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Catch-at-Age for Southern Gulf of St. Lawrence Cod: 1971 to 1995

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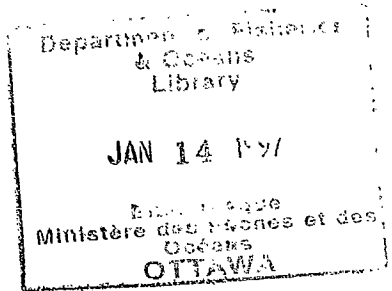
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ABSTRACT

The stock assessment unit for southern Gulf of St. Lawrence cod was revised in 1994 to include all of NAFO Division 4T, subdivision 4Vn in January to April and November to December, and a portion of the fishery of subdivision 4Vs in January to April. The catches-at-age, weights-at-age and lengths-at-age for 1971 to 1995 were recalculated to incorporate all of these components in the age-length keys used in the assessment of the stock. The revised cod landings, numbers-, weights- and lengths-at-age for each year are given, along with each gear/area/time period key, and details of the commercial samples.

RÉSUMÉ

En 1994, on a modifié l'unité d'évaluation du stock de morue du sud du golfe du Saint-Laurent pour y inclure l'ensemble de la division 4T et de la sous-division 4Vn de l'OPANO en ce qui concerne la pêche de janvier à avril et celle de novembre à décembre, ainsi qu'une partie de la pêche dans la sous-division 4Vs de janvier à avril. On a recalculé les prises selon l'âge, les poids selon l'âge et les longueurs selon l'âge pour la période de 1971 à 1995, afin d'intégrer tous ces éléments dans les clés âge-longueur utilisées pour l'évaluation du stock. Le rapport donne une révision des débarquements selon l'âge, des prises selon l'âge, des poids selon l'âge et des longueurs selon l'âge, et ce pour chaque année. On y retrouve également chaque clé engin-zone-période ainsi que les détails des échantillons prélevés dans les prises commerciales.

INTRODUCTION

The traditional management area for southern Gulf of St. Lawrence cod has been North Atlantic Fisheries Organization (NAFO) Division 4T, together with subdivision 4Vn during January to April, where the stock overwinters (Kohler 1975, Martin and Jean 1964) (Figure 1).

The 4TVn (Jan.-Apr.) cod are also fished in the northern portion of 4Vs during the winter (McCracken 1959, Powles 1959, Martin and Jean 1964) (Figure 1). Landings from this subdivision were small prior to 1986 and were not included in the assessment unit of southern Gulf cod. However, catches in 4Vsb increased beginning in 1986 and a portion of the 4Vs commercial landings during January to April has since been attributed to the 4TVn (Jan.-Apr.) management unit (Hanson and Nielsen 1992).

Tagging studies (Lambert 1993) and commercial landings data have shown that southern Gulf of St. Lawrence cod migrate from 4T to 4Vn beginning in October, and are exploited by the fishery in 4Vn during November and December (Sinclair and Currie 1994). Based on these studies, the assessment area of the 4TVn (Jan.-Apr.) cod stock was revised in 1994 to include the commercial catches from 4Vn during November and December of each year (Sinclair et al. 1994).

The catches-at-age from 1971 to 1995 include all of the above components: traditional 4TVn (Jan.-Apr.), 4Vs (Jan.-Apr.), and 4Vn (Nov.-Dec.) landings.

The purpose of this report is to document the revisions to the catch-at-age with details of the catches and samples attributed to each gear, season and area, and the corresponding age-length keys.

METHODS

The 4TVn (Jan.-Apr.) catch-at-age was calculated for each year using the commercial landings and corresponding age and length samples of the commercial catches. The commercial landings data were obtained from the Northwest Atlantic Fisheries Organization finalized statistical data from 1971 to 1993. The 1994 and 1995 catches were taken from provisional Canadian statistics data. The age and length samples were collected either at the port of landing, at sea by fisheries observers, or via contracts involving various fisheries; for example, the sentinel fisheries. AGELEN ver. 3.21 was used to combine the samples by gear, area and quarter of the year to produce age-length keys and calculate catch-at-age. These catches-at-age were then summed to produce the total removals-at-age of the stock for each year. The basic algorithm was described by Zwanenburg and Smith (1983).

The catch-at-age is based, wherever possible, upon applying the landings from a particular gear and time period to the commercial age and length samples collected for that gear during the corresponding quarter of the year. In 4T, four time periods were used: 1) January to March, 2) April to June, 3) July to September and 4) October to December. The International Commission for the Northwest Atlantic Fisheries (ICNAF) (later NAFO) recommended that a desirable sampling requirement should be one sample per 1000 tons of fish caught for each division, quarter of year and gear (Anon. 1974).

The sample should consist of 200 fish measured from the whole length range and one fish per centimeter length group for ageing purposes (Anon. 1974). Ideally, a minimum of 400 ages per age-length key has been applied (Maguire et al 1983, Lever and Waite 1984), the goal being to produce coefficients of variation for the catch-at-age in the 10% to 20% range (Baird 1983, Gavaris and Gavaris 1983). If not enough aged fish were available for a key, additional ages from a similar gear or time period or both were included. A separate key was produced for the 4Vn January to April period.

Hanson and Nielsen (1992) calculated age-length keys for the 4Vs January to April catches, using the Kimura and Chikuni (1987) method to separate the southern Gulf cod proportion of the 4Vs winter fishery.

To revise the catch-at-age to include 4Vn (Nov.-Dec.), the November and December catch by gear was simply added to the traditional catch for the same gear in the fourth quarter. The numbers-at-age for each key were increased by the ratio of the new key catch to the traditional key catch. The corresponding weights- and lengths-at-age were recalculated with the revised numbers-at-age. If, however, commercial age and length sample(s) were available from the 4Vn fishery in November or December, then new keys were generated incorporating the new sample(s) and catch(es). If no corresponding traditional key was available, the 4Vn (Nov.-Dec.) catch was added to the unsampled catch.

The gear categories as they appear in the tables are:

- OTB - otter trawls, including shrimp and bottom pair trawls
- SNU - seines, including pair seines
- GNS - gillnets
- LLS - longlines
- LHP - hand, pole lines and jig
- MISC - miscellaneous catch applied to all gears (found in earlier years)
- UNS - unsampled catch

The unsampled numbers-at-age were determined by multiplying the catch-at-age of all sampled gears from 4TVn (Jan.-Apr.) by the ratio of the unsampled catch (t) to the sampled catch (s).

RESULTS

The catch-at-age matrices were recalculated for 1971 to 1993 for the May, 1994 assessment of the fishery of southern Gulf of St. Lawrence cod (Sinclair et al. 1994). The following tables describe the numbers-, weight- and length-at-age for each key used, and the sampling details.

In the early seventies, sampling was low for many gears and areas, and often did not meet ICNAF's sampling requirements (Anon. 1974). By the mid-seventies to early eighties, the number of samples per gear/time-period had increased to close to the recommended levels. From 1982 to present, the sampling has met or exceeded the NAFO requirements (Table 1).

In many of the years prior to 1981, there were not sufficient numbers of aged fish to make up an age-length key for each gear/quarter combination; consequently, gears and/or quarters were combined to produce a useable key (Table 1). From 1981 to 1992, most years had enough samples to produce age-length keys by gear and quarter. From 1993 to 1995, the catches and samples were few, due to the moratorium on the cod fishery, and samples were combined across gears and quarters. All foreign catches were sampled at sea. In 1994 and 1995, at-sea observer samples were used to augment small port sample sizes for Canadian catches. In 1994 and 1995, the sentinel fisheries keys incorporated ages from the July and/or September research vessel survey (Sinclair et al. 1995, 1996) (Table 1). September research vessel survey ages were also used with the 1994 last-ridge rope experiment catches (Sinclair et al. 1995).

Table 1 describes the landings and sampling information used to construct each age-length key, including total catch sampled, sampling weights, number of samples, number of fish measured and aged from the various fisheries. When a new fourth quarter key was run with the addition of 4Vn (Nov.-Dec.) sample(s), the updated key details are given on a separate line, indicated with an asterisk (*).

Table 2 describes the catch-at-age by key for each gear, 1971 to 1995 in:

- a) the traditional management unit, 4TVn (Jan.-Apr.)
- b) the 4Vn (Nov.-Dec.) portion and
- c) the total southern Gulf cod management unit, 4TVn (Nov.-Apr.)

In Table 2, age-length keys marked with an asterisk (*) include the 4Vn (Nov.-Dec.) port samples that were available. Both the traditional and new keys are shown, the 4Vn (Nov.-Dec.) key being the difference between the two. Negative numbers in the 4Vn (Nov.-Dec.) table indicate that recalculation with additional sample(s) resulted in smaller numbers of fish.

The numbers of fish from 1971 to 1993 are represented in the tables as thousands of fish. A zero (0) value in the catch-at-age tables from 1971 to 1993 indicates a value of less than 0.5 (five hundred). For increased accuracy, 1994 and 1995 data are given in actual numbers of fish (Table 2); because of the moratorium, there were lower catches. There is a single table for each of 1994 and 1995; the 4Vn (Nov.-Dec.) landings were included originally and did not need to be recalculated.

Table 3 shows the weights-at-age by key, given in kilograms, and Table 4 gives the lengths-at-age, in centimeters, for the same areas and time periods as Table 2. When a new key was generated for a fourth quarter, the new catch-, weight- and length-at-age keys are identified with an asterisk (*).

The 4Vs (Jan.-Apr.) keys from 1986 to 1992 are included in the traditional 4TVn (Jan.-Apr.) tables (Tables 2, 3, 4). There were no landings from 4Vs in 1993 to 1995.

Tables 5, 6 and 7 indicate the total revised numbers-, weights- and lengths-at-age, respectively, for each year from 1971 to 1995 of the southern Gulf of St. Lawrence cod stock.

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Table 1: Southern Gulf of St. Lawrence cod stock landings by area, age-length key type, and sampling information by year, from 1971 to 1995.
 Source of ages: (P) Port samples, (O) Observer samples, (R) Research survey samples.

YEAR	KEY NUMBER	KEY TYPE	4TVn(J-A) LANDINGS (tonnes)	4Vs(J-A) LANDINGS (tonnes)	4Vn(N-D) LANDINGS (tonnes)	4T&Vn(N-A) COMBINED LANDINGS (t)	TOTAL SAMPLED CATCH (t)	TOTAL SAMPLE WT (kg)	TOTAL # of SAMPLES	TOTAL NUMBER MEASURED	TOTAL NUMBER AGED	Source of Ages
1971	1	OTB JAN-MAR	14390			14390	130.92	2959.90	4	1174	441	P
	2	OTB APR-JUNE	12097			12097	129.33	1591.39	3	823	399	P
	3	OTB JULY-DEC	8976		875	9851	28.40	1241.90	4	768	399	P
	4	SNU APR-DEC	2268		12	2280	33.34	2447.43	8	1898	505	P
	5	GNS APR-NOV	9676			9676	0.82	950.91	2	179	511	P
	6	LL+LHP JAN-DEC	6993		618	7611	0.45	401.44	1	142	511	P
	7	MISC MAY-OCT	1975		51	2026	70.55	5424.22	16	3204	511	P
	TOTAL		56375		1556	57931						
1972	1	OTB JAN-MAR	24735			24735	477.87	1972.74	5	1560	488	P
	2	OTB APR-JUNE	17829			17829	397.07	2917.08	8	2138	417	P
	3	OTB JULY-DEC	7187		784	7971	16.36	1477.44	5	1123	497	P
	4	SNU APR-DEC	2126		6	2132	28.88	1594.94	5	1248	657	P
	5	GN+ LL+LHP JAN-DEC	10958		718	11676	5.89	3327.32	3	600	423	P
	6	MISC MAY-AUG	1699			1699	276.89	6860.57	13	2969	441	P
	7	MISC SEPT-NOV	757		9	766	22.19	1707.47	6	1340	388	P
	TOTAL		65291		1517	66808						
1973	1	OTB JAN-MAR	22424			22424	165.58	902.65	3	884	471	P
	2	OTB APR-DEC	13374		669	14043	392.00	4768.74	13	3185	506	P
	3	SNU APR-DEC	2106		31	2137	21.79	755.95	3	600	613	P
	4	GNS MAR-NOV	8129		94	8223	12.29	10469.30	10	1841	418	P
	5	LL+LHP MAR-DEC	2547		513	3060	1.63	2079.62	3	577	498	P
	6	MISC MAY-JULY	482			482	58.35	6515.96	11	2071	397	P
	7	MISC AUG-NOV UNSAMPLED	546 1027		1	547 1027	57.04	9483.93	13	2555	490	P
	TOTAL		50635		1308	51943						
1974	1	OTB JAN-MAR	25837			25837	938.86	8452.83	15	4849	711	P
	2	OTB APR-DEC	10836		1250	12086	72.66	2199.81	7	1594	352	P
	3	SNU APR-DEC	1738		27	1765	5.19	772.98	3	600	352	P
	4	GN+ LL+LHP JAN-DEC	8242		543	8785	19.60	7392.46	8	1552	425	P
	*	4Vn(N-D.) new sample added					22.11	8054.56	9	1867	482	P
	5	MISC MAY-JULY	191			191	50.15	5078.48	9	1852	511	P
	6	MISC AUG-DEC UNSAMPLED	411 1492		12	423 1492	17.13	4129.87	5	1000	385	P
	TOTAL		48747		1832	50579						
1975	1	OTB JAN-MAR	14204			14204	599.25	6451.15	10	3238	535	P
	2	OTB APR-DEC	14206		672	14878	426.20	7987.85	18	4467	756	P
	3	SNU MAY-DEC	1970		11	1981	14.44	622.51	3	538	682	P
	4	GNS APR-DEC	6327		3	6330	12.16	5830.99	7	1313	700	P
	5	LL+LHP JAN-DEC	3666		109	3775	3.40	947.89	2	400	700	P
	6	MISC MAY-JULY	583			583	129.25	6184.17	16	2949	567	P
	7	MISC AUG-DEC	275			275	16.56	4452.78	6	1157	454	P

Table 1: Cont'd

YEAR	KEY NUMBER	KEY TYPE	4TVn(J-A) LANDINGS (tonnes)	4Vs(J-A) LANDINGS (tonnes)	4Vn(N-D) LANDINGS (tonnes)	4T&Vn(N-A) COMBINED LANDINGS (t)	TOTAL SAMPLED CATCH (t)	TOTAL SAMPLE WT (kg)	TOTAL # of SAMPLES	TOTAL NUMBER MEASURED	TOTAL NUMBER AGED	Source of Ages
		UNSAMPLED	1240			1240						
	TOTAL		42471		795	43268						
1976	1	OTB JAN-MAR	17537			17537	1498.01	9652.37	17	5611	789	P
	2	OTB APR-DEC	7640		3758	11398	209.89	6194.91	15	3562	641	P
	*	4Vn(N.-D.) new samples added					377.63	7746.16	18	4347	793	P
	3	SNU APR-JUNE	517			517	33.76	1365.53	5	1000	435	P
	4	SNU JULY-DEC	830		30	860	112.23	4343.88	17	3468	572	P
	5	GNS APR-NOV	4449		10	4459	6.69	3867.27	7	1212	687	P
	6	LLS APR-NOV	55		108	163	0.23	266.27	1	200	450	P
	7	LHP MAY-NOV	1169		22	1191	5.09	2939.46	10	1988	417	P
	8	MISC MAR-JUNE	87			87	220.68	7133.48	19	4329	798	P
	9	MISC JULY-DEC	495			495	121.87	10787.00	34	6546	1223	P
		UNSAMPLED	636			636						
	TOTAL		33415		3928	37343						
1977	1	OTB JAN-MAR	2601			2601	129.78	2249.99	4	1163	563	P
	2	OTB APR-DEC	8363		3731	12094	233.80	5314.78	17	3422	579	P
	*	4Vn(N.-D.) new samples added					572.03	7789.63	23	5122	812	P
	3	SNU APR-JULY	1061			1061	46.74	2904.16	11	2212	407	P
	4	SNU AUG-DEC	1999		211	2210	136.05	5617.10	24	4864	812	P
	5	GNS APR-NOV	5931			5931	9.33	4030.30	6	1227	772	P
	6	LLS APR-DEC	207		485	692	0.75	478.25	2	401	592	P
	7	LHP MAY-DEC	1114		185	1299	6.40	3679.24	13	2470	516	P
	8	MISC MAY-JUNE	309			309	155.36	7093.48	20	4057	746	P
	9	MISC JULY-SEPT	427			427	185.80	13122.24	48	9534	1732	P
	10	MISC OCT-NOV	207		53	260	91.91	1808.11	5	1005	500	P
	TOTAL		22219		4665	26884						
1978	1	OTB JAN-MAR	12542			12542	1132.41	5994.57	12	3855	497	P
	2	OTB APR-NOV	9997		130	10127	237.10	3787.19	14	2843	473	P
	3	SNU APR-JUNE	2050			2050	104.98	1544.75	7	1399	563	P
	4	SNU JULY-DEC	2427		30	2457	129.83	3863.28	17	3410	582	P
	5	GNS APR-NOV	8929			8929	12.93	1927.09	3	580	1127	P
	6	LLS JAN-NOV	155		860	1015	6.29	820.10	3	601	1127	P
	7	LHP MAY-DEC	1342		107	1449	7.41	867.33	3	599	1127	P
	8	MISC MAY-JUNE	63			63	379.15	8347.68	28	5591	984	P
	9	MISC JULY-SEPT	263			263	149.43	5575.20	23	4610	769	P
	10	MISC OCT-NOV	124		1	125	8.34	651.92	2	431	450	P
	TOTAL		37892		1128	39020						
1979	1	OTB JAN-MAR	8708			8708	770.51	5351.95	12	3866	457	P
	2	OTB APR-SEPT	12117			12117	220.83	2574.73	9	1799	402	P
	3	OTB OCT-DEC	10769		151	10920	783.47	5337.13	13	3435	496	P
	4	SNU APR-JULY	4623			4623	180.98	3575.86	13	2614	439	P
	5	SNU AUG-DEC	4126		78	4204	53.62	2136.75	8	1617	393	P
	6	GNS APR-DEC	12022			12022	6.48	2855.23	4	736	614	P

Table 1: Cont'd

YEAR	KEY NUMBER	KEY TYPE	4TVn(J-A) LANDINGS (tonnes)	4Vs(J-A) LANDINGS (tonnes)	4Vn(N-D) LANDINGS (tonnes)	4T&Vn(N-A) COMBINED LANDINGS (t)	TOTAL SAMPLED CATCH (t)	TOTAL SAMPLE WT (kg)	TOTAL # of SAMPLES	TOTAL NUMBER MEASURED	TOTAL NUMBER AGED	Source of Ages
	7	LL+LHP JAN-DEC	2396		1183	3579	17.02	3838.97	12	2400	455	P
	8	MSC APR-JUNE	574			574	353.40	6438.85	22	4350	765	P
	9	MSC JULY-SEPT	529			529	124.55	8345.52	23	4616	824	P
	10	MSC OCT-NOV	132		288	420	330.70	3748.59	10	2614	525	P
	TOTAL		55996		1700	57696						
1980	1	OTB JAN-MAR	16736			16736	1683.30	7301.50	15	5021	628	P
	2	OTB APR-JUNE	7390			7390	100.18	2014.37	7	1420	460	P
	3	OTB JULY-DEC	8362		225	8587	4.81	255.66	1	217	488	P
	4	SNU APR-DEC	9962		118	10080	97.28	2071.89	9	1819	542	P
	5	GNS APR-NOV	4260			4260	9.98	1790.68	3	482	395	P
	6	LL+LHP JAN-DEC	2166		2223	4389	4.54	210.29	1	200	395	P
	*	4Vn(N.-D.) new sample added					17.92	1078.58	2	474	445	P
	7	MSC APR-JUNE	2596			2596	120.12	2494.53	9	1827	406	P
	8	MSC JULY-NOV	3162		26	3188	96.67	3848.36	12	2311	421	P
	TOTAL		54634		2592	57226						
1981	1	OTB JAN-MAR	15911			15911	1617.31	7847.71	16	5384	618	P
	2	OTB APR-JUNE	8260			8260	99.71	1660.78	7	1285	382	P
	3	OTB JULY-SEPT	5833			5833	12.97	432.51	2	352	382	P
	4	OTB OCT-NOV	3959		546	4505	93.20	2054.66	7	1453	382	P
	5	SNU APR-JUNE	4985			4985	442.97	7704.73	32	6496	928	P
	6	SNU JULY-DEC	7342		236	7578	219.83	4096.10	16	3320	459	P
	7	GNS MAR-DEC	4053			4053	2.89	1194.55	2	504	697	P
	8	LLS MAY-DEC	5839		1178	7017	32.98	2736.55	7	1355	600	P
	9	LHP APR-DEC	1055		6	1061	14.88	2904.98	12	2400	600	P
	10	MSC APR-JUNE	3241			3241	550.82	11537.16	51	9256	1326	P
	11	MSC JULY-DEC	4698		4	4702	368.77	11406.47	39	7990	1140	P
		UNSAMPLED	1			1						
	TOTAL		65177		1970	67147						
1982	1	OTB JAN-MAR	13180			13180	1365.29	9836.12	17	5390	709	P
	2	OTB APR-JUNE	7013			7013	347.84	8628.48	19	5024	526	P
	3	OTB JULY-SEPT	5305			5305	1.78	752.35	2	400	485	P
	4	OTB OCT-DEC	5129		1615	6744	44.70	1093.72	4	800	489	P
	5	SNU APR-JUNE	4149			4149	441.14	5661.87	20	4535	516	P
	6	SNU JULY-SEPT	2809			2809	185.15	3982.20	14	2932	405	P
	7	SNU OCT-DEC	4271		87	4358	87.41	4941.40	10	2633	489	P
	8	GNS JULY-SEPT	2431			2431	2.41	491.08	2	290	750	P
	9	LLS JAN-MAR	15			15	1.22	689.63	1	327	764	P
	10	LLS JULY-SEPT	1172			1172	6.35	1012.00	4	800	750	P
	11	LLS OCT-DEC	1642		1700	3342	2.72	229.54	1	200	546	P
	12	LHP APR-JUNE	242			242	3.04	558.36	2	400	1096	P
	13	LHP JULY-SEPT	465			465	3.17	797.88	3	600	750	P
	14	LHP OCT-DEC	165		44	209	1.72	328.55	1	200	546	P
		UNSAMPLED	10205		30	10235						
	TOTAL		58193		3476	61669						

Table 1: Cont'd

YEAR	KEY NUMBER	KEY TYPE	4TVn(J-A) LANDINGS (tonnes)	4Vs(J-A) LANDINGS (tonnes)	4Vn(N-D) LANDINGS (tonnes)	4T&Vn(N-A) COMBINED LANDINGS (t)	TOTAL SAMPLED CATCH (t)	TOTAL SAMPLE WT (kg)	TOTAL # of SAMPLES	TOTAL NUMBER MEASURED	TOTAL NUMBER AGED	Source of Ages
1983	1	OTB JAN-MAR	15775			15775	2408.52	14897.33	45	9178	453	P
	2	OTB APR-JUNE	9425			9425	439.85	3139.38	16	2417	428	P
	3	OTB JULY-SEPT	3974			3974	36.41	1760.50	10	1142	444	P
	4	OTB OCT-DEC	2805		901	3706	127.02	2070.90	9	1744	438	P
	5	SNU APR-JUNE	9517			9517	456.79	5432.89	22	3771	428	P
	8	SNU JULY-SEPT	1461			1461	42.18	5344.95	15	2916	444	P
	7	SNU OCT-DEC	2751		94	2845	29.64	2212.08	6	1390	438	P
	8	GNS APR-JUNE	642			642	1.71	1687.45	3	564	428	P
	9	GNS JULY-SEPT	2083			2083	2.11	851.34	7	422	444	P
	10	GNS OCT-DEC	285			285	3.65	2388.53	9	1193	438	P
	11	LLS JULY-SEPT	874			874	0.67	460.49	5	282	444	P
	12	LLS OCT-DEC	1328		1684	3010	35.96	7357.61	19	3942	438	P
	13	LHP APR-JUNE	284			284	0.20	53.54	1	45	428	P
	14	LHP JULY-SEPT	774			774	3.13	1348.08	10	987	444	P
	15	LHP OCT-DEC	212		16	228	1.60	1634.14	8	971	438	P
		UNSAMPLED	9107			9107						
	TOTAL		81295		2895	63990						
1984	1	OTB JAN-MAR	15319			15319	2485.59	15410.23	42	11010	402	P
	2	OTB APR-JUNE	8122			8122	810.10	11488.58	28	6995	424	P
	3	OTB JULY-SEPT	3467			3487	252.50	12487.44	46	9524	397	P
	4	OTB OCT-DEC	4885		723	5408	97.77	4288.04	17	3928	425	P
	5	SNU APR-JUNE	8247			6247	115.89	3650.49	12	2343	424	P
	8	SNU JULY-SEPT	954			954	104.75	8014.80	21	5038	397	P
	7	SNU OCT-DEC	3415		118	3531	48.74	5973.45	15	3328	425	P
	8	GNS APR-JUNE	2505			2505	13.08	7898.91	14	3039	424	P
	9	GNS JULY-SEPT	3703			3703	41.81	18378.84	39	5941	397	P
	10	GNS OCT-DEC	883			883	0.75	733.47	3	292	425	P
	11	LLS JAN-MAR	78			78	8.39	1514.31	6	848	402	P
	12	LLS APR-JUNE	622			822	35.92	3289.24	8	1528	424	P
	13	LLS JULY-SEPT	1550			1550	31.81	11181.02	22	5476	397	P
	14	LLS OCT-DEC	1488		1320	2808	10.47	3409.18	8	2252	425	P
	15	LHP APR-JUNE	349			349	0.98	427.12	2	225	424	P
	18	LHP JULY-SEPT	1185			1185	7.19	9709.88	34	6021	397	P
	17	LHP OCT-DEC	328		41	369	0.78	581.02	4	371	425	P
		UNSAMPLED	884			884						
	TOTAL		55384		2200	57584						
1985	1	OTB JAN-MAR(C)	7454			7454	1493.30	7873.10	42	5967	409	P
	2	OTB JAN-MAR(F)	6360			6360	485.95	12508.57	44	9566	409	P
	3	OTB APR-JUNE	9365			9385	538.35	9738.97	32	7095	467	P
	4	OTB JULY-SEPT	10537			10537	359.41	9300.30	44	8777	437	P
	5	OTB OCT-DEC	5808		653	8461	100.97	3897.99	14	3843	412	P
	8	SNU APR-JUNE	5471			5471	118.90	8611.14	17	3804	467	P
	7	SNU JULY-SEPT	2473			2473	32.29	5198.46	16	3891	437	P
	8	SNU OCT-DEC	3879		113	3992	45.88	2856.03	10	2492	412	P

Table 1: Cont'd

YEAR	KEY NUMBER	KEY TYPE	4TVn(J-A) LANDINGS (tonnes)	4Vs(J-A) LANDINGS (tonnes)	4Vn(N-D) LANDINGS (tonnes)	4T&Vn(N-A) COMBINED LANDINGS (t)	TOTAL SAMPLED CATCH (t)	TOTAL SAMPLE WT (kg)	TOTAL # of SAMPLES	TOTAL NUMBER MEASURED	TOTAL NUMBER AGED	Source of Ages
	9	GNS APR-JUNE	2229			2229	13.62	8333.82	15	3897	467	P
	10	GNS JULY-SEPT	2698			2698	12.89	10199.14	32	3951	437	P
	11	GNS OCT-DEC	359			359	0.34	462.52	1	193	412	P
	12	LLS APR-JUNE	580			580	16.10	5146.77	10	2041	467	P
	13	LLS JULY-SEPT	1733			1733	14.35	10088.76	32	6605	437	P
	14	LLS OCT-DEC	895		1053	1948	1.97	1066.34	2	512	412	P
	15	LHP APR-JUNE	356			356	0.68	906.09	4	950	467	P
	16	LHP JULY-SEPT	1420			1420	3.92	3484.41	16	2140	437	P
	17	LHP OCT-DEC	286		16	302	0.21	207.01	1	228	412	P
		UNSAMPLED	235			235						
	TOTAL		62138		1835	63973						
1986		OTB 4Vs(J-A)		3463		3463	1514.35	13954.95	27	7546	600	P
	1	OTB JAN-MAR(C)	8675			8675	683.35	3929.34	14	3272	412	P
	2	OTB JAN-MAR(F)	6703			6703	372.50	7050.21	23	5777	412	P
	3	OTB APR-JUNE	13552			13552	951.49	12215.06	39	9852	402	P
	4	OTB JULY-SEPT	5392			5392	155.36	5442.94	23	5140	399	P
	5	OTB OCT-DEC	3759		100	3859	192.50	4409.12	14	3947	423	P
	6	SNU APR-JUNE	11523			11523	555.11	11478.27	34	8809	402	P
	7	SNU JULY-SEPT	2112			2112	57.80	5215.21	14	3003	399	P
	8	SNU OCT-DEC	1737		8	1745	12.99	3113.89	12	1543	423	P
	9	GNS APR-JUNE	1481			1481	5.07	3083.62	7	1403	402	P
	10	GNS JULY-SEPT	2467			2467	16.80	12863.62	42	4541	399	P
	11	LLS APR-JUNE	1034			1034	9.81	5487.16	11	2223	402	P
	12	LLS JULY-SEPT	1914			1914	44.76	16529.46	45	8871	399	P
	13	LLS OCT-DEC	1059		1296	2355	16.69	4622.57	13	3002	423	P
	14	LHP APR-JUNE	322			322	0.31	311.37	1	296	402	P
	15	LHP JULY-SEPT	1293			1293	1.82	1772.14	13	1074	399	P
	16	LHP OCT-DEC	321		38	359	0.62	603.47	3	500	423	P
		UNSAMPLED	351		2	353						
	TOTAL		63695	3463	1444	68602						
1987		OTB 4Vs(J-A)		2029		2029	819.15	7845.41	19	4303	313	P
	1	OTB JAN-MAR	8583			8583	910.17	3602.32	16	3922	411	P
	2	OTB APR-JUNE	15490			15490	993.63	11654.58	41	11662	1022	P
	3	OTB JULY-SEPT	4230			4230	280.54	5101.72	19	5320	1050	P
	4	OTB OCT-DEC	1347		282	1629	231.49	3057.18	12	3154	791	P
	5	SNU APR-JUNE	7673			7673	310.57	11303.73	35	7727	998	P
	6	SNU JULY-SEPT	1304			1304	73.67	7241.96	23	5623	646	P
	7	SNU OCT-DEC	630		120	750	83.13	7466.83	25	5246	502	P
	8	GNS APR-JUNE	1965			1965	25.90	4104.41	6	1199	590	P
	9	GNS JULY-SEPT	2501			2501	20.44	7162.70	9	2029	846	P
	10	GNS OCT-DEC	326			326	1.78	1411.83	3	622	518	P
	11	LLS APR-JUNE	1474			1474	24.27	3746.35	7	1718	590	P
	12	LLS JULY-SEPT	1814			1814	5.37	1825.07	8	1122	846	P
	13	LLS OCT-DEC	1617		1014	2631	12.55	4310.68	12	3247	518	P
	14	LHP APR-JUNE	619			619	0.89	716.65	3	748	590	P

Table 1: Cont'd

YEAR	KEY NUMBER	KEY TYPE	4TVn(J-A) LANDINGS (tonnes)	4Vs(J-A) LANDINGS (tonnes)	4Vn(N-D) LANDINGS (tonnes)	4T&Vn(N-A) COMBINED LANDINGS (t)	TOTAL SAMPLED CATCH (t)	TOTAL SAMPLE WT (kg)	TOTAL # of SAMPLES	TOTAL NUMBER MEASURED	TOTAL NUMBER AGED	Source of Ages
	15	LHP JULY-SEPT	1231			1231	2.13	1877.23	11	1671	846	P
		UNSAMPLED	322		21	343						
		TOTAL	51126	2029	1437	54592						
1988		OTB 4Vs(J-A)		2496		2496	694.88	7779.01	14	3623	260	P
	1	OTB JAN-MAR	7347			7347	827.14	5693.05	17	5089	343	P
	2	OTB APR-JUNE	13640			13640	1131.58	12549.68	41	11068	957	P
	3	OTB JULY-SEPT	3870			3870	279.05	9114.62	35	8426	618	P
	4	OTB OCT-DEC	6804		194	6998	344.63	6774.19	27	6665	572	P
	5	SNU APR-JUNE	6994			6994	299.79	11673.41	35	8409	725	P
	6	SNU JULY-SEPT	914			914	44.13	8468.56	26	6370	532	P
	7	SNU OCT-DEC	4041		35	4076	165.91	5434.42	24	5463	511	P
	8	GNS APR-JUNE	1806			1806	28.25	8749.36	13	2772	501	P
	9	GNS JULY-DEC	2130			2130	22.27	12045.90	19	3775	427	P
	10	LLS APR-JUNE	971			971	1.95	1945.23	7	1359	723	P
	11	LLS JULY-SEPT	1312			1312	45.88	7738.57	23	5774	737	P
	12	LLS OCT-DEC	874		914	1788	8.37	2201.22	9	1814	300	P
	13	LHP JULY-SEPT	1072			1072	2.89	1806.69	10	1384	737	P
	14	LHP OCT-DEC	217		22	239	0.68	428.51	3	411	300	P
		UNSAMPLED	66			66						
		TOTAL	52058	2496	1185	55719						
1989		OTB 4Vs(J-A)		2574		2574	698.11	8744.69	15	4040	560	P
	1	OTB JAN-MAR	5212			5212	1108.35	5115.48	18	4792	485	P
	2	OTB APR-JUNE	11888			11888	780.72	15777.28	60	14375	1160	P
	3	OTB JULY-SEPT	5527			5527	232.92	8252.92	32	7583	586	P
	4	OTB OCT-DEC	8038		1021	9059	549.25	9961.98	43	10143	647	P
	5	SNU APR-JUNE	9556			9556	407.70	14386.84	43	11356	1057	P
	6	SNU JULY-SEPT	1529			1529	55.16	8238.12	27	6626	512	P
	7	SNU OCT-DEC	4264		143	4407	136.47	6945.10	26	6489	468	P
	8	GNS APR-JUNE	905			905	7.46	4031.48	12	1853	510	P
	9	GNS JULY-DEC	1592			1592	6.71	5948.31	15	3296	542	P
	10	GNS OCT-DEC	299			299	0.38	382.46	2	122	341	P
	11	LLS APR-JUNE	766			766	57.19	3541.59	6	1535	510	P
	12	LLS JULY-SEPT	1126			1126	15.44	5634.40	22	4143	424	P
	13	LLS OCT-DEC	796		708	1504	35.23	4271.47	10	2578	291	P
	14	LHP APR-JUNE	193			193	0.38	348.67	1	250	510	P
	15	LHP JULY-SEPT	667			667	1.00	286.11	1	254	542	P
	16	LHP OCT-DEC	315		15	330	1.34	337.56	1	256	341	P
		UNSAMPLED	135			135						
		TOTAL	52808	2574	1887	57269						
1990		OTB 4Vs(J-A)		4606		4606	1565.97	11385.40	26	6578	705	P
	1	OTB JAN-MAR(C)	7082			7082	257.59	1500.45	5	1326	672	P
	2	OTB JAN-MAR(F)	890			890	78.24	7934.15	25	6511	672	P
	3	OTB APR-JUNE	8499			8499	497.91	10326.37	38	9326	917	P
	4	OTB JULY-SEPT	5465			5465	213.77	7927.42	30	7052	687	P

Table 1: Cont'd

YEAR	KEY NUMBER	KEY TYPE	4TVn(J-A) LANDINGS (tonnes)	4Vs(J-A) LANDINGS (tonnes)	4Vn(N-D) LANDINGS (tonnes)	4T&Vn(N-A) COMBINED LANDINGS (t)	TOTAL SAMPLED CATCH (t)	TOTAL SAMPLE WT (kg)	TOTAL # of SAMPLES	TOTAL NUMBER MEASURED	TOTAL NUMBER AGED	Source of Ages
	5	OTB OCT-DEC	9428		1384	10812	672.00	12203.82	48	11702	1037	P
	6	SNU APR-JUNE	7122			7122	567.17	14818.66	53	13452	1179	P
	7	SNU JULY-SEPT	2239			2239	102.84	7455.49	27	6669	622	P
	8	SNU OCT-DEC	4595		97	4692	139.52	7756.51	27	6935	584	P
	9	GNS APR-JUNE	389			389	3.59	971.18	2	502	298	P
	10	GNS JULY-DEC	1241			1241	7.60	3069.73	11	1446	742	P
	11	GNS OCT-DEC	332			332	1.81	1343.90	3	573	237	P
	12	LLS APR-JUNE	346			346	6.35	2197.32	5	1278	298	P
	13	LLS JULY-SEPT	1483			1483	21.25	4624.05	16	3376	497	P
	14	LLS OCT-DEC	855		535	1390	25.00	2350.04	5	1508	237	P
	15	LHP APR-JUNE	77			77	1.30	375.97	1	276	298	P
	16	LHP JULY-SEPT	697			697	3.53	1779.51	5	1167	669	P
		UNSAMPLED	500		15	515						
	TOTAL		51240	4606	2031	57877						
1991		OTB 4Vs(J-A)		8911		8911	1162.41	23554.50	16	4133	457	P
	1	OTB JAN-MAR(C)	5107			5107	752.53	5490.02	12	3907	417	P
	2	OTB JAN-APR(F)	1588			1588	377.55	7276.52	25	6640	638	O
	3	OTB APR-JUNE	5312			5312	438.78	10648.86	37	9418	977	P
	4	OTB JULY-SEPT	5086			5086	143.51	3201.02	13	3278	305	P
	5	OTB OCT-DEC	7723		1401	9124	603.95	11685.13	50	11969	1196	P
	*	4Vn(N-D.) new sample added				635.70		11902.12	51	12231	1212	P
	6	SNU APR-JUNE	3733			3733	231.67	13437.74	36	10331	1055	P
	7	SNU JULY-SEPT	1555			1555	79.62	5932.63	21	5271	523	P
	8	SNU OCT-DEC	3868		126	3994	202.86	7490.61	28	6988	687	P
	9	GNS APR-JUNE	492			492	6.82	3178.19	6	1288	355	P
	10	GNS JULY-DEC	966			966	5.88	3107.90	16	1407	786	P
	11	GNS OCT-DEC	221			221	1.20	751.89	3	419	422	P
	12	LLS APR-JUNE	356			356	15.60	1947.14	5	1171	355	P
	13	LLS JULY-SEPT	984			984	9.43	4595.86	16	3747	517	P
	14	LLS OCT-DEC	783		293	1076	27.32	4342.44	12	3125	422	P
	15	LHP JULY-SEPT	531			531	2.95	1045.98	6	1032	650	P
		UNSAMPLED	414		10	424						
	TOTAL		38719	8911	1830	49460						
1992		OTB 4Vs(J-A)		4164		4164	1604.98	9220.72	30	7309	640	P
	1	OTB JAN-MAR(C)	4823			4823	979.32	7145.47	18	5528	599	P
	2	OTB JAN-APR(F)	1610			1610	808.25	10325.00	7	10639	672	O
	3	OTB APR-JUNE	6104			6104	620.49	10670.33	39	10173	995	P
	4	OTB JULY-SEPT	4294			4294	206.44	5503.83	23	5814	509	P
	5	OTB OCT-DEC	5540		1873	7413	864.14	14574.76	62	15516	1291	P
	6	SNU APR-JUNE	4423			4423	400.99	14630.62	47	12798	1207	P
	7	SNU JULY-SEPT	1091			1091	82.40	6250.63	26	6204	634	P
	8	SNU OCT-DEC	2722		148	2870	84.24	3641.67	14	3352	399	P
	9	GNS JUNE-SEPT	964			964	9.36	6600.05	18	2510	410	P
	10	GNS OCT-DEC	244			244	5.18	3088.92	6	1318	487	P
	11	LLS JUNE-SEPT	906			906	4.18	2459.77	12	1947	373	P

Table 1: Cont'd

YEAR	KEY NUMBER	KEY TYPE	4TVn(J-A) LANDINGS (tonnes)	4Vs(J-A) LANDINGS (tonnes)	4Vn(N-D) LANDINGS (tonnes)	4T&Vn(N-A) COMBINED LANDINGS (t)	TOTAL SAMPLED CATCH (t)	TOTAL SAMPLE WT (kg)	TOTAL # of SAMPLES	TOTAL NUMBER MEASURED	TOTAL NUMBER AGED	Source of Ages
	12	LLS OCT-DEC	651		259	910	9.68	2991.64	10	2444	309	P
	13	LHP JUNE-SEPT	717			717	2.80	994.62	6	1089	373	P
	14	LHP OCT-DEC	154		2	156	0.11	110.50	1	138	309	P
		UNSAMPLED	438			438						
	TOTAL		34681	4164	2282	41127						
1993	1	OTB JAN-APR(4VN)	1015.0			1015.0	271.71	2896.60	8	2197	232	P
	2	OTB APR-JUNE	259.8			259.8	34.48	518.21	2	516	526	P
	3	OTB JULY-OCT	760.9		3.0	763.9	87.49	4708.12	36	4371	504	P
	4	SNU APR-JUNE	179.0			179.0	10.28	4162.44	13	2342	526	P
	5	SNU JULY-OCT	166.1		1.4	167.5	5.50	1681.00	8	1630	504	P
	6	GNS APR-JUNE	101.5			101.5	2.99	2163.87	12	928	420	P
	7	GNS JULY-OCT	1199.6			1199.6	17.34	8487.92	66	3767	492	P
	8	LLS JUNE	115.7			115.7	0.33	229.46	1	250	732	P
	9	LLS JULY-SEPT	589.3			589.3	5.73	3781.58	25	3385	732	P
	10	LLS OCT	88.5		51.2	139.7	0.47	471.45	6	394	732	P
	11	LHP JUNE-AUG	701.4		0.6	702.0	2.23	1390.51	8	1680	692	P
		UNSAMPLED	6.1			6.1						
	TOTAL		5182.7	0.0	56.2	5238.9						
1994	1	OTB JAN-APR(4VN)	135.8		4Vn	135.8	25.59	7257.62	14	7369	81	P+O+R
	2	OTB APR-JUNE	10.5		catches	10.5	3.89	1509.00	9	1637	810	P+O
	3	OTB JULY-SEPT	45.9		were	45.9	2.57	1235.00	12	1275	153	P+O+R
	4	OTB OCT-DEC	23.7		included	23.7	0.24	239.63	1	175	217	P+R
	5	SNU APR-JUNE	56.6		in the	56.6	6.25	4685.89	23	2596	678	P+O
	6	SNU JULY-SEPT	25.6		traditional	25.6	0.33	270.62	5	196	126	P+O+R
	7	SNU OCT-DEC	62.7		catches	62.7	36.29	1102.41	7	781	217	P+R
	8	GNS APR-OCT	261.9			261.9	13.38	5611.74	24	2481	376	P+O
	9	LLS MAY-NOV	105.4			105.4	3.14	2424.39	22	1734	231	P+R
	10	LHP JUNE-OCT	154.4			154.4	0.31	296.39	2	225	52	P+R
	11	LAST RIDGE ROPE	220.9			220.9	205.44	103589.00	13	70822	2921	R
	12	SENTINEL FISHERY	42.7			42.7	37.13	8421.75	98	9846	629	R
		UNSAMPLED	188.0			188.0						
	TOTAL		1334.1	0.0		1334.1						
1995	1	OTB MAY-DEC	48.7		4Vn	48.7	3.70	638.50	11	469	116	P+O
	2	SNU APR-JUNE	65.9		catches	65.9	17.18	12428.80	31	5295	228	P+O
	3	SNU JULY-SEPT	23.5		were	23.5	2.58	1876.08	27	1263	310	P+O
	4	SNU OCT-DEC	46.1		included	46.1	28.65	3135.25	18	1870	278	P+O
	5	GNS MAY-OCT	94.8		in the	94.8	9.55	4448.01	25	1740	220	P+O
	6	LLS MAY-NOV	34.8		traditional	34.8	1.00	450.00	1	253	3110	O
	7	SENTINEL JULY-AUG	79.7		catches	79.7	79.74	12.99	199	110514	518	R
	8	SENTINEL SEPT-DEC	266.5			266.5	266.47	73.44	726	336232	3076	R
		UNSAMPLED	414.6			414.6						
	TOTAL		1074.6	0.0		1074.6						

Table 2: Catch at age (thousands) of the southern Gulf of St. Lawrence cod stock, by area, of each key used, 1971 to 1995. Age key and number correspond to Table 1.

a) 4TVn (Jan.-Apr.) 1971

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LLS 6	MISC 7	TOTAL
3						1	5	6
4	323	448	485	400	7	80	292	2035
5	1689	2415	1648	561	62	279	419	7073
6	2436	3101	1964	500	92	555	362	9010
7	1792	1426	990	235	254	841	201	5739
8	569	417	254	34	628	338	35	2275
9	335	239	131	16	322	165	15	1223
10	135	58	38	8	186	77	7	509
11	56	10	14	3	33	9	3	128
12	87	29	24	2	124	75	4	345
13	35	10	15	2	5	5	1	73
14	19	5	11	2	57	20	3	117
15	47	12	20	2	55	12	3	151
16+	14	3	23	1	5	17	1	64
Total	7537	8173	5617	1766	1830	2474	1351	28748

b) 4Vn (Nov.-Dec.) 1971

Age	OTB 3	SNU 4	LLS 6	MISC 7	TOTAL
3			0	0	0
4	47	2	7	8	64
5	161	3	25	11	199
6	191	3	49	9	252
7	97	1	74	5	177
8	25	0	30	1	56
9	13	0	15	0	28
10	4	0	7	0	11
11	1	0	1	0	2
12	2	0	7	0	9
13	1	0	0	0	2
14	1	0	2	0	3
15	2	0	1	0	3
16+	2	0	2	0	4
Total	548	9	219	35	810

c) Total 4TVn (Nov.-Apr.) 1971

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LLS 6	MISC 7	TOTAL
3						1	5	6
4	323	448	532	402	7	87	300	2099
5	1689	2415	1809	564	62	304	430	7272
6	2436	3101	2155	503	92	604	371	9262
7	1792	1426	1087	236	254	915	206	5916
8	569	417	279	34	628	368	36	2331
9	335	239	144	16	322	180	15	1251
10	135	58	42	8	186	84	7	520
11	56	10	15	3	33	10	3	130
12	87	29	26	2	124	82	4	354
13	35	10	16	2	5	5	1	75
14	19	5	12	2	57	22	3	120
15	47	12	22	2	55	13	3	154
16+	14	3	25	1	5	19	1	68
Total	7537	8173	6165	1775	1830	2693	1386	29558

a) 4TVn (Jan.-Apr.) 1972

Age	OTB 1	OTB 2	OTB 3	SNU 4	GN+LL 5	MISC 6	MISC 7	TOTAL
3	1420	1621	22	12	2	90	9	3176
4	12227	7877	859	350	52	632	150	22147
5	6058	2849	1709	590	118	320	176	11820
6	3037	1709	1072	316	113	180	112	6539
7	3256	2231	1161	291	184	210	87	7420
8	1195	1052	524	110	443	104	36	3464
9	166	229	77	19	397	22	7	917
10	89	150	26	8	244	9	2	528
11	17	44	8	3	274	6	1	353
12	5	24	7	2	73	2	1	114
13	3	18	1	2	24	1		49
14	4	3			7			14
15	11	14	2	1	17	1		46
16+		12	6		17	1		36
Total	27488	17833	5474	1704	1965	1578	581	56623

b) 4Vn (Nov.-Dec.) 1972

Age	OTB 3	SNU 4	GN+LL 5	MISC 7	TOTAL
3	2	0	0	0	3
4	94	1	3	2	100
5	186	2	8	2	198
6	117	1	7	1	127
7	127	1	12	1	141
8	57	0	29	0	87
9	8	0	26	0	35
10	3	0	16	0	19
11	1	0	18	0	19
12	1	0	5	0	6
13	0	0	2		2
14			0		0
15	0	0	1		1
16+	1		1		2
Total	597	5	129	7	738

c) Total 4TVn (Nov.-Apr.) 1972

Age	OTB 1	OTB 2	OTB 3	SNU 4	GN+LL 5	MISC 6	MISC 7	TOTAL
3	1420	1621	24	12	2	90	9	3179
4	12227	7877	953	351	55	632	152	22247
5	6058	2849	1895	592	126	320	178	12018
6	3037	1709	1189	317	120	180	113	6666
7	3256	2231	1288	292	196	210	88	7561
8	1195	1052	581	110	472	104	36	3551
9	166	229	85	19	423	22	7	952
10	89	150	29	8	260	9	2	547
11	17	44	9	3	292	6	1	372
12	5	24	8	2	78	2	1	120
13	3	18	1	2	26	1		51
14	4	3			7			14
15	11	14	2	1	18	1		47
16+		12	7		18	1		38
Total	27488	17833	6071	1709	2094	1578	588	57361

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1973

Age	OTB 1	OTB 2	SNU 3	GNS 4	LLS 5	MISC 6	MISC 7	UNS	TOTAL
3	328	797	149		8		21	27	1330
4	3619	2473	505	1	5	24	100	139	6866
5	9561	3637	609	5	36	86	76	290	14300
6	3159	1538	209	46	69	47	56	106	5230
7	2127	899	122	174	161	47	35	74	3639
8	1289	789	104	307	129	30	26	55	2729
9	606	368	50	510	184	22	22	36	1798
10	124	77	13	235	66	6	5	11	537
11	98	55	9	124	31	2	2	7	328
12	25	15	1	42	10	1	1	2	97
13	33	22	3	5	2	1		1	67
14	20	10	2	10	2	1		1	46
15		1	1	7	2			0	11
16+	10	8	1	3	1			0	23
Total	20999	10689	1778	1469	706	267	344	751	37003

b) 4Vn (Nov.-Dec.) 1973

Age	OTB 2	SNU 3	GNS 4	LLS 5	MISC 7	TOTAL
3	40	2		2	0	44
4	124	7	0	1	0	132
5	182	9	0	7	0	198
6	77	3	1	14	0	95
7	45	2	2	32	0	81
8	39	2	4	26	0	71
9	18	1	6	37	0	62
10	4	0	3	13	0	20
11	3	0	1	6	0	11
12	1	0	0	2	0	3
13	1	0	0	0		2
14	1	0	0	0		1
15	0	0	0	0		1
16+	0	0	0	0		1
Total	535	26	17	142	1	721

c) Total 4TVn (Nov.-Apr.) 1973

Age	OTB 1	OTB 2	SNU 3	GNS 4	LLS 5	MISC 6	MISC 7	UNS	TOTAL
3	328	837	151		10		21	27	1374
4	3619	2597	512	1	6	24	100	139	6999
5	9561	3819	618	5	43	86	76	290	14498
6	3159	1615	212	47	83	47	56	106	5325
7	2127	944	124	176	193	47	35	74	3720
8	1289	828	106	311	155	30	26	55	2800
9	606	386	51	516	221	22	22	36	1861
10	124	81	13	238	79	6	5	11	557
11	98	58	9	125	37	2	2	7	338
12	25	16	1	42	12	1	1	2	100
13	33	23	3	5	2	1		1	69
14	20	11	2	10	2	1		1	47
15		1	1	7	2			0	12
16+	10	8	1	3	1			0	24
Total	20999	11224	1804	1486	848	267	345	751	37723

a) 4TVn (Jan.-Apr.) 1974

Age	OTB 1	OTB 2	SNU 3	GNS 4	MISC 5	MISC 6	UNS	TOTAL
3	51	1931	560	11	13	85	84	2735
4	1469	2712	507	64	35	48	153	4988
5	2945	1390	194	67	18	21	146	4781
6	7367	1341	194	182	24	18	288	9414
7	1957	621	89	207	12	11	91	2988
8	1016	302	43	360	8	12	55	1796
9	1056	180	25	368	8	14	52	1703
10	440	147	20	380	6	11	32	1036
11	139	15	2	98	1	3	8	266
12	69	14	2	99	1	3	6	194
13	30	4		48		1	3	86
14	19			6			1	26
15	1			5			0	6
16+	8			9			1	18
Total	16567	8657	1636	1904	126	227	919	30036

b) 4Vn (Nov.-Dec.) 1974

Age	OTB 2	SNU 3	GNS * 4	MISC 6	TOTAL
3	223	9	24	2	258
4	313	8	90	1	412
5	160	3	88	1	252
6	155	3	118	1	276
7	72	1	40	0	113
8	35	1	22	0	58
9	21	0	47	0	69
10	17	0	1	0	19
11	2	0	-8	0	-6
12	2	0	2	0	4
13	0	0	-5	0	-5
14			3	0	3
15			0	0	0
16+			1		1
Total	999	25	423	7	1454

c) Total 4TVn (Nov.-Apr.) 1974

Age	OTB 1	OTB 2	SNU 3	GNS * 4	MISC 5	MISC 6	UNS	TOTAL
3	51	2154	569	35	13	87	84	2993
4	1469	3025	515	154	35	49	153	5400
5	2945	1550	197	155	18	22	146	5033
6	7367	1496	197	300	24	19	288	9690
7	1957	693	90	247	12	11	91	3102
8	1016	337	44	382	8	12	55	1854
9	1056	201	25	415	8	14	52	1772
10	440	164	20	381	6	11	32	1054
11	139	17	2	90	1	3	8	260
12	69	16	2	101	1	3	6	198
13	30	4		43		1	3	81
14	19			9			1	29
15	1			5			0	6
16+	8			10			1	19
Total	16567	9656	1661	2327	126	234	919	31490

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1975

Age	OTB 1	OTB 2	SNU 3	GNS 4	LHP 5	MISC 6	MISC 7	UNS	TOTAL
3	1025	210	211		29		35	45	1555
4	4834	2558	845	2	147	61	77	256	8780
5	2182	3432	580	31	200	105	34	197	6761
6	978	1035	87	152	114	40	8	73	2487
7	1298	1108	73	360	238	57	8	94	3236
8	372	430	27	237	162	23	5	38	1294
9	412	249	16	239	135	16	4	32	1103
10	263	146	8	212	123	11	4	23	790
11	218	130	5	192	94	6	6	20	671
12	31	16	1	70	24	1	2	4	149
13	15	5		27	3		1	2	53
14	9	16	1	26	19	1		2	74
15	7							0	7
16+	3	25	1	22	13	1		2	67
Total	11647	9360	1855	1570	1301	322	184	789	27028

b) 4Vn (Nov.-Dec.) 1975

Age	OTB 2	SNU 3	GNS 4	LHP 5	TOTAL
3	10	1		1	12
4	121	5	0	4	130
5	162	3	0	6	172
6	49	0	0	3	53
7	52	0	0	7	60
8	20	0	0	5	25
9	12	0	0	4	16
10	7	0	0	4	11
11	6	0	0	3	9
12	1	0	0	1	2
13	0	0	0	0	0
14	1	0	0	1	1
15					
16+	1	0	0	0	2
Total	443	10	1	39	493

c) Total 4TVn (Nov.-Apr.) 1975

Age	OTB 1	OTB 2	SNU 3	GNS 4	LHP 5	MISC 6	MISC 7	UNS	TOTAL
3	1025	220	212		30		35	45	1567
4	4834	2679	850	2	151	61	77	256	8910
5	2182	3594	583	31	206	105	34	197	6933
6	978	1084	87	152	117	40	8	73	2540
7	1298	1160	73	360	245	57	8	94	3297
8	372	450	27	237	167	23	5	38	1319
9	412	261	16	239	139	16	4	32	1119
10	263	153	8	212	127	11	4	23	801
11	218	136	5	192	97	6	6	20	680
12	31	17	1	70	25	1	2	4	151
13	15	5		27	3		1	2	53
14	9	17	1	26	20	1		2	76
15	7							0	7
16+	3	25	1	22	13	1		2	67
Total	11647	9802	1865	1571	1340	322	184	789	27519

a) 4TVn (Jan.-Apr.) 1976

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	UNS	TOTAL
3	10	363	13	19	3	1	33	4	11	9	466
4	906	1648	129	259	52	12	212	20	152	66	3456
5	5498	2168	179	279	188	20	240	26	153	170	8921
6	5040	772	58	86	276	7	134	8	50	125	6556
7	1005	229	17	13	241	1	41	3	10	30	1590
8	559	281	11	14	211	1	28	3	8	22	1138
9	187	102	6	7	115		14	1	4	8	444
10	72	80	1	2	92		10	1	2	5	265
11	34	43	2	2	49		2		1	3	136
12	23	28	3	1	70		11		1	3	140
13	13	11			19		1			1	45
14	4	1			8		1			0	14
15	3	1			6					0	10
16+	3	5			2		1			0	11
Total	13357	5732	419	682	1332	42	728	66	392	441	23191

b) 4Vn (Nov.-Dec.) 1976

Age	OTB * 2	SNU 4	GNS 5	LLS 6	LHP 7	TOTAL
3	39	1	0	2	1	42
4	600	9	0	24	4	637
5	1021	10	0	39	5	1075
6	399	3	1	14	3	419
7	114	0	1	2	1	118
8	116	1	0	2	1	119
9	33	0	0		0	34
10	19	0	0		0	19
11	12	0	0		0	12
12	5	0	0		0	5
13	2	0	0		0	2
14	3	0	0		0	3
15	2	0	0		0	2
16+	-1	0	0		0	-1
Total	2364	25	3	82	14	2488

c) Total 4TVn (Nov.-Apr.) 1976

Age	OTB 1	OTB * 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	UNS	TOTAL
3	10	402	13	20	3	3	34	4	11	9	508
4	906	2248	129	268	52	36	216	20	152	66	4093
5	5498	3189	179	289	188	59	245	26	153	170	9996
6	5040	1171	58	89	277	21	137	8	50	125	6975
7	1005	343	17	13	242	3	42	3	10	30	1708
8	559	397	11	15	211	3	29	3	8	22	1257
9	187	135	6	7	115		14	1	4	8	478
10	72	99	1	2	92		10	1	2	5	285
11	34	55	2	2	49		2		1	3	148
12	23	33	3	1	70		11		1	3	145
13	13	13			19		1			1	47
14	4	4			8		1			0	17
15	3	3			6					0	12
16+	3	4			2		1			0	10
Total	13357	8096	419	707	1335	124	742	66	392	441	25679

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1977

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	TOTAL
3		141	47	203	15	22	64	1	43	10	546
4	272	1638	240	684	40	59	196	32	134	61	3356
5	816	1881	285	448	137	66	260	71	100	46	4110
6	518	1226	159	254	436	18	129	50	53	21	2864
7	156	647	80	92	555	10	80	34	21	9	1684
8	24	116	18	16	206	1	13	5	4	3	406
9	24	58	9	7	176	1	9	3	2	1	290
10	13	41	4	7	108		3	2	1	1	180
11	8	38	1	3	69		2	1	1	1	124
12	4	19	1	1	28		1	1			55
13	3	12		1	41		1			1	59
14		2			9						11
15	1	2			1						4
16+	1	3			1						5
Total	1840	5824	844	1716	1822	177	758	200	359	154	13694

b) 4Vn (Nov.-Dec.) 1977

Age	OTB *	SNU	LLS	LHP	MISC	TOTAL
	2	4	6	7	10	
3	27	21	52	11	3	113
4	1345	72	138	33	16	1604
5	1532	47	155	43	12	1789
6	360	27	42	21	5	456
7	40	10	23	13	2	89
8	-13	2	2	2	1	-6
9	-11	1	2	1	0	-6
10	1	1		0	0	2
11	-11	0		0	0	-10
12	-5	0		0		-5
13	-7	0		0	0	-6
14	-1					-1
15						
16+						
Total	3257	181	415	126	39	4018

c) Total 4TVn (Nov.-Apr.) 1977

Age	OTB 1	OTB * 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	TOTAL
3		168	47	224	15	74	75	1	43	13	659
4	272	2983	240	756	40	197	229	32	134	77	4960
5	816	3413	285	495	137	221	303	71	100	58	5899
6	518	1586	159	281	436	60	150	50	53	26	3320
7	156	687	80	102	555	33	93	34	21	11	1773
8	24	103	18	18	206	3	15	5	4	4	400
9	24	47	9	8	176	3	10	3	2	1	284
10	13	42	4	8	108		3	2	1	1	182
11	8	27	1	3	69		2	1	1	1	114
12	4	14	1	1	28		1	1			50
13	3	5		1	41		1			1	53
14		1			9						10
15	1	2			1						4
16+	1	3			1						5
Total	1840	9081	844	1897	1822	592	884	200	359	193	17712

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1978

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	TOTAL
3	16	338	69	48	49	1	5	2	6	3	537
4	1722	4133	1034	916	1677	20	203	27	94	19	9845
5	3255	3612	662	791	1822	35	308	20	80	36	10621
6	2094	968	187	243	751	19	154	6	28	13	4463
7	1124	579	102	140	481	13	121	4	16	10	2590
8	332	324	43	52	236	6	60	2	6	4	1065
9	88	28	4	8	98	1	8		1	1	237
10	74	33	9	4	109	1	10			1	241
11	13	16	3	3	64	1	4				104
12	4	14	1	1	49		3				72
13		11		1	31		1				44
14	5										5
15		3			10						13
16+	1	3			2						6
Total	8728	10062	2114	2207	5379	97	877	61	231	87	29843

b) 4Vn (Nov.-Dec.) 1978

Age	OTB 2	SNU 4	LLS 6	LHP 7	MISC 10	TOTAL
3	4	1	6	0	0	11
4	54	11	111	16	0	192
5	47	10	194	25	0	276
6	13	3	105	12	0	133
7	8	2	72	10	0	91
8	4	1	33	5	0	43
9	0	0	6	1	0	7
10	0	0	6	1	0	7
11	0	0	6	0	0	6
12	0	0		0	0	0
13	0	0		0	0	0
14						
15	0					0
16+	0					0
Total	131	27	538	70	1	767

c) Total 4TVn (Nov.-Apr.) 1978

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	TOTAL
3	16	342	69	49	49	7	5	2	6	3	548
4	1722	4187	1034	927	1677	131	219	27	94	19	10037
5	3255	3659	662	801	1822	229	333	20	80	36	10897
6	2094	981	187	246	751	124	166	6	28	13	4596
7	1124	587	102	142	481	85	131	4	16	10	2681
8	332	328	43	53	236	39	65	2	6	4	1108
9	88	28	4	8	98	7	9		1	1	244
10	74	33	9	4	109	7	11			1	248
11	13	16	3	3	64	7	4				110
12	4	14	1	1	49		3				72
13		11		1	31		1				44
14	5										5
15		3			10						13
16+	1	3			2						6
Total	8728	10193	2114	2234	5379	635	947	61	231	88	30610

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1979

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	LL+LHP 7	MISC 8	MISC 9	MISC 10	TOTAL
3		38	70	5	17	4	5	1	1	1	142
4	230	1039	1891	393	629	467	170	44	67	27	4957
5	3568	4252	3518	1275	1030	1058	466	187	133	40	15527
6	1974	2683	2207	1384	1204	828	378	145	125	26	10954
7	647	908	351	311	214	674	201	43	36	5	3390
8	272	366	174	110	90	533	92	17	14	2	1670
9	61	139	75	71	55	366	52	8	7	1	835
10	14	22	41	8	6	191	7		2		291
11	11	15	5	10	8	184	11	1	2		247
12	3	12	7			39	3				64
13	9	7	3	1	1	12					33
14			3		1	7	4				15
15			1	2	1	10	1				15
16+		2			3	3					8
Total	6789	9483	8346	3570	3259	4376	1390	446	387	102	38148

b) 4Vn (Nov.-Dec.) 1979

Age	OTB 3	SNU 5	LL+LHP 7	MISC 10	TOTAL
3	1	0	2	2	6
4	27	12	84	59	181
5	49	19	230	87	386
6	31	23	187	57	297
7	5	4	99	11	119
8	2	2	45	4	54
9	1	1	26	2	30
10	1	0	3		4
11	0	0	5		6
12	0		1		2
13	0	0			0
14	0	0	2		2
15	0	0	0		1
16+		0			0
Total	117	62	686	223	1087

c) Total 4TVn (Nov.-Apr.) 1979

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	LL+LHP 7	MISC 8	MISC 9	MISC 10	TOTAL
3		38	71	5	17	4	7	1	1	3	148
4	230	1039	1918	393	641	467	254	44	67	86	5138
5	3568	4252	3567	1275	1049	1058	696	187	133	127	15913
6	1974	2683	2238	1384	1227	828	565	145	125	83	11251
7	647	908	356	311	218	674	300	43	36	16	3509
8	272	366	176	110	92	533	137	17	14	6	1724
9	61	139	76	71	56	366	78	8	7	3	865
10	14	22	42	8	6	191	10		2		295
11	11	15	5	10	8	184	16	1	2		253
12	3	12	7			39	4				66
13	9	7	3	1	1	12					33
14			3		1	7	6				17
15			1	2	1	10	1				16
16+		2			3	3					8
Total	6789	9483	8463	3570	3321	4376	2076	446	387	325	39235

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1980

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LHP 6	MISC 7	MISC 8	TOTAL
3	72	22	21	117	1	43	9	29	314
4	346	241	235	598	41	237	101	216	2015
5	4122	1747	2659	3487	339	954	589	1082	14979
6	5015	1585	2431	2761	416	517	606	799	14130
7	3171	1299	1573	1849	429	228	483	490	9522
8	488	186	97	109	197	59	65	65	1266
9	192	183	63	85	73	15	56	28	695
10	104	58	20	23	73	7	22	10	317
11	18	15			78		4	6	121
12	13	2			8			1	24
13	3	3			7		1	1	15
14	2	3		2			1		8
15	2				7			1	10
16+	1	15			6		4		26
Total	13549	5359	7099	9031	1675	2060	1941	2728	43442

b) 4Vn (Nov.-Dec.) 1980

Age	OTB 3	SNU 4	LHP * 6	MISC 8	TOTAL
3	1	1	-21	0	-19
4	6	7	-110	2	-95
5	72	41	-427	9	-305
6	65	33	-93	7	12
7	42	22	199	4	267
8	3	1	252	1	256
9	2	1	110	0	113
10	1	0	86	0	87
11				0	0
12				0	0
13				0	0
14		0			0
15				0	0
16+					
Total	191	107	-4	22	316

c) Total 4TVn (Nov.-Apr.) 1980

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LHP * 6	MISC 7	MISC 8	TOTAL
3	72	22	22	118	1	22	9	29	295
4	346	241	241	605	41	127	101	218	1920
5	4122	1747	2731	3528	339	527	589	1091	14674
6	5015	1585	2496	2794	416	424	606	806	14142
7	3171	1299	1615	1871	429	427	483	494	9789
8	488	186	100	110	197	311	65	66	1522
9	192	183	65	86	73	125	56	28	808
10	104	58	21	23	73	93	22	10	404
11	18	15			78	22	4	6	143
12	13	2			8	6		1	30
13	3	3			7	3	1	1	18
14	2	3		2			1		8
15	2				7	4		1	14
16+	1	15			6		4		26
Total	13549	5359	7290	9138	1675	2091	1941	2750	43793

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1981

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	GNS 7	LLS 8	LHP 9	MISC 10	MISC 11	UNS	TOTAL
3		35	11	2		12	5	7	7	1	16	0	96
4	503	582	373	118	227	952	131	90	133	155	499	0	3763
5	1946	761	649	266	808	1164	198	151	190	494	647	0	7274
6	6454	2226	1923	1038	1395	2295	474	480	317	930	1295	0	18827
7	3878	1647	1234	904	1293	1271	432	492	166	782	750	0	12849
8	1369	770	465	432	633	556	437	536	73	378	365	0	6014
9	141	95	31	35	68	57	132	208	6	43	48	0	864
10	52	48	7	9	14	25	80	158	3	13	20	0	429
11	21	15	18	5	2	5	46	64	1	2	10	0	189
12	9				1		10	39		1	3	0	63
13	4	6	8	1			14	42	1		4	0	80
14	1				1							0	2
15		12	2									0	14
16+	2					2						0	4
Total	14380	6197	4721	2810	4442	6339	1959	2267	897	2799	3657	1	50469

b) 4Vn (Nov.-Dec.) 1981

Age	OTB 4	SNU 6	LLS 8	LHP 9	MISC 11	TOTAL
3	0	0	1	0	0	2
4	16	31	18	1	0	66
5	37	37	30	1	1	106
6	143	74	97	2	1	317
7	125	41	99	1	1	266
8	60	18	108	0	0	186
9	5	2	42	0	0	49
10	1	1	32	0	0	34
11	1	0	13	0	0	14
12			8		0	8
13	0		8	0	0	9
14						
15						
16+		0				0
Total	388	204	457	5	3	1057

c) Total 4TVn (Nov.-Apr.) 1981

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	GNS 7	LLS 8	LHP 9	MISC 10	MISC 11	UNS	TOTAL
3		35	11	2		12	5	8	7	1	16	0	98
4	503	582	373	134	227	983	131	108	134	155	499	0	3829
5	1946	761	649	303	808	1201	198	181	191	494	648	0	7380
6	6454	2226	1923	1181	1395	2369	474	577	319	930	1296	0	19144
7	3878	1647	1234	1029	1293	1312	432	591	167	782	751	0	13116
8	1369	770	465	492	633	574	437	644	73	378	365	0	6200
9	141	95	31	40	68	59	132	250	6	43	48	0	913
10	52	48	7	10	14	26	80	190	3	13	20	0	463
11	21	15	18	6	2	5	46	77	1	2	10	0	203
12	9				1		10	47		1	3	0	71
13	4	6	8	1			14	50	1		4	0	89
14	1				1							0	2
15		12	2									0	14
16+	2					2						0	4
Total	14380	6197	4721	3198	4442	6543	1959	2724	902	2799	3660	1	51526

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1982

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LLS 10	LLS 11	LHP 12	LHP 13	LHP 14	UNS	TOTAL
3	4		28	45	1	16	85	5		27	102		10	3	69	395
4	224	9	166	193	55	81	167	16		72	151	1	16	3	245	1399
5	2323	1147	438	1161	824	437	752	144	1	235	481	30	76	18	1716	9783
6	2038	1483	467	579	601	512	424	204	1	199	203	36	78	12	1454	8291
7	3011	1458	671	1103	886	596	870	454	2	244	290	52	109	33	2080	11859
8	1669	792	595	692	680	310	552	295	2	100	179	36	44	23	1269	7238
9	426	260	390	111	298	112	138	192	1	41	24	16	17	8	433	2467
10	160	58	81	2	15	10	13	19		3		2	1	1	78	443
11	56	9	27		3	7	4	7		3					25	142
12	12	16	21		2	6	2	3		1					13	76
13	4														1	5
14	2														0	2
15	2														0	2
16+						1									0	1
Total	9931	5232	2884	3886	3365	2088	3007	1339	7	925	1430	173	352	101	7383	42103

b) 4Vn (Nov.-Dec.) 1982

Age	OTB 4	SNU 7	LLS 11	LHP 14	UNS	TOTAL
3	14	2	106	1	0	123
4	61	3	156	1	1	222
5	366	15	498	5	5	889
6	182	9	210	3	4	409
7	347	18	300	9	6	680
8	218	11	185	6	4	424
9	35	3	25	2	1	66
10		0		0	0	1
11		0			0	0
12		0			0	0
13					0	0
14					0	0
15					0	0
16+					0	0
Total	1224	61	1481	27	22	2814

c) Total 4TVn (Nov.-Apr.) 1982

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LLS 10	LLS 11	LHP 12	LHP 13	LHP 14	UNS	TOTAL
3	4		28	59	1	16	87	5		27	208		10	4	70	518
4	224	9	166	254	55	81	170	16		72	307	1	16	4	246	1621
5	2323	1147	438	1527	824	437	767	144	1	235	979	30	76	23	1721	10671
6	2038	1483	467	761	601	512	433	204	1	199	413	36	78	15	1458	8700
7	3011	1458	671	1450	886	596	888	454	2	244	590	52	109	42	2086	12539
8	1669	792	595	910	680	310	563	295	2	100	364	36	44	29	1273	7663
9	426	260	390	146	298	112	141	192	1	41	49	16	17	10	434	2533
10	160	58	81	3	15	10	13	19		3		2	1	1	78	444
11	56	9	27		3	7	4	7		3					25	142
12	12	16	21		2	6	2	3		1					13	76
13	4														1	5
14	2														0	2
15	2														0	2
16+						1									0	1
Total	9931	5232	2884	5110	3365	2088	3068	1339	7	925	2911	173	352	128	7405	44917

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1983

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	LHP 15	UNS	TOTAL
3				14			11					3				5	33
4	20	113	129	160	77	63	185		90		18	16	3	34	2	159	1069
5	456	928	641	526	895	312	641	3	377	7	90	76	29	134	13	895	6023
6	2109	2202	667	720	2315	297	765	21	284	32	104	168	72	131	33	1731	11651
7	3405	2014	667	362	2034	270	339	39	297	31	126	118	66	133	24	1732	11657
8	2631	1002	380	275	1039	125	237	49	196	35	92	116	29	70	25	1100	7401
9	1585	872	223	173	918	75	152	76	103	26	53	89	26	42	18	773	5204
10	940	409	101	64	389	24	51	28	62	13	33	47	13	19	8	384	2585
11	31	5	10	3	3	2	4	7	7	2	4	17		3	1	17	116
12	23								2			9				6	40
13	6	2			1			1	1			2				2	15
14	2							1	1			2				1	7
15	2											1				1	4
16+												2				0	2
Total	11210	7547	2818	2297	7671	1168	2385	225	1420	146	520	666	238	566	124	6805	45806

b) 4Vn (Nov.-Dec.) 1983

Age	OTB 4	SNU 7	LLS 12	LHP 15	TOTAL
3	4	0	4		9
4	51	6	20	0	78
5	169	22	97	1	288
6	231	26	213	2	473
7	116	12	150	2	280
8	88	8	147	2	246
9	56	5	113	1	175
10	21	2	60	1	83
11	1	0	22	0	23
12			11		11
13			3		3
14			3		3
15			1		1
16+			3		3
Total	738	81	846	9	1674

c) Total 4TVn (Nov.-Apr.) 1983

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	LHP 15	UNS	TOTAL
3				18			11					7				5	42
4	20	113	129	211	77	63	191		90		18	36	3	34	2	159	1147
5	456	928	641	695	895	312	663	3	377	7	90	173	29	134	14	895	6311
6	2109	2202	667	951	2315	297	791	21	284	32	104	381	72	131	35	1731	12124
7	3405	2014	667	478	2034	270	351	39	297	31	126	268	66	133	26	1732	11936
8	2631	1002	380	363	1039	125	245	49	196	35	92	263	29	70	27	1100	7646
9	1585	872	223	229	918	75	157	76	103	26	53	202	26	42	19	773	5379
10	940	409	101	85	389	24	53	28	62	13	33	107	13	19	9	384	2668
11	31	5	10	4	3	2	4	7	7	2	4	39		3	1	17	139
12	23								2			20				6	51
13	6	2			1			1	1			5				2	18
14	2							1	1			5				1	10
15	2											2				1	5
16+												5				0	5
Total	11210	7547	2818	3035	7671	1168	2466	225	1420	146	520	1512	238	566	133	6805	47481

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1984

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	UNS	TOTAL
3			2	14			4							3		1	1	0	25
4	210	76	115	414	129	21	102	2	2	2		1	6	56	1	34	15	14	1200
5	539	216	486	1365	419	105	369	1	7	15		2	32	125	1	100	42	46	3870
6	1303	1211	683	1155	1261	171	539	47	41	39	2	23	99	183	18	134	51	84	7044
7	2465	1687	660	644	1425	187	580	150	111	61	5	49	177	221	42	155	41	105	8765
8	3178	971	315	301	629	92	307	159	204	55	9	40	144	126	33	110	23	81	6777
9	1991	675	264	217	448	80	244	226	261	65	10	52	153	114	37	110	20	60	5027
10	1455	203	98	115	147	29	132	121	210	42	8	26	82	66	16	57	13	34	2854
11	268	154	48	20	97	13	29	88	83	15	2	19	25	18	12	15	4	11	921
12	27	31	1		18			22	30		1	5	4	1	3	1	1	2	150
13	10	6	1		3			7	17			2	3		1	1		1	52
14	2							1	3				1					0	7
15	1								3									0	5
16+			1					1	4				1	1				0	8
Total	11449	5230	2674	4245	4576	698	2309	825	976	294	37	219	728	914	164	718	211	440	36707

b) 4Vn (Nov.-Dec.) 1984

Age	OTB 4	SNU 7	LLS 14	LHP 17	TOTAL
3	2	0	3	0	5
4	64	3	50	2	119
5	211	13	111	5	339
6	178	18	162	6	365
7	99	20	196	5	320
8	46	10	112	3	172
9	33	8	101	3	145
10	18	4	59	2	82
11	3	1	16	1	21
12		0	1	0	1
13					
14					
15					
16+			1		1
Total	655	78	811	26	1571

c) Total 4TVn (Nov.-Apr.) 1984

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	UNS	TOTAL
3			2	16			4							6		1	1	0	30
4	210	76	115	478	129	21	105	2	2	2		1	6	106	1	34	17	14	1319
5	539	216	486	1576	419	105	382	1	7	15		2	32	236	1	100	47	46	4210
6	1303	1211	683	1333	1261	171	557	47	41	39	2	23	99	345	18	134	57	84	7410
7	2465	1687	660	743	1425	187	600	150	111	61	5	49	177	417	42	155	46	105	9085
8	3178	971	315	347	629	92	317	159	204	55	9	40	144	238	33	110	26	81	6949
9	1991	675	264	250	448	80	252	226	261	65	10	52	153	215	37	110	23	60	5173
10	1455	203	98	133	147	29	136	121	210	42	8	26	82	125	16	57	15	34	2937
11	268	154	48	23	97	13	30	88	83	15	2	19	25	34	12	15	5	11	942
12	27	31	1		18			22	30		1	5	4	2	3	1	1	2	151
13	10	6	1		3			7	17			2	3		1	1		1	52
14	2							1	3				1					0	7
15	1								3									0	5
16+			1					1	4				1	2				0	9
Total	11449	5230	2674	4900	4576	698	2387	825	976	294	37	219	728	1725	164	718	237	440	38278

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1985

Age	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	UNS	TOTAL
3	12	20		15	43		3	57		7			1			5	5	1	169
4	154	274	95	219	289	62	40	241		35			9	4	11	53	24	6	1516
5	805	1032	953	2907	1542	592	483	1000	9	41		4	149	41	93	258	103	38	10050
6	2079	1980	2050	3870	2235	1320	714	1239	88	118	6	16	327	98	147	279	124	63	16753
7	1020	817	1278	1464	698	799	362	465	198	332	36	27	271	84	56	181	31	31	8150
8	944	729	1134	630	424	663	172	309	262	203	41	35	143	83	33	95	16	22	5938
9	489	391	874	453	185	506	130	149	228	177	22	33	100	43	23	74	7	15	3899
10	361	277	417	191	103	228	63	95	136	118	26	36	58	42	9	43	2	8	2213
11	86	70	169	96	58	92	34	53	82	72	14	17	33	25	3	25	1	4	934
12	46	38	98	13	7	53	6	5	30	16	3	9	5	7	2	5		1	344
13	4	3	1		1	1	1	1		1	1	2	2	3		1		0	22
14			3			1			1			1						0	6
15				5					1				1			1		0	8
16+												1	1	2				0	4
Total	6000	5631	7072	9863	5585	4317	2008	3614	1034	1121	149	181	1100	432	377	1020	313	189	50006

b) 4Vn (Nov.-Dec.) 1985

Age	OTB 5	SNU 8	LLS 14	LHP 17	TOTAL
3	5	2		0	7
4	32	7	5	1	46
5	173	29	48	6	257
6	251	36	115	7	410
7	78	14	99	2	193
8	48	9	98	1	155
9	21	4	51	0	76
10	12	3	49	0	64
11	7	2	29	0	38
12	1	0	8		9
13	0	0	4		4
14					
15					
16+			2		2
Total	628	105	508	18	1259

c) Total 4TVn (Nov.-Apr.) 1985

Age	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	UNS	TOTAL
3	12	20		15	48		3	59		7			1			5	5	1	175
4	154	274	95	219	321	62	40	248		35			9	9	11	53	25	6	1561
5	805	1032	953	2907	1715	592	483	1029	9	41		4	149	89	93	258	109	38	10307
6	2079	1980	2050	3870	2486	1320	714	1275	88	118	6	16	327	213	147	279	131	63	17163
7	1020	817	1278	1464	776	799	362	479	198	332	36	27	271	183	56	181	33	31	8342
8	944	729	1134	630	472	663	172	318	262	203	41	35	143	181	33	95	17	22	6094
9	489	391	874	453	206	506	130	153	228	177	22	33	100	94	23	74	7	15	3975
10	361	277	417	191	115	228	63	98	136	118	26	36	58	91	9	43	2	8	2277
11	86	70	169	96	65	92	34	55	82	72	14	17	33	54	3	25	1	4	971
12	46	38	98	13	8	53	6	5	30	16	3	9	5	15	2	5		1	353
13	4	3	1		1	1	1	1		1	1	2	2	7		1		0	26
14			3			1			1			1						0	6
15				5					1				1			1		0	8
16+												1	1	4				0	6
Total	6000	5631	7072	9863	6213	4317	2008	3719	1034	1121	149	181	1100	940	377	1020	331	189	51265

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1986

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	OTB 6	SNU 7	SNU 8	SNU 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	UNS 18	TOTAL
3		1	2	5	11	72	24	8	2				1			1	3		1	134
4	121	211	269	375	319	726	1012	207	95	1	3	4	26	20	24	40	27	19	3499	
5	542	608	603	1401	814	1142	2033	363	226	12	11	17	97	65	51	90	60	42	8177	
6	1637	2731	2267	5471	1859	1326	5513	678	448	171	88	110	289	185	155	225	102	120	23369	
7	221	1753	1343	2080	991	251	1517	341	137	169	151	90	219	85	44	152	28	52	9624	
8	216	995	704	464	284	156	277	111	109	94	173	57	129	71	8	86	20	21	3975	
9	201	604	405	400	239	82	247	93	84	80	161	56	121	67	7	79	14	15	2955	
10	107	414	284	563	105	36	360	38	43	69	97	43	62	35	11	42	6	12	2327	
11	85	221	172	132	52	21	79	25	35	54	105	38	57	32	2	38	3	6	1157	
12	24	259	184	39	45	5	24	18	11	12	72	11	42	11	1	26	1	4	789	
13		21	19	35	2	1	22	1	3	12	17	8	7	2	1	5		1	157	
14				6			3			3	3	2	2						0	19
15				2								1							0	3
16+							1					1							0	2
Total	3154	7818	6252	10973	4721	3818	11112	1883	1193	677	881	438	1046	573	305	786	264	292	56186	

b) 4Vn (Nov.-Dec.) 1986

Age	OTB 5	SNU 8	LLS 13	LHP 16	UNS 17	TOTAL
3	2	0		0	0	2
4	19	0	24	3	0	48
5	30	1	80	7	0	118
6	35	2	226	12	1	276
7	7	1	104	3	0	115
8	4	1	87	2	0	94
9	2	0	82	2	0	86
10	1	0	43	1	0	45
11	1	0	39	0	0	40
12	0	0	13	0	0	14
13	0	0	2			2
14						0
15						0
16+						0
Total	102	5	701	31	2	841

c) Total 4TVn (Nov.-Apr.) 1986

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	OTB 6	SNU 7	SNU 8	SNU 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	UNS 18	TOTAL
3		1	2	5	11	74	24	8	2				1			1	3	3	1	136
4	121	211	269	375	319	745	1012	207	95	1	3	4	26	44	24	40	30	19	3546	
5	542	608	603	1401	814	1172	2033	363	227	12	11	17	97	145	51	90	67	42	8295	
6	1637	2731	2267	5471	1859	1361	5513	678	450	171	88	110	289	411	155	225	114	120	23645	
7	221	1753	1343	2080	991	258	1517	341	138	169	151	90	219	189	44	152	31	52	9739	
8	216	995	704	464	284	160	277	111	110	94	173	57	129	158	8	86	22	21	4069	
9	201	604	405	400	239	84	247	93	84	80	161	56	121	149	7	79	16	15	3041	
10	107	414	284	563	105	37	360	38	43	69	97	43	62	78	11	42	7	12	2372	
11	85	221	172	132	52	22	79	25	35	54	105	38	57	71	2	38	3	6	1197	
12	24	259	184	39	45	5	24	18	11	12	72	11	42	24	1	26	1	4	803	
13		21	19	35	2	1	22	1	3	12	17	8	7	4	1	5		1	159	
14				6			3			3	3	2	2						0	19
15				2								1							0	3
16+							1					1							0	2
Total	3154	7818	6252	10973	4721	3920	11112	1883	1198	677	881	438	1046	1274	305	786	295	294	57027	

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1987

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	UNS	TOTAL
3	8	15	45		5	1								3			0	77
4	62	233	232	91	76	42	137	5		1	4	1	3	32	10	57	6	992
5	294	1641	2020	899	327	876	403	82	4	8	11	9	74	192	128	181	43	7192
6	518	1720	3298	1014	360	2064	378	134	37	29	23	28	156	313	135	280	69	10550
7	584	3825	7120	1557	466	2749	391	191	160	92	39	91	270	405	220	265	113	18538
8	97	1289	2218	589	166	1051	129	99	153	160	35	84	283	191	77	171	42	6834
9	177	411	443	141	50	348	43	38	111	121	17	67	99	48	29	46	13	2202
10	112	355	400	51	15	149	15	12	120	139	14	72	91	40	18	40	10	1653
11	13	113	151	22	12	79	8	10	63	59	8	40	52	17	9	24	4	684
12	9	30	78	9	8	33	5	7	54	60	4	43	40	8	4	17	3	410
13		8	21	4	3	15	2	3	18	20	1	12	15	2		5	1	130
14		1	21		1	23		2	16	14	1	14	7	5	1	2	1	109
15									2	3		7	2				0	14
16+						2			2	3		2	2	1			0	12
Total	1874	9641	16047	4377	1487	7432	1511	583	740	709	157	470	1094	1257	631	1088	299	49397

b) 4Vn (Nov.-Dec.) 1987

Age		OTB 4	SNU 7	LLS 13	UNS	TOTAL
3		1		2	0	3
4		16	1	20	0	37
5		68	16	120	3	207
6		75	26	196	4	301
7		98	36	254	7	395
8		35	19	120	3	176
9		10	7	30	1	49
10		3	2	25	1	31
11		3	2	11	0	15
12		1	1	5	0	8
13		1	1	1	0	3
14		0	0	3	0	4
15						
16+				1	0	1
Total		311	111	788	20	1230

c) Total 4TVn (Nov.-Apr.) 1987

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	UNS	TOTAL
3	8	15	45		6	1								5			0	80
4	62	233	232	91	92	42	137	6		1	4	1	3	52	10	57	6	1029
5	294	1641	2020	899	395	876	403	98	4	8	11	9	74	312	128	181	46	7400
6	518	1720	3298	1014	435	2064	378	160	37	29	23	28	156	509	135	280	67	10851
7	584	3825	7120	1557	564	2749	391	227	160	92	39	91	270	659	220	265	120	18933
8	97	1289	2218	589	201	1051	129	118	153	160	35	84	283	311	77	171	45	7011
9	177	411	443	141	60	348	43	45	111	121	17	67	99	78	29	46	14	2250
10	112	355	400	51	18	149	15	14	120	139	14	72	91	65	18	40	10	1684
11	13	113	151	22	15	79	8	12	63	59	8	40	52	28	9	24	5	700
12	9	30	78	9	7	33	5	8	54	60	4	43	40	13	4	17	3	417
13		8	21	4	4	15	2	4	18	20	1	12	15	3		5	1	132
14		1	21		1	23		2	16	14	1	14	7	8	1	2	1	112
15									2	3		7	2				0	14
16+						2			2	3		2	2	2			0	13
Total	1874	9641	16047	4377	1798	7432	1511	694	740	709	157	470	1094	2045	631	1088	319	50627

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1988

Age	1988																
	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	LLS 10	LLS 11	LLS 12	LHP 13	LHP 14	UNS	TOTAL
3		4	5	8	65	1	1	13					1	4	3	0	105
4	5	181	32	172	697	42	31	265	5	1	29	13	82	42	16	2	1615
5	391	515	398	824	1421	261	104	647	6	22	73	65	154	104	39	6	5030
6	220	1732	2753	1108	1828	1527	163	1018	33	55	109	121	167	125	46	14	11019
7	579	1163	2510	575	891	1575	145	781	59	87	90	154	123	131	34	11	8908
8	513	1671	3567	653	1293	1745	182	1228	125	130	175	259	143	212	39	14	11949
9	277	1247	2347	262	428	949	125	365	105	96	108	137	100	111	25	8	6690
10	156	340	438	40	94	193	33	130	107	96	50	55	16	43	4	2	1797
11		231	298	14	58	79	9	21	80	52	26	33	17	27	4	1	950
12	1	28	204	16	13	32	4	7	45	37	12	19	14	15	3	1	451
13			54	1	25	13	4	6	26	35	5	15	3	10	1	0	198
14		1	18		4	3	1	1	7	9	1	4		2		0	51
15			12		4	6		5	2	6	2	4		3		0	44
16+			1		2				1	2	2					0	8
Total	2142	7113	12637	3673	6823	6426	802	4487	601	628	682	880	823	828	211	59	48815

b) 4Vn (Nov.-Dec.) 1988

Age	1988						TOTAL
	OTB 4	SNU 7	LLS 12	LHP 14			
3	2	0	4			6	
4	20	2	86	2		110	
5	41	6	161	4		211	
6	52	9	175	5		240	
7	25	7	129	3		164	
8	37	11	150	4		201	
9	12	3	105	3		122	
10	3	1	17	0		21	
11	2	0	18	0		20	
12	0	0	15	0		15	
13	1	0	3	0		4	
14	0	0				0	
15	0	0				0	
16+	0	0				0	
Total	195	39	861	21		1115	

c) Total 4TVn (Nov.-Apr.) 1988

Age	1988																
	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	LLS 10	LLS 11	LLS 12	LHP 13	LHP 14	UNS	TOTAL
3		4	5	8	67	1	1	13				1	8	3	0	111	
4	5	181	32	172	717	42	31	267	5	1	29	13	168	42	18	2	1725
5	391	515	398	824	1462	261	104	653	6	22	73	65	315	104	43	6	5241
6	220	1732	2753	1108	1880	1527	163	1027	33	55	109	121	342	125	51	14	11259
7	579	1163	2510	575	916	1575	145	788	59	87	90	154	252	131	37	11	9072
8	513	1671	3567	653	1330	1745	182	1239	125	130	175	259	293	212	43	14	12151
9	277	1247	2347	262	440	949	125	368	105	96	108	137	205	111	28	8	6813
10	156	340	438	40	97	193	33	131	107	96	50	55	33	43	4	2	1818
11		231	298	14	60	79	9	21	80	52	26	33	35	27	4	1	970
12	1	28	204	16	13	32	4	7	45	37	12	19	29	15	3	1	466
13			54	1	26	13	4	6	26	35	5	15	6	10	1	0	202
14		1	18		4	3	1	1	7	9	1	4		2		0	51
15			12		4	6		5	2	6	2	4		3		0	44
16+			1		2				1	2	2					0	8
Total	2142	7113	12637	3673	7018	6426	802	4526	601	628	682	880	1684	828	232	59	49931

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1989

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	UNS	TOTAL	
3					53		4	5					1			1			0	64
4		82	89	394	603	34	30	227	1	12		2	38	8	2	31	9	4	1566	
5	45	407	872	1014	1931	461	274	463	5	46		11	93	33	7	74	23	15	5774	
6	201	794	2413	1615	2533	2230	510	1050	36	126	1	39	195	46	16	135	29	30	11999	
7	353	1088	2512	990	1394	2331	275	647	83	156	8	71	183	105	26	114	57	26	10419	
8	552	720	2077	505	827	1316	144	379	71	145	11	65	138	54	22	83	23	17	7149	
9	664	961	1670	572	668	1590	151	501	104	122	18	90	113	81	28	62	40	17	7452	
10	106	781	1177	260	447	931	72	428	114	186	26	89	120	110	24	71	45	13	5000	
11	49	75	184	18	45	229	19	108	38	55	14	29	24	33	7	13	9	2	951	
12	118	50	60	17	12	50	11	36	21	29	6	18	13	6	3	5	1	1	457	
13		32	17	4	1	20	2	18	10	14	7	9	1	7	2	1	1	0	146	
14		6	8			6	2	8	2	8	3	3		1		1		0	48	
15		16	4	1					2	5	2	2	1	2				0	35	
16+		3				6		4	1			1						0	15	
Total	2088	5015	11083	5390	8514	9204	1494	3874	488	904	96	429	920	486	137	591	237	125	51075	

b) 4Vn (Nov.-Dec.) 1989

Age	OTB 4	SNU 7	LLS 13	LHP 16	TOTAL
3	7	0			7
4	77	8	7	0	92
5	245	16	29	1	291
6	322	35	41	1	399
7	177	22	93	3	295
8	105	13	48	1	167
9	85	17	72	2	176
10	57	14	98	2	171
11	6	4	29	0	39
12	2	1	5	0	8
13	0	1	6	0	7
14		0	1		1
15			2		2
16+		0			0
Total	1081	130	432	11	1655

c) Total 4TVn (Nov.-Apr.) 1989

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	UNS	TOTAL	
3					60		4	5					1			1			0	71
4		82	89	394	680	34	30	235	1	12		2	38	15	2	31	9	4	1658	
5	45	407	872	1014	2176	461	274	479	5	46		11	93	62	7	74	24	15	6065	
6	201	794	2413	1615	2855	2230	510	1085	36	126	1	39	195	87	16	135	30	30	12398	
7	353	1088	2512	990	1571	2331	275	669	83	156	8	71	183	198	26	114	60	26	10714	
8	552	720	2077	505	932	1316	144	392	71	145	11	65	138	102	22	83	24	17	7316	
9	664	961	1670	572	753	1590	151	518	104	122	18	90	113	153	28	62	42	17	7628	
10	106	781	1177	260	504	931	72	442	114	186	26	89	120	208	24	71	47	13	5171	
11	49	75	184	18	51	229	19	112	38	55	14	29	24	62	7	13	9	2	990	
12	118	50	60	17	14	50	11	37	21	29	6	18	13	11	3	5	1	1	465	
13		32	17	4	1	20	2	19	10	14	7	9	1	13	2	1	1	0	153	
14		6	8			6	2	8	2	8	3	3		2		1		0	49	
15		16	4	1					2	5	2	2	1	4				0	37	
16+		3				6		4	1			1						0	15	
Total	2088	5015	11083	5390	9595	9204	1494	4004	488	904	96	429	920	918	137	591	248	125	52730	

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1990

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	UNS	TOTAL
3			5	6	67	316	1	13	64	1	1			5			8	5	492
4	68	22	37	110	422	1234	71	194	490	6	11	1	4	35	14	3	24	26	2772
5	94	156	63	783	1251	2478	648	540	821	11	30	4	8	65	31	6	48	68	7105
6	1082	986	140	1612	1170	1860	1324	569	941	16	102	15	14	165	74	7	104	90	10271
7	602	1103	131	2048	909	1658	1671	384	777	39	128	23	35	117	89	12	72	91	9889
8	276	1154	132	1448	482	929	1226	214	430	47	84	30	39	71	93	10	49	63	6777
9	709	783	86	642	317	404	619	140	293	27	72	15	23	96	56	5	43	36	4366
10	830	854	94	552	356	418	512	115	299	25	98	26	21	121	96	5	57	36	4515
11	5	456	47	327	100	176	323	54	211	23	64	15	21	87	37	5	41	20	2012
12		120	14	11	6	42	53	3	41	8	17	5	8	19	11	1	8	4	371
13		22	3	21	7	3	7	1	15	5	9	5	4	6	6		2	1	117
14		12	1	1			2		1	1	6	1	1	7	1		2	0	36
15							1		4	3	7		3	9			3	0	30
16+				2	2	2	3		1	2	2		1	13			1	0	29
Total	3666	5668	753	7563	5089	9520	6461	2227	4388	214	631	140	182	816	508	54	462	440	48782

b) 4Vn (Nov.-Dec.) 1990

Age	OTB 5	SNU 8	LLS 14	UNS	TOTAL
3	46	1		0	48
4	181	10	9	1	201
5	364	17	19	2	403
6	273	20	46	3	342
7	243	16	56	3	318
8	136	9	58	2	206
9	59	6	35	1	102
10	61	6	60	1	129
11	26	4	23	1	54
12	6	1	7	0	14
13	0	0	4	0	5
14		0	1	0	1
15		0		0	0
16+	0	0		0	0
Total	1398	93	318	13	1821

c) Total 4TVn (Nov.-Apr.) 1990

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	UNS	TOTAL
3			5	6	67	362	1	13	65	1	1			5			8	5	540
4	68	22	37	110	422	1415	71	194	500	6	11	1	4	35	23	3	24	27	2973
5	94	156	63	783	1251	2842	648	540	838	11	30	4	8	65	50	6	48	70	7508
6	1082	986	140	1612	1170	2133	1324	569	961	16	102	15	14	165	120	7	104	92	10613
7	602	1103	131	2048	909	1671	1671	384	793	39	128	23	35	117	145	12	72	93	10207
8	276	1154	132	1448	482	1065	1226	214	439	47	84	30	39	71	151	10	49	65	6983
9	709	783	86	642	317	463	619	140	299	27	72	15	23	96	91	5	43	37	4467
10	830	854	94	552	356	479	512	115	305	25	98	26	21	121	156	5	57	37	4644
11	5	456	47	327	100	202	323	54	215	23	64	15	21	87	60	5	41	20	2066
12		120	14	11	6	48	53	3	42	8	17	5	8	19	18	1	8	4	385
13		22	3	21	7	3	7	1	15	5	9	5	4	6	10		2	1	122
14		12	1	1			2		1	1	6	1	1	7	2		2	0	37
15							1		4	3	7		3	9			3	0	30
16+				2	2	2	3		1	2	2		1	13			1	0	30
Total	3666	5668	753	7563	5089	10918	6461	2227	4481	214	631	140	182	816	826	54	462	453	50605

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1991

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	UNS	TOTAL
3	3	1	1	1	22	133		28	29		1	1		10	3	28	3	263
4	128	167	136	161	1247	1481	133	369	625		27	8	1	127	43	159	51	4864
5	495	858	257	821	1776	2456	580	561	1114	6	93	27	6	253	136	194	99	9729
6	897	1202	373	1320	1012	1670	895	410	827	26	99	24	16	155	112	75	89	9203
7	2741	667	289	952	602	989	788	187	504	48	99	21	29	83	83	36	58	8176
8	703	649	239	631	295	646	559	134	359	45	105	20	29	71	61	25	42	4610
9	1015	331	102	450	156	333	214	55	182	45	54	14	30	40	44	16	22	3104
10	800	191	42	166	39	126	107	18	74	29	28	7	21	31	25	11	10	1725
11	24	174	68	196	42	89	85	32	68	26	28	8	18	28	26	11	10	932
12	85	64	34	88	45	45	28	12	69	18	28	5	10	15	18	5	5	573
13		8	9	16	1	10	9	1	3	6	5	2	3	6	5	2	1	88
14		1		4	3	4	2		2	1	2	1	1	2	3		0	24
15		8	2	2			1			1			1		1		0	16
16+				2			1			1		1	1		2	1	0	8
Total	6891	4320	1552	4810	5241	7982	3402	1806	3855	251	569	137	166	820	561	563	389	43316

b) 4Vn (Nov.-Dec.) 1991

Age	OTB * 5	SNU 8	LLS 14	UNS	TOTAL
3	21	1	1	0	24
4	277	20	16	1	314
5	552	36	51	2	641
6	313	27	42	2	384
7	191	16	31	1	239
8	89	12	23	1	125
9	46	6	16	1	69
10	18	2	9	0	30
11	11	2	10	0	23
12	5	2	7	0	14
13	1	0	2	0	3
14	0	0	1		2
15			0		0
16+			1		1
Total	1524	126	210	9	1869

c) Total 4TVn (Nov.-Apr.) 1991

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB * 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	UNS	TOTAL
3	3	1	1	1	22	154		28	29		1	1		10	4	28	3	286
4	128	167	136	161	1247	1757	133	369	646		27	8	1	127	60	159	52	5178
5	495	858	257	821	1776	3008	580	561	1150	6	93	27	6	253	187	194	101	10371
6	897	1202	373	1320	1012	1983	895	410	854	26	99	24	16	155	154	75	91	9586
7	2741	667	289	952	602	1180	788	187	520	48	99	21	29	83	114	36	60	8416
8	703	649	239	631	295	735	559	134	370	45	105	20	29	71	83	25	43	4735
9	1015	331	102	450	156	380	214	55	188	45	54	14	30	40	60	16	23	3173
10	800	191	42	166	39	144	107	18	76	29	28	7	21	31	34	11	10	1754
11	24	174	68	196	42	100	85	32	70	26	28	8	18	28	36	11	10	955
12	85	64	34	88	45	50	28	12	71	18	28	5	10	15	24	5	5	587
13		8	9	16	1	11	9	1	3	6	5	2	3	6	7	2	1	91
14		1		4	3	4	2		2	1	2	1	1	2	4			25
15		8	2	2			1			1			1		1			16
16+				2			1			1		1	1		3	1		9
Total	6891	4320	1552	4810	5241	9506	3402	1806	3981	251	569	137	166	820	771	563	398	45184

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1992

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	UNS	TOTAL
3			42	2	61	174	2	5	48	3		10	18	23	23	5	417
4	135	39	249	184	448	1072	68	93	345	6	1	73	60	176	46	37	3032
5	948	750	615	1555	1795	2453	1278	450	952	25	6	155	150	239	65	134	11570
6	181	1188	415	1831	1933	1345	1421	352	713	56	12	135	105	140	32	116	9376
7	456	858	163	1000	552	505	730	147	283	86	24	72	69	60	12	58	5076
8	729	553	112	521	161	290	408	64	182	68	23	68	54	50	7	33	3323
9	318	359	58	377	134	120	265	44	87	60	19	56	40	34	5	21	1998
10	183	82	23	193	36	62	128	22	37	39	7	33	9	19		9	883
11	142	70	11	72	7	23	62	7	34	16	6	23	10	10	1	4	496
12	66	79	12	79	15	10	36	3	26	14	4	9	6	4	1	4	367
13		29	5	17	6	3	19	4	1	5	3	10	3	4		1	110
14				4		1	2			3		2				0	12
15		1		1		1	1			2						0	5
16+										5		4				0	9
Total	3158	4009	1705	5837	4548	6057	4422	1192	2709	388	104	649	523	760	191	423	36675

b) 4Vn (Nov.-Dec.) 1992

Age	OTB 5	SNU 8	LLS 12	LHP 14	TOTAL
3	59	3	7	0	69
4	362	19	24	1	405
5	829	52	60	1	941
6	455	39	42	0	536
7	171	15	28	0	214
8	98	10	21	0	129
9	41	5	16	0	61
10	21	2	4		27
11	8	2	4	0	13
12	3	1	2	0	7
13	1	0	1		2
14	0				0
15	0				0
16+					
Total	2048	147	208	2	2406

c) Total 4TVn (Nov.-Apr.) 1992

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	UNS	TOTAL
3			42	2	61	233	2	5	51	3		10	26	23	24	5	487
4	135	39	249	184	448	1434	68	93	364	6	1	73	84	176	46	37	3437
5	948	750	615	1555	1795	3282	1278	450	1004	25	6	155	209	239	66	134	12511
6	181	1188	415	1831	1333	1799	1421	352	752	56	12	135	147	140	32	116	9912
7	456	858	163	1000	552	675	730	147	298	86	24	72	97	60	12	58	5290
8	729	553	112	521	161	388	408	64	192	68	23	68	75	50	7	33	3453
9	318	359	58	377	134	160	265	44	92	60	19	56	56	34	5	21	2059
10	183	82	23	193	36	84	128	22	39	39	7	33	12	19		9	910
11	142	70	11	72	7	30	62	7	36	16	6	23	14	10	1	4	510
12	66	79	12	79	15	14	36	3	28	14	4	9	8	4	1	4	375
13		29	5	17	6	4	19	4	1	5	3	10	4	4		1	112
14				4		1	2			3		2				0	12
15		1		1		1	1			2						0	5
16+										5		4				0	9
Total	3158	4009	1705	5837	4548	8105	4422	1192	2856	388	104	649	732	760	194	423	39081

Table 2: Cont'd

a) 4TVn (Jan.-Apr.) 1993

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	GNS 7	LLS 8	LLS 9	LLS 10	LHP 11	UNS	TOTAL
3	1		5		1			4	8	0	34	0	53
4	5		42		7	2		15	48	5	136	0	261
5	28	33	195	4	38	3	12	43	159	21	363	1	900
6	243	131	255	35	55	8	58	31	136	19	170	1	1143
7	234	67	173	39	39	9	149	17	88	13	86	1	915
8	150	16	45	18	11	9	156	5	30	5	33	1	477
9	47	4	20	7	5	5	71	5	27	4	19	0	214
10	28	3	18	5	4	4	34	3	17	3	11	0	130
11	20	2	4	3	1	2	20	1	9	2	6	0	71
12	14	1	1	1	0	1	7	1	5	1	3	0	33
13	12	0	1	0	0	0	8	1	4	1	2	0	29
14		0	1	0	0	0	2		1	0	1	0	7
15			2	0	1	0	5	0	1	0	0	0	9
16+				0		0	2					0	2
Total	780	259	762	112	161	43	524	125	534	74	865	5	4244

b) 4Vn (Nov.-Dec.) 1993

Age	OTB 3	SNU 5	LLS 10	LHP 11	TOTAL
3	0	0	0	0	0
4	0	0	3	0	3
5	1	0	12	0	14
6	1	0	11	0	13
7	1	0	7	0	8
8	0	0	3	0	3
9	0	0	2	0	3
10	0	0	1	0	2
11	0	0	1	0	1
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16+					
Total	3	1	43	1	48

c) Total 4TVn (Nov.-Apr.) 1993

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	GNS 7	LLS 8	LLS 9	LLS 10	LHP 11	UNS	TOTAL
3	1		5		1			4	8	1	34	0	53
4	5		42		7	2		15	48	8	136	0	264
5	28	33	196	4	38	3	12	43	159	34	363	1	914
6	243	131	256	35	55	8	58	31	136	30	170	1	1155
7	234	67	174	39	39	9	149	17	88	20	86	1	924
8	150	16	45	18	11	9	156	5	30	8	33	1	480
9	47	4	20	7	5	5	71	5	27	7	19	0	217
10	28	3	18	5	4	4	34	3	17	4	11	0	132
11	20	2	4	3	1	2	20	1	9	3	6	0	72
12	14	1	1	1	0	1	7	1	5	1	3	0	34
13	12	0	1	0	0	0	8	1	4	1	2	0	29
14		0	1	0	0	0	2		1	0	1	0	7
15			2	0	1	0	5	0	1	0	0	0	9
16+				0		0	2					0	2
Total	780	259	765	112	162	43	524	125	534	117	865	5	4292

Table 2: Cont'd (1994 and 1995 in actual numbers of fish)

c) Total 4TVn (Nov.-Apr.) 1994

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LHP 10	LRR 11	SENT 12	UNS	TOTAL
3	61	31	2115	15	521	22	187	3020	747	404	3887	13169	3968	28147
4	3188	441	4571	453	1034	572	913	5773	3336	4028	11715	10741	7675	54440
5	4977	1311	7342	1845	2257	2075	3484	6661	8566	12788	24270	9215	13917	98706
6	29259	2287	11513	4552	5025	4637	9778	12964	17808	29311	45681	11348	30227	214390
7	58511	2751	10302	5384	8814	4917	14529	24496	22453	36588	47478	8756	40209	285188
8	17862	1289	4936	2693	6435	2609	7856	33051	11896	18944	22670	2201	21738	154181
9	1629	405	1816	1248	3471	1093	3666	20514	5380	8081	11258	1160	9802	69525
10	128	175	701	593	1691	397	1674	7664	2037	2850	4977	393	3821	27103
11	322	167	463	332	1629	329	1236	4256	1543	2210	3233	778	2708	19208
12	992	59	148	95	384	132	355	1915	624	698	1035		1057	7496
13	1122	40	88	78	195	79	247	359	350	639	609		625	4430
14		2	52	35	102	27	76	457	179	190	249	50	233	1652
15		17			109								21	147
16+		4			41								7	52
Total	118051	8978	44049	17324	31708	16888	44002	121130	74921	116731	177063	57812	136008	964666

c) Total 4TVn (Nov.-Apr.) 1995

Age	OTB 1	SNU 2	SNU 3	SNU 4	GNS 5	LLS 6	SENT 7	SENT 8	UNS	TOTAL
3				792	47	2	4578	38385	27521	71326
4	488		90	10483	1835	155	15466	57857	54266	140640
5	2726	1522	1424	11081	1798	674	18909	54563	58867	152565
6	5232	5230	3241	10174	1327	1535	14119	42870	52603	136332
7	10899	12559	6648	11781	7250	5865	27721	59594	89412	231729
8	8304	11409	3539	5116	6481	5611	14724	29584	53256	138023
9	2381	4771	1286	2256	7801	3197	3736	12293	23699	61420
10	792	3076	374	423	3583	1314	1752	3799	9495	24608
11		1713	57	151	2820	801	470	2095	5093	13201
12		1480	121	69	790	220		732	2144	5556
13		219	35	59	699	103		170	807	2091
14		140	34	9	169	55		101	318	825
15		84				39		11	85	218
16+				2	83				53	138
Total	30823	42202	16850	52397	34683	19570	102475	302053	377620	978672

Table 3: Weight at age (kilograms) of the southern Gulf of St. Lawrence cod stock, by area, of each key used, 1971 to 1995. Age key and number correspond to Table 1.

a) 4TVn (Jan.-Apr.) 1971

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LLS 6	MISC 7	AVERAGE WEIGHT
3						0.757	0.757	0.757
4	0.814	0.836	0.795	0.788	1.035	0.906	0.827	0.815
5	1.167	1.092	1.061	1.048	1.318	1.361	1.141	1.115
6	1.435	1.305	1.359	1.333	1.780	1.941	1.414	1.402
7	2.071	1.967	1.884	1.869	3.676	2.578	1.936	2.145
8	2.869	2.639	2.519	2.905	5.541	3.838	3.564	3.681
9	2.941	2.371	2.405	3.599	6.229	4.225	4.492	3.839
10	4.812	3.783	5.226	4.162	6.346	4.710	4.256	5.253
11	5.676	4.789	6.906	6.381	7.158	3.647	6.215	6.010
12	4.709	4.052	5.430	4.804	4.811	4.746	6.945	4.775
13	6.740	7.088	9.174	5.586	3.842	3.842	3.842	6.820
14	7.957	6.769	9.555	4.173	8.459	3.564	6.838	7.457
15	6.998	5.907	11.162	7.885	7.870	8.040	8.947	7.914
16+	12.881	10.005	20.027	6.129	13.144	21.008	23.751	17.558
Average	1.902	1.483	1.598	1.285	5.292	2.825	1.456	1.960

b) 4Vn (Nov.-Dec.) 1971

Age	OTB 3	SNU 4	LLS 6	MISC 7	AVERAGE WEIGHT
3			0.757	0.757	0.757
4	0.795	0.788	0.906	0.827	0.811
5	1.061	1.048	1.361	1.141	1.102
6	1.359	1.333	1.941	1.414	1.474
7	1.884	1.869	2.578	1.936	2.176
8	2.519	2.905	3.838	3.564	3.244
9	2.405	3.599	4.225	4.492	3.391
10	5.226	4.162	4.710	4.256	4.878
11	6.906	6.381	3.647	6.215	5.728
12	5.430	4.804	4.746	6.945	4.947
13	9.174	5.586	3.842	3.842	7.869
14	9.555	4.173	3.564	6.838	5.847
15	11.162	7.885	8.040	8.947	10.027
16+	20.027	6.129	21.008	23.751	20.423
Average	1.598	1.285	2.825	1.456	1.919

c) Total 4TVn (Nov.-Apr.) 1971

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LLS 6	MISC 7	AVERAGE WEIGHT
3						0.757	0.757	0.757
4	0.814	0.836	0.795	0.788	1.035	0.906	0.827	0.815
5	1.167	1.092	1.061	1.048	1.318	1.361	1.141	1.114
6	1.435	1.305	1.359	1.333	1.780	1.941	1.414	1.404
7	2.071	1.967	1.884	1.869	3.676	2.578	1.936	2.146
8	2.869	2.639	2.519	2.905	5.541	3.838	3.564	3.670
9	2.941	2.371	2.405	3.599	6.229	4.225	4.492	3.829
10	4.812	3.783	5.226	4.162	6.346	4.710	4.256	5.245
11	5.676	4.789	6.906	6.381	7.158	3.647	6.215	6.005
12	4.709	4.052	5.430	4.804	4.811	4.746	6.945	4.780
13	6.740	7.088	9.174	5.586	3.842	3.842	3.842	6.847
14	7.957	6.769	9.555	4.173	8.459	3.564	6.838	7.417
15	6.998	5.907	11.162	7.885	7.870	8.040	8.947	7.956
16+	12.881	10.005	20.027	6.129	13.144	21.008	23.751	17.718
Average	1.902	1.483	1.598	1.285	5.292	2.825	1.456	1.959

a) 4TVn (Jan.-Apr.) 1972

Age	OTB 1	OTB 2	OTB 3	SNU 4	GN+LL 5	MISC 6	MISC 7	AVERAGE WEIGHT
3	0.351	0.354	0.533	0.694	0.714	0.311	0.619	0.355
4	0.556	0.534	0.723	0.762	0.749	0.525	0.773	0.559
5	0.865	0.932	0.986	0.978	1.075	0.984	1.085	0.913
6	1.276	1.339	1.404	1.363	1.590	1.375	1.480	1.329
7	1.439	1.505	1.557	1.552	2.383	1.592	1.806	1.514
8	2.129	2.242	2.056	2.168	5.092	2.346	2.311	2.541
9	3.219	4.074	2.968	3.404	6.358	4.060	2.807	4.791
10	3.910	4.718	4.428	5.843	7.618	4.854	3.980	5.924
11	4.620	5.822	5.338	4.383	7.607	5.304	4.485	7.114
12	6.151	6.151	4.056	4.168	9.426	5.532	3.219	8.048
13	5.896	8.593	8.585	9.649	9.453	5.691		8.833
14	6.311	5.489			14.286			10.122
15	4.038	4.222	3.878	3.378	8.147	4.358		5.598
16+		7.911	7.624		14.920	8.371		11.186
Average	0.899	0.999	1.313	1.249	5.555	1.074	1.298	1.152

b) 4Vn (Nov.-Dec.) 1972

Age	OTB 3	SNU 4	GN+LL 5	MISC 7	AVERAGE WEIGHT	
3		0.533	0.694	0.714	0.619	0.547
4		0.723	0.762	0.749	0.773	0.725
5		0.986	0.978	1.075	1.085	0.990
6		1.404	1.363	1.590	1.480	1.415
7		1.557	1.552	2.383	1.806	1.630
8		2.056	2.168	5.092	2.311	3.071
9		2.968	3.404	6.358	2.807	5.521
10		4.428	5.843	7.618	3.980	7.132
11		5.338	4.383	7.607	4.485	7.499
12		4.056	4.168	9.426	3.219	8.670
13		8.585	9.649	9.453		9.398
14				14.286		14.286
15		3.878	3.378	8.147		7.439
16+		7.624		14.920		12.220
Average		1.313	1.249	5.555	1.298	2.053

c) Total 4TVn (Nov.-Apr.) 1972

Age	OTB 1	OTB 2	OTB 3	SNU 4	GN+LL 5	MISC 6	MISC 7	AVERAGE WEIGHT
3	0.351	0.354	0.533	0.694	0.714	0.311	0.619	0.355
4	0.556	0.534	0.723	0.762	0.749	0.525	0.773	0.560
5	0.865	0.932	0.986	0.978	1.075	0.984	1.085	0.914
6	1.276	1.339	1.404	1.363	1.590	1.375	1.480	1.331
7	1.439	1.505	1.557	1.552	2.383	1.592	1.806	1.516
8	2.129	2.242	2.056	2.168	5.092	2.346	2.311	2.554
9	3.219	4.074	2.968	3.404	6.358	4.060	2.807	4.818
10	3.910	4.718	4.428	5.843	7.618	4.854	3.980	5.966
11	4.620	5.822	5.338	4.383	7.607	5.304	4.485	7.133
12	6.151	6.151	4.056	4.168	9.426	5.532	3.219	8.077
13	5.896	8.593	8.585	9.649	9.453	5.691		8.852
14	6.311	5.489			14.286			10.254
15	4.038	4.222	3.878	3.378	8.147	4.358		5.650
16+		7.911	7.624		14.920	8.371		11.234
Average	0.899	0.999	1.313	1.249	5.555	1.074	1.298	1.163

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1973								
Age	OTB 1	OTB 2	SNU 3	GNS 4	LLS 5	MISC 6	MISC 7	AVERAGE WEIGHT
3	0.298	0.500	0.544		0.586		0.526	0.455
4	0.559	0.794	0.771	0.906	0.906	0.714	0.911	0.667
5	0.866	1.032	0.968	1.443	1.126	0.981	1.243	0.917
6	1.159	1.415	1.412	2.226	1.890	1.424	1.763	1.275
7	1.500	1.728	1.770	2.884	2.333	1.885	2.074	1.683
8	1.888	2.019	2.099	4.338	3.375	2.513	2.358	2.299
9	2.483	2.537	2.853	5.456	4.365	3.266	2.940	3.577
10	3.445	4.416	4.715	7.085	5.361	5.151	4.457	5.514
11	3.866	3.937	4.574	8.392	7.204	6.344	8.158	6.011
12	3.591	6.988	3.959	10.342	9.845	9.283	10.326	7.905
13	5.369	5.627	5.852	13.407	7.726	5.016		6.152
14	6.100	6.230	5.205	8.380	8.424	6.461		6.707
15	5.734	4.337	10.455	7.445				8.922
16+	3.356	8.060	3.356	9.285	9.900			6.050
Average	1.068	1.243	1.166	5.527	3.579	1.755	1.578	1.364

b) 4Vn (Nov.-Dec.) 1973						
Age	OTB 2	SNU 3	GNS 4	LLS 5	MISC 7	AVERAGE WEIGHT
3	0.500	0.544		0.586	0.526	0.505
4	0.794	0.771	0.906	0.906	0.911	0.794
5	1.032	0.968	1.443	1.126	1.243	1.033
6	1.415	1.412	2.226	1.890	1.763	1.490
7	1.728	1.770	2.884	2.333	2.074	1.999
8	2.019	2.099	4.338	3.375	2.358	2.637
9	2.537	2.853	5.456	4.365	2.940	3.908
10	4.416	4.715	7.085	5.361	4.457	5.407
11	3.937	4.574	8.392	7.204	8.158	6.482
12	6.988	3.959	10.342	9.845	10.326	9.236
13	5.627	5.852	13.407	7.726		6.440
14	6.230	5.205	8.380	8.424		7.282
15	5.734	4.337	10.455	7.445		7.650
16+	8.060	3.356	9.285	9.900		8.588
Average	1.243	1.166	5.527	3.579	1.578	1.803

c) Total 4TVn (Nov.-Apr.) 1973								
Age	OTB 1	OTB 2	SNU 3	GNS 4	LLS 5	MISC 6	MISC 7	AVERAGE WEIGHT
3	0.298	0.500	0.544		0.586		0.526	0.457
4	0.559	0.794	0.771	0.906	0.906	0.714	0.911	0.670
5	0.866	1.032	0.968	1.443	1.126	0.981	1.243	0.919
6	1.159	1.415	1.412	2.226	1.890	1.424	1.763	1.279
7	1.500	1.728	1.770	2.884	2.333	1.885	2.074	1.690
8	1.888	2.019	2.099	4.338	3.375	2.513	2.358	2.308
9	2.483	2.537	2.853	5.456	4.365	3.266	2.940	3.589
10	3.445	4.416	4.715	7.085	5.361	5.151	4.457	5.510
11	3.866	3.937	4.574	8.392	7.204	6.344	8.158	6.026
12	3.591	6.988	3.959	10.342	9.845	9.283	10.326	7.949
13	5.369	5.627	5.852	13.407	7.726	5.016		6.159
14	6.100	6.230	5.205	8.380	8.424	6.461		6.720
15	5.734	4.337	10.455	7.445				8.862
16+	3.356	8.060	3.356	9.285	9.900			6.120
Average	1.068	1.243	1.166	5.527	3.579	1.755	1.578	1.372

a) 4TVn (Jan.-Apr.) 1974							
Age	OTB 1	OTB 2	SNU 3	GNS 4	MISC 5	MISC 6	AVERAGE WEIGHT
3	0.334	0.621	0.557	0.672	0.454	0.617	0.601
4	0.616	0.859	0.774	0.916	0.707	0.931	0.777
5	0.953	1.288	1.305	1.521	1.119	1.399	1.079
6	1.437	1.643	1.661	1.942	1.536	1.764	1.483
7	1.886	1.965	1.951	2.577	1.828	2.175	1.955
8	2.314	2.943	2.883	3.450	2.836	3.114	2.680
9	2.489	3.164	3.157	3.872	3.064	3.485	2.892
10	3.106	3.208	3.341	5.777	3.845	5.833	4.171
11	4.892	2.802	2.814	8.218	6.088	8.610	6.066
12	5.668	4.897	4.852	8.676	6.050	9.986	7.257
13	5.729	11.994		9.508		11.760	8.289
14	5.392			10.425			6.600
15	10.027			8.941			9.122
16+	15.096			8.805			11.765
Average	1.559	1.251	1.063	4.319	1.524	1.762	1.622

b) 4Vn (Nov.-Dec.) 1974						
Age	OTB 2	SNU 3	GNS * 4	MISC 6	AVERAGE WEIGHT	
3	0.621	0.557	0.590	0.617	0.616	
4	0.859	0.774	0.895	0.931	0.865	
5	1.288	1.305	1.427	1.399	1.337	
6	1.643	1.661	1.869	1.764	1.740	
7	1.965	1.951	2.487	2.175	2.150	
8	2.943	2.883	3.361	3.114	3.102	
9	3.164	3.157	3.754	3.485	3.570	
10	3.208	3.341	5.650	5.833	3.387	
11	2.802	2.814	8.194	8.610	9.732	
12	4.897	4.852	8.338	9.986	6.859	
13	11.994		9.629	11.760	9.373	
14			9.997		9.997	
15						
16+			10.692		10.692	
Average	1.251	1.063	1.749	1.762	1.395	

c) Total 4TVn (Nov.-Apr.) 1974							
Age	OTB 1	OTB 2	SNU 3	GNS * 4	MISC 5	MISC 6	AVERAGE WEIGHT
3	0.334	0.621	0.557	0.590	0.454	0.617	0.602
4	0.616	0.859	0.774	0.895	0.707	0.931	0.783
5	0.953	1.288	1.305	1.427	1.119	1.399	1.091
6	1.437	1.643	1.661	1.869	1.536	1.764	1.489
7	1.886	1.965	1.951	2.487	1.828	2.175	1.956
8	2.314	2.943	2.883	3.361	2.836	3.114	2.676
9	2.489	3.164	3.157	3.754	3.064	3.485	2.894
10	3.106	3.208	3.341	5.650	3.845	5.833	4.109
11	4.892	2.802	2.814	8.194	6.088	8.610	5.967
12	5.668	4.897	4.852	8.338	6.050	9.986	7.075
13	5.729	11.994		9.629		11.760	8.301
14	5.392			9.997			6.872
15	10.027			9.805			9.842
16+	15.096			10.692			12.649
Average	1.559	1.251	1.063	3.777	1.524	1.762	1.605

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1975

Age	OTB 1	OTB 2	SNU 3	GNS 4	LHP 5	MISC 6	MISC 7	AVERAGE WEIGHT
3	0.429	0.620	0.573		0.511		0.599	0.481
4	0.619	0.907	0.844	1.067	0.852	0.898	0.853	0.736
5	0.974	1.232	1.194	1.725	1.198	1.238	1.327	1.145
6	1.611	1.763	1.703	2.407	2.195	1.880	2.207	1.764
7	2.231	2.287	2.030	2.870	2.772	2.311	2.433	2.362
8	2.607	2.390	2.173	3.305	3.332	2.600	2.921	2.750
9	3.052	2.852	2.564	3.749	3.574	2.976	3.966	3.222
10	3.213	3.704	3.071	4.132	4.015	3.600	4.427	3.699
11	3.143	3.902	2.970	6.032	5.076	4.490	5.509	4.459
12	4.996	7.191	3.802	8.066	6.036	5.671	9.464	6.950
13	6.396	9.714		10.539	9.728		10.923	9.199
14	8.342	4.589	3.734	6.452	6.855	4.596		6.317
15	8.386							8.386
16+	11.618	6.169	3.404	5.670	6.257	3.772		6.190
Average	1.220	1.519	1.064	4.019	2.820	1.800	1.522	1.571

b) 4Vn (Nov.-Dec.) 1975

Age	OTB 2	SNU 3	GNS 4	LHP 5	AVERAGE WEIGHT
3	0.620	0.573		0.511	0.608
4	0.907	0.844	1.067	0.852	0.903
5	1.232	1.194	1.725	1.198	1.230
6	1.763	1.703	2.407	2.195	1.791
7	2.287	2.030	2.870	2.772	2.344
8	2.390	2.173	3.305	3.332	2.571
9	2.852	2.564	3.749	3.574	3.038
10	3.704	3.071	4.132	4.015	3.812
11	3.902	2.970	6.032	5.076	4.283
12	7.191	3.802	8.066	6.036	6.652
13	9.714		10.539	9.728	9.749
14	4.589	3.734	6.452	6.855	5.558
15					
16+	6.169	3.404	5.670	6.257	6.177
Average	1.519	1.064	4.019	2.820	1.615

c) Total 4TVn (Nov.-Apr.) 1975

Age	OTB 1	OTB 2	SNU 3	GNS 4	LHP 5	MISC 6	MISC 7	AVERAGE WEIGHT
3	0.429	0.620	0.573		0.511		0.599	0.482
4	0.619	0.907	0.844	1.067	0.852	0.898	0.853	0.738
5	0.974	1.232	1.194	1.725	1.198	1.238	1.327	1.147
6	1.611	1.763	1.703	2.407	2.195	1.880	2.207	1.764
7	2.231	2.287	2.030	2.870	2.772	2.311	2.433	2.362
8	2.607	2.390	2.173	3.305	3.332	2.600	2.921	2.746
9	3.052	2.852	2.564	3.749	3.574	2.976	3.966	3.219
10	3.213	3.704	3.071	4.132	4.015	3.600	4.427	3.701
11	3.143	3.902	2.970	6.032	5.076	4.490	5.509	4.456
12	4.996	7.191	3.802	8.066	6.036	5.671	9.464	6.947
13	6.396	9.714		10.539	9.728		10.923	9.203
14	8.342	4.589	3.734	6.452	6.855	4.596		6.303
15	8.386							8.386
16+	11.618	6.169	3.404	5.670	6.257	3.772		6.190
Average	1.220	1.518	1.064	4.019	2.820	1.800	1.522	1.572

a) 4TVn (Jan.-Apr.) 1976

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	AVERAGE WEIGHT
3	0.441	0.389	0.471	0.515	0.548	0.553	0.491	0.397	0.522	0.410
4	0.671	0.756	0.737	0.801	0.857	0.843	0.804	0.737	0.809	0.743
5	0.992	1.167	1.168	1.242	1.483	1.288	1.290	1.163	1.256	1.071
6	1.403	1.736	1.683	1.783	2.330	1.728	2.015	1.722	1.802	1.507
7	1.860	2.289	2.101	2.282	3.191	2.554	2.991	2.236	2.530	2.170
8	2.444	2.968	2.939	2.937	3.663	2.596	3.021	2.958	2.991	2.837
9	2.592	3.364	2.687	2.958	4.127		3.456	3.296	3.275	3.220
10	3.582	3.319	3.458	4.311	4.534		4.200	3.406	3.893	3.869
11	4.580	3.857	3.132	3.427	5.739		4.897		4.247	4.736
12	4.364	4.462	4.721	3.100	5.588		4.945		4.826	5.058
13	4.733	4.875			8.179		3.839			6.236
14	6.994	12.343			11.743		10.578			10.346
15	11.916	5.492			12.255					11.477
16+	15.436	11.682			17.094		21.126			14.548
Average	1.313	1.334	1.231	1.213	3.327	1.278	1.598	1.252	1.250	1.440

b) 4Vn (Nov.-Dec.) 1976

Age	OTB 2	SNU 4	GNS 5	LLS 6	LHP 7	AVERAGE WEIGHT
3	0.448	0.515	0.548	0.553	0.491	0.455
4	0.820	0.801	0.857	0.843	0.804	0.820
5	1.243	1.242	1.483	1.288	1.290	1.245
6	1.819	1.783	2.330	1.728	2.015	1.818
7	2.363	2.282	3.191	2.554	2.991	2.374
8	2.950	2.937	3.663	2.596	3.021	2.947
9	3.364	2.958	4.127		3.456	3.368
10	3.210	4.311	4.534		4.200	3.238
11	3.728	3.427	5.739		4.897	3.748
12	4.698	3.100	5.588		4.945	4.723
13	4.923		8.179		3.839	4.981
14	8.824		11.743		10.578	8.852
15	5.378		12.255			5.424
16+	12.196		17.094		21.126	12.001
Average	1.434	1.213	3.327	1.278	1.598	1.430

c) Total 4TVn (Nov.-Apr.) 1976

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	AVERAGE WEIGHT
3	0.441	0.448	0.471	0.515	0.548	0.553	0.491	0.397	0.522	0.456
4	0.671	0.820	0.737	0.801	0.857	0.843	0.804	0.737	0.809	0.782
5	0.992	1.243	1.168	1.242	1.483	1.288	1.290	1.163	1.256	1.107
6	1.403	1.819	1.683	1.783	2.330	1.728	2.015	1.722	1.802	1.535
7	1.860	2.363	2.101	2.282	3.191	2.554	2.991	2.236	2.530	2.194
8	2.444	2.950	2.939	2.937	3.663	2.596	3.021	2.958	2.991	2.844
9	2.592	3.364	2.687	2.958	4.127		3.456	3.296	3.275	3.231
10	3.582	3.210	3.458	4.311	4.534		4.200	3.406	3.893	3.793
11	4.580	3.728	3.132	3.427	5.739		4.897		4.247	4.615
12	4.364	4.698	4.721	3.100	5.588		4.945		4.826	5.092
13	4.733	4.923			8.179		3.839			6.191
14	6.994	8.824			11.743		10.578			9.873
15	11.916	5.378			12.255					10.453
16+	15.436	12.196			17.094		21.126			15.053
Average	1.313	1.408	1.231	1.213	3.327	1.278	1.598	1.252	1.250	1.453

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1977											
Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE WEIGHT
3		0.557	0.559	0.525	0.474	0.469	0.500	0.480	0.525	0.569	0.530
4	0.839	0.762	0.706	0.720	0.842	0.788	0.807	0.739	0.729	0.777	0.758
5	1.166	1.234	1.166	1.328	1.693	1.225	1.345	1.157	1.320	1.327	1.250
6	1.464	1.745	1.671	1.863	2.380	1.856	2.004	1.729	1.853	1.875	1.812
7	2.085	2.216	2.030	2.320	2.892	2.246	2.479	2.169	2.284	2.471	2.437
8	3.277	3.344	2.424	2.997	3.794	3.200	3.684	2.767	3.102	3.570	3.517
9	4.044	3.811	3.894	3.446	4.450	5.372	4.588	3.717	3.886	3.951	4.241
10	3.838	3.195	4.208	3.378	4.828		4.701	3.428	3.724	4.646	4.290
11	4.065	4.295	2.809	3.939	5.706		5.290	3.741	4.300	7.086	5.079
12	5.238	4.346	4.997	4.298	6.376		5.936	4.878			5.494
13	6.143	8.448		4.730	6.349		4.744			8.174	6.742
14		11.170			8.496						8.982
15	13.736	8.893			11.669						10.798
16+	12.663	5.389			17.253						9.217
Average	1.406	1.436	1.255	1.164	3.260	1.142	1.479	1.535	1.188	1.366	1.622

b) 4Vn (Nov.-Dec.) 1977						
Age	OTB * 2	SNU 4	LLS 6	LHP 7	MISC 10	AVERAGE WEIGHT
3	0.552	0.525	0.469	0.500	0.569	0.505
4	0.846	0.720	0.788	0.807	0.777	0.834
5	1.272	1.328	1.225	1.345	1.327	1.272
6	1.715	1.863	1.856	2.004	1.875	1.752
7	2.182	2.320	2.246	2.479	2.471	2.266
8	3.311	2.997	3.200	3.684	3.570	3.276
9	3.830	3.446	5.372	4.588	3.951	3.101
10	3.307	3.378		4.701	4.646	3.744
11	4.051	3.939		5.290	7.086	3.937
12	4.219	4.298		5.936		4.157
13	7.860	4.730		4.744	8.174	7.979
14	9.623					9.623
15	12.415					
16+	6.495					
Average	1.103	1.164	1.142	1.479	1.366	1.124

c) Total 4TVn (Nov.-Apr.) 1977											
Age	OTB 1	OTB * 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE WEIGHT
3		0.552	0.559	0.525	0.474	0.469	0.500	0.480	0.525	0.569	0.525
4	0.839	0.846	0.706	0.720	0.842	0.788	0.807	0.739	0.729	0.777	0.811
5	1.166	1.272	1.166	1.328	1.693	1.225	1.345	1.157	1.320	1.327	1.269
6	1.464	1.715	1.671	1.863	2.380	1.856	2.004	1.729	1.853	1.875	1.793
7	2.085	2.182	2.030	2.320	2.892	2.246	2.479	2.169	2.284	2.471	2.416
8	3.277	3.311	2.424	2.997	3.794	3.200	3.684	2.767	3.102	3.570	3.511
9	4.044	3.830	3.894	3.446	4.450	5.372	4.588	3.717	3.886	3.951	4.270
10	3.838	3.307	4.208	3.378	4.828		4.701	3.428	3.724	4.646	4.307
11	4.065	4.051	2.809	3.939	5.706		5.290	3.741	4.300	7.086	5.099
12	5.238	4.219	4.997	4.298	6.376		5.936	4.878			5.572
13	6.143	7.860		4.730	6.349		4.744			8.174	6.455
14		9.623			8.496						8.609
15	13.736	12.415			11.669						12.559
16+	12.663	6.495			17.253						9.880
Average	1.406	1.332	1.255	1.164	3.260	1.142	1.479	1.535	1.188	1.366	1.517

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1978

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE WEIGHT
3	0.357	0.384	0.375	0.473	0.493	0.443	0.535	0.336	0.492	0.472	0.403
4	0.720	0.608	0.674	0.741	0.768	0.813	0.799	0.632	0.743	0.747	0.680
5	1.146	0.898	0.904	1.055	1.084	1.169	1.133	0.912	1.073	1.235	1.028
6	1.707	1.549	1.617	1.658	1.663	1.719	1.755	1.578	1.652	1.840	1.660
7	2.216	2.201	2.209	2.125	2.443	2.413	2.458	2.256	2.207	2.358	2.262
8	2.488	2.658	2.679	2.488	3.557	2.945	2.791	2.788	2.466	2.828	2.806
9	3.364	3.884	4.118	3.601	5.519	3.887	3.365		3.347	3.427	4.340
10	3.403	4.283	4.426	4.067	5.717	4.215	3.818			3.916	4.642
11	4.544	4.826	7.455	3.281	7.554	5.085	3.412				6.449
12	5.794	4.820	3.601	3.945	7.281		3.673				6.472
13		3.568		3.230	7.374		3.563				6.242
14	5.089										5.089
15		8.020			12.637						11.572
16+	17.781	5.736			13.108						10.201
Average	1.437	0.993	0.968	1.100	1.661	1.572	1.531	0.984	1.118	1.451	1.270

b) 4Vn (Nov.-Dec.) 1978

Age	OTB 2	SNU 4	LLS 6	LHP 7	MISC 10	AVERAGE WEIGHT
3	0.384	0.473	0.443	0.535	0.472	0.424
4	0.608	0.741	0.813	0.799	0.747	0.750
5	0.898	1.055	1.169	1.133	1.235	1.116
6	1.549	1.658	1.719	1.755	1.840	1.705
7	2.201	2.125	2.413	2.458	2.358	2.395
8	2.658	2.488	2.945	2.791	2.828	2.893
9	3.884	3.601	3.887	3.365	3.427	3.832
10	4.283	4.067	4.215	3.818	3.916	4.172
11	4.826	3.281	5.085	3.412		4.978
12	4.820	3.945		3.673		4.162
13	3.568	3.230		3.563		3.549
14						
15	8.020					8.020
16+	5.736					5.736
Average	0.993	1.100	1.572	1.531	1.451	1.453

c) Total 4TVn (Nov.-Apr.) 1978

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE WEIGHT
3	0.357	0.384	0.375	0.473	0.493	0.443	0.535	0.336	0.492	0.472	0.403
4	0.720	0.608	0.674	0.741	0.768	0.813	0.799	0.632	0.743	0.747	0.681
5	1.146	0.898	0.904	1.055	1.084	1.169	1.133	0.912	1.073	1.235	1.030
6	1.707	1.549	1.617	1.658	1.663	1.719	1.755	1.578	1.652	1.840	1.662
7	2.216	2.201	2.209	2.125	2.443	2.413	2.458	2.256	2.207	2.358	2.267
8	2.488	2.658	2.679	2.488	3.557	2.945	2.791	2.788	2.466	2.828	2.809
9	3.364	3.884	4.118	3.601	5.519	3.887	3.365		3.347	3.427	4.326
10	3.403	4.283	4.426	4.067	5.717	4.215	3.818			3.916	4.629
11	4.544	4.826	7.455	3.281	7.554	5.085	3.412				6.367
12	5.794	4.820	3.601	3.945	7.281		3.673				6.458
13		3.568		3.230	7.374		3.563				6.227
14	5.089										5.089
15		8.020			12.637						11.561
16+	17.781	5.736			13.108						10.172
Average	1.437	0.993	0.968	1.100	1.661	1.572	1.531	0.984	1.118	1.451	1.274

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1979

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	LL+LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE WEIGHT
3		0.494	0.555	0.345	0.462	0.521	0.324	0.465	0.444	0.553	0.510
4	0.613	0.684	0.779	0.632	0.639	0.666	0.707	0.648	0.638	0.764	0.706
5	0.920	1.014	1.087	0.970	1.003	0.998	1.049	0.983	1.000	1.099	1.004
6	1.409	1.362	1.445	1.326	1.413	1.634	1.542	1.333	1.411	1.514	1.416
7	2.111	1.952	2.534	1.965	2.162	2.612	2.345	1.991	2.080	2.441	2.214
8	2.909	2.499	3.511	2.857	2.668	4.146	3.601	2.642	3.080	3.252	3.298
9	3.138	3.284	5.130	3.179	2.838	4.666	4.144	3.216	3.483	4.405	4.063
10	4.223	5.628	5.631	6.886	4.685	7.910	7.881		6.527		7.134
11	4.207	2.938	6.485	6.593	6.668	7.751	4.345	4.379	6.920		7.021
12	6.427	4.910	6.692			7.335	5.988				6.704
13	3.074	5.378	4.872	5.702	6.427	5.255					4.701
14			7.004		5.036	9.539	9.474				8.714
15			15.955	13.415	8.068	16.117	19.179				15.413
16+		5.702			9.496	33.104					17.401
Average	1.282	1.278	1.291	1.296	1.268	2.745	1.719	1.271	1.348	1.251	1.467

b) 4Vn (Nov.-Dec.) 1979

Age	OTB 3	SNU 5	LL+LHP 7	MISC 10	AVERAGE WEIGHT
3	0.555	0.462	0.324	0.553	0.453
4	0.779	0.639	0.707	0.764	0.732
5	1.087	1.003	1.049	1.099	1.063
6	1.445	1.413	1.542	1.514	1.517
7	2.534	2.162	2.345	2.441	2.355
8	3.511	2.668	3.601	3.252	3.539
9	5.130	2.838	4.144	4.405	4.152
10	5.631	4.685	7.881		7.481
11	6.485	6.668	4.345		4.434
12	6.692		5.988		6.032
13	4.872	6.427			5.354
14	7.004	5.036	9.474		9.382
15	15.955	8.068	19.179		18.694
16+		9.496			9.496
Average	1.291	1.268	1.719	1.251	1.552

c) Total 4TVn (Nov.-Apr.) 1979

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	LL+LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE WEIGHT
3		0.494	0.555	0.345	0.462	0.521	0.324	0.465	0.444	0.553	0.507
4	0.613	0.684	0.779	0.632	0.639	0.666	0.707	0.648	0.638	0.764	0.707
5	0.920	1.014	1.087	0.970	1.003	0.998	1.049	0.983	1.000	1.099	1.006
6	1.409	1.362	1.445	1.326	1.413	1.634	1.542	1.333	1.411	1.514	1.418
7	2.111	1.952	2.534	1.965	2.162	2.612	2.345	1.991	2.080	2.441	2.219
8	2.909	2.499	3.511	2.857	2.668	4.146	3.601	2.642	3.080	3.252	3.305
9	3.138	3.284	5.130	3.179	2.838	4.666	4.144	3.216	3.483	4.405	4.066
10	4.223	5.628	5.631	6.886	4.685	7.910	7.881		6.527		7.139
11	4.207	2.938	6.485	6.593	6.668	7.751	4.345	4.379	6.920		6.963
12	6.427	4.910	6.692			7.335	5.988				6.688
13	3.074	5.378	4.872	5.702	6.427	5.255					4.702
14			7.004		5.036	9.539	9.474				8.794
15			15.955	13.415	8.068	16.117	19.179				15.525
16+		5.702			9.496	33.104					17.345
Average	1.282	1.278	1.291	1.296	1.268	2.745	1.719	1.271	1.348	1.251	1.470

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1980

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LHP 6	MISC 7	MISC 8	AVERAGE WEIGHT
3	0.645	0.693	0.698	0.533	0.577	0.425	0.692	0.470	0.565
4	0.715	0.723	0.767	0.649	0.716	0.640	0.745	0.641	0.687
5	0.857	0.930	0.991	0.926	1.014	0.873	0.941	0.921	0.918
6	1.183	1.263	1.221	1.185	1.421	1.140	1.230	1.184	1.206
7	1.499	1.576	1.365	1.346	1.851	1.500	1.523	1.419	1.471
8	2.429	2.871	2.228	2.391	3.208	2.896	2.703	2.564	2.639
9	2.769	3.225	2.403	2.316	3.524	2.536	3.059	2.577	2.890
10	2.997	2.964	2.513	2.569	5.484	3.173	3.074	4.186	3.549
11	4.221	6.359			9.077		6.359	9.076	7.928
12	3.722	7.773			8.377			8.377	5.805
13	6.499	5.722			13.627		5.722	13.627	10.093
14	9.522	4.579		4.579			4.579		5.815
15	5.722				10.666			10.666	9.677
16+	13.251	6.359			18.191		6.359		9.355
Average	1.235	1.380	1.178	1.103	2.449	1.051	1.336	1.158	1.254

b) 4Vn (Nov.-Dec.) 1980

Age	OTB 3	SNU 4	LHP * 6	MISC 8	AVERAGE WEIGHT
3	0.698	0.533	0.425	0.470	0.408
4	0.767	0.649	0.644	0.641	0.635
5	0.991	0.926	0.903	0.921	0.879
6	1.221	1.185	1.416	1.184	-0.452
7	1.365	1.346	2.101	1.419	1.912
8	2.228	2.391	3.366	2.564	3.348
9	2.403	2.316	4.092	2.577	4.048
10	2.513	2.569	5.471	4.186	5.442
11			7.314	9.076	9.076
12			6.846	8.377	8.377
13			9.384	13.627	13.627
14		4.579			4.579
15			7.773	10.666	10.666
16+					
Average	1.178	1.103	negative total #s	1.158	6.191

c) Total 4TVn (Nov.-Apr.) 1980

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LHP * 6	MISC 7	MISC 8	AVERAGE WEIGHT
3	0.645	0.693	0.698	0.533	0.577	0.425	0.692	0.470	0.575
4	0.715	0.723	0.767	0.649	0.716	0.644	0.745	0.641	0.690
5	0.857	0.930	0.991	0.926	1.014	0.903	0.941	0.921	0.921
6	1.183	1.263	1.221	1.185	1.421	1.416	1.230	1.184	1.215
7	1.499	1.576	1.365	1.346	1.851	2.101	1.523	1.419	1.497
8	2.429	2.871	2.228	2.391	3.208	3.366	2.703	2.564	2.777
9	2.769	3.225	2.403	2.316	3.524	4.092	3.059	2.577	3.081
10	2.997	2.964	2.513	2.569	5.484	5.471	3.074	4.186	3.996
11	4.221	6.359			9.077	7.314	6.359	9.076	7.834
12	3.722	7.773			8.377	6.846		8.377	6.014
13	6.499	5.722			13.627	9.384	5.722	13.627	9.977
14	9.522	4.579		4.579			4.579		5.811
15	5.722				10.666	7.773		10.666	9.134
16+	13.251	6.359			18.191		6.359		9.355
Average	1.235	1.380	1.178	1.103	2.449	2.101	1.336	1.158	1.303

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1981												
Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	GNS 7	LLS 8	LHP 9	MISC 10	MISC 11	AVERAGE WEIGHT
3		0.402	0.540	0.571		0.518	0.616	0.534	0.585	0.232	0.573	0.497
4	0.549	0.644	0.681	0.722	0.639	0.703	0.758	0.764	0.758	0.634	0.735	0.675
5	0.741	0.868	0.893	0.918	0.809	0.915	0.959	0.992	0.928	0.816	0.945	0.849
6	1.006	1.222	1.180	1.289	1.060	1.168	1.353	1.425	1.182	1.081	1.239	1.131
7	1.249	1.522	1.393	1.539	1.227	1.334	1.819	1.845	1.429	1.285	1.443	1.382
8	1.494	1.906	1.717	1.747	1.478	1.746	2.663	2.689	1.885	1.560	1.918	1.830
9	2.908	2.461	2.478	2.208	1.879	2.739	3.729	4.285	2.282	2.009	3.145	3.144
10	3.500	3.276	2.869	3.239	2.940	2.802	4.467	4.952	2.742	3.041	3.919	4.116
11	5.023	3.948	3.968	3.672	2.877	3.451	4.364	4.829	2.591	3.345	4.533	4.455
12	6.384				4.517		5.372	5.560		4.546	5.314	5.604
13	7.156	4.420	4.420	4.420			4.757	6.959	2.986		6.180	6.019
14	10.232				3.934							7.083
15		3.486	3.486									3.486
16+	9.999					6.760						8.380
Average	1.107	1.333	1.236	1.403	1.122	1.159	2.069	2.535	1.180	1.157	1.282	1.289

b) 4Vn (Nov.-Dec.) 1981						
Age	OTB 4	SNU 6	LLS 8	LHP 9	MISC 11	AVERAGE WEIGHT
3	0.571	0.518	0.534	0.585	0.573	0.537
4	0.722	0.703	0.764	0.758	0.735	0.725
5	0.918	0.915	0.992	0.928	0.945	0.938
6	1.289	1.168	1.425	1.182	1.239	1.302
7	1.539	1.334	1.845	1.429	1.443	1.621
8	1.747	1.746	2.689	1.885	1.918	2.294
9	2.208	2.739	4.285	2.282	3.145	4.019
10	3.239	2.802	4.952	2.742	3.919	4.837
11	3.672	3.451	4.829	2.591	4.533	4.754
12			5.560		5.314	5.560
13	4.420		6.959	2.986	6.180	6.915
14						
15						
16+		6.760				6.760
Average	1.403	1.159	2.535	1.180	1.282	1.845

c) Total 4TVn (Nov.-Apr.) 1981												
Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	GNS 7	LLS 8	LHP 9	MISC 10	MISC 11	AVERAGE WEIGHT
3		0.402	0.540	0.571		0.518	0.616	0.534	0.585	0.232	0.573	0.498
4	0.549	0.644	0.681	0.722	0.639	0.703	0.758	0.764	0.758	0.634	0.735	0.675
5	0.741	0.868	0.893	0.918	0.809	0.915	0.959	0.992	0.928	0.816	0.945	0.850
6	1.006	1.222	1.180	1.289	1.060	1.168	1.353	1.425	1.182	1.081	1.239	1.134
7	1.249	1.522	1.393	1.539	1.227	1.334	1.819	1.845	1.429	1.285	1.443	1.387
8	1.494	1.906	1.717	1.747	1.478	1.746	2.663	2.689	1.885	1.560	1.918	1.844
9	2.908	2.461	2.478	2.208	1.879	2.739	3.729	4.285	2.282	2.009	3.145	3.191
10	3.500	3.276	2.869	3.239	2.940	2.802	4.467	4.952	2.742	3.041	3.919	4.169
11	5.023	3.948	3.968	3.672	2.877	3.451	4.364	4.829	2.591	3.345	4.533	4.475
12	6.384				4.517		5.372	5.560		4.546	5.314	5.599
13	7.156	4.420	4.420	4.420			4.757	6.959	2.986		6.180	6.106
14	10.232				3.934							7.083
15		3.486	3.486									3.486
16+	9.999					6.760						8.354
Average	1.107	1.333	1.236	1.403	1.122	1.159	2.069	2.535	1.180	1.157	1.282	1.301

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1982

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LLS 10	LLS 11	LHP 12	LHP 13	LHP 14	AVERAGE WEIGHT
3	0.365		0.566	1.134	0.470	0.569	0.807	0.522		0.566	0.702		0.501	0.824	0.747
4	0.570	0.594	0.673	0.918	0.715	0.712	0.852	0.818		0.709	0.801	0.743	0.754	0.940	0.747
5	0.869	0.945	0.913	1.069	0.919	0.948	1.092	1.122	0.942	0.974	1.022	0.957	1.015	1.153	0.960
6	1.105	1.141	1.200	1.243	1.074	1.134	1.270	1.419	1.222	1.195	1.173	1.183	1.259	1.379	1.157
7	1.395	1.397	1.659	1.490	1.320	1.459	1.512	1.720	1.672	1.426	1.437	1.481	1.469	1.650	1.451
8	1.662	1.690	2.473	1.551	1.464	1.709	1.670	2.173	2.213	1.771	1.468	1.639	1.655	1.901	1.736
9	2.391	2.291	2.773	1.981	1.576	2.145	2.556	2.361	3.359	2.103	1.645	1.851	1.988	2.542	2.283
10	3.007	2.930	4.194	2.438	2.303	2.663	4.641	2.980		2.753		2.346	3.037	3.848	3.270
11	3.700	4.939	4.369		2.988	3.649	5.415	3.154		5.840			3.165		4.005
12	4.494	2.994	4.170		5.217	5.550	7.226	3.256		3.563					4.142
13	6.455														6.455
14	6.924														6.924
15	4.177														4.177
16+						11.099									11.099
Average	1.327	1.341	1.837	1.320	1.228	1.340	1.416	1.815	1.899	1.269	1.148	1.401	1.322	1.633	1.381

b) 4Vn (Nov.-Dec.) 1982

Age	OTB 4	SNU 7	LLS 11	LHP 14	AVERAGE WEIGHT
3	1.134	0.807	0.702	0.824	0.754
4	0.918	0.852	0.801	0.940	0.834
5	1.069	1.092	1.022	1.153	1.043
6	1.243	1.270	1.173	1.379	1.208
7	1.490	1.512	1.437	1.650	1.469
8	1.551	1.670	1.468	1.901	1.523
9	1.981	2.556	1.645	2.542	1.895
10	2.438	4.641		3.848	3.264
11		5.415			5.415
12		7.226			7.226
13					
14					
15					
16+					
Average	1.320	1.416	1.148	1.633	1.234

c) Total 4TVn (Nov.-Apr.) 1982

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LLS 10	LLS 11	LHP 12	LHP 13	LHP 14	AVERAGE WEIGHT
3	0.365		0.566	1.134	0.470	0.569	0.807	0.522		0.566	0.702		0.501	0.824	0.749
4	0.570	0.594	0.673	0.918	0.715	0.712	0.852	0.818		0.709	0.801	0.743	0.754	0.940	0.761
5	0.869	0.945	0.913	1.069	0.919	0.948	1.092	1.122	0.942	0.974	1.022	0.957	1.015	1.153	0.968
6	1.105	1.141	1.200	1.243	1.074	1.134	1.270	1.419	1.222	1.195	1.173	1.183	1.259	1.379	1.160
7	1.395	1.397	1.659	1.490	1.320	1.459	1.512	1.720	1.672	1.426	1.437	1.481	1.469	1.650	1.452
8	1.662	1.690	2.473	1.551	1.464	1.709	1.670	2.173	2.213	1.771	1.468	1.639	1.655	1.901	1.722
9	2.391	2.291	2.773	1.981	1.576	2.145	2.556	2.361	3.359	2.103	1.645	1.851	1.988	2.542	2.271
10	3.007	2.930	4.194	2.438	2.303	2.663	4.641	2.980		2.753		2.346	3.037	3.848	3.270
11	3.700	4.939	4.369		2.988	3.649	5.415	3.154		5.840			3.165		4.006
12	4.494	2.994	4.170		5.217	5.550	7.226	3.256		3.563					4.144
13	6.455														6.455
14	6.924														6.924
15	4.177														4.177
16+						11.099									11.099
Average	1.327	1.341	1.837	1.320	1.228	1.340	1.416	1.815	1.899	1.269	1.148	1.401	1.322	1.633	1.370

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1983

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	LHP 15	AVERAGE WEIGHT
3				0.314			0.344					0.327				0.327
4	0.470	0.542	0.714	0.567	0.560	0.696	0.594		0.671		0.671	0.583	0.579	0.665	0.597	0.613
5	0.869	0.863	0.911	0.891	0.887	0.897	0.871	2.025	0.851	1.243	0.942	0.978	0.831	0.895	1.022	0.884
6	1.017	1.135	1.248	1.201	1.130	1.209	1.153	1.895	1.214	1.591	1.338	1.378	1.128	1.238	1.402	1.139
7	1.208	1.273	1.492	1.428	1.260	1.379	1.367	2.074	1.556	1.824	1.635	1.677	1.246	1.498	1.682	1.301
8	1.514	1.431	1.924	1.598	1.407	1.617	1.563	2.585	2.118	2.022	2.190	1.925	1.320	1.872	1.917	1.567
9	1.767	1.578	1.836	1.647	1.538	1.716	1.627	2.870	2.085	2.192	2.005	2.268	1.436	1.894	2.127	1.718
10	1.990	1.590	2.692	1.922	1.567	2.494	1.911	3.478	3.247	2.310	3.151	3.144	1.413	2.700	2.282	1.977
11	5.302	5.075	3.062	3.345	4.595	2.975	3.552	6.944	4.422	3.649	4.350	5.276		2.977	3.773	4.757
12	7.234								6.884			8.156				7.457
13	11.903	3.044			3.044			3.044	8.552			8.975				8.469
14	13.667							15.306	8.552			8.499				11.365
15	14.065											10.343				12.824
16+												14.759				14.759
Average	1.407	1.248	1.401	1.220	1.241	1.243	1.152	2.826	1.466	1.926	1.675	1.989	1.190	1.369	1.688	1.336

b) 4Vn (Nov.-Dec.) 1983

Age	OTB 4	SNU 7	LLS 12	LHP 15	AVERAGE WEIGHT
3	0.314	0.344	0.327		0.321
4	0.567	0.594	0.583	0.597	0.573
5	0.891	0.871	0.978	1.022	0.919
6	1.201	1.153	1.378	1.402	1.279
7	1.428	1.367	1.677	1.682	1.561
8	1.598	1.563	1.925	1.917	1.795
9	1.647	1.627	2.268	2.127	2.051
10	1.922	1.911	3.144	2.282	2.808
11	3.345	3.552	5.276	3.773	5.179
12			8.156		8.156
13			8.975		8.975
14			8.499		8.499
15			10.343		10.343
16+			14.759		14.759
Average	1.220	1.152	1.989	1.688	1.608

c) Total 4TVn (Nov.-Apr.) 1983

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	LHP 15	AVERAGE WEIGHT
3				0.314			0.344					0.327				0.326
4	0.470	0.542	0.714	0.567	0.560	0.696	0.594		0.671		0.671	0.583	0.579	0.665	0.597	0.610
5	0.869	0.863	0.911	0.891	0.887	0.897	0.871	2.025	0.851	1.243	0.942	0.978	0.831	0.895	1.022	0.886
6	1.017	1.135	1.248	1.201	1.130	1.209	1.153	1.895	1.214	1.591	1.338	1.378	1.128	1.238	1.402	1.145
7	1.208	1.273	1.492	1.428	1.260	1.379	1.367	2.074	1.556	1.824	1.635	1.677	1.246	1.498	1.682	1.308
8	1.514	1.431	1.924	1.598	1.407	1.617	1.563	2.585	2.118	2.022	2.190	1.925	1.320	1.872	1.917	1.576
9	1.767	1.578	1.836	1.647	1.538	1.716	1.627	2.870	2.085	2.192	2.005	2.268	1.436	1.894	2.127	1.731
10	1.990	1.590	2.692	1.922	1.567	2.494	1.911	3.478	3.247	2.310	3.151	3.144	1.413	2.700	2.282	2.007
11	5.302	5.075	3.062	3.345	4.595	2.975	3.552	6.944	4.422	3.649	4.350	5.276		2.977	3.773	4.836
12	7.234								6.884			8.156				7.633
13	11.903	3.044			3.044			3.044	8.552			8.975				8.552
14	13.667							15.306	8.552			8.499				10.513
15	14.065											10.343				12.086
16+												14.759				14.759
Average	1.407	1.248	1.401	1.220	1.241	1.243	1.152	2.826	1.466	1.926	1.675	1.989	1.190	1.369	1.688	1.348

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Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1984

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	AVERAGE WEIGHT
3			0.385	0.454			0.479							0.469		0.405	0.400	0.450
4	0.472	0.961	0.685	0.671	0.754	0.678	0.629	0.817	0.625	0.790		0.947	0.629	0.561	1.239	0.627	0.606	0.655
5	0.594	0.748	0.847	0.793	0.723	0.885	0.944	0.836	0.903	1.020		0.713	0.949	0.937	0.836	0.809	0.874	0.787
6	0.863	1.210	1.091	1.000	1.080	1.131	1.204	1.575	1.834	1.600	1.039	1.382	1.400	1.260	1.336	1.194	1.100	1.085
7	1.166	1.405	1.371	1.433	1.287	1.372	1.537	2.082	2.288	1.941	1.406	1.786	1.675	1.611	1.782	1.586	1.513	1.371
8	1.344	1.662	1.637	1.650	1.623	1.655	1.725	2.527	3.234	2.460	1.747	2.193	2.077	1.883	2.194	2.040	1.961	1.610
9	1.671	2.052	1.831	2.057	2.021	1.816	2.109	3.150	3.670	2.702	2.249	3.075	2.303	2.290	2.490	2.177	2.786	2.061
10	1.720	2.550	2.129	2.133	2.585	2.140	2.274	3.827	4.012	2.929	2.462	3.975	2.750	2.472	2.732	2.545	3.337	2.266
11	2.299	2.562	1.904	2.614	2.839	1.847	3.113	4.063	5.996	3.029	3.062	4.046	4.157	3.063	2.683	2.651	4.283	3.050
12	4.268	3.126	7.235		3.285		8.207	5.521	6.724		5.701	6.037	8.951	7.699	2.704	5.969	7.155	4.912
13	3.736	5.069	7.220		4.587			5.793	6.324			9.055	8.213		3.497	5.528		5.659
14	4.961							11.080	9.225				11.625					8.615
15	13.285								11.163				11.915					11.738
16+			13.164					9.141	12.077				14.771	17.072				12.807
Average	1.337	1.550	1.297	1.104	1.366	1.348	1.479	3.037	3.805	2.303	2.131	2.730	2.128	1.617	2.153	1.628	1.577	1.506

b) 4Vn (Nov.-Dec.) 1984

Age	OTB 4	SNU 7	LLS 14	LHP 17	AVERAGE WEIGHT
3	0.454	0.479	0.469	0.400	0.461
4	0.671	0.629	0.561	0.606	0.623
5	0.793	0.944	0.937	0.874	0.847
6	1.000	1.204	1.260	1.100	1.128
7	1.433	1.537	1.611	1.513	1.550
8	1.650	1.725	1.883	1.961	1.812
9	2.057	2.109	2.290	2.786	2.235
10	2.133	2.274	2.472	3.337	2.405
11	2.614	3.113	3.063	4.283	3.028
12		8.207	7.699	7.155	7.684
13					
14					
15					
16+			17.072		17.072
Average	1.104	1.479	1.617	1.577	1.395

c) Total 4TVn (Nov.-Apr.) 1984

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	AVERAGE WEIGHT
3			0.385	0.454			0.479							0.469		0.405	0.400	0.452
4	0.472	0.961	0.685	0.671	0.754	0.678	0.629	0.817	0.625	0.790		0.947	0.629	0.561	1.239	0.627	0.606	0.652
5	0.594	0.748	0.847	0.793	0.723	0.885	0.944	0.836	0.903	1.020		0.713	0.949	0.937	0.836	0.809	0.874	0.792
6	0.863	1.210	1.091	1.000	1.080	1.131	1.204	1.575	1.834	1.600	1.039	1.382	1.400	1.260	1.336	1.194	1.100	1.087
7	1.166	1.405	1.371	1.433	1.287	1.372	1.537	2.082	2.288	1.941	1.406	1.786	1.675	1.611	1.782	1.586	1.513	1.377
8	1.344	1.662	1.637	1.650	1.623	1.655	1.725	2.527	3.234	2.460	1.747	2.193	2.077	1.883	2.194	2.040	1.961	1.615
9	1.671	2.052	1.831	2.057	2.021	1.816	2.109	3.150	3.670	2.702	2.249	3.075	2.303	2.290	2.490	2.177	2.786	2.066
10	1.720	2.550	2.129	2.133	2.585	2.140	2.274	3.827	4.012	2.929	2.462	3.975	2.750	2.472	2.732	2.545	3.337	2.270
11	2.299	2.562	1.904	2.614	2.839	1.847	3.113	4.063	5.996	3.029	3.062	4.046	4.157	3.063	2.683	2.651	4.283	3.050
12	4.268	3.126	7.235		3.285		8.207	5.521	6.724		5.701	6.037	8.951	7.699	2.704	5.969	7.155	4.932
13	3.736	5.069	7.220		4.587			5.793	6.324			9.055	8.213		3.497	5.528		5.659
14	4.961							11.080	9.225				11.625					8.615
15	13.285								11.163				11.915					11.738
16+			13.164					9.141	12.077				14.771	17.072				13.233
Average	1.337	1.550	1.297	1.104	1.366	1.348	1.479	3.037	3.805	2.303	2.131	2.730	2.128	1.617	2.153	1.628	1.577	1.502

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1985

Age	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	AVERAGE WEIGHT
3	0.244	0.274		0.437	0.500		0.437	0.481		0.437			0.437			0.437	0.513	0.437
4	0.457	0.446	0.763	0.588	0.636	0.785	0.568	0.593		0.416			0.552	0.669	0.686	0.491	0.609	0.571
5	0.688	0.631	0.813	0.781	0.779	0.827	0.785	0.749	1.117	0.763		0.955	0.844	0.886	0.722	0.722	0.741	0.760
6	0.970	0.901	1.024	0.967	0.985	1.017	1.014	0.994	1.512	1.393	1.807	1.264	1.121	1.129	0.845	1.005	0.953	0.987
7	1.274	1.275	1.348	1.382	1.278	1.287	1.545	1.373	2.050	2.262	2.292	2.099	1.697	1.776	1.104	1.805	1.153	1.421
8	1.588	1.608	1.578	1.563	1.556	1.519	1.732	1.646	2.064	2.645	2.208	2.544	1.856	1.962	1.321	2.131	1.416	1.669
9	1.942	1.974	1.644	1.547	1.664	1.578	1.783	1.732	2.138	2.886	2.567	2.673	1.975	2.150	1.344	2.333	1.525	1.829
10	1.961	1.960	2.028	1.834	1.880	1.885	2.134	1.953	2.615	3.094	2.484	4.188	2.277	2.748	1.456	2.616	1.524	2.133
11	2.366	2.170	2.275	2.258	1.881	2.191	2.285	1.970	2.558	2.969	2.797	4.521	2.430	3.084	1.730	2.743	1.578	2.389
12	2.791	2.609	2.173	4.152	5.517	1.960	4.701	3.062	2.552	4.440	3.230	5.067	3.836	5.667	1.455	4.569		2.822
13	5.253	4.369	8.525		3.998	7.795	15.770	3.481		11.778	3.903	12.637	15.068	8.921		10.362		8.268
14			5.622			6.136			4.737			6.529						5.711
15				11.969						9.745			10.628			11.030		11.406
16+												14.756	15.477	11.978				13.547
Average	1.242	1.129	1.324	1.068	1.041	1.266	1.231	1.069	2.151	2.394	2.401	3.192	1.553	1.938	0.945	1.394	0.912	1.240

b) 4Vn (Nov.-Dec.) 1985

Age	OTB 5	SNU 8	LLS 14	LHP 17	AVERAGE WEIGHT
3	0.500	0.481		0.513	0.496
4	0.636	0.593	0.669	0.609	0.632
5	0.779	0.749	0.886	0.741	0.795
6	0.985	0.994	1.129	0.953	1.026
7	1.278	1.373	1.776	1.153	1.539
8	1.556	1.646	1.962	1.416	1.816
9	1.664	1.732	2.150	1.525	1.990
10	1.880	1.953	2.748	1.524	2.554
11	1.881	1.970	3.084	1.578	2.827
12	5.517	3.062	5.667		5.613
13	3.998	3.481	8.921		8.727
14					
15					
16+			11.978		11.978
Average	1.041	1.069	1.938	0.912	1.403

c) Total 4TVn (Nov.-Apr.) 1985

Age	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	AVERAGE WEIGHT
3	0.244	0.274		0.437	0.500		0.437	0.481		0.437			0.437			0.437	0.513	0.439
4	0.457	0.446	0.763	0.588	0.636	0.785	0.568	0.593		0.416			0.552	0.669	0.686	0.491	0.609	0.573
5	0.688	0.631	0.813	0.781	0.779	0.827	0.785	0.749	1.117	0.763		0.955	0.844	0.886	0.722	0.722	0.741	0.761
6	0.970	0.901	1.024	0.967	0.985	1.017	1.014	0.994	1.512	1.393	1.807	1.264	1.121	1.129	0.845	1.005	0.953	0.988
7	1.274	1.275	1.348	1.382	1.278	1.287	1.545	1.373	2.050	2.262	2.292	2.099	1.697	1.776	1.104	1.805	1.153	1.423
8	1.588	1.608	1.578	1.563	1.556	1.519	1.732	1.646	2.064	2.645	2.208	2.544	1.856	1.962	1.321	2.131	1.416	1.673
9	1.942	1.974	1.644	1.547	1.664	1.578	1.783	1.732	2.138	2.886	2.567	2.673	1.975	2.150	1.344	2.333	1.525	1.832
10	1.961	1.960	2.028	1.834	1.880	1.885	2.134	1.953	2.615	3.094	2.484	4.188	2.277	2.748	1.456	2.616	1.524	2.144
11	2.366	2.170	2.275	2.258	1.881	2.191	2.285	1.970	2.558	2.969	2.797	4.521	2.430	3.084	1.730	2.743	1.578	2.406
12	2.791	2.609	2.173	4.152	5.517	1.960	4.701	3.062	2.552	4.440	3.230	5.067	3.836	5.667	1.455	4.569		2.895
13	5.253	4.369	8.525		3.998	7.795	15.770	3.481		11.778	3.903	12.637	15.068	8.921		10.362		8.334
14			5.622			6.136			4.737			6.529						5.711
15				11.969						9.745			10.628			11.030		11.406
16+												14.756	15.477	11.978				12.966
Average	1.242	1.129	1.324	1.068	1.041	1.266	1.231	1.069	2.151	2.394	2.401	3.192	1.553	1.938	0.945	1.394	0.912	1.244

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Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1986

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	AVERAGE WEIGHT
3		0.271	0.271	0.466	0.430	0.427	0.464	0.447	0.457				0.438		0.466	0.452	0.362	0.433
4	0.464	0.477	0.450	0.568	0.690	0.715	0.534	0.672	0.785	0.626	0.671	0.592	0.691	0.861	0.536	0.659	0.775	0.599
5	0.654	0.642	0.628	0.862	0.940	0.862	0.777	0.865	0.949	1.019	1.052	0.871	1.011	0.999	0.787	0.931	0.936	0.808
6	0.897	0.862	0.829	1.085	1.064	1.051	0.985	1.027	1.235	1.542	1.723	1.374	1.251	1.360	1.008	1.164	1.192	1.007
7	1.079	1.072	1.034	1.404	1.212	1.277	1.310	1.239	1.697	1.823	2.254	1.874	1.601	1.940	1.321	1.547	1.551	1.281
8	1.670	1.424	1.515	1.937	1.542	1.482	1.902	1.672	1.819	2.440	2.805	2.657	2.260	2.150	1.902	2.290	1.580	1.739
9	2.129	1.547	1.634	2.041	1.638	1.794	1.857	1.860	2.185	2.807	3.167	3.182	2.410	2.425	1.784	2.392	1.818	1.969
10	2.004	1.628	1.728	1.638	1.695	1.943	1.640	1.882	2.453	2.376	3.308	2.852	2.712	2.753	1.571	2.615	1.842	1.869
11	3.299	1.958	2.033	2.817	2.250	2.183	2.984	2.467	2.974	3.308	3.079	3.758	2.849	3.076	2.521	2.704	2.110	2.623
12	1.850	1.709	1.737	2.949	2.067	2.725	2.873	2.138	4.152	3.976	3.062	4.855	2.920	3.462	2.261	2.553	2.573	2.210
13		2.258	2.269	2.591	3.211	3.166	3.033	4.017	5.841	2.753	4.380	3.415	4.889	4.156	2.322	3.624		3.057
14				2.932			3.039			3.065	8.252	3.510	12.004					4.826
15				16.111								13.863						15.362
16+							13.568					13.525						13.547
Average	1.092	1.109	1.072	1.234	1.142	0.985	1.037	1.120	1.450	2.173	2.797	2.391	1.831	1.841	1.057	1.643	1.213	1.194

b) 4Vn (Nov.-Dec.) 1986

Age	OTB 5	SNU 8	LLS 13	LHP 16	AVERAGE WEIGHT
3	0.427	0.457		0.362	0.417
4	0.715	0.785	0.861	0.775	0.795
5	0.862	0.949	0.999	0.936	0.960
6	1.051	1.235	1.360	1.192	1.312
7	1.277	1.697	1.940	1.551	1.889
8	1.482	1.819	2.150	1.580	2.104
9	1.794	2.185	2.425	1.818	2.396
10	1.943	2.453	2.753	1.842	2.720
11	2.183	2.974	3.076	2.110	3.055
12	2.725	4.152	3.462	2.573	3.450
13	3.166	5.841	4.156		4.155
14					
15					
16+					
Average	0.985	1.450	1.841	1.213	1.712

c) Total 4TVn (Nov.-Apr.) 1986

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	AVERAGE WEIGHT
3		0.271	0.271	0.466	0.430	0.427	0.464	0.447	0.457				0.438		0.466	0.452	0.362	0.433
4	0.464	0.477	0.450	0.568	0.690	0.715	0.534	0.672	0.785	0.626	0.671	0.592	0.691	0.861	0.536	0.659	0.775	0.602
5	0.654	0.642	0.628	0.862	0.940	0.862	0.777	0.865	0.949	1.019	1.052	0.871	1.011	0.999	0.787	0.931	0.936	0.810
6	0.897	0.862	0.829	1.085	1.064	1.051	0.985	1.027	1.235	1.542	1.723	1.374	1.251	1.360	1.008	1.164	1.192	1.010
7	1.079	1.072	1.034	1.404	1.212	1.277	1.310	1.239	1.697	1.823	2.254	1.874	1.601	1.940	1.321	1.547	1.551	1.288
8	1.670	1.424	1.515	1.937	1.542	1.482	1.902	1.672	1.819	2.440	2.805	2.657	2.260	2.150	1.902	2.290	1.580	1.748
9	2.129	1.547	1.634	2.041	1.638	1.794	1.857	1.860	2.185	2.807	3.167	3.182	2.410	2.425	1.784	2.392	1.818	1.981
10	2.004	1.628	1.728	1.638	1.695	1.943	1.640	1.882	2.453	2.376	3.308	2.852	2.712	2.753	1.571	2.615	1.842	1.885
11	3.299	1.958	2.033	2.817	2.250	2.183	2.984	2.467	2.974	3.308	3.079	3.758	2.849	3.076	2.521	2.704	2.110	2.637
12	1.850	1.709	1.737	2.949	2.067	2.725	2.873	2.138	4.152	3.976	3.062	4.855	2.920	3.462	2.261	2.553	2.573	2.231
13		2.258	2.269	2.591	3.211	3.166	3.033	4.017	5.841	2.753	4.380	3.415	4.889	4.156	2.322	3.624		3.074
14				2.932			3.039			3.065	8.252	3.510	12.004					4.826
15				16.111								13.863						15.362
16+							13.568					13.525						13.547
Average	1.092	1.109	1.072	1.234	1.142	0.985	1.037	1.120	1.450	2.173	2.797	2.391	1.831	1.841	1.057	1.643	1.213	1.202

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1987

Age	1987															AVERAGE WEIGHT		
	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14		LHP 15	
3	0.310	0.302	0.191		0.442	0.172											0.661	0.259
4	0.471	0.428	0.401	0.556	0.612	0.460	0.503	0.649		0.577	0.539	0.499	0.652	0.626	0.595	0.554		0.480
5	0.671	0.664	0.664	0.765	0.752	0.723	0.639	0.764	0.640	0.902	0.712	0.934	0.897	0.653	0.771			0.700
6	0.805	0.790	0.838	0.891	0.846	0.852	0.739	0.882	1.381	1.385	1.341	1.196	1.120	1.077	0.881	0.833		0.851
7	0.908	0.878	0.981	1.006	0.949	1.020	0.934	1.002	1.682	1.905	1.670	1.596	1.333	1.246	1.015	1.056		0.991
8	1.177	1.090	1.159	1.145	1.093	1.124	1.362	1.241	2.066	2.539	2.257	2.106	1.581	1.519	1.244	1.376		1.247
9	2.535	1.240	1.412	1.407	1.287	1.684	1.898	1.568	2.845	3.860	2.922	3.104	1.951	2.113	1.305	2.018		1.845
10	2.105	1.372	1.567	1.562	1.617	2.111	2.253	2.144	3.217	4.518	3.025	3.889	2.094	2.088	1.660	2.312		2.167
11	2.060	1.612	1.603	1.760	1.526	1.941	2.282	2.014	3.260	3.905	3.061	3.834	2.026	2.501	1.608	2.068		2.243
12	3.060	2.213	1.885	2.255	1.661	2.911	2.816	1.928	4.143	4.339	3.317	5.234	2.536	2.389	1.761	2.570		3.166
13		2.239	2.295	2.122	1.664	3.652	2.940	2.063	4.561	4.809	4.178	4.334	3.610	4.816		3.187		3.571
14		3.503	1.736		2.106	2.157		2.707	3.964	7.435	2.337	5.888	7.512	4.329	2.428	4.826		4.034
15									10.929	12.817		11.956	14.884	13.512				12.412
16+						9.579			14.677	11.856		13.538	15.333	23.144				13.747
Average	1.083	0.890	0.965	0.966	0.906	1.032	0.861	1.079	2.657	3.513	2.059	3.136	1.655	1.294	0.981	1.125		1.076

b) 4Vn (Nov.-Dec.) 1987

Age	1987			AVERAGE WEIGHT
	OTB 4	SNU 7	LLS 13	
3	0.442		0.661	0.583
4	0.612	0.649	0.626	0.621
5	0.752	0.764	0.897	0.838
6	0.846	0.882	1.077	1.002
7	0.949	1.002	1.246	1.148
8	1.093	1.241	1.519	1.403
9	1.287	1.568	2.113	1.850
10	1.617	2.144	2.088	2.044
11	1.526	2.014	2.501	2.277
12	1.661	1.928	2.389	2.188
13	1.664	2.063	4.816	3.368
14	2.106	2.707	4.329	4.038
15			13.512	
16+			23.144	23.144
Average	0.906	1.079	1.294	1.175

c) Total 4TVn (Nov.-Apr.) 1987

Age	1987															AVERAGE WEIGHT		
	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14		LHP 15	
3	0.310	0.302	0.191		0.442	0.172											0.661	0.271
4	0.471	0.428	0.401	0.556	0.612	0.460	0.503	0.649		0.577	0.539	0.499	0.652	0.626	0.595	0.554		0.485
5	0.671	0.664	0.664	0.765	0.752	0.723	0.639	0.764	0.640	0.902	0.712	0.934	0.897	0.653	0.771			0.704
6	0.805	0.790	0.838	0.891	0.846	0.852	0.739	0.882	1.381	1.385	1.341	1.196	1.120	1.077	0.881	0.833		0.855
7	0.908	0.878	0.981	1.006	0.949	1.020	0.934	1.002	1.682	1.905	1.670	1.596	1.333	1.246	1.015	1.056		0.995
8	1.177	1.090	1.159	1.145	1.093	1.124	1.362	1.241	2.066	2.539	2.257	2.106	1.581	1.519	1.244	1.376		1.251
9	2.535	1.240	1.412	1.407	1.287	1.684	1.898	1.568	2.845	3.860	2.922	3.104	1.951	2.113	1.305	2.018		1.845
10	2.105	1.372	1.567	1.562	1.617	2.111	2.253	2.144	3.217	4.518	3.025	3.889	2.094	2.088	1.660	2.312		2.165
11	2.060	1.612	1.603	1.760	1.526	1.941	2.282	2.014	3.260	3.905	3.061	3.834	2.026	2.501	1.608	2.068		2.244
12	3.060	2.213	1.885	2.255	1.661	2.911	2.816	1.928	4.143	4.339	3.317	5.234	2.536	2.389	1.761	2.570		3.148
13		2.239	2.295	2.122	1.664	3.652	2.940	2.063	4.561	4.809	4.178	4.334	3.610	4.816		3.187		3.567
14		3.503	1.736		2.106	2.157		2.707	3.964	7.435	2.337	5.888	7.512	4.329	2.428	4.826		4.034
15									10.929	12.817		11.956	14.884	13.512				12.412
16+						9.579			14.677	11.856		13.538	15.333	23.144				14.214
Average	1.083	0.890	0.965	0.966	0.906	1.032	0.861	1.079	2.657	3.513	2.059	3.136	1.655	1.294	0.981	1.125		1.078

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1988

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	LLS 10	LLS 11	LLS 12	LHP 13	LHP 14	AVERAGE WEIGHT
3		0.133	0.237	0.491	0.423	0.237	0.447	0.364				0.374	0.405	0.417		0.398
4	0.340	0.424	0.489	0.665	0.618	0.468	0.754	0.611	0.468	0.436	0.573	0.598	0.667	0.556	0.724	0.596
5	0.707	0.605	0.713	0.872	0.792	0.763	0.862	0.729	0.696	0.917	0.676	0.882	0.795	0.755	0.823	0.764
6	0.858	0.839	0.884	1.037	0.974	0.900	1.007	0.837	1.353	1.065	0.901	1.140	1.006	1.039	0.995	0.916
7	1.084	1.007	1.005	1.127	1.106	0.987	1.121	0.905	1.753	1.575	1.214	1.311	1.127	1.273	1.082	1.042
8	1.263	1.081	1.088	1.224	1.133	1.142	1.149	0.973	1.675	1.737	1.223	1.407	1.242	1.399	1.164	1.134
9	1.380	1.185	1.235	1.190	1.297	1.241	1.256	1.157	2.442	2.587	1.509	1.585	1.305	1.610	1.183	1.288
10	2.320	1.650	1.349	1.454	1.555	1.656	1.838	1.209	3.750	4.461	2.337	1.846	1.569	1.774	1.309	1.900
11		1.589	1.698	2.371	2.398	1.870	2.381	1.784	4.312	5.625	2.986	2.405	1.548	2.002	1.356	2.247
12	8.100	3.919	1.687	1.836	2.324	2.306	2.639	1.944	4.203	7.538	3.633	2.638	1.601	2.169	1.511	2.757
13			1.707	2.577	2.151	2.463	1.946	1.514	5.477	7.182	4.545	3.765	2.122	2.302	2.130	3.545
14		5.752	2.111		7.302	5.696	3.922	2.254	10.003	8.825	9.055	7.216		2.726		5.667
15			2.354		3.042	13.714		1.282	7.502	13.293	11.858	1.970		1.901		5.936
16+			5.601		9.128				15.329	18.587	19.256					14.359
Average	1.165	1.032	1.079	1.053	0.996	1.088	1.135	0.900	2.992	3.404	1.441	1.490	1.062	1.295	1.036	1.117

b) 4Vn (Nov.-Dec.) 1988

Age		OTB 4		SNU 7		LLS 12		LHP 14	AVERAGE WEIGHT
3		0.423		0.364		0.405			0.410
4		0.618		0.611		0.667		0.724	0.658
5		0.792		0.729		0.795		0.823	0.793
6		0.974		0.837		1.006		0.995	0.993
7		1.106		0.905		1.127		1.082	1.114
8		1.133		0.973		1.242		1.164	1.206
9		1.297		1.157		1.305		1.183	1.298
10		1.555		1.209		1.569		1.309	1.543
11		2.398		1.784		1.548		1.356	1.616
12		2.324		1.944		1.601		1.511	1.618
13		2.151		1.514		2.122		2.130	2.119
14		7.302		2.254					6.946
15		3.042		1.282					2.558
16+		9.128							9.128
Average		0.996		0.900		1.062		1.036	1.044

c) Total 4TVn (Nov.-Apr.) 1988

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	LLS 10	LLS 11	LLS 12	LHP 13	LHP 14	AVERAGE WEIGHT
3		0.133	0.237	0.491	0.423	0.237	0.447	0.364				0.374	0.405	0.417		0.399
4	0.340	0.424	0.489	0.665	0.618	0.468	0.754	0.611	0.468	0.436	0.573	0.598	0.667	0.556	0.724	0.600
5	0.707	0.605	0.713	0.872	0.792	0.763	0.862	0.729	0.696	0.917	0.676	0.882	0.795	0.755	0.823	0.766
6	0.858	0.839	0.884	1.037	0.974	0.900	1.007	0.837	1.353	1.065	0.901	1.140	1.006	1.039	0.995	0.917
7	1.084	1.007	1.005	1.127	1.106	0.987	1.121	0.905	1.753	1.575	1.214	1.311	1.127	1.273	1.082	1.043
8	1.263	1.081	1.088	1.224	1.133	1.142	1.149	0.973	1.675	1.737	1.223	1.407	1.242	1.399	1.164	1.135
9	1.380	1.185	1.235	1.190	1.297	1.241	1.256	1.157	2.442	2.587	1.509	1.585	1.305	1.610	1.183	1.288
10	2.320	1.650	1.349	1.454	1.555	1.656	1.838	1.209	3.750	4.461	2.337	1.846	1.569	1.774	1.309	1.896
11		1.589	1.698	2.371	2.398	1.870	2.381	1.784	4.312	5.625	2.986	2.405	1.548	2.002	1.356	2.234
12	8.100	3.919	1.687	1.836	2.324	2.306	2.639	1.944	4.203	7.538	3.633	2.638	1.601	2.169	1.511	2.720
13			1.707	2.577	2.151	2.463	1.946	1.514	5.477	7.182	4.545	3.765	2.122	2.302	2.130	3.517
14		5.752	2.111		7.302	5.696	3.922	2.254	10.003	8.825	9.055	7.216		2.726		5.670
15			2.354		3.042	13.714		1.282	7.502	13.293	11.858	1.970		1.901		5.924
16+			5.601		9.128				15.329	18.587	19.256					14.322
Average	1.165	1.032	1.079	1.053	0.996	1.088	1.135	0.900	2.992	3.404	1.441	1.490	1.062	1.295	1.036	1.116

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Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1989

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	AVERAGE WEIGHT
3					0.556		0.574	0.275					0.412			0.450		0.531
4		0.482	0.515	0.645	0.628	0.718	0.655	0.674	0.630	0.672		0.651	0.578	0.777	0.563	0.604	0.723	0.627
5	0.664	0.600	0.725	0.806	0.771	0.779	0.796	0.814	0.883	0.906		0.817	0.829	1.088	0.737	0.779	0.991	0.768
6	0.928	0.776	0.846	0.957	0.921	0.817	0.910	0.983	1.221	1.125	1.378	1.092	1.015	1.160	1.029	0.976	1.094	0.894
7	1.086	0.966	1.080	1.127	1.037	0.978	1.081	1.192	1.394	1.394	2.196	1.348	1.204	1.422	1.239	1.153	1.302	1.069
8	1.253	1.137	1.142	1.216	1.125	1.159	1.210	1.253	1.592	1.620	2.745	1.549	1.288	1.543	1.337	1.244	1.354	1.192
9	1.216	1.141	1.199	1.186	1.155	1.132	1.286	1.192	1.714	1.749	2.803	1.698	1.357	1.697	1.477	1.314	1.515	1.213
10	1.345	1.273	1.323	1.483	1.263	1.308	1.280	1.302	1.928	2.019	2.981	1.981	1.636	1.755	1.671	1.500	1.486	1.396
11	2.744	2.077	1.760	2.110	1.571	1.552	1.896	1.566	2.588	2.770	3.648	2.488	1.874	2.403	1.924	1.679	1.694	1.930
12	1.699	1.860	2.007	2.656	1.965	1.946	1.664	1.713	3.015	3.329	5.390	3.074	2.059	3.683	2.337	1.891	2.616	2.139
13		1.682	2.407	4.475	2.140	2.088	2.526	2.391	3.394	3.676	2.915	3.370	3.532	2.583	2.336	2.476	2.587	2.549
14		2.189	3.008			2.806	3.257	2.088	5.683	5.180	4.946	5.430		4.269		1.545		3.479
15		1.687	2.928	10.880					6.269	4.050	3.272	5.102	3.695	6.016				3.281
16+		2.133				2.223		2.133	6.234			6.306						2.721
Average	1.234	1.039	1.072	1.025	0.944	1.038	1.023	1.100	1.847	1.764	3.149	1.793	1.222	1.635	1.394	1.128	1.315	1.084

b) 4Vn (Nov.-Dec.) 1989

Age		OTB 4		SNU 7		LLS 13		LHP 16	AVERAGE WEIGHT
3		0.556		0.275					0.549
4		0.628		0.674		0.777		0.723	0.644
5		0.771		0.814		1.088		0.991	0.806
6		0.921		0.983		1.160		1.094	0.952
7		1.037		1.192		1.422		1.302	1.173
8		1.125		1.253		1.543		1.354	1.257
9		1.155		1.192		1.697		1.515	1.385
10		1.263		1.302		1.755		1.486	1.550
11		1.571		1.566		2.403		1.694	2.196
12		1.965		1.713		3.683		2.616	3.061
13		2.140		2.391		2.583		2.587	2.558
14				2.088		4.269			3.764
15						6.016			6.016
16+				2.133					2.133
Average		0.944		1.100		1.635		1.315	1.139

c) Total 4TVn (Nov.-Apr.) 1989

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	AVERAGE WEIGHT
3					0.556		0.574	0.275					0.412			0.450		0.533
4		0.482	0.515	0.645	0.628	0.718	0.655	0.674	0.630	0.672		0.651	0.578	0.777	0.563	0.604	0.723	0.628
5	0.664	0.600	0.725	0.806	0.771	0.779	0.796	0.814	0.883	0.906		0.817	0.829	1.088	0.737	0.779	0.991	0.769
6	0.928	0.776	0.846	0.957	0.921	0.817	0.910	0.983	1.221	1.125	1.378	1.092	1.015	1.160	1.029	0.976	1.094	0.896
7	1.086	0.966	1.080	1.127	1.037	0.978	1.081	1.192	1.394	1.394	2.196	1.348	1.204	1.422	1.239	1.153	1.302	1.072
8	1.253	1.137	1.142	1.216	1.125	1.159	1.210	1.253	1.592	1.620	2.745	1.549	1.288	1.543	1.337	1.244	1.354	1.194
9	1.216	1.141	1.199	1.186	1.155	1.132	1.286	1.192	1.714	1.749	2.803	1.698	1.357	1.697	1.477	1.314	1.515	1.217
10	1.345	1.273	1.323	1.483	1.263	1.308	1.280	1.302	1.928	2.019	2.981	1.981	1.636	1.755	1.671	1.500	1.486	1.401
11	2.744	2.077	1.760	2.110	1.571	1.552	1.896	1.566	2.588	2.770	3.648	2.488	1.874	2.403	1.924	1.679	1.694	1.941
12	1.699	1.860	2.007	2.656	1.965	1.946	1.664	1.713	3.015	3.329	5.390	3.074	2.059	3.683	2.337	1.891	2.616	2.155
13		1.682	2.407	4.475	2.140	2.088	2.526	2.391	3.394	3.676	2.915	3.370	3.532	2.583	2.336	2.476	2.587	2.549
14		2.189	3.008			2.806	3.257	2.088	5.683	5.180	4.946	5.430		4.269		1.545		3.486
15		1.687	2.928	10.880					6.269	4.050	3.272	5.102	3.695	6.016				3.414
16+		2.133				2.226		2.133	6.232			7.026						2.764
Average	1.234	1.039	1.072	1.025	0.944	1.038	1.023	1.100	1.847	1.764	3.149	1.794	1.222	1.635	1.394	1.128	1.315	1.086

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Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1990

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	AVERAGE WEIGHT
3			0.383	0.349	0.548	0.572	0.339	0.599	0.600	0.364	0.496			0.468			0.389	0.563
4	0.565	0.657	0.494	0.675	0.732	0.719	0.743	0.744	0.745	0.654	0.858	0.823	0.729	0.816	0.862	0.697	0.772	0.722
5	0.851	0.891	0.652	0.781	0.884	0.867	0.818	0.842	0.818	0.708	1.126	1.215	0.784	0.900	1.171	0.731	0.895	0.849
6	1.099	1.114	0.983	0.904	1.049	1.026	0.950	0.968	0.991	1.034	1.654	2.101	1.085	1.382	1.497	0.920	1.381	1.029
7	1.171	1.219	1.204	1.102	1.185	1.154	1.060	1.107	1.184	1.428	1.977	2.154	1.370	1.610	1.631	1.222	1.573	1.167
8	1.385	1.275	1.405	1.257	1.286	1.168	1.200	1.200	1.263	1.805	2.005	2.275	1.784	1.657	1.805	1.596	1.682	1.282
9	1.473	1.307	1.417	1.374	1.282	1.162	1.266	1.173	1.224	2.008	2.071	2.350	2.044	1.860	1.661	1.847	1.666	1.361
10	1.429	1.319	1.361	1.411	1.303	1.217	1.363	1.366	1.216	2.195	2.198	2.100	2.217	1.930	1.812	1.766	1.846	1.407
11	1.570	1.348	1.436	1.556	1.660	1.381	1.332	1.323	1.338	2.105	2.067	2.966	2.177	1.835	2.042	1.576	1.809	1.496
12		1.599	1.700	2.915	2.392	1.640	1.575	2.069	1.609	2.686	2.295	4.076	3.726	2.081	1.895	2.120	2.038	1.842
13		1.740	1.871	2.380	1.902	2.335	3.670	1.845	1.456	4.324	3.109	3.751	4.366	4.286	2.712		4.639	2.592
14		1.566	1.566	6.003			5.346		11.840	2.783	3.116	3.057	2.858	5.116	3.433		2.678	3.358
15							2.682		2.643	3.010	2.459		3.326	2.962			2.679	2.806
16+				7.241	12.934	2.089	1.566		4.612	3.711	2.986		4.336	12.210			2.818	8.038
Average	1.264	1.249	1.182	1.123	1.074	0.990	1.102	1.006	1.046	1.818	1.964	2.368	1.899	1.816	1.684	1.326	1.508	1.145

b) 4Vn (Nov.-Dec.) 1990

Age		OTB 5	SNU 8	LLS 14	AVERAGE WEIGHT
3		0.572	0.600		0.573
4		0.719	0.745	0.862	0.727
5		0.867	0.818	1.171	0.880
6		1.026	0.991	1.497	1.088
7		1.154	1.184	1.631	1.240
8		1.168	1.263	1.805	1.354
9		1.162	1.224	1.661	1.340
10		1.217	1.216	1.812	1.497
11		1.381	1.338	2.042	1.664
12		1.640	1.609	1.895	1.764
13		2.335	1.456	2.712	2.587
14			11.840	3.433	3.707
15			2.643		2.643
16+		2.089	4.612		2.258
Average		0.990	1.046	1.684	1.115

c) Total 4TVn (Nov.-Apr.) 1990

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	AVERAGE WEIGHT
3			0.383	0.349	0.548	0.572	0.339	0.599	0.600	0.364	0.496			0.466			0.389	0.564
4	0.565	0.657	0.494	0.675	0.732	0.719	0.743	0.744	0.745	0.654	0.858	0.823	0.729	0.816	0.862	0.697	0.772	0.722
5	0.851	0.891	0.652	0.781	0.884	0.867	0.818	0.842	0.818	0.708	1.126	1.215	0.784	0.900	1.171	0.731	0.895	0.851
6	1.099	1.114	0.983	0.904	1.049	1.026	0.950	0.968	0.991	1.034	1.654	2.101	1.085	1.362	1.497	0.920	1.381	1.031
7	1.171	1.219	1.204	1.102	1.185	1.154	1.060	1.107	1.184	1.428	1.977	2.154	1.370	1.610	1.631	1.222	1.573	1.170
8	1.385	1.275	1.405	1.257	1.286	1.168	1.200	1.200	1.263	1.805	2.005	2.275	1.784	1.657	1.805	1.596	1.662	1.285
9	1.473	1.307	1.417	1.374	1.282	1.162	1.266	1.173	1.224	2.008	2.071	2.350	2.044	1.860	1.661	1.847	1.666	1.360
10	1.429	1.319	1.361	1.411	1.303	1.217	1.363	1.366	1.216	2.195	2.198	2.100	2.217	1.930	1.812	1.766	1.846	1.410
11	1.570	1.348	1.436	1.556	1.660	1.381	1.332	1.323	1.338	2.105	2.067	2.966	2.177	1.835	2.042	1.576	1.809	1.500
12		1.599	1.700	2.915	2.392	1.640	1.575	2.069	1.609	2.686	2.295	4.076	3.726	2.081	1.895	2.120	2.038	1.839
13		1.740	1.871	2.380	1.902	2.335	3.670	1.845	1.456	4.324	3.109	3.751	4.366	4.286	2.712		4.639	2.592
14		1.566	1.566	6.003			5.346		11.840	2.783	3.116	3.057	2.858	5.116	3.433		2.678	3.364
15							2.682		2.643	3.010	2.459		3.326	2.962			2.679	2.805
16+				7.241	12.934	2.089	1.566		4.612	3.711	2.986		4.336	12.210			2.818	7.976
Average	1.264	1.249	1.182	1.123	1.074	0.990	1.102	1.006	1.046	1.818	1.964	2.368	1.899	1.816	1.684	1.326	1.508	1.144

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1991

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	AVERAGE WEIGHT	
3	0.260		0.265	0.265	0.449	0.578		0.328	0.615			0.498	0.578		0.477	0.549	0.450	0.519
4	0.481	0.624	0.500	0.611	0.703	0.649	0.650	0.531	0.686			0.690	0.721	0.646	0.652	0.713	0.572	0.646
5	1.044	0.882	0.729	0.823	0.865	0.830	0.802	0.771	0.866	1.034	0.956	0.991	0.854	0.853	0.971	0.765	0.851	
6	1.077	1.037	0.959	0.929	1.042	1.009	0.926	0.917	1.017	1.260	1.308	1.456	1.248	1.182	1.365	1.132	1.012	
7	1.266	1.249	1.139	1.104	1.162	1.170	1.117	1.115	1.170	1.722	1.823	1.703	1.870	1.663	1.550	1.579	1.219	
8	1.399	1.425	1.246	1.326	1.329	1.450	1.305	1.276	1.338	1.830	2.012	2.096	2.116	1.689	1.778	1.724	1.404	
9	1.494	1.592	1.249	1.419	1.740	1.390	1.445	1.370	1.243	1.993	2.351	2.102	2.435	2.006	1.756	1.887	1.513	
10	1.559	1.601	1.413	1.550	2.015	1.325	1.740	1.488	1.511	2.187	1.972	2.008	2.478	1.743	2.020	1.737	1.602	
11	1.567	1.508	1.460	1.574	1.803	1.517	1.692	1.166	1.467	2.394	2.293	2.064	2.448	1.964	1.752	1.952	1.634	
12	1.290	1.687	1.350	1.799	1.782	1.598	2.094	1.555	1.361	2.472	2.721	1.879	2.568	2.362	2.057	2.181	1.730	
13		2.386	1.590	1.950	3.651	2.318	2.669	3.554	2.177	2.939	2.271	2.013	2.252	2.086	1.755	1.945	2.210	
14		4.650		3.225	2.106	1.533	4.364		3.220	5.463	1.760	1.616	5.217	1.533	1.424		2.562	
15		2.023	1.533	5.562			5.811			5.635			3.438		2.714		3.086	
16+			1.804				6.440			5.539		2.178	5.400		2.688	8.948	3.914	
Average	1.293	1.182	1.024	1.104	0.970	0.967	1.097	0.860	1.003	1.961	1.697	1.601	2.149	1.200	1.396	0.940	1.100	

b) 4Vn (Nov.-Dec.) 1991

Age	OTB * 5	SNU 8	LLS 14	AVERAGE WEIGHT
3	0.581	0.615	0.549	0.581
4	0.650	0.686	0.713	0.656
5	0.830	0.866	0.971	0.843
6	1.002	1.017	1.365	1.043
7	1.160	1.170	1.550	1.211
8	1.443	1.338	1.778	1.494
9	1.383	1.243	1.756	1.460
10	1.316	1.511	2.020	1.554
11	1.516	1.467	1.752	1.611
12	1.598	1.361	2.057	1.774
13	2.320	2.177	1.755	1.973
14	1.533	3.220	1.424	1.538
15			2.714	2.714
16+			2.682	2.682
Average	0.938	1.003	1.396	0.994

c) Total 4TVn (Nov.-Apr.) 1991

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB * 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	AVERAGE WEIGHT	
3	0.260		0.265	0.265	0.449	0.581		0.328	0.615			0.498	0.578		0.477	0.549	0.450	0.526
4	0.481	0.624	0.500	0.611	0.703	0.650	0.650	0.531	0.686			0.690	0.721	0.646	0.652	0.713	0.572	0.647
5	1.044	0.882	0.729	0.823	0.865	0.830	0.802	0.771	0.866	1.034	0.956	0.991	0.854	0.853	0.971	0.765	0.850	
6	1.077	1.037	0.959	0.929	1.042	1.002	0.926	0.917	1.017	1.260	1.308	1.456	1.248	1.182	1.365	1.132	1.012	
7	1.266	1.249	1.139	1.104	1.162	1.160	1.117	1.115	1.170	1.722	1.823	1.703	1.870	1.663	1.550	1.579	1.217	
8	1.399	1.425	1.246	1.326	1.329	1.443	1.305	1.276	1.338	1.830	2.012	2.096	2.116	1.689	1.778	1.724	1.406	
9	1.494	1.592	1.249	1.419	1.740	1.383	1.445	1.370	1.243	1.993	2.351	2.102	2.435	2.006	1.756	1.887	1.511	
10	1.559	1.601	1.413	1.550	2.015	1.316	1.740	1.488	1.511	2.187	1.972	2.008	2.478	1.743	2.020	1.737	1.601	
11	1.567	1.508	1.460	1.574	1.803	1.516	1.692	1.166	1.467	2.394	2.293	2.064	2.448	1.964	1.752	1.952	1.633	
12	1.290	1.687	1.350	1.799	1.782	1.598	2.094	1.555	1.361	2.472	2.721	1.879	2.568	2.362	2.057	2.181	1.731	
13		2.386	1.590	1.950	3.651	2.320	2.669	3.554	2.177	2.939	2.271	2.013	2.252	2.086	1.755	1.945	2.202	
14		4.650		3.225	2.106	1.533	4.364		3.220	5.463	1.760	1.616	5.217	1.533	1.424		2.501	
15		2.023	1.533	5.562			5.811			5.635			3.438		2.714		3.082	
16+			1.804				6.440			5.539		2.178	5.400		2.688	8.948	3.799	
Average	1.293	1.182	1.024	1.104	0.970	0.960	1.097	0.860	1.003	1.961	1.697	1.601	2.149	1.200	1.396	0.940	1.095	

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Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1992

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	AVERAGE WEIGHT
3			0.410	0.351	0.601	0.581	0.269	0.467	0.476	0.466		0.577	0.667	0.463	0.477	0.540
4	0.612	0.621	0.690	0.597	0.652	0.684	0.573	0.618	0.696	0.705	0.733	0.523	0.670	0.483	0.587	0.650
5	0.972	0.769	0.782	0.747	0.807	0.838	0.748	0.776	0.853	1.200	1.226	0.791	0.913	0.734	0.821	0.812
6	1.066	1.033	1.130	0.942	0.977	1.006	0.942	0.941	1.095	1.481	1.865	1.184	1.181	1.083	0.969	1.003
7	1.217	1.272	1.354	1.153	1.169	1.182	1.108	1.087	1.208	1.847	2.191	1.576	1.522	1.412	1.190	1.216
8	1.563	1.546	1.477	1.394	1.378	1.275	1.210	1.246	1.280	2.182	2.312	1.779	1.727	1.566	1.269	1.455
9	1.621	1.597	1.546	1.529	1.647	1.443	1.403	1.280	1.585	2.546	2.691	2.178	1.887	1.679	1.246	1.610
10	1.963	1.908	1.644	1.617	2.021	1.524	1.555	1.479	1.669	3.416	3.359	2.212	2.959	1.901		1.854
11	1.925	1.824	2.101	1.730	1.920	1.457	1.714	1.274	1.228	3.103	2.485	3.060	2.172	1.975	1.759	1.884
12	1.869	1.693	1.692	1.967	1.929	1.699	1.695	1.908	1.786	3.416	2.525	2.688	1.937	1.948	1.408	1.909
13		1.812	1.525	2.151	1.817	2.084	1.774	1.495	2.442	7.966	2.864	2.692	1.847	2.261		2.273
14				4.121		9.693	3.447			8.559		4.546				5.439
15		4.135		3.655		3.756	2.520			11.768						6.677
16+										13.431		5.519				9.883
Average	1.318	1.203	0.999	1.045	0.944	0.915	1.000	0.914	1.005	2.486	2.334	1.396	1.244	0.943	0.802	1.062

b) 4Vn (Nov.-Dec.) 1992

Age	OTB 5	SNU 8	LLS 12	LHP 14	AVERAGE WEIGHT
3	0.581	0.476	0.667	0.477	0.585
4	0.684	0.696	0.670	0.587	0.684
5	0.838	0.853	0.913	0.821	0.843
6	1.006	1.095	1.181	0.969	1.026
7	1.182	1.208	1.522	1.190	1.228
8	1.275	1.280	1.727	1.269	1.350
9	1.443	1.585	1.887	1.246	1.568
10	1.524	1.669	2.959		1.726
11	1.457	1.228	2.172	1.759	1.638
12	1.699	1.786	1.937	1.408	1.793
13	2.084	2.442	1.847		1.980
14	9.693				9.693
15	3.756				3.756
16+					
Average	0.915	1.005	1.244	0.802	0.949

c) Total 4TVn (Nov.-Apr.) 1992

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	AVERAGE WEIGHT
3			0.410	0.351	0.601	0.581	0.269	0.467	0.476	0.466		0.577	0.667	0.463	0.477	0.547
4	0.612	0.621	0.690	0.597	0.652	0.684	0.573	0.618	0.696	0.705	0.733	0.523	0.670	0.483	0.587	0.654
5	0.972	0.769	0.782	0.747	0.807	0.838	0.748	0.776	0.853	1.200	1.226	0.791	0.913	0.734	0.821	0.814
6	1.066	1.033	1.130	0.942	0.977	1.006	0.942	0.941	1.095	1.481	1.865	1.184	1.181	1.083	0.969	1.004
7	1.217	1.272	1.354	1.153	1.169	1.182	1.108	1.087	1.208	1.847	2.191	1.576	1.522	1.412	1.190	1.217
8	1.563	1.546	1.477	1.394	1.378	1.275	1.210	1.246	1.280	2.182	2.312	1.779	1.727	1.566	1.269	1.451
9	1.621	1.597	1.546	1.529	1.647	1.443	1.403	1.280	1.585	2.546	2.691	2.178	1.887	1.679	1.246	1.608
10	1.963	1.908	1.644	1.617	2.021	1.524	1.555	1.479	1.669	3.416	3.359	2.212	2.959	1.901		1.850
11	1.925	1.824	2.101	1.730	1.920	1.457	1.714	1.274	1.228	3.103	2.485	3.060	2.172	1.975	1.759	1.877
12	1.869	1.693	1.692	1.967	1.929	1.699	1.695	1.908	1.786	3.416	2.525	2.688	1.937	1.948	1.408	1.907
13		1.812	1.525	2.151	1.817	2.084	1.774	1.495	2.442	7.966	2.864	2.692	1.847	2.261		2.267
14				4.121		9.693	3.447			8.559		4.546				5.520
15		4.135		3.655		3.756	2.520			11.768						6.575
16+										13.431		5.519				9.883
Average	1.318	1.203	0.999	1.045	0.944	0.915	1.000	0.914	1.005	2.486	2.334	1.396	1.244	0.943	0.802	1.055

Table 3: Cont'd

a) 4TVn (Jan.-Apr.) 1993

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	GNS 7	LLS 8	LLS 9	LLS 10	LHP 11	AVERAGE WEIGHT
3	0.343		0.498		0.543			0.439	0.429	0.512	0.382	0.406
4	0.416		0.630		0.659	0.492		0.573	0.605	0.668	0.510	0.556
5	0.700	0.743	0.776	0.896	0.796	0.745	0.941	0.706	0.747	0.772	0.604	0.698
6	1.026	0.903	0.967	1.116	0.991	1.131	1.354	1.024	1.051	1.050	0.886	1.000
7	1.331	1.114	1.118	1.530	1.141	1.857	1.944	1.303	1.439	1.468	1.394	1.398
8	1.588	1.415	1.467	1.845	1.462	2.286	2.255	1.367	1.701	1.945	1.594	1.818
9	1.660	1.487	1.522	2.502	1.491	2.938	2.350	1.385	1.698	1.787	1.736	1.934
10	1.530	1.676	1.654	2.593	1.530	4.921	3.303	1.432	1.808	1.824	1.732	2.223
11	1.627	1.776	1.546	2.498	1.737	4.371	3.307	1.481	1.907	2.504	2.131	2.308
12	1.705	2.461	1.954	2.942	1.969	3.744	2.930	1.427	2.018	1.871	1.866	2.116
13	1.495	7.742	1.587	8.874	1.589	3.212	3.035	1.368	1.871	2.217	1.784	2.066
14		3.717	1.763	3.271	1.763	5.385	3.433		3.583	2.964	1.874	2.986
15			1.355	8.563	1.344	12.187	8.885	2.058	2.177	2.248	2.058	5.762
16+				17.051		13.375	12.996					13.190
Average	1.301	1.004	0.999	1.601	1.034	2.338	2.287	0.923	1.103	1.197	0.811	1.221

b) 4Vn (Nov.-Dec.) 1993

Age	OTB 3	SNU 5	LLS 10	LHP 11	AVERAGE WEIGHT
3	0.498	0.543	0.512	0.382	0.496
4	0.630	0.659	0.668	0.510	0.660
5	0.776	0.796	0.772	0.604	0.769
6	0.967	0.991	1.050	0.886	1.040
7	1.118	1.141	1.468	1.394	1.427
8	1.467	1.462	1.945	1.594	1.902
9	1.522	1.491	1.787	1.736	1.774
10	1.654	1.530	1.824	1.732	1.809
11	1.546	1.737	2.504	2.131	2.482
12	1.954	1.969	1.871	1.866	1.872
13	1.587	1.589	2.217	1.784	2.201
14	1.763	1.763	2.964	1.874	2.847
15	1.355	1.344	2.248	2.058	2.087
16+					
Average	0.999	1.034	1.197	0.811	1.174

c) Total 4TVn (Nov.-Apr.) 1993

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	GNS 7	LLS 8	LLS 9	LLS 10	LHP 11	AVERAGE WEIGHT
3	0.343		0.498		0.543			0.439	0.429	0.512	0.382	0.406
4	0.416		0.630		0.659	0.492		0.573	0.605	0.668	0.510	0.557
5	0.700	0.743	0.776	0.896	0.796	0.745	0.941	0.706	0.747	0.772	0.604	0.699
6	1.026	0.903	0.967	1.116	0.991	1.131	1.354	1.024	1.051	1.050	0.886	1.000
7	1.331	1.114	1.118	1.530	1.141	1.857	1.944	1.303	1.439	1.468	1.394	1.398
8	1.588	1.415	1.467	1.845	1.462	2.286	2.255	1.367	1.701	1.945	1.594	1.819
9	1.660	1.487	1.522	2.502	1.491	2.938	2.350	1.385	1.698	1.787	1.736	1.932
10	1.530	1.676	1.654	2.593	1.530	4.921	3.303	1.432	1.808	1.824	1.732	2.218
11	1.627	1.776	1.546	2.498	1.737	4.371	3.307	1.481	1.907	2.504	2.131	2.310
12	1.705	2.461	1.954	2.942	1.969	3.744	2.930	1.427	2.018	1.871	1.866	2.113
13	1.495	7.742	1.587	8.874	1.589	3.212	3.035	1.368	1.871	2.217	1.784	2.067
14		3.717	1.763	3.271	1.763	5.385	3.433		3.583	2.964	1.874	2.984
15			1.355	8.563	1.344	12.187	8.885	2.058	2.177	2.248	2.058	5.731
16+				17.051		13.375	12.996					13.190
Average	1.301	1.004	0.999	1.601	1.034	2.338	2.287	0.923	1.103	1.197	0.811	1.221

Table 3: Cont'd

c) Total 4TVn (Nov.-Apr.) 1994

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LHP 10	LRR 11	SENT 12	AVERAGE WEIGHT
3	0.263	0.349	0.362	0.654	0.342	0.627	0.411	0.398	0.462	0.509	0.384	0.329	0.358
4	0.561	0.507	0.518	0.737	0.529	0.694	0.641	0.649	0.604	0.659	0.572	0.501	0.572
5	0.619	0.737	0.723	0.876	0.828	0.818	0.940	0.878	0.829	0.847	0.772	0.712	0.789
6	0.930	0.877	0.942	1.044	1.092	0.984	1.172	1.528	1.083	1.038	0.986	0.916	1.039
7	1.194	1.234	1.304	1.433	1.604	1.504	1.460	2.173	1.537	1.433	1.417	1.175	1.449
8	1.434	1.581	1.558	1.751	2.012	1.906	1.580	2.464	1.796	1.637	1.653	1.404	1.848
9	2.168	1.886	1.611	1.940	2.381	2.109	1.849	2.769	1.965	1.797	2.027	1.443	2.233
10	2.426	2.237	1.702	1.884	2.907	2.080	1.789	2.494	2.139	1.695	1.956	1.368	2.162
11	2.226	2.413	1.710	1.914	3.240	2.452	2.016	3.227	2.042	1.810	2.255	1.827	2.468
12	1.803	1.967	2.470	1.992	3.111	2.721	2.316	2.554	2.516	2.260	2.485		2.400
13	1.684	2.204	1.942	2.026	2.741	2.115	1.889	2.791	2.005	2.061	1.990		2.025
14		5.088	2.042	2.105	3.759	2.226	1.776	2.426	2.145	1.954	2.018	2.425	2.294
15		1.916			2.451								2.379
16+		17.064			13.172								13.518
Total	1.151	1.171	1.044	1.370	1.783	1.395	1.425	2.162	1.406	1.321	1.247	0.758	1.382

c) Total 4TVn (Nov.-Apr.) 1995

Age	OTB 1	SNU 2	SNU 3	SNU 4	GNS 5	LLS 6	SENT 7	SENT 8	AVERAGE WEIGHT
3				0.756	0.341	0.616	0.216	0.242	0.248
4	0.763		0.531	0.635	0.553	0.741	0.411	0.490	0.497
5	1.111	0.867	0.871	0.723	0.823	0.924	0.525	0.674	0.672
6	1.316	1.072	1.042	0.846	1.220	1.265	0.734	0.857	0.897
7	1.534	1.162	1.254	0.980	2.030	1.679	0.863	1.106	1.164
8	1.825	1.511	1.608	1.157	2.367	1.903	1.039	1.348	1.477
9	1.926	2.026	2.100	1.269	3.231	2.342	1.352	1.742	2.094
10	2.287	2.204	3.277	1.788	3.528	2.578	1.606	2.216	2.503
11		2.189	2.634	2.490	4.142	2.902	1.195	2.415	2.948
12		2.647	1.848	3.276	5.888	2.433		2.551	3.347
13		2.798	2.573	2.083	6.219	3.702		3.595	4.800
14		2.573	2.222	2.805	8.630	3.552		3.383	4.835
15		2.959				5.702		8.084	4.178
16+				12.799	10.103				10.176
Total	1.575	1.519	1.374	0.873	2.739	1.928	0.740	0.843	1.073

Table 4: Length at age (centimeters) of the southern Gulf of St. Lawrence cod stock, by area, of each key used, 1971 to 1995. Age key and number correspond to Table 1.

a) 4TVn (Jan.-Apr.) 1971

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LLS 6	MISC 7	AVERAGE LENGTH
3						43.00	43.00	43.00
4	43.93	44.35	43.60	43.45	47.56	45.51	44.12	43.95
5	49.20	48.23	47.68	47.50	51.34	51.65	48.80	48.47
6	52.57	51.04	51.66	51.29	55.95	57.83	52.23	52.12
7	59.08	57.97	57.34	57.08	71.03	63.47	57.70	59.55
8	65.19	63.22	62.41	65.96	81.84	71.94	69.82	70.20
9	65.28	60.70	60.80	70.33	84.61	73.92	74.68	70.34
10	76.87	71.07	78.20	72.50	85.23	75.85	73.04	79.09
11	82.12	77.68	87.58	84.97	88.38	71.74	83.85	83.36
12	76.33	71.82	78.28	77.85	78.50	78.11	85.96	77.37
13	87.17	88.12	96.65	82.07	73.00	73.00	73.00	86.97
14	91.53	87.39	97.08	73.55	92.04	70.26	83.98	87.99
15	87.21	83.32	102.26	91.01	90.80	90.35	95.30	90.66
16+	104.68	98.28	123.27	85.00	109.00	127.00	130.40	117.42
Average	56.01	52.34	52.56	49.84	79.23	63.64	51.42	55.63

b) 4Vn (Nov.-Dec.) 1971

Age	OTB 3	SNU 4	LLS 6	MISC 7	AVERAGE LENGTH
3			43.00	43.00	43.00
4	43.60	43.45	45.51	44.12	43.87
5	47.88	47.50	51.65	48.80	48.23
6	51.66	51.29	57.83	52.23	52.88
7	57.34	57.08	83.47	57.70	59.92
8	62.41	65.96	71.94	69.82	67.65
9	60.80	70.33	73.92	74.88	67.90
10	78.20	72.50	75.85	73.04	76.60
11	87.58	84.97	71.74	83.85	81.84
12	78.28	77.85	78.11	85.96	78.24
13	96.65	82.07	73.00	73.00	90.87
14	97.08	73.55	70.26	83.98	80.48
15	102.26	91.01	90.35	95.30	97.97
16+	123.27	85.00	127.00	130.40	124.75
Average	52.56	49.84	83.84	51.42	55.47

c) Total 4TVn (Nov.-Apr.) 1971

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LLS 6	MISC 7	AVERAGE LENGTH
3						43.00	43.00	43.00
4	43.93	44.35	43.60	43.45	47.56	45.51	44.12	43.95
5	49.20	48.23	47.68	47.50	51.34	51.65	48.80	48.46
6	52.57	51.04	51.66	51.29	55.95	57.83	52.23	52.14
7	59.08	57.97	57.34	57.08	71.03	63.47	57.70	59.56
8	65.19	63.22	62.41	65.96	81.84	71.94	69.82	70.14
9	65.28	60.70	60.80	70.33	84.61	73.92	74.68	70.29
10	76.87	71.07	78.20	72.50	85.23	75.85	73.04	79.04
11	82.12	77.68	87.58	84.97	88.38	71.74	83.85	83.34
12	76.33	71.82	78.28	77.85	78.50	78.11	85.96	77.40
13	87.17	88.12	96.65	82.07	73.00	73.00	73.00	87.07
14	91.53	87.39	97.08	73.55	92.04	70.26	83.98	87.80
15	87.21	83.32	102.26	91.01	90.80	90.35	95.30	90.81
16+	104.68	98.28	123.27	85.00	109.00	127.00	130.40	117.83
Average	56.01	52.34	52.56	49.84	79.23	63.64	51.42	55.82

a) 4TVn (Jan.-Apr.) 1972

Age	OTB 1	OTB 2	OTB 3	SNU 4	GN+LL 5	MISC 6	MISC 7	AVERAGE LENGTH
3	33.32	33.36	38.22	41.73	42.13	31.95	40.09	33.39
4	38.59	38.16	42.18	42.95	42.56	37.86	43.10	38.66
5	44.57	45.80	46.67	46.54	48.01	46.58	48.14	45.41
6	50.65	51.46	52.24	51.68	54.22	51.90	53.01	51.31
7	52.44	53.16	53.78	53.72	61.33	54.10	56.50	53.23
8	59.42	60.25	58.79	59.69	78.53	61.03	60.91	62.09
9	67.65	72.83	65.91	68.70	85.39	72.91	65.02	76.61
10	71.82	76.03	74.54	81.57	90.19	77.05	73.10	81.88
11	76.66	82.36	79.63	75.21	90.46	79.49	74.83	88.18
12	84.59	83.43	72.59	74.11	96.74	80.50	68.54	90.99
13	82.95	94.18	94.35	97.54	93.97	81.91		93.28
14	85.71	82.00			112.00			98.06
15	73.32	74.24	72.24	70.00	91.47	75.16		80.23
16+		89.86	85.47		107.08	88.94		97.23
Average	43.85	44.46	50.24	49.36	78.54	45.59	50.07	46.14

b) 4Vn (Nov.-Dec.) 1972

Age	OTB 3	SNU 4	GN+LL 5	MISC 7	AVERAGE LENGTH
3	38.22	41.73	42.13	40.09	38.53
4	42.18	42.95	42.56	43.10	42.22
5	46.67	46.54	48.01	48.14	46.74
6	52.24	51.68	54.22	53.01	52.36
7	53.78	53.72	61.33	56.50	54.45
8	58.79	59.69	78.53	60.91	65.40
9	65.91	68.70	85.39	65.02	80.58
10	74.54	81.57	90.19	73.10	87.81
11	79.63	75.21	90.46	74.83	89.94
12	72.59	74.11	96.74	68.54	93.34
13	94.35	97.54	93.97		94.01
14			112.00		112.00
15	72.24	70.00	91.47		88.28
16+	85.47		107.08		99.08
Average	50.24	49.36	78.54	50.07	55.17

c) Total 4TVn (Nov.-Apr.) 1972

Age	OTB 1	OTB 2	OTB 3	SNU 4	GN+LL 5	MISC 6	MISC 7	AVERAGE LENGTH
3	33.32	33.36	38.22	41.73	42.13	31.95	40.09	33.40
4	38.59	38.16	42.18	42.95	42.56	37.86	43.10	38.68
5	44.57	45.80	46.67	46.54	48.01	46.58	48.14	45.43
6	50.65	51.46	52.24	51.68	54.22	51.90	53.01	51.33
7	52.44	53.16	53.78	53.72	61.33	54.10	56.50	53.25
8	59.42	60.25	58.79	59.69	78.53	61.03	60.91	62.17
9	67.65	72.83	65.91	68.70	85.39	72.91	65.02	76.75
10	71.82	76.03	74.54	81.57	90.19	77.05	73.10	82.09
11	76.66	82.36	79.63	75.21	90.46	79.49	74.83	88.27
12	84.59	83.43	72.59	74.11	96.74	80.50	68.54	91.10
13	82.95	94.18	94.35	97.54	93.97	81.91		93.30
14	85.71	82.00			112.00			98.50
15	73.32	74.24	72.24	70.00	91.47	75.16		80.46
16+		89.86	85.47		107.08	88.94		97.32
Average	43.85	44.46	50.24	49.36	78.54	45.59	50.07	46.26

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1973

Age	OTB 1	OTB 2	SNU 3	GNS 4	LLS 5	MISC 6	MISC 7	AVERAGE LENGTH
3	31.92	37.76	38.96		40.00		38.57	36.45
4	39.19	43.68	43.34	46.00	46.00	42.46	45.81	41.27
5	45.07	47.56	46.60	53.21	48.66	46.89	50.51	45.84
6	49.51	52.51	52.41	60.93	57.88	52.81	56.54	50.85
7	53.61	55.94	56.30	66.08	61.76	57.50	59.47	55.38
8	57.61	58.80	59.48	74.97	68.83	62.73	61.71	60.67
9	62.63	63.01	65.08	80.69	74.43	67.40	65.28	69.33
10	69.79	75.31	76.76	87.95	79.36	78.43	73.48	80.22
11	71.45	71.98	75.61	92.32	88.01	82.55	91.47	81.51
12	71.02	85.96	73.37	99.96	97.93	95.86	99.81	89.60
13	79.38	81.14	81.88	108.97	88.44	77.51		82.57
14	81.97	82.18	77.75	93.65	93.20	83.52		84.96
15		80.59	76.00	100.14	87.98			93.96
16+	70.00	89.04	70.00	97.00	98.99			81.40
Average	47.06	49.23	48.16	80.03	68.55	54.28	52.81	49.62

b) 4Vn (Nov.-Dec.) 1973

Age	OTB 2	SNU 3	GNS 4	LLS 5	MISC 7	AVERAGE LENGTH
3	37.76	38.96		40.00	38.57	37.90
4	43.68	43.34	46.00	46.00	45.81	43.68
5	47.56	46.60	53.21	48.66	50.51	47.56
6	52.51	52.41	60.93	57.88	56.54	53.35
7	55.94	56.30	66.08	61.76	59.47	58.52
8	58.80	59.48	74.97	68.83	61.71	63.32
9	63.01	65.08	80.69	74.43	65.28	71.52
10	75.31	76.76	87.95	79.36	73.48	79.72
11	71.98	75.61	92.32	88.01	91.47	84.27
12	85.96	73.37	99.96	97.93	99.81	95.37
13	81.14	81.88	108.97	88.44		83.99
14	82.18	77.75	93.65	93.20		87.56
15	80.59	76.00	100.14	87.98		88.78
16+	89.04	70.00	97.00	98.99		92.11
Average	49.23	48.16	80.03	68.55	52.81	53.73

c) Total 4TVn (Nov.-Apr.) 1973

Age	OTB 1	OTB 2	SNU 3	GNS 4	LLS 5	MISC 6	MISC 7	UNS	AVERAGE LENGTH
3	31.92	37.76	38.96		40.00		38.57		36.50
4	39.19	43.68	43.34	46.00	46.00	42.46	45.81		41.31
5	45.07	47.56	46.60	53.21	48.66	46.89	50.51		45.86
6	49.51	52.51	52.41	60.93	57.88	52.81	56.54		50.90
7	53.61	55.94	56.30	66.08	61.76	57.50	59.47		55.45
8	57.61	58.80	59.48	74.97	68.83	62.73	61.71		60.73
9	62.63	63.01	65.08	80.69	74.43	67.40	65.28		69.41
10	69.79	75.31	76.76	87.95	79.36	78.43	73.48		80.20
11	71.45	71.98	75.61	92.32	88.01	82.55	91.47		81.60
12	71.02	85.96	73.37	99.96	97.93	95.86	99.81		89.79
13	79.38	81.14	81.88	108.97	88.44	77.51			82.60
14	81.97	82.18	77.75	93.65	93.20	83.52			85.02
15		80.59	76.00	100.14	87.98				93.71
16+	70.00	89.04	70.00	97.00	98.99				81.70
Average	47.06	49.23	48.16	80.03	68.55	54.28	52.81		49.70

a) 4TVn (Jan.-Apr.) 1974

Age	OTB 1	OTB 2	SNU 3	GNS 4	MISC 5	MISC 6	AVERAGE LENGTH
3	32.96	40.15	38.81	41.45	36.29	40.15	39.72
4	40.05	44.54	42.93	45.68	41.85	45.72	43.01
5	46.28	50.81	51.03	53.63	48.78	52.28	47.98
6	52.86	55.09	55.29	58.28	53.99	56.32	53.36
7	57.63	58.18	58.11	63.84	56.93	60.05	58.21
8	61.44	66.49	66.05	70.07	65.45	67.76	64.28
9	62.51	66.93	66.66	72.29	66.37	70.02	65.32
10	66.71	67.79	68.04	81.73	71.24	81.52	72.77
11	77.29	65.93	66.02	92.92	83.15	94.07	82.70
12	80.72	78.65	78.54	93.68	83.84	98.31	87.66
13	81.25	106.00		96.43		105.00	91.51
14	78.66			101.11			84.05
15	100.00			95.92			96.60
16+	113.34			91.17			101.60
Average	53.00	48.93	46.12	72.79	51.13	51.77	52.68

b) 4Vn (Nov.-Dec.) 1974

Age	OTB 2	SNU 3	GNS * 4	MISC 6	AVERAGE LENGTH
3	40.15	38.81	39.59	40.15	40.05
4	44.54	42.93	45.29	45.72	44.68
5	50.81	51.03	52.57	52.28	51.43
6	55.09	55.29	57.50	56.32	56.12
7	58.18	58.11	63.00	60.05	59.89
8	66.49	66.05	69.31	67.76	67.56
9	66.93	66.66	71.36	70.02	69.98
10	67.79	68.04	70.97	81.52	68.20
11	65.93	66.02	92.81	94.07	100.49
12	78.65	78.54	92.18	98.31	86.36
13	106.00		96.74	105.00	95.74
14			99.73		99.73
15					
16+			97.52		97.52
Average	48.93	46.12	54.99	51.77	50.66

c) Total 4TVn (Nov.-Apr.) 1974

Age	OTB 1	OTB 2	SNU 3	GNS * 4	MISC 5	MISC 6	AVERAGE LENGTH
3	32.96	40.15	38.81	39.59	36.29	40.15	39.16
4	40.05	44.54	42.93	45.29	41.85	45.72	43.14
5	46.28	50.81	51.03	52.57	48.78	52.28	48.14
6	52.86	55.09	55.29	57.50	53.99	56.32	53.42
7	57.63	58.18	58.11	63.00	56.93	60.05	58.22
8	61.44	66.49	66.05	69.31	65.45	67.76	64.23
9	62.51	66.93	66.66	71.36	66.37	70.02	65.30
10	66.71	67.79	68.04	70.97	71.24	81.52	68.69
11	77.29	65.93	66.02	92.81	83.15	94.07	82.22
12	80.72	78.65	78.54	92.18	83.84	98.31	86.86
13	81.25	106.00		96.74		105.00	91.45
14	78.66			99.73			85.43
15	100.00			98.47			98.73
16+	113.34			97.52			104.55
Average	52.90	48.93	46.12	67.31	51.13	51.77	52.36

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1975								
Age	OTB 1	OTB 2	SNU 3	GNS 4	LHP 5	MISC 6	MISC 7	AVERAGE LENGTH
3	34.72	39.31	38.29		37.00		38.89	36.00
4	39.14	44.67	43.57	47.27	43.63	44.55	43.71	41.40
5	45.42	49.41	48.88	55.44	48.96	49.49	50.60	48.06
6	53.97	55.64	55.06	61.92	59.85	56.93	60.13	55.57
7	60.14	60.54	58.16	65.60	64.72	60.93	61.59	61.23
8	63.28	61.49	59.61	68.68	68.80	63.19	65.57	64.33
9	66.63	65.06	63.02	71.34	70.43	65.93	72.36	67.75
10	67.48	70.61	67.08	73.61	72.97	70.16	74.86	70.72
11	66.63	71.47	66.40	82.49	78.15	74.82	79.89	74.13
12	78.01	87.46	72.42	91.35	82.77	81.16	97.53	86.53
13	84.87	98.67		101.68	99.08	94.64	102.87	96.31
14	92.17	78.92	72.08	83.60	85.02	76.11		83.74
15	91.05							91.05
16+	103.26	80.20	69.59	79.43	81.35	70.79		80.93
Average	46.66	51.73	46.35	71.77	62.60	54.72	49.54	50.86

b) 4Vn (Nov.-Dec.) 1975					
Age	OTB 2	SNU 3	GNS 4	LHP 5	AVERAGE LENGTH
3	39.31	38.29		37.00	39.04
4	44.67	43.57	47.27	43.63	44.60
5	49.41	48.88	55.44	48.96	49.38
6	55.64	55.06	61.92	59.85	55.91
7	60.54	58.16	65.60	64.72	61.03
8	61.49	59.61	68.68	68.80	62.90
9	65.06	63.02	71.34	70.43	66.44
10	70.61	67.08	73.61	72.97	71.43
11	71.47	66.40	82.49	78.15	73.62
12	87.46	72.42	91.35	82.77	85.27
13	98.67		101.68	99.08	98.89
14	78.92	72.08	83.60	85.02	81.51
15					
16+	80.20	69.59	79.43	81.35	80.44
Average	51.73	46.35	71.77	62.60	52.50

c) Total 4TVn (Nov.-Apr.) 1975								
Age	OTB 1	OTB 2	SNU 3	GNS 4	LHP 5	MISC 6	MISC 7	AVERAGE LENGTH
3	34.72	39.31	38.29		37.00		38.89	36.02
4	39.14	44.67	43.57	47.27	43.63	44.55	43.71	41.45
5	45.42	49.41	48.88	55.44	48.96	49.49	50.60	48.09
6	53.97	55.64	55.06	61.92	59.85	56.93	60.13	55.58
7	60.14	60.54	58.16	65.60	64.72	60.93	61.59	61.22
8	63.28	61.49	59.61	68.68	68.80	63.19	65.57	64.30
9	66.63	65.06	63.02	71.34	70.43	65.93	72.36	67.73
10	67.48	70.61	67.08	73.61	72.97	70.16	74.86	70.73
11	66.63	71.47	66.40	82.49	78.15	74.82	79.89	74.13
12	78.01	87.46	72.42	91.35	82.77	81.16	97.53	86.52
13	84.87	98.67		101.68	99.08	94.64	102.87	96.33
14	92.17	78.92	72.08	83.60	85.02	76.11		83.70
15	91.05							91.05
16+	103.26	80.20	69.59	79.43	81.35	70.79		80.93
Average	46.66	51.72	46.35	71.77	62.60	54.72	49.54	50.89

a) 4TVn (Jan.-Apr.) 1976										
Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	AVERAGE LENGTH
3	36.02	34.30	36.60	37.92	38.73	38.86	37.24	34.48	38.07	34.90
4	41.26	42.74	42.39	43.64	44.61	44.41	43.65	42.38	43.79	42.54
5	46.77	49.25	49.32	50.33	53.37	50.98	50.98	49.21	50.51	47.89
6	52.28	55.98	55.36	56.55	61.70	55.90	58.76	55.76	56.71	53.39
7	57.08	61.25	58.99	60.80	68.36	63.58	66.95	60.57	63.06	59.80
8	62.41	66.33	66.56	66.39	71.34	63.56	66.94	66.25	66.68	65.33
9	63.41	69.02	64.44	66.42	73.85		69.83	68.65	68.50	67.80
10	70.58	68.00	70.34	73.62	76.01		74.11	68.64	72.18	71.87
11	76.35	71.44	68.05	69.46	82.08		79.00		73.96	76.67
12	74.17	75.34	76.61	67.46	80.35		76.64		76.49	77.79
13	76.38	76.50			91.13		73.00			82.70
14	87.14	106.59			103.82		99.97			98.98
15	104.83	82.00			106.17					103.35
16+	113.59	103.38			118.24		127.00			111.01
Average	50.45	49.68	49.02	49.07	67.26	50.23	52.51	48.92	49.42	51.22

b) 4Vn (Nov.-Dec.) 1976						
Age	OTB *	SNU 4	GNS 5	LLS 6	LHP 7	AVERAGE LENGTH
3	35.81	37.92	38.73	38.86	37.24	36.01
4	43.89	43.64	44.61	44.41	43.65	43.90
5	50.22	50.33	53.37	50.98	50.98	50.25
6	56.82	56.55	61.70	55.90	58.76	56.81
7	61.84	60.80	68.36	63.58	66.95	
8	66.26	66.39	71.34	63.56	66.94	66
9	68.93	66.42	73.85		69.83	68.96
10	67.35	73.62	76.01		74.11	67.53
11	70.85	69.46	82.08		79.00	70.97
12	76.20	67.46	80.35		76.64	76.28
13	76.38		91.13		73.00	76.65
14	92.80		103.82		99.97	92.91
15	80.50		106.17			80.67
16+	104.21		118.24		127.00	103.71
Average	51.47	49.07	67.26	50.23	52.51	51.43

c) Total 4TVn (Nov.-Apr.) 1976										
Age	OTB 1	OTB *	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	AVERAGE LENGTH
3	36.02	35.81	36.60	37.92	38.73	38.86	37.24	34.48	38.07	36.09
4	41.26	43.89	42.39	43.64	44.61	44.41	43.65	42.38	43.79	43.22
5	46.77	50.22	49.32	50.33	53.37	50.98	50.98	49.21	50.51	48.36
6	52.28	56.82	55.36	56.55	61.70	55.90	58.76	55.76	56.71	53.69
7	57.08	61.84	58.99	60.80	68.36	63.58	66.95	60.57	63.06	60.03
8	62.41	66.26	66.56	66.39	71.34	63.56	66.94	66.25	66.68	65.40
9	63.41	68.93	64.44	66.42	73.85		69.83	68.65	68.50	67.87
10	70.58	67.35	70.34	73.62	76.01		74.11	68.64	72.18	71.31
11	76.35	70.85	68.05	69.46	82.08		79.00		73.96	76.08
12	74.17	76.20	76.61	67.46	80.35		76.64		76.49	77.90
13	76.38	76.38			91.13		73.00			82.40
14	87.14	92.80			103.82		99.97			97.09
15	104.83	80.50			106.17					99.43
16+	113.59	104.21			118.24		127.00			112.14
Average	50.45	50.85	49.02	49.07	67.26	50.23	52.51	48.92	49.42	51.44

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1977

Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE LENGTH
3		39.13	39.12	38.34	37.08	36.90	37.71	37.26	38.35	39.39	38.46
4	44.73	43.21	42.13	42.32	44.33	43.57	43.90	42.82	42.51	43.50	43.11
5	49.72	50.54	49.60	51.83	56.10	50.47	51.97	49.54	51.71	51.79	50.75
6	53.44	56.66	55.75	57.79	62.84	57.73	59.25	56.50	57.71	57.92	57.22
7	59.78	61.14	59.40	62.13	66.84	61.09	63.36	60.71	61.70	63.30	62.98
8	69.33	69.57	62.58	67.33	72.98	69.15	72.39	65.44	68.07	70.84	70.92
9	74.42	72.63	73.62	70.46	76.91	81.76	77.78	72.31	73.38	73.17	75.55
10	72.36	68.34	75.56	69.88	78.49		78.19	69.91	72.13	77.76	75.20
11	74.44	75.07	66.32	73.98	82.80		81.45	72.35	75.63	88.94	79.43
12	81.00	75.53	77.66	76.11	86.08		85.00	78.41			81.57
13	85.16	92.82		77.85	85.94		79.00			90.75	87.13
14		104.30			94.48						96.27
15	111.74	97.00			106.00						102.94
16+	102.11	80.73			119.50						92.76
Average	51.92	51.77	49.69	48.24	68.21	48.10	52.04	53.24	48.57	50.38	53.30

b) 4Vn (Nov.-Dec.) 1977

Age	OTB * 2	SNU 4	LLS 6	LHP 7	MISC 10	AVERAGE LENGTH
3	39.01	38.34	36.90	37.71	39.39	37.81
4	44.72	42.32	43.57	43.90	43.50	44.48
5	51.05	51.83	50.47	51.97	51.79	51.05
6	56.32	57.79	57.73	59.25	57.92	56.69
7	60.69	62.13	61.09	63.36	63.30	61.42
8	69.36	67.33	69.15	72.39	70.84	68.74
9	72.81	70.46	81.76	77.78	73.17	68.47
10	68.74	69.88		78.19	77.76	71.89
11	74.03	73.98		81.45	88.94	73.41
12	74.40	76.11		85.00		73.99
13	90.86	77.85		79.00	90.75	91.38
14	99.12					99.12
15	107.12					
16+	84.39					
Average	48.68	48.24	48.10	52.04	50.38	48.72

c) Total 4TVn (Nov.-Apr.) 1977

Age	OTB 1	OTB * 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE LENGTH
3		39.01	39.12	38.34	37.08	36.90	37.71	37.26	38.35	39.39	38.32
4	44.73	44.72	42.13	42.32	44.33	43.57	43.90	42.82	42.51	43.50	44.05
5	49.72	51.05	49.60	51.83	56.10	50.47	51.97	49.54	51.71	51.79	51.00
6	53.44	56.32	55.75	57.79	62.84	57.73	59.25	56.50	57.71	57.92	57.02
7	59.78	60.69	59.40	62.13	66.84	61.09	63.36	60.71	61.70	63.30	62.74
8	69.33	69.36	62.58	67.33	72.98	69.15	72.39	65.44	68.07	70.84	70.89
9	74.42	72.81	73.62	70.46	76.91	81.76	77.78	72.31	73.38	73.17	75.74
10	72.36	68.74	75.56	69.88	78.49		78.19	69.91	72.13	77.76	75.24
11	74.44	74.03	66.32	73.98	82.80		81.45	72.35	75.63	88.94	79.62
12	81.00	74.40	77.66	76.11	86.08		85.00	78.41			81.86
13	85.16	90.86		77.85	85.94		79.00			90.75	86.15
14		99.12			94.48						94.94
15	111.74	107.12			106.00						108.00
16+	102.11	84.39			119.50						94.96
Average	51.92	50.95	49.69	48.24	68.21	48.10	52.04	53.24	48.57	50.38	52.41

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1978											
Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE LENGTH
3	34.32	35.00	35.01	37.65	38.04	36.84	39.20	33.75	38.14	37.69	35.58
4	42.79	40.59	41.91	43.18	43.73	44.42	44.20	41.08	43.21	43.24	42.00
5	49.34	45.63	45.71	47.98	48.48	49.69	49.22	45.92	48.28	50.59	47.59
6	55.81	53.93	54.83	55.27	55.34	55.94	56.19	54.29	55.20	57.09	55.26
7	60.49	60.26	60.44	59.67	61.98	61.90	62.43	60.75	60.35	61.47	60.77
8	62.63	63.37	64.28	62.69	69.06	65.75	65.09	64.42	62.42	65.33	64.52
9	68.72	72.37	73.30	70.45	80.21	72.11	69.00		68.79	69.57	74.07
10	69.00	74.24	75.27	73.43	80.97	74.25	71.90			72.64	75.60
11	75.87	77.17	88.52	68.58	88.19	77.18	69.45				83.57
12	82.11	76.45	70.93	73.00	86.98	79.20	70.92				83.58
13	85.00	69.90		68.57	87.15	71.17	70.18				82.03
14	78.03										78.03
15		91.00			104.51						101.39
16+	116.16	82.00			106.00						95.69
Average	51.95	45.73	45.65	47.83	52.38	53.09	52.76	45.78	48.08	51.91	49.16

b) 4Vn (Nov.-Dec.) 1978						
Age	OTB 2	SNU 4	LLS 6	LHP 7	MISC 10	AVERAGE LENGTH
3	35.00	37.65	36.84	39.20	37.69	36.23
4	40.59	43.18	44.42	44.20	43.24	43.26
5	45.63	47.98	49.69	49.22	50.59	48.90
6	53.93	55.27	55.94	56.19	57.09	55.76
7	60.26	59.67	61.90	62.43	61.47	61.78
8	63.37	62.69	65.75	65.09	65.33	65.40
9	72.37	70.45	72.11	69.00	69.57	71.80
10	74.24	73.43	74.25	71.90	72.64	73.97
11	77.17	68.58	77.18	69.45		76.72
12	76.45	73.00	79.20	70.92		73.30
13	69.90	68.57	71.17	70.18		69.93
14						
15	91.00					91.00
16+	82.00					82.00
Average	45.73	47.83	53.09	52.76	51.91	51.62

c) Total 4TVn (Nov.-Apr.) 1978											
Age	OTB 1	OTB 2	SNU 3	SNU 4	GNS 5	LLS 6	LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE LENGTH
3	34.32	35.00	35.01	37.65	38.04	36.84	39.20	33.75	38.14	37.69	35.60
4	42.79	40.59	41.91	43.18	43.73	44.42	44.20	41.08	43.21	43.24	42.03
5	49.34	45.63	45.71	47.98	48.48	49.69	49.22	45.92	48.28	50.59	47.62
6	55.81	53.93	54.83	55.27	55.34	55.94	56.19	54.29	55.20	57.09	55.28
7	60.49	60.26	60.44	59.67	61.98	61.90	62.43	60.75	60.35	61.47	60.80
8	62.63	63.37	64.28	62.69	69.06	65.75	65.09	64.42	62.42	65.33	64.55
9	68.72	72.37	73.30	70.45	80.21	72.11	69.00		68.79	69.57	74.00
10	69.00	74.24	75.27	73.43	80.97	74.25	71.90			72.64	75.55
11	75.87	77.17	88.52	68.58	88.19	77.18	69.45				83.19
12	82.11	76.45	70.93	73.00	86.98	79.20	70.92				83.51
13	85.00	69.90		68.57	87.15	71.17	70.18				81.97
14	78.03										78.03
15		91.00			104.51						101.36
16+	116.16	82.00			106.00						95.60
Average	51.95	45.73	45.65	47.83	52.38	53.09	52.76	45.78	48.08	51.91	49.23

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1979

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	LL+LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE LENGTH
3		39.30	40.66	35.26	38.52	40.00	34.14	38.60	37.89	40.59	39.57
4	41.81	43.15	44.96	42.20	42.27	42.73	43.52	42.47	42.24	44.71	43.55
5	47.16	48.41	49.51	47.79	48.33	48.15	48.90	48.01	48.24	49.62	48.31
6	53.50	52.71	53.74	52.41	53.39	55.58	54.73	52.52	53.35	54.46	53.39
7	59.99	58.61	63.40	59.98	60.81	64.20	61.99	59.19	59.87	62.71	60.97
8	65.63	62.77	69.85	65.86	64.14	73.45	70.40	63.95	66.98	68.53	68.13
9	67.44	68.39	78.39	67.64	66.03	76.16	73.23	67.85	69.66	74.91	72.72
10	74.04	80.03	80.30	85.57	76.48	89.49	88.05		83.77		86.29
11	72.89	67.14	83.98	83.23	83.43	88.62	74.98	74.19	84.75		85.44
12	85.00	77.68	85.70			87.63	83.18				85.22
13	67.35	80.08	77.51	82.00	85.00	79.99					76.55
14			86.97		79.00	95.44	95.25				92.60
15			111.65	106.00	91.00	112.00	118.00				110.18
16+		82.00			91.61	139.00					106.98
Average	51.11	51.01	51.02	51.19	50.74	61.10	54.66	51.01	51.34	50.73	52.32

b) 4Vn (Nov.-Dec.) 1979

Age	OTB 3	SNU 5	LL+LHP 7	MISC 10	AVERAGE LENGTH
3	40.66	38.52	34.14	40.59	37.82
4	44.96	42.27	43.52	44.71	44.04
5	49.51	48.33	48.90	49.62	49.11
6	53.74	53.39	54.73	54.46	54.47
7	63.40	60.81	61.99	62.71	62.07
8	69.85	64.14	70.40	68.53	70.03
9	78.39	66.03	73.23	74.91	73.28
10	80.30	76.48	88.05		86.66
11	83.98	83.43	74.98		75.32
12	85.70		83.18		83.34
13	77.51	85.00			79.83
14	86.97	79.00	95.25		94.93
15	111.65	91.00	118.00		116.86
16+		91.61			91.61
Average	51.02	50.74	54.66	50.73	53.24

c) Total 4TVn (Nov.-Apr.) 1979

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	LL+LHP 7	MISC 8	MISC 9	MISC 10	AVERAGE LENGTH
3		39.30	40.66	35.26	38.52	40.00	34.14	38.60	37.89	40.59	39.50
4	41.81	43.15	44.96	42.20	42.27	42.73	43.52	42.47	42.24	44.71	43.57
5	47.16	48.41	49.51	47.79	48.33	48.15	48.90	48.01	48.24	49.62	48.33
6	53.50	52.71	53.74	52.41	53.39	55.58	54.73	52.52	53.35	54.46	53.42
7	59.99	58.61	63.40	59.98	60.81	64.20	61.99	59.19	59.87	62.71	61.01
8	65.63	62.77	69.85	65.86	64.14	73.45	70.40	63.95	66.98	68.53	68.19
9	67.44	68.39	78.39	67.64	66.03	76.16	73.23	67.85	69.66	74.91	72.74
10	74.04	80.03	80.30	85.57	76.48	89.49	88.05		83.77		86.29
11	72.89	67.14	83.98	83.23	83.43	88.62	74.98	74.19	84.75		85.21
12	85.00	77.68	85.70			87.63	83.18				85.18
13	67.35	80.08	77.51	82.00	85.00	79.99					76.56
14			86.97		79.00	95.44	95.25				92.88
15			111.65	106.00	91.00	112.00	118.00				110.40
16+		82.00			91.61	139.00					106.87
Average	51.11	51.01	51.02	51.19	50.74	61.10	54.66	51.01	51.34	50.73	52.34

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1980

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LHP 6	MISC 7	MISC 8	AVERAGE LENGTH
3	41.45	42.44	42.56	38.81	40.00	35.93	42.44	37.34	39.50
4	42.69	42.96	43.82	41.36	42.76	41.16	43.37	41.18	42.15
5	45.35	46.45	47.52	46.42	47.87	45.62	46.63	46.38	46.31
6	50.28	51.31	50.88	50.33	53.32	49.59	50.88	50.30	50.60
7	54.06	55.05	52.57	52.36	58.19	54.01	54.42	53.25	53.78
8	63.25	67.09	61.97	63.04	69.28	67.57	65.68	64.32	65.02
9	65.84	68.84	63.68	62.39	70.88	64.23	67.57	64.13	66.58
10	67.03	67.98	64.62	64.99	82.03	69.88	68.64	74.41	70.77
11	75.68	88.00			98.40		88.00	98.39	93.39
12	72.28	94.00			95.49			95.49	82.79
13	87.41	85.00			112.72		85.00	112.72	100.27
14	99.08	79.00		79.00			79.00		84.02
15	85.00				103.22			103.22	99.58
16+	112.00	88.00			123.56		88.00		97.13
Average	50.32	51.80	50.04	48.80	60.10	47.68	51.40	49.14	50.37

b) 4Vn (Nov.-Dec.) 1980

Age	OTB 3	SNU 4	LHP * 6	MISC 8	AVERAGE LENGTH
3	42.56	38.81	35.93	37.34	35.50
4	43.82	41.36	41.25	41.18	41.07
5	47.52	46.42	46.08	46.38	45.69
6	50.88	50.33	52.86	50.30	33.26
7	52.57	52.36	60.34	53.25	58.35
8	61.97	63.04	70.67	64.32	70.53
9	63.68	62.39	74.95	64.13	74.65
10	64.62	64.99	82.27	74.41	82.10
11			91.32	98.39	98.39
12			90.00	95.49	95.49
13			100.00	112.72	112.72
14		79.00			79.00
15			94.00	103.22	103.22
16+					
Average	50.04	48.80	negative total #s	49.14	98.39

c) Total 4TVn (Nov.-Apr.) 1980

Age	OTB 1	OTB 2	OTB 3	SNU 4	GNS 5	LHP * 6	MISC 7	MISC 8	AVERAGE LENGTH
3	41.45	42.44	42.56	38.81	40.00	35.93	42.44	37.34	39.75
4	42.69	42.96	43.82	41.36	42.76	41.25	43.37	41.18	42.22
5	45.35	46.45	47.52	46.42	47.87	46.08	46.63	46.38	46.35
6	50.28	51.31	50.88	50.33	53.32	52.86	50.88	50.30	50.70
7	54.06	55.05	52.57	52.36	58.19	60.34	54.42	53.25	54.05
8	63.25	67.09	61.97	63.04	69.28	70.67	65.68	64.32	66.07
9	65.84	68.84	63.68	62.39	70.88	74.95	67.57	64.13	67.90
10	67.03	67.98	64.62	64.99	82.03	82.27	68.64	74.41	73.42
11	75.68	88.00			98.40	91.32	88.00	98.39	93.07
12	72.28	94.00			95.49	90.00		95.49	84.24
13	87.41	85.00			112.72	100.00	85.00	112.72	100.23
14	99.08	79.00		79.00			79.00		84.01
15	85.00				103.22	94.00		103.22	97.99
16+	112.00	88.00			123.56		88.00		97.13
Average	50.32	51.80	50.04	48.80	60.10	57.73	51.40	49.14	50.84

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1981

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	GNS 7	LLS 8	LHP 9	MISC 10	MISC 11	AVERAGE LENGTH
3		34.84	39.21	39.97		38.64	40.87	38.96	40.15	29.39	39.91	37.71
4	39.31	41.41	42.23	43.11	41.37	42.72	43.75	43.78	43.73	41.24	43.31	42.06
5	43.39	45.71	46.19	46.62	44.69	46.57	47.22	47.76	46.76	44.81	47.07	45.36
6	48.05	51.24	50.69	52.16	48.85	50.50	52.88	53.77	50.64	49.18	51.48	49.88
7	51.53	54.95	53.45	55.29	51.20	52.59	58.10	58.54	53.72	51.94	53.97	53.17
8	54.38	59.15	57.20	57.67	54.37	57.53	65.88	66.09	55.89	55.31	59.22	57.99
9	67.40	64.64	64.66	62.43	58.20	66.84	73.62	77.28	63.01	59.67	69.31	69.06
10	71.25	70.95	68.27	70.53	68.02	67.59	78.40	81.25	67.09	68.87	74.66	75.91
11	80.81	75.94	76.06	74.07	68.05	72.19	77.79	80.48	66.01	71.54	78.61	78.29
12	87.38				79.34		83.91	85.00		79.50	83.59	84.92
13	91.43	79.00	79.00	79.00			79.56	90.38	69.21		86.30	85.94
14	104.40				76.00							90.20
15		73.00	73.00									73.00
16+	102.76					91.00						96.88
Average	49.02	52.00	51.01	53.34	49.41	49.87	59.09	62.92	49.88	49.84	51.32	51.20

b) 4Vn (Nov.-Dec.) 1981

Age	OTB 4	SNU 6	LLS 8	LHP 9	MISC 11	AVERAGE LENGTH
3	39.97	38.64	38.96	40.15	39.91	39.06
4	43.11	42.72	43.78	43.73	43.31	43.12
5	46.62	46.57	47.76	46.76	47.07	46.93
6	52.16	50.50	53.77	50.64	51.48	52.25
7	55.29	52.59	58.54	53.72	53.97	56.08
8	57.67	57.53	66.09	55.89	59.22	62.54
9	62.43	66.84	77.28	63.01	69.31	75.40
10	70.53	67.59	81.25	67.09	74.66	80.52
11	74.07	72.19	80.48	66.01	78.61	80.06
12			85.00		83.59	85.00
13	79.00		90.38	69.21	86.30	90.18
14						
15						
16+			91.00			91.00
Average	53.34	49.87	62.92	49.88	51.32	56.79

c) Total 4TVn (Nov.-Apr.) 1981

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	GNS 7	LLS 8	LHP 9	MISC 10	MISC 11	AVERAGE LENGTH
3		34.84	39.21	39.97		38.64	40.87	38.96	40.15	29.39	39.91	37.74
4	39.31	41.41	42.23	43.11	41.37	42.72	43.75	43.78	43.73	41.24	43.31	42.08
5	43.39	45.71	46.19	46.62	44.69	46.57	47.22	47.76	46.76	44.81	47.07	45.38
6	48.05	51.24	50.69	52.16	48.85	50.50	52.88	53.77	50.64	49.18	51.48	49.92
7	51.53	54.95	53.45	55.29	51.20	52.59	58.10	58.54	53.72	51.94	53.97	53.23
8	54.38	59.15	57.20	57.67	54.37	57.53	65.88	66.09	55.89	55.31	59.22	58.12
9	67.40	64.64	64.66	62.43	58.20	66.84	73.62	77.28	63.01	59.67	69.31	69.39
10	71.25	70.95	68.27	70.53	68.02	67.59	78.40	81.25	67.09	68.87	74.66	76.25
11	80.81	75.94	76.06	74.07	68.05	72.19	77.79	80.48	66.01	71.54	78.61	78.41
12	87.38				79.34		83.91	85.00		79.50	83.59	84.93
13	91.43	79.00	79.00	79.00			79.56	90.38	69.21		86.30	86.35
14	104.40				76.00							90.20
15		73.00	73.00									73.00
16+	102.76					91.00						96.79
Average	49.02	52.00	51.01	53.34	49.41	49.87	59.09	62.92	49.88	49.84	51.32	51.31

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1982

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LLS 10	LLS 11	LHP 12	LHP 13	LHP 14	AVERAGE LENGTH
3	34.00		39.17	48.11	37.00	39.20	43.11	38.20		39.29	41.82		37.72	43.33	42.18
4	39.31	40.00	41.62	46.00	42.39	42.37	44.80	44.31		42.25	43.98	42.97	43.12	45.97	42.86
5	45.07	46.41	45.88	48.44	46.01	46.52	48.76	49.10	46.27	46.89	47.78	46.59	47.51	49.55	46.63
6	48.82	49.45	50.12	50.89	48.35	49.34	51.22	53.04	50.28	50.17	49.98	49.95	51.08	52.61	49.61
7	52.77	52.79	55.75	54.09	51.85	53.56	54.31	56.62	55.74	53.11	53.43	53.84	53.75	55.86	53.46
8	55.70	55.99	63.25	54.63	53.67	56.23	55.84	60.95	60.90	56.82	53.66	55.71	55.88	58.36	56.41
9	62.18	62.01	66.16	59.50	54.81	60.83	63.82	62.83	69.90	60.31	55.28	57.92	59.16	64.23	61.63
10	66.92	67.78	75.44	64.00	62.04	65.57	78.23	68.06		66.22		62.81	67.92	73.76	69.15
11	71.81	79.29	76.54		68.12	71.68	82.71	69.29		83.23			68.58		73.86
12	76.29	68.17	75.80		80.70	82.10	90.91	69.73		72.26					74.85
13	86.84														86.84
14	89.74														89.74
15	74.23														74.23
16+						106.00									106.00
Average	51.13	51.62	56.21	51.71	50.34	51.52	52.52	57.15	57.10	50.53	49.27	52.58	51.48	55.09	51.92

b) 4Vn (Nov.-Dec.) 1982

Age	OTB 4	SNU 7	LLS 11	LHP 14	AVERAGE LENGTH	
3		48.11	43.11	43.33	42.58	
4		46.00	44.80	45.97	44.55	
5		48.44	48.76	49.55	48.08	
6		50.89	51.22	52.61	50.44	
7		54.09	54.31	55.86	53.82	
8		54.63	55.84	58.36	54.29	
9		59.50	63.82	64.23	58.22	
10		64.00	78.23	73.76	69.49	
11			82.71		82.71	
12			90.91		90.91	
13						
14						
15						
16+						
Average		51.71	52.52	49.27	55.09	50.47

c) Total 4TVn (Nov.-Apr.) 1982

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LLS 10	LLS 11	LHP 12	LHP 13	LHP 14	AVERAGE LENGTH
3	34.00		39.17	48.11	37.00	39.20	43.11	38.20		39.29	41.82		37.72	43.33	42.29
4	39.31	40.00	41.62	46.00	42.39	42.37	44.80	44.31		42.25	43.98	42.97	43.12	45.97	43.13
5	45.07	46.41	45.88	48.44	46.01	46.52	48.76	49.10	46.27	46.89	47.78	46.59	47.51	49.55	46.78
6	48.82	49.45	50.12	50.89	48.35	49.34	51.22	53.04	50.28	50.17	49.98	49.95	51.08	52.61	49.65
7	52.77	52.79	55.75	54.09	51.85	53.56	54.31	56.62	55.74	53.11	53.43	53.84	53.75	55.86	53.49
8	55.70	55.99	63.25	54.63	53.67	56.23	55.84	60.95	60.90	56.82	53.66	55.71	55.88	58.36	56.27
9	62.18	62.01	66.16	59.50	54.81	60.83	63.82	62.83	69.90	60.31	55.28	57.92	59.16	64.23	61.52
10	66.92	67.78	75.44	64.00	62.04	65.57	78.23	68.06		66.22		62.81	67.92	73.76	69.15
11	71.81	79.29	76.54		68.12	71.68	82.71	69.29		83.23			68.58		73.87
12	76.29	68.17	75.80		80.70	82.10	90.91	69.73		72.26					74.86
13	86.84														86.84
14	89.74														89.74
15	74.23														74.23
16+						106.00									106.00
Average	51.13	51.62	56.21	51.71	50.34	51.52	52.52	57.15	57.10	50.53	49.27	52.58	51.48	55.09	51.82

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1983

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	LHP 15	AVERAGE LENGTH
3				33.79			35.12					34.53				34.39
4	38.72	40.46	44.08	41.05	40.89	43.68	41.70		43.19		43.00	41.40	41.38	43.00	41.79	41.99
5	46.48	46.56	47.47	47.18	47.00	47.28	46.90	61.01	46.51	52.16	47.92	48.48	46.07	47.16	49.15	46.98
6	49.18	50.87	52.44	51.82	50.84	51.98	51.20	59.97	51.89	56.63	53.56	54.03	50.83	52.30	54.32	50.92
7	51.88	52.71	55.29	54.76	52.55	54.04	54.01	61.65	55.82	59.13	56.93	57.40	52.45	55.34	57.54	53.02
8	55.59	54.60	59.38	56.74	54.31	56.41	56.32	65.58	61.14	61.09	61.99	59.91	53.42	58.82	59.96	56.04
9	58.31	56.16	59.14	57.17	55.74	57.93	56.78	67.37	61.33	62.50	60.75	62.64	54.78	59.54	61.73	57.66
10	60.30	56.42	66.41	60.06	56.23	64.39	59.87	71.14	69.79	63.49	69.17	68.43	54.81	66.32	63.22	59.93
11	82.25	80.68	69.28	70.88	78.99	67.64	72.48	89.68	76.17	72.85	76.44	82.21		68.40	73.86	78.89
12	88.67								90.28			94.25				90.24
13	105.59	70.00			70.00			70.00	97.00			98.39				92.87
14	112.05							115.60	97.00			96.36				104.90
15	113.16											103.00				109.77
16+												115.06				115.06
Average	53.82	52.11	53.63	51.61	52.09	51.89	50.72	66.60	53.71	59.89	56.43	58.57	51.54	53.14	57.14	52.95

b) 4Vn (Nov.-Dec.) 1983

Age	OTB 4	SNU 7	LLS 12	LHP 15	AVERAGE LENGTH
3	33.79	35.12	34.53		34.17
4	41.05	41.70	41.40	41.79	41.19
5	47.18	46.90	48.48	49.15	47.60
6	51.82	51.20	54.03	54.32	52.80
7	54.76	54.01	57.40	57.54	56.16
8	56.74	56.32	59.91	59.96	58.65
9	57.17	56.78	62.64	61.73	60.72
10	60.06	59.87	68.43	63.22	66.13
11	70.88	72.48	82.21	73.86	81.64
12			94.25		94.25
13			98.39		98.39
14			96.36		96.36
15			103.00		103.00
16+			115.06		115.06
Average	51.61	50.72	58.57	57.14	55.11

c) Total 4TVn (Nov.-Apr.) 1983

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	LHP 15	AVERAGE LENGTH
3				33.79			35.12					34.53				34.34
4	38.72	40.46	44.08	41.05	40.89	43.68	41.70		43.19		43.00	41.40	41.38	43.00	41.79	41.92
5	46.48	46.56	47.47	47.18	47.00	47.28	46.90	61.01	46.51	52.16	47.92	48.48	46.07	47.16	49.15	47.01
6	49.18	50.87	52.44	51.82	50.84	51.98	51.20	59.97	51.89	56.63	53.56	54.03	50.83	52.30	54.32	51.00
7	51.88	52.71	55.29	54.76	52.55	54.04	54.01	61.65	55.82	59.13	56.93	57.40	52.45	55.34	57.54	53.11
8	55.59	54.60	59.38	56.74	54.31	56.41	56.32	65.58	61.14	61.09	61.99	59.91	53.42	58.82	59.96	56.14
9	58.31	56.16	59.14	57.17	55.74	57.93	56.78	67.37	61.33	62.50	60.75	62.64	54.78	59.54	61.73	57.78
10	60.30	56.42	66.41	60.06	56.23	64.39	59.87	71.14	69.79	63.49	69.17	68.43	54.81	66.32	63.22	60.15
11	82.25	80.68	69.28	70.88	78.99	67.64	72.48	89.68	76.17	72.85	76.44	82.21		68.40	73.86	79.40
12	88.67								90.28			94.25				91.25
13	105.59	70.00			70.00			70.00	97.00			98.39				93.77
14	112.05							115.60	97.00			96.36				102.36
15	113.16											103.00				107.76
16+												115.06				115.06
Average	53.82	52.11	53.63	51.61	52.09	51.89	50.72	66.60	53.71	59.89	56.43	58.57	51.54	53.14	57.14	53.04

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1984

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	AVERAGE LENGTH
3			36.04	37.55			38.50							38.25		36.65	36.10	37.57
4	38.21	47.39	43.05	42.78	43.88	42.91	41.84	44.30	41.67	45.15		47.06	41.76	40.36	52.00	41.86	41.33	42.19
5	41.14	44.34	45.96	45.01	43.85	46.59	47.34	46.00	46.87	48.59		43.59	47.63	47.13	46.00	45.27	46.25	44.82
6	46.14	51.22	49.66	48.20	49.40	50.22	51.03	55.85	58.05	55.28	48.38	53.46	53.41	51.68	52.94	50.83	49.67	49.38
7	50.62	53.61	53.38	53.94	52.15	53.39	55.22	60.61	62.35	59.18	53.62	57.63	56.60	55.98	57.51	55.59	54.72	53.11
8	52.84	56.51	56.27	56.19	56.04	56.46	56.99	64.03	69.04	63.63	57.12	61.13	60.36	58.41	61.35	60.00	58.56	55.57
9	56.48	59.72	58.31	60.41	59.18	58.23	60.75	68.36	71.48	65.56	61.20	67.45	61.95	62.18	63.99	61.23	65.38	59.74
10	56.83	63.59	60.98	61.10	63.00	61.07	61.97	72.43	73.76	67.06	62.98	72.83	65.24	63.55	65.81	64.21	68.84	61.15
11	62.36	64.08	57.67	65.33	65.71	57.28	68.04	72.83	83.15	67.88	67.26	72.75	70.78	68.11	65.66	63.08	75.01	66.62
12	74.53	67.29	87.89		68.24		92.89	79.41	86.31		81.12	81.97	94.04	90.13	65.88	83.33	89.59	76.74
13	72.07	78.58	86.61		76.38			81.87	84.42			93.86	90.95		71.68	80.47		80.96
14	79.73							103.00	96.56				103.70					93.69
15	109.00								101.74				104.39					103.72
16+			108.34					97.00	104.61				111.18	117.86				106.60
Average	52.22	54.72	51.85	49.10	52.34	52.63	53.78	66.88	71.60	61.84	59.74	63.99	59.53	54.89	60.78	55.04	53.62	53.64

b) 4Vn (Nov.-Dec.) 1984

Age	OTB 4	SNU 7	LLS 14	LHP 17	AVERAGE LENGTH
3	37.55	38.50	38.25	36.10	37.91
4	42.78	41.84	40.36	41.33	41.72
5	45.01	47.34	47.13	46.25	45.81
6	48.20	51.03	51.68	49.67	49.91
7	53.94	55.22	55.98	54.72	55.28
8	56.19	56.99	58.41	58.56	57.72
9	60.41	60.75	62.18	65.38	61.75
10	61.10	61.97	63.55	68.84	63.04
11	65.33	68.04	68.11	75.01	67.86
12		92.89	90.13	89.59	90.32
13					
14					
15					
16+			117.86		117.86
Average	49.10	53.78	54.89	53.62	52.40

c) Total 4TVn (Nov.-Apr.) 1984

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	AVERAGE LENGTH
3			36.04	37.55			38.50							38.25		36.65	36.10	37.63
4	38.21	47.39	43.05	42.78	43.88	42.91	41.84	44.30	41.67	45.15		47.06	41.76	40.36	52.00	41.86	41.33	42.14
5	41.14	44.34	45.96	45.01	43.85	46.59	47.34	46.00	46.87	48.59		43.59	47.63	47.13	46.00	45.27	46.25	44.90
6	46.14	51.22	49.66	48.20	49.40	50.22	51.03	55.85	58.05	55.28	48.38	53.46	53.41	51.68	52.94	50.83	49.67	49.40
7	50.62	53.61	53.38	53.94	52.15	53.39	55.22	60.61	62.35	59.18	53.62	57.63	56.60	55.98	57.51	55.59	54.72	53.18
8	52.84	56.51	56.27	56.19	56.04	56.46	56.99	64.03	69.04	63.63	57.12	61.13	60.36	58.41	61.35	60.00	58.56	55.63
9	56.48	59.72	58.31	60.41	59.18	58.23	60.75	68.36	71.48	65.56	61.20	67.45	61.95	62.18	63.99	61.23	65.38	59.80
10	56.83	63.59	60.98	61.10	63.00	61.07	61.97	72.43	73.76	67.06	62.98	72.83	65.24	63.55	65.81	64.21	68.84	61.20
11	62.36	64.08	57.67	65.33	65.71	57.28	68.04	72.83	83.15	67.88	67.26	72.75	70.78	68.11	65.66	63.08	75.01	66.65
12	74.53	67.29	87.89		68.24		92.89	79.41	86.31		81.12	81.97	94.04	90.13	65.88	83.33	89.59	76.84
13	72.07	78.58	86.61		76.38			81.87	84.42			93.86	90.95		71.68	80.47		80.96
14	79.73							103.00	96.56				103.70					93.69
15	109.00								101.74				104.39					103.72
16+			108.34					97.00	104.61				111.18	117.86				107.73
Average	52.22	54.72	51.85	49.10	52.34	52.63	53.78	66.88	71.60	61.84	59.74	63.99	59.53	54.89	60.78	55.04	53.62	53.59

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Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1985

Age	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	AVERAGE LENGTH
3	30.54	31.75		37.00	38.51		37.00	38.01		37.00			37.00			37.00	38.88	36.70
4	37.31	37.03	44.02	40.52	41.59	44.45	40.03	40.60		36.29			39.59	42.28	42.42	38.13	41.03	39.98
5	42.27	41.18	44.78	44.31	44.22	45.05	44.37	43.61	49.61	43.90		47.16	45.42	46.02	43.11	43.20	43.52	43.81
6	47.12	45.94	48.02	47.32	47.68	47.96	48.00	47.75	54.67	52.85	57.94	51.44	49.52	49.64	45.13	47.75	47.19	47.51
7	51.10	51.02	52.25	52.75	51.49	51.53	54.55	52.62	59.97	61.76	62.30	59.93	56.27	57.11	49.26	57.17	49.99	52.97
8	54.80	55.03	55.06	54.92	55.00	54.44	56.52	55.95	60.10	64.38	61.58	63.24	57.75	59.10	52.24	60.00	53.56	55.83
9	59.31	58.64	55.74	54.58	56.24	55.07	56.75	56.88	60.75	66.26	63.99	64.47	58.52	60.46	52.50	61.47	54.98	57.47
10	58.31	58.42	58.67	57.60	58.22	57.49	59.97	58.94	64.20	67.41	63.97	73.90	61.13	64.95	53.67	63.78	54.82	59.77
11	61.66	60.51	61.12	60.77	58.29	60.53	61.54	59.09	64.09	66.45	65.37	75.06	62.42	66.72	56.47	64.67	55.40	62.02
12	65.19	64.24	59.02	71.33	79.78	57.73	73.54	58.37	63.60	74.77	69.41	77.33	70.55	81.81	53.80	74.80		63.90
13	80.06	76.32	93.97		74.49	90.72	115.27	71.39		104.81	73.92	104.93	113.57	93.69		101.15		90.59
14			81.59			83.92			77.89			85.64						82.04
15				105.81						98.43			101.62			102.78		103.99
16+												112.72	115.00	106.00				109.93
Average	50.10	48.31	51.49	48.28	48.00	50.91	50.14	48.16	60.64	61.56	62.98	66.36	53.74	57.14	46.58	51.18	46.23	50.12

b) 4Vn (Nov.-Dec.) 1985

Age	OTB 5	SNU 8	LLS 14	LHP 17	AVERAGE LENGTH
3	38.51	38.01		38.88	38.40
4	41.59	40.60	42.28	41.03	41.49
5	44.22	43.61	46.02	43.52	44.47
6	47.68	47.75	49.64	47.19	48.23
7	51.49	52.62	57.11	49.99	54.44
8	55.00	55.95	59.10	53.56	57.63
9	56.24	56.88	60.46	54.98	59.07
10	58.22	58.94	64.95	54.82	63.45
11	58.29	59.09	66.72	55.40	64.92
12	79.78	58.37	81.81		81.26
13	74.49	71.39	93.69		92.93
14					
15					
16+			106.00		106.00
Average	48.00	48.16	57.14	46.23	51.68

c) Total 4TVn (Nov.-Apr.) 1985

Age	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	LHP 17	AVERAGE LENGTH
3	30.54	31.75		37.00	38.51		37.00	38.01		37.00			37.00			37.00	38.88	36.76
4	37.31	37.03	44.02	40.52	41.59	44.45	40.03	40.60		36.29			39.59	42.28	42.42	38.13	41.03	40.03
5	42.27	41.18	44.78	44.31	44.22	45.05	44.37	43.61	49.61	43.90		47.16	45.42	46.02	43.11	43.20	43.52	43.83
6	47.12	45.94	48.02	47.32	47.68	47.96	48.00	47.75	54.67	52.85	57.94	51.44	49.52	49.64	45.13	47.75	47.19	47.52
7	51.10	51.02	52.25	52.75	51.49	51.53	54.55	52.62	59.97	61.76	62.30	59.93	56.27	57.11	49.26	57.17	49.99	53.01
8	54.80	55.03	55.06	54.92	55.00	54.44	56.52	55.95	60.10	64.38	61.58	63.24	57.75	59.10	52.24	60.00	53.56	55.88
9	59.31	58.64	55.74	54.58	56.24	55.07	56.75	56.88	60.75	66.26	63.99	64.47	58.52	60.46	52.50	61.47	54.98	57.50
10	58.31	58.42	58.67	57.60	58.22	57.49	59.97	58.94	64.20	67.41	63.97	73.90	61.13	64.95	53.67	63.78	54.82	59.88
11	61.66	60.51	61.12	60.77	58.29	60.53	61.54	59.09	64.09	66.45	65.37	75.06	62.42	66.72	56.47	64.67	55.40	62.13
12	65.19	64.24	59.02	71.33	79.78	57.73	73.54	58.37	63.60	74.77	69.41	77.33	70.55	81.81	53.80	74.80		64.35
13	80.06	76.32	93.97		74.49	90.72	115.27	71.39		104.81	73.92	104.93	113.57	93.69		101.15		90.92
14			81.59			83.92			77.89			85.64						82.04
15				105.81						98.43			101.62			102.78		103.99
16+												112.72	115.00	106.00				108.47
Average	50.10	48.31	51.49	48.28	48.00	50.91	50.14	48.16	60.64	61.56	62.98	66.36	53.74	57.14	46.58	51.18	46.23	50.16

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1986

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	AVERAGE LENGTH
3		31.00	31.00	36.99	35.91	35.83	36.94	36.46	36.75				36.17		37.00	36.61	33.95	36.01
4	36.73	37.16	36.41	39.24	41.99	42.35	38.40	41.61	43.66	40.71	41.62	39.89	42.00	45.09	38.55	41.33	43.48	39.84
5	41.15	40.88	40.57	44.98	46.24	45.04	43.43	44.96	46.45	47.65	47.89	45.13	47.37	47.27	43.61	46.03	46.25	43.95
6	45.73	44.91	44.35	48.38	48.13	47.92	46.87	47.50	50.47	54.26	56.14	51.99	50.58	52.04	47.23	49.35	49.90	47.16
7	48.16	48.07	47.45	52.61	50.13	50.63	51.29	50.42	55.63	57.29	61.17	57.66	54.53	58.19	51.53	53.76	54.21	50.78
8	55.63	52.63	53.55	58.25	54.02	53.43	57.97	55.22	56.84	62.83	65.60	64.55	60.80	59.92	57.88	61.11	54.70	55.90
9	59.33	54.20	55.00	58.50	55.45	56.96	56.96	57.27	60.15	65.32	67.64	68.00	61.64	62.27	56.49	61.77	57.44	57.94
10	58.98	54.68	55.70	55.14	55.91	58.46	54.99	57.38	62.19	61.18	68.72	64.48	63.81	64.73	54.55	63.62	57.73	56.99
11	68.69	58.20	59.09	65.85	61.69	60.81	66.50	63.11	65.91	68.56	67.32	71.22	65.60	67.14	63.91	64.97	60.31	63.70
12	58.00	56.06	56.48	64.59	59.77	65.73	64.41	60.16	72.84	71.45	67.09	76.33	65.56	70.25	61.25	63.93	64.60	60.02
13		61.54	61.64	64.28	69.20	69.01	65.98	73.39	81.43	65.26	75.24	68.64	77.36	74.71	62.39	71.55		66.75
14				67.28			67.77			67.89	92.12	69.93	104.72					75.60
15				117.63								111.66						115.64
16+							111.18					110.87						111.03
Average	47.47	48.10	47.36	49.90	48.95	46.57	47.04	48.32	52.16	59.78	64.91	60.62	55.91	56.39	47.49	54.04	49.81	49.01

b) 4Vn (Nov.-Dec.) 1986

Age		OTB 5	SNU 8	LLS 13	LHP 16	AVERAGE LENGTH
3		35.83	36.75		33.95	35.54
4		42.35	43.66	45.09	43.48	43.85
5		45.04	46.45	47.27	46.25	46.63
6		47.92	50.47	52.04	49.90	51.41
7		50.63	55.63	58.19	54.21	57.62
8		53.43	56.84	59.92	54.70	59.49
9		56.96	60.15	62.27	57.44	62.03
10		58.46	62.19	64.73	57.73	64.47
11		60.81	65.91	67.14	60.31	66.99
12		65.73	72.84	70.25	64.60	70.17
13		69.01	81.43	74.71		74.69
14						
15						
16+						
Average		46.57	52.16	56.39	49.81	54.93

c) Total 4TVn (Nov.-Apr.) 1986

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	AVERAGE LENGTH
3		31.00	31.00	36.99	35.91	35.83	36.94	36.46	36.75				36.17		37.00	36.61	33.95	36.00
4	36.73	37.16	36.41	39.24	41.99	42.35	38.40	41.61	43.66	40.71	41.62	39.89	42.00	45.09	38.55	41.33	43.48	39.89
5	41.15	40.88	40.57	44.98	46.24	45.04	43.43	44.96	46.45	47.65	47.89	45.13	47.37	47.27	43.61	46.03	46.25	43.98
6	45.73	44.91	44.35	48.38	48.13	47.92	46.87	47.50	50.47	54.26	56.14	51.99	50.58	52.04	47.23	49.35	49.90	47.21
7	48.16	48.07	47.45	52.61	50.13	50.63	51.29	50.42	55.63	57.29	61.17	57.66	54.53	58.19	51.53	53.76	54.21	50.86
8	55.63	52.63	53.55	58.25	54.02	53.43	57.97	55.22	56.84	62.83	65.60	64.55	60.80	59.92	57.88	61.11	54.70	55.98
9	59.33	54.20	55.00	58.50	55.45	56.96	56.96	57.27	60.15	65.32	67.64	68.00	61.64	62.27	56.49	61.77	57.44	58.06
10	58.98	54.68	55.70	55.14	55.91	58.46	54.99	57.38	62.19	61.18	68.72	64.48	63.81	64.73	54.55	63.62	57.73	57.13
11	68.69	58.20	59.09	65.85	61.69	60.81	66.50	63.11	65.91	68.56	67.32	71.22	65.60	67.14	63.91	64.97	60.31	63.81
12	58.00	56.06	56.48	64.59	59.77	65.73	64.41	60.16	72.84	71.45	67.09	76.33	65.56	70.25	61.25	63.93	64.60	60.19
13		61.54	61.64	64.28	69.20	69.01	65.98	73.39	81.43	65.26	75.24	68.64	77.36	74.71	62.39	71.55		66.87
14				67.28			67.77			67.89	92.12	69.93	104.72					75.60
15				117.63								111.66						115.64
16+							111.18					110.87						111.03
Average	47.47	48.10	47.36	49.90	48.95	46.57	47.04	48.32	52.16	59.78	64.91	60.62	55.91	56.39	47.49	54.04	49.81	49.10

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Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1987

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	AVERAGE LENGTH
3	33.63	33.37	28.83		37.50	28.00								42.67			31.30
4	38.21	37.10	36.30	40.37	41.54	37.98	39.16	42.44		40.73	40.02	38.85	42.51	41.93	41.22	40.26	38.99
5	42.65	42.43	42.55	44.48	44.23	43.67	42.08	44.48	42.14	48.67	46.57	43.54	47.45	46.66	42.40	44.57	43.20
6	45.15	44.84	45.68	46.61	45.89	45.93	43.82	46.46	53.41	53.35	52.42	50.84	49.91	49.33	46.44	45.55	45.86
7	46.83	46.31	47.95	48.44	47.57	48.47	47.12	48.12	56.65	58.64	56.24	55.47	52.65	51.67	48.42	48.82	48.02
8	50.95	49.48	50.44	50.34	49.64	49.58	52.66	51.29	60.26	63.62	61.76	60.47	55.52	54.61	51.67	52.77	51.27
9	64.41	51.46	53.44	53.49	52.01	56.22	57.86	54.68	66.22	72.18	66.85	67.70	58.95	60.04	52.01	59.05	57.19
10	61.27	53.24	55.40	54.68	55.99	59.61	61.14	60.04	68.13	75.57	67.34	72.04	60.02	59.71	56.51	61.23	59.77
11	61.00	56.27	55.99	57.04	55.04	58.03	61.06	59.80	68.53	71.81	67.79	71.74	59.61	63.70	55.88	59.10	60.68
12	68.67	61.82	58.34	61.54	56.39	65.22	65.92	58.54	73.56	74.22	69.31	79.34	62.47	62.56	57.68	63.19	66.89
13		62.56	62.14	60.22		70.55	56.87	70.55	67.03	60.03	75.56	75.62	74.44	75.11	68.41	76.34	69.40
14		71.95	57.64		60.45	59.71		64.26	72.03	87.71	62.93	80.29	84.58	69.60	64.07	75.57	70.07
15									102.48	107.14		105.27	112.83	108.65			106.35
16+						95.78			111.76	104.93		108.85	113.67	129.24			108.68
Average	48.31	46.22	47.42	47.61	46.68	48.15	45.31	48.83	63.76	68.91	59.04	65.88	55.14	51.48	47.64	48.92	48.36

b) 4Vn (Nov.-Dec.) 1987

Age		OTB 4	SNU 7	LLS 13	AVERAGE LENGTH
3		37.50		42.67	40.82
4		41.54	42.44	41.93	41.78
5		44.23	44.48	46.66	45.68
6		45.89	46.46	49.33	48.21
7		47.57	48.12	51.67	50.31
8		49.64	51.29	54.61	53.25
9		52.01	54.68	60.04	57.47
10		55.99	60.04	59.71	59.35
11		55.04	59.80	63.70	61.76
12		56.39	58.54	62.56	60.84
13		56.87	60.03	76.34	67.56
14		60.45	64.26	69.60	68.54
15				108.65	
16+				129.24	129.24
Average		46.68	48.83	51.48	50.00

c) Total 4TVn (Nov.-Apr.) 1987

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	AVERAGE LENGTH
3	33.63	33.37	28.83		37.50	28.00								42.67			31.65
4	38.21	37.10	36.30	40.37	41.54	37.98	39.16	42.44		40.73	40.02	38.85	42.51	41.93	41.22	40.26	38.51
5	42.65	42.43	42.55	44.48	44.23	43.67	42.08	44.48	42.14	48.67	46.57	43.54	47.45	46.66	42.40	44.57	43.27
6	45.15	44.84	45.68	46.61	45.89	45.93	43.82	46.46	53.41	53.35	52.42	50.84	49.91	49.33	46.44	45.55	45.93
7	46.83	46.31	47.95	48.44	47.57	48.47	47.12	48.12	56.65	58.64	56.24	55.47	52.65	51.67	48.42	48.82	48.07
8	50.95	49.48	50.44	50.34	49.64	49.58	52.66	51.29	60.26	63.62	61.76	60.47	55.52	54.61	51.67	52.77	51.32
9	64.41	51.46	53.44	53.49	52.01	56.22	57.86	54.68	66.22	72.18	66.85	67.70	58.95	60.04	52.01	59.05	57.20
10	61.27	53.24	55.40	54.68	55.99	59.61	61.14	60.04	68.13	75.57	67.34	72.04	60.02	59.71	56.51	61.23	59.76
11	61.00	56.27	55.99	57.04	55.04	58.03	61.06	59.80	68.53	71.81	67.79	71.74	59.61	63.70	55.88	59.10	60.70
12	68.67	61.82	58.34	61.54	56.39	65.22	65.92	58.54	73.56	74.22	69.31	79.34	62.47	62.56	57.68	63.19	66.78
13		62.56	62.14	60.22		70.55	56.87	70.55	67.03	60.03	75.56	75.62	74.44	75.11	68.41	76.34	69.37
14		71.95	57.64		60.45	59.71		64.26	72.03	87.71	62.93	80.29	84.58	69.60	64.07	75.57	70.02
15									102.48	107.14		105.27	112.83	108.65			106.35
16+						95.78			111.76	104.93		108.85	113.67	129.24			109.70
Average	48.31	46.22	47.42	47.61	46.68	48.15	45.31	48.83	63.76	68.91	59.04	65.88	55.14	51.48	47.64	48.92	48.40

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Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1988

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	LLS 10	LLS 11	LLS 12	LHP 13	LHP 14	AVERAGE LENGTH
3		25.00	30.01	38.01	36.09	30.10	37.00	34.52				34.85	35.78	36.13		35.26
4	34.00	36.25	37.92	41.93	40.88	37.34	43.36	40.77	37.16	36.53	39.93	40.32	41.86	39.51	43.04	40.33
5	42.82	40.40	42.78	45.66	44.29	43.59	45.53	43.07	42.41	46.55	42.06	45.80	44.36	43.48	44.85	43.70
6	45.30	45.02	45.82	48.31	47.27	46.05	47.87	45.14	51.89	48.39	45.98	49.65	47.68	48.01	47.61	46.31
7	48.73	47.46	47.77	49.64	49.11	47.41	49.39	46.24	56.73	54.70	50.39	51.96	49.42	51.28	48.92	48.18
8	51.21	48.52	48.92	50.95	49.60	49.58	49.67	47.38	55.83	55.53	50.63	53.10	51.02	52.91	50.08	49.46
9	52.80	49.86	50.94	50.40	51.75	50.79	51.04	50.00	62.60	63.02	53.76	54.97	51.76	55.34	50.38	51.34
10	60.50	54.85	52.02	53.77	55.09	55.01	56.67	50.36	70.40	74.98	60.18	57.53	54.29	57.28	51.97	56.65
11		55.03	56.04	62.32	60.63	57.57	61.29	57.17	74.00	78.71	65.86	61.65	54.33	59.73	52.63	59.65
12	94.00	72.69	56.16	57.48	62.43	60.99	64.04	56.98	73.60	90.54	69.82	64.01	55.50	61.02	54.76	63.33
13			54.03	62.39	56.91	62.42	58.80	52.13	80.01	86.58	75.53	69.89	61.04	62.20	61.14	66.49
14		84.41	59.35		91.07	79.24	72.05	62.29	99.24	94.41	95.73	86.23		66.28		78.56
15			61.89		68.12	111.60		52.00	91.30	109.56	95.95	57.99		58.03		76.88
16+			83.52		97.94				115.51	123.12	123.81					111.10
Average	49.26	47.43	48.61	48.38	47.19	48.48	49.23	46.00	64.71	65.56	51.19	53.26	48.20	51.07	48.09	48.57

b) 4Vn (Nov.-Dec.) 1988

Age	OTB 4	SNU 7	LLS 12	LHP 14	AVERAGE LENGTH
3	36.09	34.52	35.78		35.85
4	40.88	40.77		43.04	41.68
5	44.29	43.07	44.36	44.85	44.32
6	47.27	45.14	47.68	47.61	47.50
7	49.11	46.24	49.42	48.92	49.23
8	49.60	47.38	51.02	50.08	50.55
9	51.75	50.00	51.76	50.38	51.69
10	55.09	50.36	54.29	51.97	54.14
11	60.63	57.17	54.33	52.63	54.84
12	62.43	56.98	55.50	54.76	55.66
13	56.91	52.13	61.04	61.14	60.19
14	91.07	62.29			89.04
15	68.12	52.00			63.68
16+	97.94				97.94
Average	47.19	46.00	48.20	48.09	47.95

c) Total 4TVn (Nov.-Apr.) 1988

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	LLS 10	LLS 11	LLS 12	LHP 13	LHP 14	AVERAGE LENGTH
3		25.00	30.01	38.01	36.09	30.10	37.00	34.52				34.85	35.78	36.13		35.29
4	34.00	36.25	37.92	41.93	40.88	37.34	43.36	40.77	37.16	36.53	39.93	40.32	41.86	39.51	43.04	40.42
5	42.82	40.40	42.78	45.66	44.29	43.59	45.53	43.07	42.41	46.55	42.06	45.80	44.36	43.48	44.85	43.72
6	45.30	45.02	45.82	48.31	47.27	46.05	47.87	45.14	51.89	48.39	45.98	49.65	47.68	48.01	47.61	46.34
7	48.73	47.46	47.77	49.64	49.11	47.41	49.39	46.24	56.73	54.70	50.39	51.96	49.42	51.28	48.92	48.20
8	51.21	48.52	48.92	50.95	49.60	49.58	49.67	47.38	55.83	55.53	50.63	53.10	51.02	52.91	50.08	49.47
9	52.80	49.86	50.94	50.40	51.75	50.79	51.04	50.00	62.60	63.02	53.76	54.97	51.76	55.34	50.38	51.35
10	60.50	54.85	52.02	53.77	55.09	55.01	56.67	50.36	70.40	74.98	60.18	57.53	54.29	57.28	51.97	56.62
11		55.03	56.04	62.32	60.63	57.57	61.29	57.17	74.00	78.71	65.86	61.65	54.33	59.73	52.63	59.55
12	94.00	72.69	56.16	57.48	62.43	60.99	64.04	56.98	73.60	90.54	69.82	64.01	55.50	61.02	54.76	63.07
13			54.03	62.39	56.91	62.42	58.80	52.13	80.01	86.58	75.53	69.89	61.04	62.20	61.14	66.37
14		84.41	59.35		91.07	79.24	72.05	62.29	99.24	94.41	95.73	86.23		66.28		78.59
15			61.89		68.12	111.60		52.00	91.30	109.56	95.95	57.99		58.03		76.83
16+			83.52		97.94				115.51	123.12	123.81					111.00
Average	49.26	47.43	48.61	48.38	47.19	48.48	49.23	46.00	64.71	65.56	51.19	53.26	48.20	51.07	48.09	48.56

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Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1989

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	AVERAGE LENGTH
3					39.20		40.00	31.37					35.08			37.00		38.54
4		37.45	38.25	41.23	41.04	42.39	41.60	41.94	41.17	41.84		41.59	38.87	43.65	39.60	40.41	42.86	40.88
5	41.80	40.14	42.76	44.30	43.74	43.82	44.13	44.42	45.73	45.88		44.64	44.58	48.93	43.08	43.77	47.37	43.58
6	46.39	43.66	44.96	46.83	46.29	44.54	46.00	47.16	50.71	49.24	52.91	48.86	47.66	49.89	47.93	47.12	48.94	45.77
7	48.56	46.74	48.63	49.22	48.09	47.10	48.57	50.22	52.82	52.61	61.12	52.03	50.33	53.15	50.72	49.68	51.78	48.40
8	50.63	49.14	49.40	50.41	49.42	49.69	50.21	50.45	54.83	54.96	65.69	53.97	51.47	54.38	51.65	50.97	52.33	50.01
9	50.26	49.22	50.14	50.09	49.80	49.26	51.30	50.18	55.91	56.33	65.51	55.55	52.24	55.85	53.33	51.76	54.24	50.26
10	52.17	50.91	51.80	53.93	51.33	51.62	50.76	51.69	57.90	58.64	66.57	58.35	55.44	56.57	55.72	54.14	54.02	52.53
11	65.53	59.24	56.42	59.87	55.00	54.46	57.74	54.66	62.54	64.11	70.70	62.15	57.48	61.67	58.26	56.04	56.54	57.76
12	56.37	58.08	59.04	64.80	58.99	58.45	55.08	56.74	65.87	67.67	79.97	66.73	59.64	70.56	62.20	58.46	64.46	59.75
13		56.08	63.02	72.36	61.05	59.21	64.22	61.78	67.95	72.04	67.16	68.41	71.26	64.59	61.82	64.00	64.37	62.95
14		61.19	66.00			63.57	67.64	59.71	81.55	76.43	78.30	80.53		74.32		55.00		68.12
15		56.37	64.54	103.00		82.33			84.60	74.47	70.00		79.69	72.05	81.81			66.85
16+		61.00				58.54		61.00	83.85			82.96						63.00
Average	50.32	47.45	48.22	47.54	46.50	47.79	47.47	48.64	56.65	55.59	67.59	55.89	50.13	54.88	52.20	49.03	51.85	48.25

b) 4Vn (Nov.-Dec.) 1989

Age	OTB 4	SNU 7	LLS 13	LHP 16	AVERAGE LENGTH
3		39.20			39.01
4		41.04			41.33
5		43.74		43.65	44.31
6		46.29		48.93	46.74
7		48.09		49.89	49.88
8		49.42		47.16	49.88
9		49.80		50.22	50.95
10		51.33		50.45	52.37
11		55.00		50.18	54.39
12		58.99		51.69	59.99
13		61.05		54.66	59.99
14				56.74	66.30
15				61.78	64.28
16+				59.71	70.93
Average	46.50	48.64	54.88	61.81	61.00

c) Total 4TVn (Nov.-Apr.) 1989

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	GNS 9	GNS 10	LLS 11	LLS 12	LLS 13	LHP 14	LHP 15	LHP 16	AVERAGE LENGTH
3					39.20		40.00	31.37					35.08			37.00		38.59
4		37.45	38.25	41.23	41.04	42.39	41.60	41.94	41.17	41.84		41.59	38.87	43.65	39.60	40.41	42.86	40.90
5	41.80	40.14	42.76	44.30	43.74	43.82	44.13	44.42	45.73	45.88		44.64	44.58	48.93	43.08	43.77	47.37	43.61
6	46.39	43.66	44.96	46.83	46.29	44.54	46.00	47.16	50.71	49.24	52.91	48.86	47.66	49.89	47.93	47.12	48.94	45.80
7	48.56	46.74	48.63	49.22	48.09	47.10	48.57	50.22	52.82	52.61	61.12	52.03	50.33	53.15	50.72	49.68	51.78	48.44
8	50.63	49.14	49.40	50.41	49.42	49.69	50.21	50.45	54.83	54.96	65.69	53.97	51.47	54.38	51.65	50.97	52.33	50.04
9	50.26	49.22	50.14	50.09	49.80	49.26	51.30	50.18	55.91	56.33	65.51	55.55	52.24	55.85	53.33	51.76	54.24	50.31
10	52.17	50.91	51.80	53.93	51.33	51.62	50.76	51.69	57.90	58.64	66.57	58.35	55.44	56.57	55.72	54.14	54.02	52.59
11	65.53	59.24	56.42	59.87	55.00	54.46	57.74	54.66	62.54	64.11	70.70	62.15	57.48	61.67	58.26	56.04	56.54	57.85
12	56.37	58.08	59.04	64.80	58.99	58.45	55.08	56.74	65.87	67.67	79.97	66.73	59.64	70.56	62.20	58.46	64.46	59.87
13		56.08	63.02	72.36	61.05	59.21	64.22	61.78	67.95	72.04	67.16	68.41	71.26	64.59	61.82	64.00	64.37	63.01
14		61.19	66.00			63.57	67.64	59.71	81.55	76.43	78.30	80.53		74.32		55.00		68.19
15		56.37	64.54	103.00		82.33			84.60	74.47	70.00		79.69	72.05	81.81			67.57
16+		61.00				58.54		61.00	83.85			82.96						62.99
Average	50.32	47.45	48.22	47.54	46.50	47.79	47.47	48.64	56.65	55.59	67.59	55.89	50.13	54.88	52.20	49.03	51.85	48.27

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1990

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	AVERAGE LENGTH
3			34.65	33.35	38.61	39.48	33.46	39.96	40.21	34.00	37.85		37.00				34.78	39.21
4	39.25	41.42	37.60	41.63	42.84	42.47	42.74	43.03	43.01	41.20	44.94	44.56	42.69	44.18	45.09	42.14	43.37	42.53
5	44.69	45.46	41.03	43.73	45.47	45.16	44.28	44.79	44.36	42.19	48.93	50.32	43.66	45.66	49.71	42.77	45.63	44.86
6	48.72	48.91	46.67	45.72	47.96	47.56	46.41	46.74	47.12	47.59	55.41	59.66	48.44	52.33	53.58	45.87	52.32	47.59
7	49.65	50.37	49.87	48.69	49.80	49.47	48.12	48.81	49.79	52.67	58.74	60.37	52.04	54.76	55.18	50.02	54.46	49.55
8	52.33	50.97	52.26	50.80	51.14	49.67	50.05	51.11	50.89	56.70	58.96	61.45	56.32	55.49	56.91	54.71	55.79	51.07
9	53.49	51.43	52.59	52.29	51.23	49.58	50.77	49.75	50.44	58.69	59.40	61.65	58.87	56.91	55.43	57.25	55.50	51.99
10	52.95	51.60	51.98	52.73	51.53	50.28	52.13	52.19	50.23	60.05	60.59	59.89	60.02	58.09	57.26	56.36	57.44	52.56
11	55.00	52.13	53.10	54.27	55.82	52.24	51.73	51.68	51.88	58.92	59.43	65.55	59.10	57.25	59.14	54.20	57.13	53.55
12		55.24	56.23	66.89	60.44	54.09	54.38	58.70	55.20	64.02	61.29	70.92	69.84	59.50	57.98	60.13	59.01	56.88
13		56.77	58.01	61.83	57.99	62.40	69.20	58.00	53.63	73.66	67.60	70.27	74.44	71.91	65.19		72.42	62.54
14		55.00	55.00				74.95		105.92	66.18	67.59	68.23	66.76	73.44	70.58		63.78	65.97
15							65.43		64.40	66.88	62.76		68.90	65.76			63.18	65.04
16+				85.22	109.00	59.94	55.00		74.59	72.05	67.61		74.44	104.40			66.35	87.08
Average	50.75	50.68	49.18	48.75	48.09	46.87	48.53	47.29	47.68	55.88	58.28	61.51	56.46	55.37	55.57	50.94	53.27	48.95

b) 4Vn (Nov.-Dec.) 1990

Age	OTB 5	SNU 8	LLS 14	AVERAGE LENGTH
3	39.48	40.21		39.50
4	42.47	43.01	45.09	42.61
5	45.16	44.36	49.71	45.35
6	47.56	47.12	53.58	48.36
7	49.47	49.79	55.18	50.49
8	49.67	50.89	56.91	51.79
9	49.58	50.44	55.43	51.67
10	50.28	50.23	57.26	53.56
11	52.24	51.88	59.14	55.20
12	54.09	55.20	57.98	56.08
13	62.40	53.63	65.19	64.11
14		105.92	70.58	71.73
15		64.40		64.40
16+	68.46	74.59		68.87
Average	46.88	47.68	55.57	48.45

c) Total 4TVn (Nov.-Apr.) 1990

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	LHP 16	AVERAGE LENGTH
3			34.65	33.35	38.61	39.48	33.46	39.96	40.21	34.00	37.85		37.00				34.78	39.24
4	39.25	41.42	37.60	41.63	42.84	42.47	42.74	43.03	43.01	41.20	44.94	44.56	42.69	44.18	45.09	42.14	43.37	42.54
5	44.69	45.46	41.03	43.73	45.47	45.16	44.28	44.79	44.36	42.19	48.93	50.32	43.66	45.66	49.71	42.77	45.63	44.88
6	48.72	48.91	46.67	45.72	47.96	47.56	46.41	46.74	47.12	47.59	55.41	59.66	48.44	52.33	53.58	45.87	52.32	47.61
7	49.65	50.37	49.87	48.69	49.80	49.47	48.12	48.81	49.79	52.67	58.74	60.37	52.04	54.76	55.18	50.02	54.46	49.58
8	52.33	50.97	52.26	50.80	51.14	49.67	50.05	51.11	50.89	56.70	58.96	61.45	56.32	55.49	56.91	54.71	55.79	51.09
9	53.49	51.43	52.59	52.29	51.23	49.58	50.77	49.75	50.44	58.69	59.40	61.65	58.87	56.91	55.43	57.25	55.50	51.98
10	52.95	51.60	51.98	52.73	51.53	50.28	52.13	52.19	50.23	60.05	60.59	59.89	60.02	58.09	57.26	56.36	57.44	52.59
11	55.00	52.13	53.10	54.27	55.82	52.24	51.73	51.68	51.88	58.92	59.43	65.55	59.10	57.25	59.14	54.20	57.13	53.60
12		55.24	56.23	66.89	60.44	54.09	54.38	58.70	55.20	64.02	61.29	70.92	69.84	59.50	57.98	60.13	59.01	56.85
13		56.77	58.01	61.83	57.99	62.40	69.20	58.00	53.63	73.66	67.60	70.27	74.44	71.91	65.19		72.42	62.60
14		55.00	55.00				74.95		105.92	66.18	67.59	68.23	66.76	73.44	70.58		63.78	66.07
15							65.43		64.40	66.88	62.76		68.90	65.76			63.18	65.03
16+				85.22	109.00	59.94	55.00		74.59	72.05	67.61		74.44	104.40			66.35	86.80
Average	50.75	50.68	49.18	48.75	48.09	46.87	48.53	47.29	47.68	55.88	58.28	61.51	56.46	55.37	55.57	50.94	53.27	48.93

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1991

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	AVERAGE LENGTH
3	31.00		31.00	31.00	36.81	39.51		33.20	40.72		37.93	40.00		37.38	39.27	36.67	38.17
4	37.42	40.54	37.90	40.54	42.47	41.37	41.37	38.58	42.17		42.27	42.81	41.04	41.45	42.63	39.69	41.25
5	47.75	45.41	42.83	44.62	45.35	44.77	44.29	43.72	45.38	48.07	46.80	47.26	45.07	45.10	47.04	43.49	45.05
6	48.67	47.93	46.81	46.36	48.13	47.62	46.33	46.19	47.82	51.15	51.86	53.60	50.76	50.17	52.56	49.47	47.63
7	51.21	50.61	49.37	48.98	49.78	49.79	49.14	49.08	49.90	56.61	57.69	56.30	57.98	55.97	54.71	54.82	50.47
8	52.36	52.90	50.93	51.89	51.97	53.28	51.64	51.14	52.10	57.50	59.30	60.21	60.05	56.11	57.14	56.30	52.69
9	53.38	54.53	50.89	53.05	56.91	52.74	53.21	52.35	51.02	58.81	61.88	60.14	62.57	59.02	57.05	58.01	53.81
10	54.57	54.61	53.08	54.73	59.65	51.96	55.94	53.99	54.45	60.48	58.82	59.30	63.01	56.76	58.20	56.54	54.95
11	55.01	53.44	53.86	54.82	57.54	54.48	55.78	49.62	53.99	61.75	61.21	59.88	62.85	58.61	57.08	58.63	55.25
12	52.00	56.31	52.50	56.45	57.61	55.53	58.93	54.89	52.67	60.79	63.91	58.25	62.52	61.71	58.60	60.77	56.05
13		63.44	55.39	58.21	73.00	60.14	63.68	66.37	61.06	62.65	61.06	59.58	60.82	59.57	56.90	58.72	60.17
14		79.00		68.64	61.00	55.00	73.83		68.66	82.09	57.25	55.04	80.67	55.00	53.25		62.82
15		59.54	55.00	77.51			77.26			78.88			71.29		65.95		64.90
16+				58.00			82.26			82.58		61.36	81.74		62.48	97.05	70.26
Average	51.22	49.51	47.40	48.63	46.72	46.60	48.47	44.73	47.31	58.00	55.37	54.61	59.74	49.47	52.29	45.41	48.41

b) 4Vn (Nov.-Dec.) 1991

Age	OTB * 5	SNU 8	LLS 14	AVERAGE LENGTH
3	39.58	40.72	39.27	39.61
4	41.39	42.17	42.63	41.51
5	44.77	45.38	47.04	44.98
6	47.52	47.82	52.56	48.10
7	49.66	49.90	54.71	50.33
8	53.19	52.10	57.14	53.81
9	52.65	51.02	57.05	53.56
10	51.84	54.45	58.20	54.06
11	54.46	53.99	57.08	55.53
12	55.53	52.67	58.60	56.51
13	60.15	61.06	56.90	58.21
14	55.00	68.66	53.25	54.47
15			65.95	65.95
16+			62.45	62.45
Average	46.20	47.31	52.29	46.96

c) Total 4TVn (Nov.-Apr.) 1991

Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB * 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	GNS 11	LLS 12	LLS 13	LLS 14	LHP 15	AVERAGE LENGTH
3	31.00		31.00	31.00	36.81	39.58		33.20	40.72		37.93	40.00		37.38	39.27	36.67	38.32
4	37.42	40.54	37.90	40.54	42.47	41.39	41.37	38.58	42.17		42.27	42.81	41.04	41.45	42.63	39.69	41.27
5	47.75	45.41	42.83	44.62	45.35	44.77	44.29	43.72	45.38	48.07	46.80	47.26	45.07	45.10	47.04	43.49	45.04
6	48.67	47.93	46.81	46.36	48.13	47.52	46.33	46.19	47.82	51.15	51.86	53.60	50.76	50.17	52.56	49.47	47.63
7	51.21	50.61	49.37	48.98	49.78	49.66	49.14	49.08	49.90	56.61	57.69	56.30	57.98	55.97	54.71	54.82	50.45
8	52.36	52.90	50.93	51.89	51.97	53.19	51.64	51.14	52.10	57.50	59.30	60.21	60.05	56.11	57.14	56.30	52.71
9	53.38	54.53	50.89	53.05	56.91	52.65	53.21	52.35	51.02	58.81	61.88	60.14	62.57	59.02	57.05	58.01	53.79
10	54.57	54.61	53.08	54.73	59.65	51.84	55.94	53.99	54.45	60.48	58.82	59.30	63.01	56.76	58.20	56.54	54.93
11	55.01	53.44	53.86	54.82	57.54	54.46	55.78	49.62	53.99	61.75	61.21	59.88	62.85	58.61	57.08	58.63	55.25
12	52.00	56.31	52.50	56.45	57.61	55.53	58.93	54.89	52.67	60.79	63.91	58.25	62.52	61.71	58.60	60.77	56.06
13		63.44	55.39	58.21	73.00	60.15	63.68	66.37	61.06	62.65	61.06	59.58	60.82	59.57	56.90	58.72	60.10
14		79.00		68.64	61.00	55.00	73.83		68.66	82.09	57.25	55.04	80.67	55.00	53.25		62.32
15		59.54	55.00	77.51			77.26			78.88			71.29		65.95		64.91
16+				58.00			82.26			82.58		61.36	81.74		62.48	97.05	69.52
Average	51.22	49.51	47.40	48.63	46.72	46.50	48.47	44.73	47.31	58.00	55.37	54.61	59.74	49.47	52.29	45.41	48.34

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1992																
Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	AVERAGE LENGTH
3			35.54	34.00	40.41	39.89	30.83	37.11	37.39	36.91		38.75	41.39	36.50	37.00	38.79
4	40.55	40.73	39.83	40.11	41.51	42.05	39.66	40.73	42.27	42.49	42.61	38.44	41.68	37.38	39.91	41.11
5	46.76	43.59	43.78	43.27	44.40	44.90	43.30	43.84	45.17	49.99	50.62	43.99	46.08	42.95	44.61	44.39
6	48.33	47.89	49.32	46.53	47.20	47.55	46.59	46.56	48.86	53.82	57.87	49.95	49.89	48.59	46.98	47.48
7	51.41	51.14	52.12	49.70	49.97	50.00	49.08	48.78	50.44	57.94	61.32	54.79	54.21	52.83	50.31	50.53
8	54.34	54.34	53.56	52.62	52.76	51.09	50.43	50.97	51.33	61.01	62.12	56.97	56.45	54.77	51.30	53.24
9	55.18	54.74	54.21	54.23	55.84	52.81	52.86	50.97	54.40	63.57	64.99	60.36	57.71	55.88	51.01	54.91
10	58.05	57.61	55.42	55.13	58.22	54.07	54.57	53.53	56.01	69.39	69.43	61.19	66.84	58.51		57.12
11	58.84	57.04	59.99	56.39	58.74	53.75	56.48	51.55	50.48	66.80	64.00	67.13	61.32	58.88	57.35	57.79
12	58.29	56.14	56.51	57.91	58.40	56.76	56.20	58.46	57.63	67.75	64.12	64.70	58.35	58.71	53.43	57.97
13		57.74	54.67	60.41	57.83	60.70	57.15	53.96	64.00	91.29	65.37	65.27	57.94	62.00		60.63
14			69.00	74.66		100.28	69.13			93.47		77.26				79.96
15		76.00		73.00		73.53	62.44			106.55						84.19
16+										110.75		83.25				98.42
Average	51.29	49.81	46.53	47.66	46.39	45.88	47.18	45.92	47.24	61.35	61.94	51.13	50.05	45.43	43.78	47.77

b) 4Vn (Nov.-Dec.) 1992							
Age			OTB 5	SNU 8	LLS 12	LHP 14	AVERAGE LENGTH
3			39.89	37.39	41.39	37.00	39.94
4			42.05	42.27	41.68	39.91	42.04
5			44.90	45.17	46.08	44.61	44.99
6			47.55	48.86	49.89	46.98	47.82
7			50.00	50.44	54.21	50.31	50.58
8			51.09	51.33	56.45	51.30	51.99
9			52.81	54.40	57.71	51.01	54.20
10			54.07	56.01	66.84		55.91
11			53.75	50.48	61.32	57.35	55.55
12			56.76	57.63	58.35	53.43	57.44
13			60.70	64.00	57.94		59.46
14			100.28				100.28
15			73.53				73.53
16+							
Average			45.88	47.24	50.05	43.78	46.32

c) Total 4TVn (Nov.-Apr.) 1992																
Age	4Vs(J-A)	OTB 1	OTB 2	OTB 3	OTB 4	OTB 5	SNU 6	SNU 7	SNU 8	GNS 9	GNS 10	LLS 11	LLS 12	LHP 13	LHP 14	AVERAGE LENGTH
3			35.54	34.00	40.41	39.89	30.83	37.11	37.39	36.91		38.75	41.39	36.50	37.00	38.95
4	40.55	40.73	39.83	40.11	41.51	42.05	39.66	40.73	42.27	42.49	42.61	38.44	41.68	37.38	39.91	41.22
5	46.76	43.59	43.78	43.27	44.40	44.90	43.30	43.84	45.17	49.99	50.62	43.99	46.08	42.95	44.61	44.43
6	48.33	47.89	49.32	46.53	47.20	47.55	46.59	46.56	48.86	53.82	57.87	49.95	49.89	48.59	46.98	47.50
7	51.41	51.14	52.12	49.70	49.97	50.00	49.08	48.78	50.44	57.94	61.32	54.79	54.21	52.83	50.31	50.54
8	54.34	54.34	53.56	52.62	52.76	51.09	50.43	50.97	51.33	61.01	62.12	56.97	56.45	54.77	51.30	53.19
9	55.18	54.74	54.21	54.23	55.84	52.81	52.86	50.97	54.40	63.57	64.99	60.36	57.71	55.88	51.01	54.89
10	58.05	57.61	55.42	55.13	58.22	54.07	54.57	53.53	56.01	69.39	69.43	61.19	66.84	58.51		57.09
11	58.84	57.04	59.99	56.39	58.74	53.75	56.48	51.55	50.48	66.80	64.00	67.13	61.32	58.88	57.35	57.73
12	58.29	56.14	56.51	57.91	58.40	56.76	56.20	58.46	57.63	67.75	64.12	64.70	58.35	58.71	53.43	57.96
13		57.74	54.67	60.41	57.83	60.70	57.15	53.96	64.00	91.29	65.37	65.27	57.94	62.00		60.61
14			69.00	74.66		100.28	69.13			93.47		77.26				80.35
15		76.00		73.00		73.53	62.44			106.55						83.82
16+										110.75		83.25				98.42
Average	51.29	49.81	46.53	47.66	46.39	45.88	47.18	45.92	47.24	61.35	61.94	51.13	50.05	45.43	43.78	47.68

Table 4: Cont'd

a) 4TVn (Jan.-Apr.) 1993

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	GNS 7	LLS 8	LLS 9	LLS 10	LHP 11	AVERAGE LENGTH
3	34.00		38.30		39.45			36.71	36.34	38.69	34.98	35.68
4	36.10		41.23		41.88	38.07		39.88	40.59	42.07	38.39	39.47
5	42.58	43.47	44.11	46.35	44.49	43.27	46.80	42.64	43.51	44.08	40.55	42.49
6	48.14	46.32	47.34	49.54	47.72	49.59	52.75	48.21	48.57	48.53	45.78	47.73
7	52.46	49.47	49.52	54.68	49.87	58.22	59.38	52.24	53.75	54.08	53.17	53.06
8	55.38	53.43	54.17	58.22	54.12	62.46	62.34	53.11	56.58	58.80	55.48	57.79
9	55.90	53.72	54.26	63.59	54.06	67.03	62.81	53.41	56.51	57.43	57.07	58.62
10	54.52	55.54	55.66	64.03	54.69	79.55	69.76	54.07	57.73	58.11	57.08	60.58
11	56.00	55.39	55.20	63.16	56.17	76.72	69.42	54.55	58.83	62.72	61.17	61.52
12	56.89	60.30	59.85	65.51	59.99	70.03	64.66	54.04	59.11	58.48	58.54	59.60
13	54.49	94.00	56.01	97.17	56.03	66.73	65.60	53.08	57.96	61.01	57.19	58.76
14		70.00	58.00	66.38	58.00	82.78	69.95		72.49	68.68	58.77	66.63
15			53.18	97.12	53.04	109.00	97.38	61.00	62.10	62.75	61.00	79.45
16+				121.45		112.02	110.77					111.30
Average	51.69	47.60	47.50	54.76	48.10	60.30	61.52	46.10	48.55	49.81	43.69	49.71

b) 4Vn (Nov.-Dec.) 1993

Age	OTB 3	SNU 5	LLS 10	LHP 11	AVERAGE LENGTH
3	38.30	39.45	38.69	34.98	38.23
4	41.23	41.88	42.07	38.39	41.89
5	44.11	44.49	44.08	40.55	44.01
6	47.34	47.72	48.53	45.78	48.38
7	49.52	49.87	54.08	53.17	53.55
8	54.17	54.12	58.80	55.48	58.38
9	54.26	54.06	57.43	57.07	57.28
10	55.66	54.69	58.11	57.08	57.92
11	55.20	56.17	62.72	61.17	62.55
12	59.85	59.99	58.48	58.54	58.49
13	56.01	56.03	61.01	57.19	60.88
14	58.00	58.00	68.68	58.77	67.63
15	53.18	53.04	62.75	61.00	61.03
16+					
Average	47.50	48.10	49.81	43.69	49.52

c) Total 4TVn (Nov.-Apr.) 1993

Age	OTB 1	OTB 2	OTB 3	SNU 4	SNU 5	GNS 6	GNS 7	LLS 8	LLS 9	LLS 10	LHP 11	AVERAGE LENGTH
3	34.00		38.30		39.45			36.71	36.34	38.69	34.98	35.69
4	36.10		41.23		41.88	38.07		39.88	40.59	42.07	38.39	39.50
5	42.58	43.47	44.11	46.35	44.49	43.27	46.80	42.64	43.51	44.08	40.55	42.51
6	48.14	46.32	47.34	49.54	47.72	49.59	52.75	48.21	48.57	48.53	45.78	47.74
7	52.46	49.47	49.52	54.68	49.87	58.22	59.38	52.24	53.75	54.08	53.17	53.07
8	55.38	53.43	54.17	58.22	54.12	62.48	62.34	53.11	56.58	58.80	55.48	57.79
9	55.90	53.72	54.26	63.59	54.06	67.03	62.81	53.41	56.51	57.43	57.07	58.61
10	54.52	55.54	55.66	64.03	54.69	79.55	69.76	54.07	57.73	58.11	57.08	60.54
11	56.00	55.39	55.20	63.16	56.17	76.72	69.42	54.55	58.83	62.72	61.17	61.53
12	56.89	60.30	59.85	65.51	59.99	70.03	64.66	54.04	59.11	58.48	58.54	59.58
13	54.49	94.00	56.01	97.17	56.03	66.73	65.60	53.08	57.96	61.01	57.19	58.79
14		70.00	58.00	66.38	58.00	82.78	69.95		72.49	68.68	58.77	66.64
15			53.18	97.12	53.04	109.00	97.38	61.00	62.10	62.75	61.00	79.29
16+				121.45		112.02	110.77					111.30
Average	51.69	47.60	47.50	54.76	48.10	60.30	61.52	46.10	48.55	49.81	43.69	49.71

Table 4: Cont'd

c) Total 4TVn (Nov.-Apr.) 1994

Age	OTB 1	OTB 2	OTB 3	OTB 4	SNU 5	SNU 6	SNU 7	GNS 8	LLS 9	LHP 10	LRR 11	SENT 12	AVERAGE LENGTH
3	31.00	34.00	34.10	41.67	33.38	41.10	35.58	35.36	37.01	38.31	34.75	33.04	33.94
4	39.53	38.17	38.32	43.26	38.49	42.39	41.08	41.18	40.35	41.60	39.57	37.89	39.55
5	40.80	42.98	42.61	45.61	44.45	44.62	46.51	45.22	44.60	45.00	43.62	42.58	43.88
6	46.38	45.41	46.43	48.05	48.68	47.12	49.95	53.59	48.54	47.98	47.10	46.22	47.82
7	50.36	50.75	51.57	53.01	55.02	53.52	53.62	60.99	54.30	53.09	52.72	50.08	53.18
8	53.39	54.84	54.62	56.35	59.20	58.09	55.09	63.79	57.19	55.55	55.53	53.09	57.59
9	60.38	58.18	55.22	58.21	62.49	59.94	57.50	66.27	58.86	57.13	58.94	53.56	61.14
10	64.00	60.73	56.08	58.10	66.02	59.74	57.04	63.83	60.29	56.33	58.51	52.58	60.47
11	62.19	62.38	56.63	58.54	68.41	63.14	58.99	69.53	59.63	57.65	61.03	57.84	62.97
12	57.63	57.95	63.49	59.87	67.39	65.88	62.15	64.79	64.08	61.99	63.65		63.00
13	54.68	57.76	59.34	60.14	64.25	60.90	58.90	67.00	59.90	60.41	59.82		59.25
14		80.53	60.16	60.80		62.00	57.51	64.00	61.20	59.29	59.93	64.00	62.26
15		58.88				63.71							63.05
16+		121.00			109.43								110.46
Total	49.42	49.04	47.20	51.91	55.67	51.88	52.88	59.97	52.21	51.42	49.93	42.30	51.51

c) Total 4TVn (Nov.-Apr.) 1995

Age	OTB 1	SNU 2	SNU 3	SNU 4	GNS 5	LLS 6	SENT 7	SENT 8	AVERAGE LENGTH
3				43.77	30.00	41.00	29.55	29.71	29.95
4	43.70		39.07	41.24	39.39	43.40	36.43	37.77	38.03
5	49.39	45.42	45.61	43.03	44.83	46.42	39.43	41.88	41.92
6	52.11	48.66	48.09	45.11	50.10	51.10	43.94	45.21	45.93
7	54.37	49.71	51.09	47.43	59.37	56.01	46.22	48.86	49.66
8	57.81	53.69	55.03	49.85	62.88	58.32	49.08	52.14	53.58
9	58.73	58.99	59.67	51.05	68.81	62.14	53.27	56.05	59.29
10	62.11	60.13	69.34	56.50	70.73	64.08	56.72	60.18	62.83
11		59.93	65.25	63.30	74.52	66.70	51.76	61.85	65.80
12		63.10	58.42	69.30	83.39	62.93		62.72	67.66
13		66.76	65.00	60.07	83.73	71.51		70.63	76.54
14		65.00	62.00	65.02	96.00	70.35		67.98	76.28
15		68.00				84.00		94.00	74.79
16+				109.00	101.00				101.22
Total	54.84	53.37	52.03	45.32	63.67	58.09	43.24	43.42	46.73

Table 5: Commercial landings-at-age (thousands) of the southern Gulf of St. Lawrence cod stock, 4TVn (Nov.-Dec.), 1971 to 1995.

AGE	3	4	5	6	7	8	9	10	11	12	13	14	15	16+	TOTAL
1971	6	2099	7272	9262	5916	2331	1251	520	130	354	75	120	154	68	29558
1972	3179	22247	12018	6666	7561	3551	952	547	372	120	51	14	47	38	57361
1973	1374	6999	14498	5325	3720	2800	1861	557	338	100	69	47	12	24	37723
1974	2993	5400	5033	9690	3102	1854	1772	1054	260	198	81	29	6	19	31490
1975	1567	8910	6933	2540	3297	1319	1119	801	680	151	53	76	7	67	27519
1976	508	4093	9996	6975	1708	1257	478	285	148	145	47	17	12	10	25679
1977	659	4960	5899	3320	1773	400	284	182	114	50	53	10	4	5	17712
1978	548	10037	10897	4596	2681	1108	244	248	110	72	44	5	13	6	30610
1979	148	5138	15913	11251	3509	1724	865	295	253	66	33	17	16	8	39235
1980	295	1920	14674	14142	9789	1522	808	404	143	30	18	8	14	26	43793
1981	98	3829	7380	19144	13116	6200	913	463	203	71	89	2	14	4	51526
1982	518	1621	10671	8700	12539	7663	2533	444	142	76	5	2	2	1	44917
1983	42	1147	6311	12124	11936	7646	5379	2668	139	51	18	10	5	5	47481
1984	30	1319	4210	7410	9085	6949	5173	2937	942	151	52	7	5	9	38278
1985	175	1561	10307	17163	8342	6094	3975	2277	971	353	26	6	8	6	51265
1986	136	3546	8295	23645	9739	4069	3041	2372	1197	803	159	19	3	2	57027
1987	80	1029	7400	10851	18933	7011	2250	1684	700	417	132	112	14	13	50627
1988	111	1725	5241	11259	9072	12151	6813	1818	970	466	202	51	44	8	49931
1989	71	1658	6065	12398	10714	7316	7628	5171	990	465	153	49	37	15	52730
1990	540	2973	7508	10613	10207	6983	4468	4644	2066	385	122	37	30	29	50605
1991	286	5178	10371	9586	8416	4735	3173	1754	955	587	91	25	16	9	45184
1992	487	3437	12511	9912	5290	3453	2059	910	510	375	112	12	5	9	39081
1993	53	264	914	1155	924	480	217	132	72	34	29	7	9	2	4292
1994	28	54	99	214	285	154	70	27	19	7	4	2	0	0	965
1995	71	141	153	136	232	138	61	25	13	6	2	1	0	0	979

Table 6: Average weights-at-age (kilograms) of landings of the southern Gulf of St. Lawrence cod stock, 4TVn (Nov.-Dec.), 1971 to 1995.

	AGE 3	4	5	6	7	8	9	10	11	12	13	14	15	16+	AVERAGE
1971	0.760	0.820	1.110	1.400	2.150	3.670	3.830	5.250	6.000	4.780	6.850	7.420	7.960	17.720	1.960
1972	0.360	0.560	0.910	1.330	1.520	2.550	4.820	5.970	7.130	8.080	8.850	10.250	5.650	11.230	1.160
1973	0.460	0.670	0.920	1.280	1.690	2.310	3.590	5.510	6.030	7.950	6.160	6.720	8.860	6.120	1.370
1974	0.600	0.780	1.090	1.490	1.960	2.680	2.890	4.110	5.970	7.070	8.300	6.870	9.840	12.650	1.610
1975	0.480	0.740	1.150	1.760	2.360	2.750	3.220	3.700	4.460	6.950	9.200	6.300	8.390	6.190	1.570
1976	0.460	0.780	1.110	1.540	2.190	2.840	3.230	3.790	4.620	5.090	6.190	9.870	10.450	15.050	1.450
1977	0.520	0.810	1.270	1.790	2.420	3.510	4.270	4.310	5.100	5.570	6.450	8.610	12.560	9.880	1.520
1978	0.400	0.680	1.030	1.660	2.270	2.810	4.330	4.630	6.370	6.460	6.230	5.090	11.560	10.170	1.270
1979	0.510	0.710	1.010	1.420	2.220	3.310	4.070	7.140	6.960	6.690	4.700	8.790	15.520	17.340	1.470
1980	0.580	0.690	0.920	1.220	1.500	2.780	3.080	4.000	7.830	6.010	9.980	5.810	9.130	9.350	1.300
1981	0.500	0.680	0.850	1.130	1.390	1.840	3.190	4.170	4.470	5.600	6.110	7.080	3.490	8.350	1.300
1982	0.750	0.760	0.970	1.160	1.450	1.720	2.270	3.270	4.010	4.140	6.460	6.920	4.180	11.100	1.370
1983	0.330	0.610	0.890	1.140	1.310	1.580	1.730	2.010	4.840	7.630	8.550	10.510	12.090	14.760	1.350
1984	0.450	0.650	0.790	1.090	1.380	1.610	2.070	2.270	3.050	4.930	5.660	8.610	11.740	13.230	1.500
1985	0.440	0.570	0.760	0.990	1.420	1.670	1.830	2.140	2.410	2.890	8.330	5.710	11.410	12.970	1.240
1986	0.430	0.600	0.810	1.010	1.290	1.750	1.980	1.890	2.640	2.230	3.070	4.830	15.360	13.550	1.200
1987	0.270	0.490	0.700	0.860	0.990	1.250	1.850	2.160	2.240	3.150	3.570	4.030	12.410	14.210	1.080
1988	0.400	0.600	0.770	0.920	1.040	1.130	1.290	1.900	2.230	2.720	3.520	5.670	5.920	14.320	1.120
1989	0.530	0.630	0.770	0.900	1.070	1.190	1.220	1.400	1.940	2.150	2.550	3.490	3.410	2.760	1.090
1990	0.560	0.720	0.850	1.030	1.170	1.280	1.360	1.410	1.500	1.840	2.590	3.360	2.810	7.980	1.140
1991	0.530	0.650	0.850	1.010	1.220	1.410	1.510	1.600	1.630	1.730	2.200	2.500	3.080	3.800	1.090
1992	0.550	0.650	0.810	1.000	1.220	1.450	1.610	1.850	1.880	1.910	2.270	5.520	6.580	9.880	1.050
1993	0.410	0.560	0.700	1.000	1.400	1.820	1.930	2.220	2.310	2.110	2.070	2.980	5.730	13.190	1.220
1994	0.360	0.570	0.790	1.040	1.450	1.850	2.230	2.160	2.470	2.400	2.030	2.290	2.380	13.520	1.380
1995	0.250	0.500	0.670	0.900	1.160	1.480	2.090	2.500	2.950	3.350	4.800	4.840	4.180	10.180	1.070

Table 7: Average lengths-at-age (centimeters) of landings of the southern Gulf of St. Lawrence cod stock, 4TVn (Nov.-Dec.), 1971 to 1995.

	AGE 3	4	5	6	7	8	9	10	11	12	13	14	15	16+	AVERAGE
1971	43.00	43.95	48.46	52.14	59.56	70.14	70.29	79.04	83.34	77.40	87.07	87.80	90.81	117.83	55.82
1972	33.40	38.68	45.43	51.33	53.25	62.17	76.75	82.09	88.27	91.10	93.30	98.50	80.46	97.32	46.26
1973	36.50	41.31	45.86	50.90	55.45	60.73	69.41	80.20	81.60	89.79	82.60	85.02	93.71	81.70	49.70
1974	39.16	43.14	48.14	53.42	58.22	64.23	65.30	68.69	82.22	86.86	91.45	85.43	98.73	104.55	52.36
1975	36.02	41.45	48.09	55.58	61.22	64.30	67.73	70.73	74.13	86.52	96.33	83.70	91.05	80.93	50.89
1976	36.09	43.22	48.36	53.69	60.03	65.40	67.87	71.38	76.01	77.90	82.40	97.09	99.43	112.14	51.44
1977	38.32	44.05	51.00	57.02	62.74	70.89	75.74	75.24	79.62	81.86	86.15	94.94	108.00	94.96	52.41
1978	35.60	42.03	47.62	55.28	60.80	64.55	74.00	75.55	83.19	83.51	81.97	78.03	101.36	95.60	49.23
1979	39.50	43.57	48.33	53.42	61.01	68.19	72.74	86.29	85.21	85.18	76.56	92.88	110.40	106.87	52.34
1980	39.75	42.22	46.35	50.70	54.05	66.07	67.90	73.42	93.07	84.24	100.23	84.01	97.99	97.13	50.84
1981	37.74	42.08	45.38	49.92	53.23	58.12	69.39	76.25	78.41	84.93	86.35	90.20	73.00	96.79	51.31
1982	42.29	43.13	46.78	49.65	53.49	56.27	61.52	69.15	73.87	74.86	86.84	89.74	74.23	106.00	51.82
1983	34.34	41.92	47.01	51.00	53.11	56.14	57.78	60.15	79.40	91.25	93.77	102.36	107.76	115.06	53.04
1984	37.63	42.14	44.90	49.40	53.18	55.63	59.80	61.20	66.65	76.84	80.96	93.69	103.72	107.73	53.59
1985	36.76	40.03	43.83	47.52	53.01	55.88	57.50	59.88	62.13	64.35	90.92	82.04	103.99	108.47	50.16
1986	36.76	40.03	43.83	47.52	53.01	55.88	57.50	59.88	62.13	64.35	90.92	82.04	103.99	108.47	50.16
1987	31.65	38.51	43.27	45.93	48.07	51.32	57.20	59.76	60.70	66.78	69.37	70.02	106.35	109.70	48.40
1988	35.29	40.42	43.72	46.34	48.20	49.47	51.35	56.62	59.55	63.07	66.37	78.59	76.83	111.00	48.56
1989	38.59	40.90	43.61	45.80	48.44	50.04	50.31	52.59	57.85	59.87	63.01	68.19	67.57	62.99	48.27
1990	39.24	42.54	44.88	47.61	49.58	51.09	51.98	52.59	53.60	56.85	62.60	66.07	65.03	86.80	48.94
1991	38.31	41.27	45.04	47.63	50.45	52.71	53.79	54.92	55.25	56.03	60.08	62.82	65.42	71.05	48.34
1992	38.99	41.24	44.44	47.50	50.54	53.20	54.90	57.12	57.77	57.99	60.49	81.49	82.55	98.53	47.68
1993	35.69	39.50	42.51	47.74	53.07	57.79	58.61	60.54	61.53	59.58	58.79	66.64	79.29	111.30	49.71
1994	35.69	39.50	42.51	47.74	53.07	57.79	58.61	60.54	61.53	59.58	58.79	66.64	79.29	111.30	49.71
1995	29.95	38.03	41.92	45.93	49.66	53.58	59.29	62.83	65.80	67.66	76.54	76.28	74.79	101.22	46.73

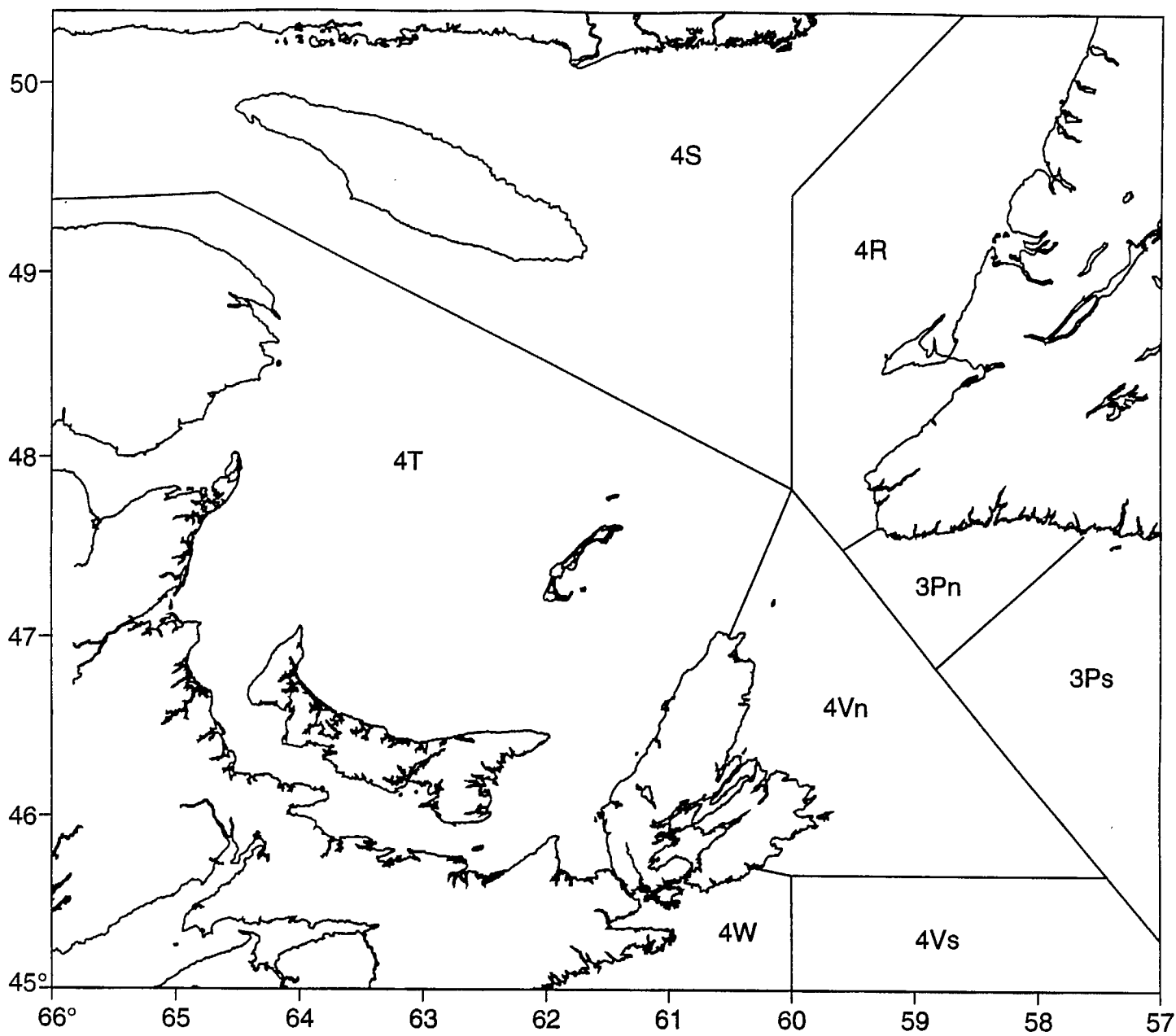


Figure 1: Northwest Atlantic Fisheries Organization (NAFO) Divisions and Subdivisions.

