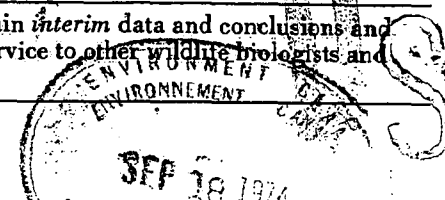


Progress Notes contain interim data and conclusions and are presented as a service to other wildlife biologists and agencies.



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No. 41, July 1974

Report on 1973 sales of the Canada migratory game bird hunting permit, migratory game bird harvest and hunter activity

by F.G. Cooch,¹ G.W. Kaiser,¹ and L. Wight¹

Introduction

Procedures followed in the 1973 harvest survey were little changed from those of 1972. The sampling design of Drs. A.R. Sen and G.E.J. Smith described in Cooch *et al.*, 1973 was unmodified except for the further subdivision of one sample. The geographical boundaries of the hunting strata are the same as those in the 1971 survey (see Cooch *et al.*, 1972a and b). The major advances this year were achieved in the field of data processing where D. Johnson and V. Thomas, Computing and Applied Statistics Directorate, Department of the Environment, developed an edit and retrieval system that resolved all permit purchases into known survey strata. Harvest survey questionnaires were also machine-edited to provide standardized application of edit criteria. In addition, H. Wright redesigned the computer systems and programs required to produce material for the production of Progress Notes.

Permit sales

The general rate of increase in permit sales rose sharply in 1973 to a new high of 452,841 records. This represents a 7.4% increase over 1972 sales, the sharpest jump since the 4.2% change in 1970. Comparative data back to 1969 are given in Table 1. Approximately one quarter (108,265) of the total sales were to new hunters or to hunters who do not hunt every year. Every province except Ontario reached a new high in sales and even in Ontario sales approached the previous record.

The harvest survey

Prior to 1972, survey results were based solely on a sample of sales from the previous year (now samples B and D). In 1972, new and inconsistent hunters became sample A because their characteristics were known to be different from regular hunters. This subdivision was further increased in 1973, when known non-Canadians from sample A were separated as sample E in northern Ontario, Manitoba, and southern Saskatchewan. It was hoped that the creation of this additional sample would improve our knowledge of the goose kill, especially in Saskatchewan and James Bay. This additional subsample of intermittent hunters was necessary because non-resident hunters who had not purchased a permit in the previous year were not necessarily as inexperienced as were those Canadians who were included in Sample A. Consequently their reports tended to inflate the indicated kill computed for the entire sample of intermittent hunters. It is

the combined results from samples A, B and D (and E where applicable) that appear in Tables 3 to 5. These are a close approximation to the results from samples A, B and D in 1972 but the results from 1971 are based solely on the equivalent of B and D (see Cooch *et al.*, 1973 for comparative data).

Table 2 shows the characteristics of the combined sample in terms of activity and success. Because of the subdivisions within this sample described above, it is not valid simply to extrapolate from this table to the results given in Tables 3, 4, and 5. Extrapolation factors are now computed for individual survey records which will permit increased flexibility in data retrieval for specialized studies. Production problems and the postal strike delayed the mailing of follow-up questionnaires by nearly a month and may have caused the drop in response rate from 60 to 52%. In 2,700 cases (all from samples B and D) the response came from hunters who were no longer active and did not buy a permit in 1973. The net response was, therefore, 41% (10,761) compared to 47% in 1972 and 32% in 1971. Characteristics of the subsamples and variations in response rate are being studied to determine their implications for increasing the efficiency of the survey.

The harvest of waterfowl and other migratory game birds is given for each province in Table 3. In general, 1973 was not a good hunting season. Nova Scotia was the only province to show both an increased harvest and an increased kill per hunter. Elsewhere, the kill per hunter dropped or remained near the 1972 figure, and any increase in total kill can be attributed to increases in the number of active hunters. Saskatchewan and Manitoba showed a particularly dramatic drop in harvest, partly due to an early freeze. Over the season, successful hunters in these two provinces shot fewer ducks per hunter than in previous years. The Canada Goose harvest showed little change from 1972, with increases in both kill and success rate in Manitoba and some declines in the Maritimes. The "Other Goose" category, however, has shown a three-fold increase in Quebec and has doubled in Ontario and southeastern Saskatchewan, indicating a recovery in 1973 production after an unsuccessful breeding season in the Arctic in 1972.

Table 4 shows 1973 estimates of average daily bag, season bag and numbers of man-days of recreation spent hunting waterfowl, and Table 5 shows the same information for the hunting of other migratory game birds. Because a hunter may hunt more than one species group, it is not possible at present to add the two tables together and derive national totals of recreational activity. This has been a problem for several years, and a major redesign of the harvest survey questionnaire is still needed before it is solved. Several experimental designs were tested in 1973 but results are not yet available.

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Table 1
Permit sales by province of residence and province of purchase, 1973

Province of residence	Province of purchase										Total residents
	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	BC	
Nfld.	27,737	2	1	2	3	2	7	2		1	27,757
PEI	1	4,935		1	1	1			4	1	4,944
NS	11	8	14,971	6	7	46	6	9	8		15,072
NB	32	4	5	12,560	9	12	9	1	2		12,634
Que.	5	4		3	55,726	142	11	21	16	1	55,929
Ont.	18	6	35	4	184	133,108	129	111	104	12	133,711
Man.	3		1	8	1	22	38,742	85	35	8	38,905
Sask.					48	17	47	47,602	75	5	47,794
Alta.				1	2	66	19	272	64,808	34	65,202
BC	1				9	16	77	304	993	32,968	34,368
NWT					1		1		13	3	18
Yukon	6			2	10	11	3	8	113	2	155
Canadian total	27,814	4,959	15,013	12,587	56,001	133,443	39,051	48,415	66,171	33,035	436,489
Non-residents	105	13	58	279	1,239	7,783	2,643	2,879	833	419	16,251
Unknown				3	7	51	17	13	8	2	101
Total 1973	27,919	4,972	15,071	12,869	57,247	141,277	41,711	51,307	67,012	33,456	452,841
1972	23,682	4,492	12,158	11,336	53,982	131,427	41,133	50,004	63,309	31,032	421,677
1971	23,460	4,513	11,381	11,146	50,276	133,563	40,960	49,448	62,902	30,225	418,237
1970	21,347	3,926	9,926	10,293	46,009	135,231	39,230	47,722	59,986	31,350	405,650
1969	19,089	3,794	8,848	10,110	39,477	134,037	41,611	45,347	53,602	32,764	389,325

Table 2
Sample selection and response to the questionnaires in the Harvest Survey, 1973

Province	Survey stratum	Total permit sales	Contacts	Characteristics of the sample							
				Total receipts		No. permit purchasers	Active hunters		Successful hunters		
				No.	%		No.	%	No.	%	
Nfld.	01	25,251	2,154	918	42.6	743	479	64.5	321	43.2	
	02	2,668	655	199	30.4	151	104	68.9	74	49.0	
	Total	27,919	2,809	1,117	39.8	894	583	65.2	395	44.2	
PEI	Total	4,972	870	303	34.8	247	193	78.1	147	59.5	
NS	01	10,547	1,247	559	44.8	457	337	73.7	274	60.0	
	02	4,524	633	340	53.7	283	224	79.2	141	49.8	
	Total	15,071	1,880	899	47.8	740	561	75.8	415	56.1	
NB	01	9,295	1,267	657	51.9	529	391	73.9	303	57.3	
	02	3,574	612	290	47.4	224	156	69.6	116	51.8	
	Total	12,869	1,879	947	50.4	753	547	72.6	419	55.6	
Que.	01	46,487	2,376	1,408	59.3	1,150	858	74.6	712	61.9	
	02	10,760	610	375	61.5	303	211	69.6	173	57.1	
	Total	57,247	2,986	1,783	59.7	1,453	1,069	73.6	885	60.9	
Ont.	01	40,689	1,857	1,063	57.2	837	633	75.6	486	58.1	
	02	74,558	1,999	1,098	54.9	912	751	82.3	591	64.8	
	03	26,030	865	446	51.6	355	267	75.2	199	56.1	
Total	141,277	4,721	2,607	55.2	2,104	1,651	78.5	1,276	60.6		
Man.	01	38,441	1,851	1,102	59.5	875	797	91.1	668	76.3	
	02	3,270	556	273	49.1	212	185	87.3	162	76.4	
	Total	41,711	2,407	1,375	57.1	1,087	982	90.3	830	76.4	
Sask.	01	19,290	1,303	701	53.8	556	502	90.3	458	82.4	
	02	9,979	610	285	46.7	231	198	85.7	183	79.2	
	03	22,038	1,360	695	51.1	535	469	87.7	423	79.1	
Total	51,307	3,273	1,681	51.4	1,322	1,169	88.4	1,064	80.5		
Alta.	01	26,733	1,496	818	54.7	624	507	81.3	437	70.0	
	02	40,279	2,033	1,048	51.5	836	693	82.9	617	73.8	
	Total	67,012	3,529	1,866	52.9	1,460	1,200	82.2	1,054	72.2	
BC	01	13,555	607	323	53.2	254	172	67.7	134	52.8	
	02	19,901	1,164	560	48.1	447	345	77.2	293	65.5	
	Total	33,456	1,771	883	49.9	701	517	73.8	427	60.9	
Canada	Total	452,841	26,125	13,461	51.5	10,761	8,472	78.7	6,912	64.2	

Table 3
Number of successful hunters and birds harvested by hunters
from samples A, B and D (and E where applicable)

Species group	Survey stratum	Successful hunters			Birds harvested			Birds per hunter		
		1971	1972	1973	1971	1972	1973	1971	1972	1973
		Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	
Newfoundland										
Sport ducks	01	7,504	7,546	9,261	39,845	46,155	56,869	5.31	6.12	6.14
	02	1,238	1,089	1,288	13,467	9,996	13,803	10.88	9.18	10.71
	Total	8,742	8,635	10,550	53,312	56,151	70,673	6.10	6.49	6.70
Canada Geese	01	1,531	1,538	1,617	3,063	7,533	4,432	2.00	4.90	2.74
	02	619	514	591	2,869	2,719	2,590	4.63	5.29	4.38
	Total	2,150	2,052	2,209	5,932	10,152	7,022	2.76	4.95	3.18
Other geese	01	92	81	169	214	128	487	2.33	1.58	2.88
	02	15	5	24	91	10	122	6.07	2.00	5.00
	Total	107	86	193	305	138	609	2.85	1.60	3.15
Sea ducks	01	2,021	3,081	3,846	15,436	24,090	33,131	7.64	7.82	8.61
	02	211	367	431	4,514	6,854	7,723	21.39	18.68	17.88
	Total	2,232	3,448	4,278	19,950	30,944	40,855	8.94	8.97	9.55
Snipe	01	3,185	2,982	3,479	13,568	18,452	17,379	4.26	6.19	4.99
	02	166	123	211	1,232	414	1,230	7.37	3.37	5.82
	Total	3,351	3,105	3,691	14,791	18,866	18,610	4.41	6.08	5.04
Prince Edward Island										
Sport ducks	01	3,027	2,555	2,465	30,466	18,203	16,043	10.07	7.12	6.51
Canada Geese	01	1,594	1,761	1,639	8,410	10,655	7,054	5.28	6.05	4.30
Other geese	01	13	43	32	13	93	32	1.00	2.16	1.00
Sea ducks	01	737	412	538	3,562	1,840	1,923	4.83	4.47	3.57
Snipe	01	482	147	234	2,571	842	905	5.33	5.73	3.86
Woodcock	01	134	58	36	295	135	60	2.20	2.33	1.65
Nova Scotia										
Sport ducks	01	3,611	3,914	3,417	46,380	35,308	45,403	12.84	9.02	13.29
	02	2,345	2,462	4,794	24,679	20,426	36,964	10.53	8.30	7.71
	Total	5,956	6,376	8,212	71,059	55,734	82,367	11.93	8.74	10.03
Canada Geese	01	1,181	1,096	711	4,792	3,742	2,922	4.06	3.41	4.11
	02	702	494	759	1,746	1,681	2,587	2.49	3.40	3.41
	Total	1,883	1,590	1,470	6,538	5,423	5,509	3.47	3.41	3.75
Other geese	01	17	41	0	17	285	0	1.00	6.95	-
	02	17	20	76	17	35	747	1.00	1.75	9.71
	Total	34	61	76	34	320	747	1.00	5.25	9.71
Sea ducks	01	3,183	2,152	1,763	26,561	18,247	23,082	8.34	8.48	13.09
	02	565	734	1,673	2,636	3,990	11,995	4.67	5.44	7.17
	Total	3,748	2,886	3,437	29,197	22,237	35,078	7.79	7.71	10.20
Snipe	01	667	448	449	3,919	2,239	1,980	5.88	5.00	4.40
	02	565	499	670	3,919	1,867	2,977	6.94	3.74	4.44
	Total	1,232	947	1,120	7,838	4,106	4,957	6.36	4.34	4.42
Woodcock	01	616	491	443	5,956	4,429	1,669	9.67	11.06	3.76
	02	274	358	588	2,807	2,043	3,569	10.24	5.71	6.07
	Total	890	849	1,032	8,763	7,472	5,238	9.85	8.80	5.08

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Table 3 (cont'd)
Number of successful hunters and birds harvested by
hunters from samples A, B and D (and E where applicable)

Species group	Survey stratum	Successful hunters			Birds harvested			Birds per hunter		
		1971	1972	1973	1971	1972	1973	1971	1972	1973
		Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	
New Brunswick										
Sport ducks	01	5,273	5,005	4,657	42,410	41,608	32,422	8.04	8.30	6.96
	02	1,704	1,600	1,954	14,212	9,501	13,324	8.34	5.94	6.82
	Total	6,977	6,605	6,612	56,622	51,109	45,747	8.12	7.74	6.92
Canada Geese	01	357	626	201	633	1,625	610	1.77	2.60	3.03
	02	633	344	412	2,077	1,408	1,383	3.28	4.09	3.36
	Total	990	970	613	2,710	3,033	1,994	2.74	3.13	3.25
Other geese	01	49	16	75	65	16	488	1.33	1.00	6.47
	02	114	106	156	341	164	664	2.99	1.55	4.23
	Total	163	122	232	406	180	1,153	2.89	1.48	4.96
Sea ducks	01	519	563	632	2,352	4,173	3,361	4.53	7.41	5.31
	02	422	358	469	2,077	1,494	2,808	4.92	4.17	5.98
	Total	941	921	1,102	4,429	5,667	6,170	4.71	6.15	5.60
Snipe	01	389	359	517	1,249	1,279	2,489	3.21	3.56	4.81
	02	178	136	121	1,298	721	837	7.29	5.30	6.92
	Total	567	495	638	2,547	2,000	3,326	4.49	4.04	5.21
Woodcock	01	665	833	1,027	4,105	7,344	10,328	6.17	8.82	10.05
	02	276	260	223	3,066	2,885	1,619	11.11	11.10	7.25
	Total	941	1,093	1,250	7,171	10,229	11,947	7.62	9.36	9.55
Quebec										
Sport ducks	01	26,823	26,354	28,308	359,513	364,381	399,929	13.40	13.83	14.13
	02	7,360	5,990	6,736	94,966	50,489	67,860	12.90	8.43	10.07
	Total	34,183	32,344	35,044	454,479	414,870	467,789	13.30	12.83	13.35
Canada Geese	01	8,645	5,328	5,269	32,631	19,118	15,471	3.77	3.59	2.94
	02	3,015	1,989	2,420	13,389	5,736	12,630	4.44	2.88	5.22
	Total	11,660	7,317	7,689	46,020	24,854	28,101	3.95	3.40	3.65
Other geese	01	2,084	1,730	3,342	13,921	6,937	21,143	6.68	4.10	6.33
	02	1,286	697	834	7,005	2,312	4,720	5.45	3.32	5.66
	Total	3,370	2,427	4,176	20,926	9,249	25,864	6.21	3.81	6.19
Sea ducks	01	2,438	1,541	1,495	17,956	8,358	11,856	7.36	5.42	7.93
	02	2,438	1,331	2,121	20,926	9,163	13,435	8.58	6.88	6.33
	Total	4,876	2,872	3,616	38,882	17,521	25,291	7.97	6.10	6.99
Coots	01	3,103	1,827	2,307	8,468	4,674	10,799	2.73	2.56	4.68
	02	488	199	261	3,901	967	918	7.99	4.86	3.52
	Total	3,591	2,026	2,568	12,369	5,641	11,718	3.44	2.78	4.56
Snipe	01	4,788	4,261	4,991	27,266	21,277	31,146	5.69	4.99	6.24
	02	1,374	1,691	1,149	17,911	7,697	6,889	13.04	4.55	5.99
	Total	6,162	5,952	6,140	45,177	28,974	38,035	7.33	4.87	6.19
Woodcock	01	4,522	4,202	5,499	29,128	28,313	30,345	6.44	6.74	5.52
	02	488	791	773	2,217	4,370	3,406	4.54	5.52	4.41
	Total	5,010	5,038*	6,272	31,345	33,134*	33,751	6.26	6.58	5.38

*Contains data to which no stratum can be assigned.

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Table 3 (cont'd)
Number of successful hunters and birds harvested by hunters from samples A, B and D (and E where applicable)

Species group	Survey stratum	Successful hunters			Birds harvested			Birds per hunter		
		1971	1972	1973	1971	1972	1973	1971	1972	1973
		Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	Samples A, B, D	
British Columbia										
Sport ducks	01	7,345	7,353	7,275	82,631	91,045	74,243	11.25	12.38	10.20
	02	8,627	9,860	11,012	145,937	169,632	177,499	16.92	17.20	16.12
	Total	15,972	17,213	18,288	228,568	260,677	251,743	14.31	15.14	13.76
Canada Geese	01	1,778	1,607	1,928	6,033	3,729	5,124	3.39	2.32	2.66
	02	787	1,508	1,943	2,273	4,071	4,962	2.89	2.70	2.55
	Total	2,565	3,115	3,872	8,306	7,800	10,087	3.24	2.50	2.61
Other geese	01	58	295	413	87	623	641	1.50	2.11	1.55
	02	437	362	420	1,691	700	1,354	3.87	1.93	3.22
	Total	495	657	833	1,778	1,323	1,995	3.59	2.01	2.39
Sea ducks	01	58	0	137	904	0	196	10.41	0	1.43
	02	612	679	745	3,060	3,536	3,423	5.00	5.21	4.59
	Total	670	679	883	3,964	3,536	3,619	5.92	5.21	4.10
Coots	01	437	422	338	1,603	2,655	2,076	3.67	6.29	6.14
	02	233	162	85	495	636	266	2.12	3.93	3.13
	Total	670	584	423	2,098	3,291	2,342	3.13	5.64	5.53
Snipe	01	204	355	148	495	2,570	579	2.43	7.24	3.89
	02	904	961	675	4,401	9,397	3,693	4.87	9.78	5.47
	Total	1,108	1,316	824	4,896	11,967	4,273	4.42	9.09	5.18
Mourning Doves	01	466	290	79	3,643	3,361	237	7.82	11.59	3.00
	02	87	362	213	146	1,772	919	1.68	4.90	4.30
	Total	553	652	292	3,789	5,133	1,156	6.85	7.87	3.95
Band-tailed Pigeons	01	175	0	34	379	0	34	2.17	0	1.00
	02	1,078	1,535	727	8,715	9,458	8,176	8.08	6.16	11.23
	Total	1,253	1,535	762	9,094	9,458	8,211	7.26	6.16	10.77

Table 4
Recreational activity provided by the hunting of ducks and geese using samples A, B and D, 1973

Province	Survey stratum	Total harvest	Total recreation-days	For active hunters			Estimated active hunters
				Average season bag	Average daily bag	Average recreation-days	
Nfld.	01	94,922	169,187	6.2	.6	11.0	15,420
	02	24,239	18,323	13.7	1.3	10.4	1,765
	Total	119,161	187,510	6.9	.6	10.9	17,185
PEI	Total	25,054	36,711	6.7	.7	9.9	3,716
NS	01	71,408	48,672	16.2	1.5	11.1	4,398
	02	52,295	61,266	7.8	.9	9.1	6,740
	Total	123,703	109,938	11.1	1.1	9.9	11,138
NB	01	36,882	37,133	6.0	1.0	6.1	6,118
	02	18,182	30,042	6.5	.6	10.7	2,795
	Total	55,064	67,175	6.2	.8	7.5	8,913
Que.	01	448,400	338,027	12.7	1.3	9.6	35,238
	02	98,647	83,558	11.8	1.2	10.0	8,338
	Total	547,047	421,585	12.6	1.3	9.7	43,576
Ont.	01	204,139	207,947	8.2	1.0	8.3	24,943
	02	450,085	448,237	6.9	1.0	6.9	65,212
	03	139,615	159,952	7.1	.9	8.1	19,696
	Total	793,839	816,136	7.2	1.0	7.4	109,851
Man.	01	268,360	192,657	8.8	1.4	6.3	30,512
	02	72,957	52,752	9.8	1.4	7.1	7,469
	Total	341,317	245,409	9.0	1.4	6.5	37,981
Sask.	01	268,824	139,541	13.3	1.9	6.9	20,204
	02	117,630	54,743	15.3	2.1	7.1	7,695
	03	202,370	120,535	11.7	1.7	6.9	17,368
	Total	588,824	314,819	13.0	1.9	7.0	45,267
Alta.	01	357,609	190,395	13.0	1.9	6.9	27,459
	02	576,010	288,261	17.1	2.0	8.6	33,673
	Total	933,619	478,656	15.3	2.0	7.8	61,132
BC	01	80,206	58,927	8.6	1.4	6.3	9,327
	02	187,239	129,029	14.2	1.5	9.8	13,146
	Total	267,445	187,956	11.9	1.4	8.4	22,473

Table 5

Recreational activity provided by the hunting of coots, snipe, woodcock, pigeons, doves and cranes, using samples A, B and D, 1973

Province	Survey stratum	Total harvest	Total recreation-days	For active hunters			Estimated active hunters
				Average season bag	Average daily bag	Average recreation-days	
Nfld.	01	17,379	40,119	3.2	.4	7.3	5,514
	02	1,230	2,696	2.9	.5	6.4	423
	Total	18,609	42,815	3.1	.4	7.2	5,937
PEI	Total	965	2,530	1.9	.4	5.0	506
NS	01	3,649	13,206	1.8	.3	6.5	2,025
	02	6,546	13,267	3.1	.5	6.2	2,142
	Total	10,195	26,473	2.4	.4	6.4	4,167
NB	01	12,817	12,998	6.3	1.0	6.4	2,021
	02	2,456	5,274	3.9	.5	8.4	631
	Total	15,273	18,272	5.8	.8	6.9	2,652
Que.	01	72,290	64,843	6.7	1.1	6.0	10,814
	02	11,215	20,566	4.6	.5	8.5	2,418
	Total	83,505	85,409	6.3	1.0	6.5	13,232
Ont.	01	33,484	42,921	4.2	.8	5.4	7,882
	02	33,059	83,941	2.5	.4	6.4	13,064
	03	9,144	17,029	3.2	.5	6.0	2,858
	Total	75,687	143,891	3.2	.5	6.0	23,804
Man.	01	2,858	9,095	1.2	.3	3.7	2,485
	02	2,169	2,684	3.8	.8	4.7	569
	Total	5,027	11,779	1.6	.4	3.9	3,054
Sask.	01	5,259	10,033	2.1	.5	4.0	2,481
	02	3,669	4,520	4.0	.8	4.9	926
	03	3,958	4,242	2.1	.9	2.2	1,923
	Total	12,886	18,795	2.4	.7	3.5	5,330
Alta.	01	4,706	8,146	1.8	.6	3.2	2,547
	02	8,239	14,704	2.6	.6	4.6	3,213
	Total	12,945	22,850	2.2	.6	4.0	5,760
BC	01	2,928	6,346	3.2	.5	6.9	923
	02	13,055	9,853	6.0	1.3	4.5	2,184
	Total	15,983	16,199	5.1	1.0	5.2	3,107