average herring accounted for 46% of the total landed value, while mackerel and capelin accounted for 40% and 14% respectively. With the exception of 2011, the price/kg for these species is quite low. Over the 1998 to 2011 period, the average price for mackerel was \$0.35, while capelin averaged \$0.21 and herring \$0.19.

Ta	Table 7: Midshore and Offshore Landings (kg) by Major Species NAFO Division 4R							
Species	Ave.1998- 2004	2005	2006	2007	2008	2009	2010	2011
Herring	9,502,761	11,006,051	11,064,710	10,900,033	11,184,238	11,170,317	10,519,312	10,259,526
Mackerel	5,263,107	4,965,976	4,679,028	7,583,342	5,192,827	9,009,969	7,024,076	1,133,387
Capelin	2,323,138	3,673,465	3,433,541	1,940,079	3,383,099	3,120,599	2,912,944	2,835,848
Other	103,581	1,552	1,186	1,196	2,104	1,011	1,746	-
Total	17,192,586	19,647,044	19,178,466	20,424,651	19,762,268	23,301,895	20,458,078	14,228,761

Table	8: Midshore	and Offshor	e Landed V	alue (\$CAN	N) by Majo	or Species N	AFO Divis	ion 4R
Species	Ave.1998- 2004	2005	2006	2007	2008	2009	2010	2011
Herring	1,629,265	2,693,298	2,268,573	2,169,928	2,093,329	2,462,608	2,087,179	2,691,560
Mackerel	1,390,705	1,773,575	1,523,628	2,457,581	1,740,148	2,780,873	3,097,055	1,124,400
Capelin	495,656	1,052,808	968,907	520,523	928,479	481,577	353,203	506,405
Other	39,524	18,229	13,075	14,901	20,116	7,548	12,509	-
Total	3,555,151	5,537,909	4,774,183	5,162,933	4,782,071	5,732,606	5,549,947	4,322,364



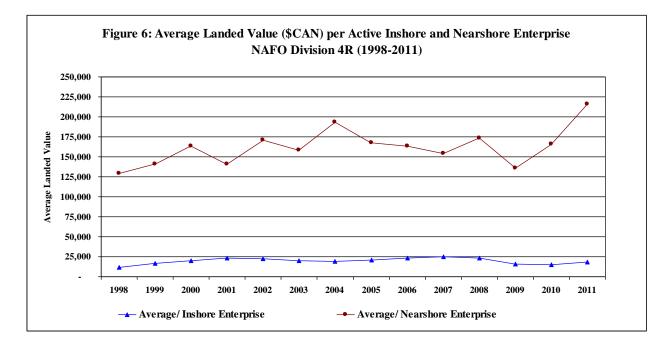
5. Active Inshore and Nearshore Enterprises by Vessel Category (1998-2011)⁴

- In 2011, there were 676 active inshore fishing enterprises homeported in NAFO Division 4R and 175 in the nearshore fleet. As *Table-8* shows there has be a substantial decrease in the activity of the inshore fleet over the 1998 to 2011 period due to the combined effects of inactivity, rationalization processes, buddy-up arrangements, and attrition.
- Assuming that each inshore enterprise had 1.75 crew and each nearshore vessel averaged 4 crew (for both fleets DFO's estimate includes the skipper), an estimated 1,880 people participated in the 4R fishery in 2011.

	Table 8: Count of Active Inshore and Nearshore EnterprisesNAFO Division 4R (1998-2011)													
Fleet	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Inshore	1348	1101	941	949	893	967	1042	964	907	872	817	753	713	676
Nearshore	150	147	145	158	158	158	165	179	195	200	193	175	177	175
Total	1498	1248	1086	1107	1051	1125	1207	1143	1102	1072	1010	928	890	851

6. Average Landed Value by Fleet Category (1998-2011)

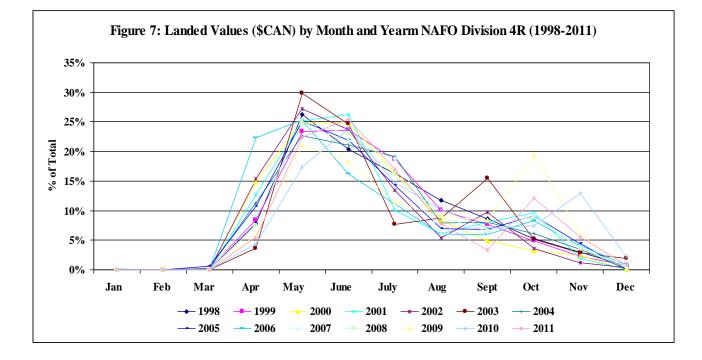
• Overall, the average landed value per inshore enterprise during the 1998 to 2011 period was \$20K, compared to \$162K for each nearshore enterprise. Year-to-year fluctuations correspond to combination of factors including number of active enterprises, resource abundance, quotas, market prices, and substitution effects. The average landed value per inshore enterprise improved in recent years due to higher lobster catches and prices. The nearshore fleet average is primarily impacted by the price and abundance of shrimp.



⁴ Due to confidentiality reasons an activity profile for the midshore and offshore fleets was not possible.

7. Landings by Month (1998-2011)

- *Figure-7* shows the aggregate landed values for all fisheries by month and year for the 1998 to 2011 period in NAFO Division 4R. Due to weather, ice and resource availability, the fishing primarily occurs during April to November period. The primary months May, June, July , and August account for approximately 70% of the landings
- The landing patterns for the 1998-2011 period for the seven primary fisheries shrimp, lobster, mackerel, snow crab, cod, herring, and turbot show various patterns. Approximately 80% of shrimp was landed during the May to August period, while lobster was fished from April to July. The majority of snow crab was also harvested during this period. Most of the mackerel and herring were landed in the fall months, while cod landings were concentrated during the July to September period. Turbot was primary landed in the June to August period.



Append	lix-A
--------	-------

Lite	Licence Profile of NAFO Division 4R (2000-2011)												
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	
Bait - Commercial	825	780	771	765	765	758	758	753	753	751	750	751	
Capelin FG - Commercial	289	255	253	247	248	248	247	247	246	243	242	240	
Capelin MG - Commercial	15	16	16	16	16	15	15	24	23	21	21	20	
Capelin MG - Commercial - Share	0	0	0	0	0	0	0	0	2	4	4	5	
Capelin MG - Exploratory	9	9	8	8	8	8	8	0	0	0	0	0	
Cod Handline - Experimental	0	0	0	0	16	1	5	0	0	0	5	0	
Cod - Commercial - Share	0	0	0	0	0	0	0	0	0	5	5	9	
Eels - Commercial	52	52	52	51	49	49	47	47	38	38	39	39	
Groundfish Danish Seine - FG - Comm.	1	0	0	0	0	0	0	1	1	1	1	1	
Groundfish FG - Commercial	902	815	813	811	810	811	809	805	799	794	794	790	
Groundfish MG - Commercial	61	62	62	62	62	62	62	62	62	57	57	50	
Groundfish MG - Experimental	0	0	0	0	6	0	0	0	0	0	0	0	
Hagfish - Emerging	0	0	5	0	5	0	0	0	0	0	0	0	
Herring FG - Commercial	685	631	634	639	645	672	677	674	672	666	662	658	
Herring MG - Commercial	18	19	19	19	19	18	18	19	19	18	18	18	
Herring MG - Commercial - Share	0	0	0	0	0	0	0	0	1	2	2	2	
Herring MG - Exploratory	1	1	0	0	0	0	0	0	0	0	0	0	
Lobster - Commercial	822	769	767	765	763	762	761	761	760	758	758	758	
Lobster - Experimental	0	0	0	0	9	26	1	0	0	0	0	0	
Mackerel FG - Commercial	469	430	435	440	461	502	547	551	553	552	553	556	
Mackerel MG - Commercial	12	12	12	12	12	12	12	24	24	24	25	25	
Mackerel MG - Exploratory	12	13	12	12	12	11	11	0	0	0	0	0	
Rock Crabs - Emerging	0	0	11	13	11	10	10	10	10	10	10	10	
Salmon (Atlantic) - Commercial	4	4	4	4	4	4	4	2	2	2	2	2	
Scallop - Commercial	149	137	133	133	132	130	129	128	127	127	126	123	
Sea Cucumber - Emerging	0	0	0	0	0	2	2	2	2	1	2	0	
Seal - Assistant - Commercial	208	203	271	296	273	167	148	139	30	30	30	28	
Seal - Personal Use	22	24	18	18	17	14	16	13	0	0	0	3	
Seal - Professional - Commercial	1144	1246	1302	1314	1340	1434	1436	1432	968	945	929	905	
Seal - Temporary Assistant - Temporary	0	0	0	0	0	0	2	14	3	1	1	0	
Shrimp Gulf - Commercial	46	46	46	46	46	46	46	46	46	42	42	37	
Shrimp Gulf - Commercial - Share	0	0	0	0	0	0	0	0	0	4	4	9	
Shrimp SFA 06 Northern - Temporary	62	62	62	63	63	63	63	0	0	0	0	0	
Shrimp SFA 06 Northern - Commercial	0	0	0	0	0	0	0	63	62	57	57	50	
Shrimp SFA 06 Northern – Comm. Share	0	0	0	0	0	0	0	0	1	6	6	13	
Shrimp SFA 08/Gulf - Temporary	11	11	11	11	11	11	11	11	11	0	0	0	
Shrimp SFA 08/Gulf - Commercial	0	0	0	0	0	0	0	0	0	10	10	8	
Shrimp SFA 08/Gulf - Comm Share	0	0	0	0	0	0	0	0	0	1	1	3	
Smelts - Commercial	0	0	0	0	0	0	0	0	0	0	0	5	
Snow Crab - Commercial	17	17	17	72	70	60	60	60	60	58	59	59	
Snow Crab - Experimental	0	0	18	0	0	0	0	0	6	1	0	0	
Snow Crab - Exploratory	44	43	44	0	0	0	0	0	0	0	0	0	
Snow Crab - Inshore - Commercial	0	0	0	328	328	336	333	333	332	329	329	327	
Snow Crab - Temporary	295	291	308	0	0	0	0	0	0	0	0	0	
Squid - Commercial	101	95	93	92	98	99	100	101	103	107	107	109	
Toad Crab - Emerging	0	0	46	77	52	43	42	37	36	37	37	36	
Tuna, Bluefin - Commercial	0	0	1	1	1	1	0	0	0	0	0	0	
Whelk - Commercial	83	91	100	113	151	153	169	171	172	176	182	199	

Appendix-B

