

Catalogue no. 51-007-X

Aircraft Movement Statistics: NAV CANADA Towers and Flight Service Stations (TP 141)



August 2012



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Statistics Canada
Transportation Division

Aircraft Movement Statistics: NAV CANADA Towers and Flight Service Stations (TP 141)

August 2012

Published by authority of the Minister responsible for Statistics Canada

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September 2012

Catalogue no. 51-007-X

ISSN 1911-6314

Frequency: Monthly

Ottawa

Cette publication est également disponible en français.

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- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published
- * significantly different from reference category ($p < 0.05$)

Acknowledgements

Statistics Canada would like to thank all of the respondents and data suppliers whose participation has enabled us to provide the statistical information contained in this publication.

The information found in this publication could not have been produced if not for the cooperation of our respondents and data suppliers.

This publication was prepared by the Aviation Statistics Centre, of the Transportation Division, Statistics Canada under the general direction of **Fred Barzyk**, Director, Transportation Division and **Norah Hillary**, Chief, Aviation Statistics Centre. **Kathie Davidson**, **Rose Krakower**, **Conrad Ogrodnik**, **John Scolli** and **Bev Pomfret** contributed to the preparation of this publication.

Table of contents

Highlights	5
Analysis	6
Related products	7
Statistical tables	
1 Total aircraft movements by class of operation	11
1-1 NAV CANADA towers	11
1-2 NAV CANADA flight service stations	12
2 Total aircraft movements, civil and military	13
2-1 NAV CANADA towers	13
2-2 NAV CANADA flight service stations	14
3 Itinerant movements by type of operator	15
3-1 NAV CANADA towers	15
3-2 NAV CANADA flight service stations	16
4 Itinerant movements by I.F.R. (Instrument flight rules) and V.F.R. (Visual flight rules) and runway 88 movements	17
4-1 NAV CANADA towers	17
4-2 NAV CANADA flight service stations	18
5 Itinerant movements by type of power plant	19
5-1 NAV CANADA towers	19
5-2 NAV CANADA flight service stations	20
6 Itinerant movements by aircraft weight group	21
6-1 NAV CANADA towers	21
6-2 NAV CANADA flight service stations	22
7 Itinerant movements, domestic, transborder and international	23
7-1 NAV CANADA towers	23
7-2 NAV CANADA flight service stations	27

Table of contents – continued

8	Total aircraft movements, peak hour and peak day	32
8-1	NAV CANADA towers	32
8-2	NAV CANADA flight service stations	33
9	Itinerant aircraft movements, peak hour and peak day	34
9-1	NAV CANADA towers	34
9-2	NAV CANADA flight service stations	35
10	Local movements, peak hour and peak day	36
10-1	NAV CANADA towers	36
10-2	NAV CANADA flight service stations	37
11	Local movements - civil, peak hour and peak day	38
11-1	NAV CANADA towers	38
11-2	NAV CANADA flight service stations	39
12	Local movements - military, peak hour and peak day	40
12-1	NAV CANADA towers	40
12-2	NAV CANADA flight service stations	41
Data quality, concepts and methodology		
	Methodology	42
	Data quality and limitations	44
Appendix		
I	Factors influencing the data	45
II	Glossary of terms	47

Highlights

There were 536,865 aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in August 2012 compared with 541,751 movements in August 2011.

Itinerant movements (flights from one airport to another) declined (-195 movements) in August 2012 from the same month in 2011. These airports reported 401,534 movements compared with 401,729 movements in August 2011.

There were 135,331 local movements (flights that remain in the vicinity of the airport) in August 2012 compared with 140,022 movements in August 2011.

Table 1
Distribution of aircraft movements at NAV CANADA Towers and Flight Service Stations

	NAV CANADA towers	Percentage change, August 2011 to August 2012	NAV CANADA Flight Service Stations	Percentage change, August 2011 to August 2012	Total	Percentage change, August 2011 to August 2012
	number	percent	number	percent	number	percent
Grand total	420,078	-2.1	116,787	3.5	536,865	-0.9
Itinerant movements						
Air carriers	234,423	-1.4	68,020	3.9	302,443	-0.2
Other commercial movements	31,224	9.7	4,844	4.4	36,068	8.9
Private movements	36,825	-4.4	14,692	-4.5	51,517	-4.4
Government civil movements	4,449	-5.7	2,378	-7.5	6,827	-6.4
Government military movements	3,230	-1.2	1,449	47.3	4,679	10.0
Itinerant total	310,151	-0.8	91,383	2.6	401,534	0.0
Local movements						
Civil local movements	109,279	-5.5	25,193	7.2	134,472	-3.4
Military local movements	648	4.5	211	-18.2	859	-2.2
Local total	109,927	-5.5	25,404	6.9	135,331	-3.4

Analysis

There were 536,865 aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in August 2012 compared with 541,751 movements in August 2011. Year-over-year increases were reported by 50 airports. Toronto/Lester B. Pearson International, Ontario (40,076 movements) and Vancouver International, British Columbia (28,798 movements) were the most active sites in August.

Itinerant movements (flights from one airport to another) declined (-195 movements) in August 2012 from the same month in 2011. These airports reported 401,534 movements compared with 401,729 movements in August 2011. Year-over-year variations ranged from an increase of 2,722 movements (+51.2%) at Fort McMurray, Alberta to a drop of 1,324 movements (-19.9%) at Vancouver Harbour, British Columbia. Fifty-one airports reported year-over-year increases in the number of itinerant aircraft movements in August 2012.

In August 2012, there were 135,331 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 3.4% (-4,691 movements) compared with the previous year. Boundary Bay, British Columbia (12,800 movements) and Toronto/Buttonville Municipal, Ontario (8,092 movements) recorded the largest number of local movements.

Itinerant movements: domestic, transborder and international

There were 342,519 domestic itinerant movements reported by 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in August 2012, down 0.9% (-3,024 movements) from August 2011. Vancouver International, British Columbia (21,655 movements) and Toronto/Lester B. Pearson International, Ontario (17,776 movements) reported the greatest number of domestic itinerant movements. Forty-nine airports reported year-over-year increases in the number of domestic movements in August 2012.

Eighty-eight airports recorded 47,646 transborder itinerant movements (between Canada and the United States) in August 2012, up 5.9% from the same month in 2011. Toronto/Lester B. Pearson International, Ontario (16,747 movements) reported the greatest number of transborder itinerant movements.

In August 2012, thirty-seven airports reported 11,369 other international itinerant movements, up 1.7% from August 2011. Toronto/Lester B. Pearson International, Ontario, recorded 5,477 other international itinerant movements. This represents 48.2% of the total other international itinerant movements reported.

Related products

Selected publications from Statistics Canada

51-008-X	Aircraft Movement Statistics: Airports Without Air Traffic Control Towers (TP 141)
51-203-X	Air Carrier Traffic at Canadian Airports
51-206-X	Canadian Civil Aviation
51-209-X	Aircraft Movement Statistics: NAV CANADA Towers and Flight Service Stations: Annual Report (TP 577)
51-210-X	Aircraft Movement Statistics: Airports Without Air Traffic Control Towers: Annual Report (TP 577)

Selected CANSIM tables from Statistics Canada

401-0007	Aircraft movements, by class of operation and peak hour and peak day of movements, airports with NAV CANADA towers, monthly
401-0008	Aircraft movements, by civil and military movements, airports with NAV CANADA towers, monthly
401-0009	Itinerant movements, by type of operation, airports with NAV CANADA towers, monthly
401-0010	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA towers, monthly
401-0011	Itinerant movements, by type of power plant, airports with NAV CANADA towers, monthly
401-0012	Itinerant movements, by aircraft maximum take-off weight, airports with NAV CANADA towers, monthly
401-0013	Domestic and international itinerant movements, by type of operation, airports with NAV CANADA towers, monthly
401-0014	Aircraft movements, by class of operation and peak hour and peak day of movements, airports with NAV CANADA flight service stations, monthly
401-0015	Aircraft movements, by civil and military movements, airports with NAV CANADA flight service stations, monthly
401-0016	Itinerant movements, by type of operation, airports with NAV CANADA flight service stations, monthly
401-0017	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA flight service stations, monthly

401-0018	Itinerant movements, by type of power plant, airports with NAV CANADA flight service stations, monthly
401-0019	Itinerant movements, by aircraft maximum take-off weight, airports with NAV CANADA flight service stations, monthly
401-0020	Domestic and international itinerant movements, by type of operation, airports with NAV CANADA flight service stations, monthly
401-0021	Monthly aircraft movements, by class of operation and type of operation, airports without air traffic control towers
401-0022	Monthly itinerant movements, by weight group and type of power plant, airports without air traffic control towers
401-0023	Aircraft movements, by class of operation, airports with NAV CANADA towers, annual
401-0024	Aircraft movements, by civil and military movements, airports with NAV CANADA towers, annual
401-0025	Itinerant movements, by type of operation, airports with NAV CANADA towers, annual
401-0026	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA towers, annual
401-0027	Itinerant movements, by type of power plant, airports with NAV CANADA towers, annual
401-0028	Itinerant movements, by aircraft maximum take-off weight, airports with NAV CANADA towers, annual
401-0029	Domestic and international itinerant movements, by type of operation, airports with NAV CANADA towers, annual
401-0030	Aircraft movements, by class of operation, airports with NAV CANADA flight service stations, annual
401-0031	Aircraft movements, by civil and military movements, airports with NAV CANADA flight service stations, annual
401-0032	Itinerant movements, by type of operation, airports with NAV CANADA flight service stations, annual
401-0033	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA flight service stations, annual
401-0034	Itinerant movements, by type of power plant, airports with NAV CANADA flight service stations, annual

401-0035	Itinerant movements, by aircraft maximum take-off weight, airports with NAV CANADA flight service stations, annual
401-0036	Domestic and international itinerant movements, by type of operation, airports with NAV CANADA flight service stations, annual
401-0037	Annual aircraft movements, by class of operation and type of operation, airports without air traffic control towers
401-0038	Annual itinerant movements, by weight group and type of power plant, airports without air traffic control towers

Selected surveys from Statistics Canada

2715	Aircraft Movement Statistics
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Selected summary tables from Statistics Canada

- *Aircraft movements by class of operation (monthly)*

Statistical tables

Table 1-1
Total aircraft movements by class of operation — NAV CANADA towers

	Total		Itinerant		Local	
	Rank of movements	Number of movements	Rank of movements	Number of movements	Rank of movements	Number of movements
Abbotsford	21	8,098	31	3,588	8	4,510
Boundary Bay	4	21,493	11	8,693	1	12,800
Calgary International	3	21,571	3	21,405	39	166
Calgary/Springbank	7	13,359	18	5,923	3	7,436
Chicoutimi/St-Honoré	27	6,381	39	2,051	9	4,330
Edmonton City Centre	32	5,260	20	4,902	33	358
Edmonton International	10	12,397	5	12,081	34	316
Edmonton/Villeneuve	34	4,715	42	1,275	14	3,440
Fort McMurray	19	8,733	12	8,043	29	690
Fredericton International	22	8,047	29	3,797	11	4,250
Gander International	40	2,890	40	2,004	27	886
Halifax/Robert L. Stanfield International	23	7,984	13	7,704	35	280
Hamilton	38	3,490	36	2,634	28	856
Kelowna	25	6,773	21	4,849	21	1,924
Kitchener/Waterloo	18	9,059	23	4,405	7	4,654
Langley	24	6,950	32	3,444	13	3,506
London	26	6,673	24	4,261	19	2,412
Moncton/Greater Moncton International	36	4,559	34	3,289	24	1,270
Montréal/Pierre Elliott Trudeau International	5	21,016	4	20,816	38	200
Montréal/St-Hubert	9	12,960	15	6,672	4	6,288
Oshawa	28	6,195	26	3,931	20	2,264
Ottawa/Macdonald-Cartier International	12	12,043	6	11,023	25	1,020
Pitt Meadows	15	10,327	25	4,245	5	6,082
Prince George	41	2,612	38	2,334	36	278
Québec/Jean Lesage International	11	12,079	10	8,741	15	3,338
Regina International	29	5,407	27	3,844	22	1,563
Saskatoon/John G. Diefenbaker International	20	8,511	16	6,033	18	2,478
Sault Ste. Marie	31	5,276	35	2,738	17	2,538
St. John's International	37	4,040	28	3,832	37	208
St-Jean	35	4,676	33	3,322	23	1,354
Thunder Bay	16	10,306	17	6,014	10	4,292
Toronto/Billy Bishop Toronto City	13	11,913	9	8,757	16	3,156
Toronto/Buttonville Municipal	6	15,189	14	7,097	2	8,092
Toronto/Lester B. Pearson International	1	40,076	1	40,000	40	76
Vancouver Harbour	30	5,351	19	5,343	42	8
Vancouver International	2	28,798	2	28,732	41	66
Victoria International	8	13,264	8	9,308	12	3,956
Whitehorse International	39	2,929	37	2,343	31	586
Windsor	42	2,494	41	1,820	30	674
Winnipeg/James Armstrong Richardson International	14	11,694	7	10,690	26	1,004
Winnipeg/St. Andrews	17	9,455	30	3,603	6	5,852
Yellowknife	33	5,035	22	4,565	32	470
Total of NAV CANADA towers (42)	.	420,078	.	310,151	.	109,927

Table 1-2
Total aircraft movements by class of operation — NAV CANADA flight service stations

	Total		Itinerant		Local	
	Rank of movements	Number of movements	Rank of movements	Number of movements	Rank of movements	Number of movements
Brandon Municipal	38	1,600	47	834	14	766
Campbell River	10	3,510	11	2,498	10	1,012
Castlegar	46	1,006	44	976	41	30
Charlottetown	36	1,616	33	1,508	30	108
Churchill	47	946	46	932	45	14
Cranbrook	39	1,368	36	1,308	36	60
Deer Lake	32	1,818	22	1,782	40	36
Fort Nelson	5	3,875	1	3,715	28	160
Fort St. John	12	3,112	13	2,478	15	634
Grande Prairie	9	3,635	4	2,775	13	860
High Level	27	1,927	20	1,831	31	96
Îles-de-la-Madeleine	50	583	50	583	0	0
Inuvik/Mike Zubko	25	2,036	18	2,018	42	18
Iqaluit	22	2,337	16	2,169	27	168
Kamloops	4	4,133	5	2,773	5	1,360
Kenora	44	1,187	38	1,187	0	0
Kingston	13	3,005	24	1,739	7	1,266
Kuujuuaq	28	1,911	27	1,655	22	256
La Grande Rivière	49	691	49	681	46	10
La Ronge	29	1,898	23	1,756	29	142
Lethbridge	19	2,573	32	1,557	9	1,016
Lloydminster	42	1,282	45	960	21	322
Medicine Hat	18	2,600	26	1,702	12	898
Mont-Joli	48	799	48	799	0	0
Montréal/Mirabel International	21	2,383	43	987	4	1,396
Nanaimo	8	3,641	12	2,491	8	1,150
Norman Wells	40	1,348	35	1,332	44	16
North Bay	6	3,665	19	1,955	3	1,710
Ottawa/Gatineau	1	5,716	31	1,588	1	4,128
Peace River	45	1,166	41	1,084	33	82
Penticton	24	2,196	30	1,620	17	576
Port Hardy	31	1,841	21	1,823	43	18
Prince Albert	23	2,198	17	2,130	35	68
Prince Rupert	51	413	51	361	38	52
Rankin Inlet	33	1,714	25	1,714	0	0
Red Deer Regional	2	4,510	7	2,702	2	1,808
Rouyn-Noranda	34	1,709	37	1,305	18	404
Saint John	37	1,600	34	1,360	25	240
Sept-Îles	14	2,898	8	2,654	23	244
Sioux Lookout	17	2,728	9	2,636	32	92
Smithers	41	1,318	40	1,146	26	172
St. Catharines	7	3,649	14	2,371	6	1,278
Sudbury	3	4,367	2	3,417	11	950
Terrace	30	1,894	28	1,652	24	242
Thompson	16	2,796	6	2,724	34	72
Timmins	20	2,384	15	2,342	39	42
Val-d'Or	26	2,023	29	1,637	19	386
Victoria Harbour	11	3,371	3	3,365	47	6
Wabush	15	2,880	10	2,504	20	376
Whitecourt	35	1,686	42	1,082	16	604
Williams Lake	43	1,245	39	1,185	37	60
Total of all flight service stations (51)	.	116,787	.	91,383	.	25,404

Table 2-1
Total aircraft movements, civil and military — NAV CANADA towers

	Civil movements			Military movements				
	Total	Itinerant		Local	Total	Itinerant		Local
		Commercial	Private and government					
	number							
Abbotsford	7,799	2,102	1,281	4,416	299	205	94	
Boundary Bay	21,475	6,728	1,947	12,800	18	18	0	
Calgary International	21,501	19,873	1,462	166	70	70	0	
Calgary/Springbank	13,323	3,993	1,894	7,436	36	36	0	
Chicoutimi/St-Honoré	6,381	1,768	283	4,330	0	0	0	
Edmonton City Centre	5,245	3,183	1,704	358	15	15	0	
Edmonton International	12,347	11,225	812	310	50	44	6	
Edmonton/Villeneuve	4,704	669	595	3,440	11	11	0	
Fort McMurray	8,725	7,047	994	684	8	2	6	
Fredericton International	8,020	3,568	202	4,250	27	27	0	
Gander International	2,720	1,504	330	886	170	170	0	
Halifax/Robert L. Stanfield International	7,844	7,131	437	276	140	136	4	
Hamilton	3,486	2,043	587	856	4	4	0	
Kelowna	6,619	3,726	1,015	1,878	154	108	46	
Kitchener/Waterloo	9,051	3,192	1,205	4,654	8	8	0	
Langley	6,937	2,019	1,412	3,506	13	13	0	
London	6,669	3,411	846	2,412	4	4	0	
Moncton/Greater Moncton International	4,551	2,762	525	1,264	8	2	6	
Montréal/Pierre Elliott Trudeau International	21,001	19,536	1,267	198	15	13	2	
Montréal/St-Hubert	12,869	5,176	1,405	6,288	91	91	0	
Oshawa	6,183	2,863	1,056	2,264	12	12	0	
Ottawa/Macdonald-Cartier International	11,895	10,230	647	1,018	148	146	2	
Pitt Meadows	10,327	2,355	1,890	6,082	0	0	0	
Prince George	2,602	1,782	542	278	10	10	0	
Québec/Jean Lesage International	11,971	7,039	1,614	3,318	108	88	20	
Regina International	5,069	3,040	736	1,293	338	68	270	
Saskatoon/John G. Diefenbaker International	8,206	4,861	1,011	2,334	305	161	144	
Sault Ste. Marie	5,264	2,462	264	2,538	12	12	0	
St. John's International	3,890	3,303	381	206	150	148	2	
St-Jean	3,695	483	1,858	1,354	981	981	0	
Thunder Bay	10,223	5,409	544	4,270	83	61	22	
Toronto/Billy Bishop Toronto City	11,905	7,981	768	3,156	8	8	0	
Toronto/Buttonville Municipal	15,187	4,116	2,981	8,090	2	0	2	
Toronto/Lester B. Pearson International	40,024	38,917	1,031	76	52	52	0	
Vancouver Harbour	5,347	5,214	125	8	4	4	0	
Vancouver International	28,782	27,508	1,208	66	16	16	0	
Victoria International	13,107	7,124	2,039	3,944	157	145	12	
Whitehorse International	2,898	1,875	445	578	31	23	8	
Windsor	2,494	1,360	460	674	0	0	0	
Winnipeg/James Armstrong Richardson International	11,447	9,639	806	1,002	247	245	2	
Winnipeg/St. Andrews	9,453	3,174	427	5,852	2	2	0	
Yellowknife	4,964	4,256	238	470	71	71	0	
Total of NAV CANADA towers (42)	416,200	265,647	41,274	109,279	3,878	3,230	648	

Table 2-2
Total aircraft movements, civil and military — NAV CANADA flight service stations

	Civil movements			Military movements				
	Total	Itinerant		Local	Total	Itinerant		Local
		Commercial	Private and government					
	number							
Brandon Municipal	1,568	456	350	762	32	28	4	
Campbell River	3,499	1,602	885	1,012	11	11	0	
Castlegar	1,006	861	115	30	0	0	0	
Charlottetown	1,488	1,044	364	80	128	100	28	
Churchill	865	790	61	14	81	81	0	
Cranbrook	1,346	883	403	60	22	22	0	
Deer Lake	1,799	1,616	147	36	19	19	0	
Fort Nelson	3,826	3,477	189	160	49	49	0	
Fort St. John	3,052	2,049	369	634	60	60	0	
Grande Prairie	3,629	2,207	562	860	6	6	0	
High Level	1,925	1,690	139	96	2	2	0	
Îles-de-la-Madeleine	579	471	108	0	4	4	0	
Inuvik/Mike Zubko	1,764	1,673	73	18	272	272	0	
Iqaluit	2,293	1,894	231	168	44	44	0	
Kamloops	4,118	2,189	570	1,359	15	14	1	
Kenora	1,158	872	286	0	29	29	0	
Kingston	2,966	1,201	499	1,266	39	39	0	
Kuujuuaq	1,905	1,482	167	256	6	6	0	
La Grande Rivière	691	619	62	10	0	0	0	
La Ronge	1,898	1,355	401	142	0	0	0	
Lethbridge	2,396	933	569	894	177	55	122	
Lloydminster	1,264	474	468	322	18	18	0	
Medicine Hat	2,562	1,209	455	898	38	38	0	
Mont-Joli	794	701	93	0	5	5	0	
Montréal/Mirabel International	2,349	792	173	1,384	34	22	12	
Nanaimo	3,625	1,341	1,136	1,148	16	14	2	
Norman Wells	1,340	1,225	99	16	8	8	0	
North Bay	3,551	1,381	468	1,702	114	106	8	
Ottawa/Gatineau	5,707	884	695	4,128	9	9	0	
Peace River	1,166	985	99	82	0	0	0	
Penticton	2,155	1,026	553	576	41	41	0	
Port Hardy	1,823	1,615	194	14	18	14	4	
Prince Albert	2,163	1,645	450	68	35	35	0	
Prince Rupert	412	246	114	52	1	1	0	
Rankin Inlet	1,706	1,692	14	0	8	8	0	
Red Deer Regional	4,447	1,740	903	1,804	63	59	4	
Rouyn-Noranda	1,695	1,029	262	404	14	14	0	
Saint John	1,592	899	457	236	8	4	4	
Sept-Îles	2,892	2,362	286	244	6	6	0	
Sioux Lookout	2,709	2,509	108	92	19	19	0	
Smithers	1,318	994	152	172	0	0	0	
St. Catharines	3,554	1,516	760	1,278	95	95	0	
Sudbury	4,356	2,781	625	950	11	11	0	
Terrace	1,894	1,484	168	242	0	0	0	
Thompson	2,794	2,493	229	72	2	2	0	
Timmins	2,380	2,044	294	42	4	4	0	
Val-d'Or	1,952	1,181	407	364	71	49	22	
Victoria Harbour	3,359	3,268	85	6	12	12	0	
Wabush	2,880	2,192	312	376	0	0	0	
Whitecourt	1,678	881	193	604	8	8	0	
Williams Lake	1,239	911	268	60	6	6	0	
Total of all flight service stations (51)	115,127	72,864	17,070	25,193	1,660	1,449	211	

Table 3-1
Itinerant movements by type of operator — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Abbotsford	3,588	447	1,526	129	1,201	80	205
Boundary Bay	8,693	3	1,207	5,518	1,928	19	18
Calgary International	21,405	18,444	993	436	1,334	128	70
Calgary/Springbank	5,923	29	558	3,406	1,883	11	36
Chicoutimi/St-Honoré	2,051	611	35	1,122	281	2	0
Edmonton City Centre	4,902	1,162	693	1,328	1,086	618	15
Edmonton International	12,081	10,884	223	118	808	4	44
Edmonton/Villeneuve	1,275	0	63	606	591	4	11
Fort McMurray	8,043	2,058	4,503	486	948	46	2
Fredericton International	3,797	1,027	2,528	13	164	38	27
Gander International	2,004	1,433	56	15	263	67	170
Halifax/Robert L. Stanfield International	7,704	6,748	375	8	400	37	136
Hamilton	2,634	1,787	144	112	291	296	4
Kelowna	4,849	3,104	285	337	933	82	108
Kitchener/Waterloo	4,405	459	2,672	61	1,200	5	8
Langley	3,444	1	187	1,831	1,397	15	13
London	4,261	1,285	512	1,614	795	51	4
Moncton/Greater Moncton International	3,289	1,839	900	23	333	192	2
Montréal/Pierre Elliott Trudeau International	20,816	18,507	990	39	1,093	174	13
Montréal/St-Hubert	6,672	2,868	853	1,455	1,334	71	91
Oshawa	3,931	74	116	2,673	913	143	12
Ottawa/Macdonald-Cartier International	11,023	8,182	347	1,701	367	280	146
Pitt Meadows	4,245	13	1,621	721	1,882	8	0
Prince George	2,334	1,214	539	29	502	40	10
Québec/Jean Lesage International	8,741	4,351	2,076	612	1,262	352	88
Regina International	3,844	2,146	858	36	609	127	68
Saskatoon/John G. Diefenbaker International	6,033	3,533	867	461	701	310	161
Sault Ste. Marie	2,738	1,004	60	1,398	214	50	12
St. John's International	3,832	2,911	382	10	173	208	148
St-Jean	3,322	20	213	250	1,858	0	981
Thunder Bay	6,014	3,610	306	1,493	431	113	61
Toronto/Billy Bishop Toronto City	8,757	5,371	1,140	1,470	760	8	8
Toronto/Buttonville Municipal	7,097	201	3,842	73	2,866	115	0
Toronto/Lester B. Pearson International	40,000	38,284	606	27	1,019	12	52
Vancouver Harbour	5,343	4,776	436	2	123	2	4
Vancouver International	28,732	25,331	2,087	90	1,002	206	16
Victoria International	9,308	3,487	3,180	457	1,994	45	145
Whitehorse International	2,343	1,107	679	89	423	22	23
Windsor	1,820	631	650	79	450	10	0
Winnipeg/James Armstrong Richardson International	10,690	9,193	363	83	454	352	245
Winnipeg/St. Andrews	3,603	658	1,725	791	427	0	2
Yellowknife	4,565	3,631	603	22	132	106	71
Total of NAV CANADA towers (42)	310,151	192,424	41,999	31,224	36,825	4,449	3,230

Table 3-2
Itinerant movements by type of operator — NAV CANADA flight service stations

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Brandon Municipal	834	149	247	60	326	24	28
Campbell River	2,498	720	563	319	873	12	11
Castlegar	976	302	482	77	84	31	0
Charlottetown	1,508	978	47	19	352	12	100
Churchill	932	690	46	54	27	34	81
Cranbrook	1,308	623	223	37	397	6	22
Deer Lake	1,782	1,522	90	4	57	90	19
Fort Nelson	3,715	542	2,890	45	189	0	49
Fort St. John	2,478	846	1,112	91	346	23	60
Grande Prairie	2,775	1,186	869	152	546	16	6
High Level	1,831	462	1,176	52	97	42	2
Îles-de-la-Madeleine	583	382	89	0	47	61	4
Inuvik/Mike Zubko	2,018	1,211	462	0	30	43	272
Iqaluit	2,169	1,669	188	37	86	145	44
Kamloops	2,773	949	973	267	523	47	14
Kenora	1,187	442	246	184	267	19	29
Kingston	1,739	439	485	277	481	18	39
Kuujuuaq	1,655	1,059	353	70	127	40	6
La Grande Rivière	681	451	156	12	40	22	0
La Ronge	1,756	1,298	55	2	119	282	0
Lethbridge	1,557	419	68	446	553	16	55
Lloydminster	960	199	240	35	446	22	18
Medicine Hat	1,702	517	216	476	437	18	38
Mont-Joli	799	509	176	16	73	20	5
Montréal/Mirabel International	987	738	50	4	173	0	22
Nanaimo	2,491	462	791	88	1,114	22	14
Norman Wells	1,332	758	467	0	79	20	8
North Bay	1,955	730	477	174	415	53	106
Ottawa/Gatineau	1,588	198	514	172	678	17	9
Peace River	1,084	419	538	28	83	16	0
Penticton	1,620	352	619	55	529	24	41
Port Hardy	1,823	1,350	243	22	160	34	14
Prince Albert	2,130	1,544	79	22	261	189	35
Prince Rupert	361	223	13	10	74	40	1
Rankin Inlet	1,714	1,122	570	0	12	2	8
Red Deer Regional	2,702	291	1,213	236	889	14	59
Rouyn-Noranda	1,305	713	190	126	237	25	14
Saint John	1,360	727	116	56	447	10	4
Sept-Îles	2,654	1,393	935	34	179	107	6
Sioux Lookout	2,636	2,077	151	281	83	25	19
Smithers	1,146	581	364	49	147	5	0
St. Catharines	2,371	24	1,444	48	732	28	95
Sudbury	3,417	1,693	603	485	432	193	11
Terrace	1,652	688	775	21	142	26	0
Thompson	2,724	2,115	367	11	59	170	2
Timmins	2,342	1,883	147	14	149	145	4
Val-d'Or	1,637	886	240	55	355	52	49
Victoria Harbour	3,365	3,204	64	0	16	69	12
Wabush	2,504	1,725	429	38	287	25	0
Whitecourt	1,082	26	795	60	177	16	8
Williams Lake	1,185	444	444	23	260	8	6
Total of all flight service stations (51)	91,383	43,930	24,090	4,844	14,692	2,378	1,449

Table 4-1
Itinerant movements by I.F.R. (Instrument flight rules) and V.F.R. (Visual flight rules) and runway 88 movements
— NAV CANADA towers

	Itinerant movements					Runway 88
	Total of IFR and VFR flights ¹	Instrument Flight Rules	Percentage Instrument Flight Rules	Visual Flight Rules	Percentage Visual Flight Rules	
	number		percent	number	percent	
Abbotsford	3,588	684	19.0	2,904	80.9	2,549
Boundary Bay	8,693	321	3.6	8,372	96.3	1,151
Calgary International	21,405	20,282	94.7	1,123	5.2	406
Calgary/Springbank	5,923	501	8.4	5,422	91.5	219
Chicoutimi/St-Honoré	2,051	142	6.9	1,909	93.0	155
Edmonton City Centre	4,902	1,915	39.0	2,987	60.9	1,586
Edmonton International	12,081	11,700	96.8	381	3.1	880
Edmonton/Villeneuve	1,275	94	7.3	1,181	92.6	94
Fort McMurray	8,043	2,391	29.7	5,652	70.2	447
Fredericton International	3,797	1,145	30.1	2,652	69.8	164
Gander International	2,004	1,166	58.1	838	41.8	194
Halifax/Robert L. Stanfield International	7,704	7,384	95.8	320	4.1	382
Hamilton	2,634	2,004	76.0	630	23.9	1,139
Kelowna	4,849	3,004	61.9	1,845	38.0	1,534
Kitchener/Waterloo	4,405	733	16.6	3,672	83.3	1,006
Langley	3,444	22	0.6	3,422	99.3	1,577
London	4,261	1,514	35.5	2,747	64.4	656
Moncton/Greater Moncton International	3,289	2,060	62.6	1,229	37.3	163
Montréal/Pierre Elliott Trudeau International	20,816	20,221	97.1	595	2.8	1,462
Montréal/St-Hubert	6,672	1,869	28.0	4,803	71.9	1,016
Oshawa	3,931	172	4.3	3,759	95.6	709
Ottawa/Macdonald-Cartier International	11,023	8,804	79.8	2,219	20.1	1,205
Pitt Meadows	4,245	49	1.1	4,196	98.8	2,884
Prince George	2,334	1,382	59.2	952	40.7	489
Québec/Jean Lesage International	8,741	5,591	63.9	3,150	36.0	1,394
Regina International	3,844	2,519	65.5	1,325	34.4	268
Saskatoon/John G. Diefenbaker International	6,033	4,074	67.5	1,959	32.4	465
Sault Ste. Marie	2,738	1,162	42.4	1,576	57.5	128
St. John's International	3,832	3,536	92.2	296	7.7	193
St-Jean	3,322	10	0.3	3,312	99.6	3,669
Thunder Bay	6,014	3,850	64.0	2,164	35.9	256
Toronto/Billy Bishop Toronto City	8,757	5,699	65.0	3,058	34.9	2,446
Toronto/Buttonville Municipal	7,097	744	10.4	6,353	89.5	1,624
Toronto/Lester B. Pearson International	40,000	39,874	99.6	126	0.3	295
Vancouver Harbour	5,343	62	1.1	5,281	98.8	3,572
Vancouver International	28,732	23,553	81.9	5,179	18.0	6,211
Victoria International	9,308	3,907	41.9	5,401	58.0	5,026
Whitehorse International	2,343	834	35.5	1,509	64.4	771
Windsor	1,820	714	39.2	1,106	60.7	119
Winnipeg/James Armstrong Richardson International	10,690	9,528	89.1	1,162	10.8	523
Winnipeg/St. Andrews	3,603	101	2.8	3,502	97.1	138
Yellowknife	4,565	2,346	51.3	2,219	48.6	1,198
Total of NAV CANADA towers (42)	310,151	197,663	63.7	112,488	36.3	50,363

1. Total excludes runway 88 flights.

Table 4-2
Itinerant movements by I.F.R. (Instrument flight rules) and V.F.R. (Visual flight rules) and runway 88 movements — NAV CANADA flight service stations

	Itinerant movements					Runway 88
	Total of IFR and VFR flights ¹	Instrument Flight Rules	Percentage Instrument Flight Rules	Visual Flight Rules	Percentage Visual Flight Rules	
	number		percent	number	percent	
Brandon Municipal	834	227	27.2	607	72.7	283
Campbell River	2,498	611	24.4	1,887	75.5	1,134
Castlegar	976	290	29.7	686	70.2	138
Charlottetown	1,508	1,164	77.1	344	22.8	101
Churchill	932	768	82.4	164	17.5	236
Cranbrook	1,308	690	52.7	618	47.2	400
Deer Lake	1,782	1,590	89.2	192	10.7	59
Fort Nelson	3,715	568	15.2	3,147	84.7	156
Fort St. John	2,478	939	37.8	1,539	62.1	193
Grande Prairie	2,775	1,395	50.2	1,380	49.7	235
High Level	1,831	233	12.7	1,598	87.2	335
Îles-de-la-Madeleine	583	544	93.3	39	6.6	13
Inuvik/Mike Zubko	2,018	445	22.0	1,573	77.9	100
Iqaluit	2,169	1,448	66.7	721	33.2	88
Kamloops	2,773	1,081	38.9	1,692	61.0	536
Kenora	1,187	546	45.9	641	54.0	0
Kingston	1,739	601	34.5	1,138	65.4	204
Kuujuuaq	1,655	612	36.9	1,043	63.0	269
La Grande Rivière	681	550	80.7	131	19.2	136
La Ronge	1,756	914	52.0	842	47.9	1,230
Lethbridge	1,557	593	38.0	964	61.9	67
Lloydminster	960	257	26.7	703	73.2	24
Medicine Hat	1,702	461	27.0	1,241	72.9	465
Mont-Joli	799	649	81.2	150	18.7	37
Montréal/Mirabel International	987	808	81.8	179	18.1	1,763
Nanaimo	2,491	557	22.3	1,934	77.6	1,922
Norman Wells	1,332	252	18.9	1,080	81.0	266
North Bay	1,955	854	43.6	1,101	56.3	803
Ottawa/Gatineau	1,588	109	6.8	1,479	93.1	473
Peace River	1,084	389	35.8	695	64.1	25
Penticton	1,620	360	22.2	1,260	77.7	241
Port Hardy	1,823	622	34.1	1,201	65.8	382
Prince Albert	2,130	1,649	77.4	481	22.5	156
Prince Rupert	361	245	67.8	116	32.1	19
Rankin Inlet	1,714	1,043	60.8	671	39.1	155
Red Deer Regional	2,702	475	17.5	2,227	82.4	446
Rouyn-Noranda	1,305	977	74.8	328	25.1	105
Saint John	1,360	978	71.9	382	28.0	19
Sept-Îles	2,654	1,857	69.9	797	30.0	777
Sioux Lookout	2,636	1,858	70.4	778	29.5	1,298
Smithers	1,146	494	43.1	652	56.8	744
St. Catharines	2,371	163	6.8	2,208	93.1	547
Sudbury	3,417	1,864	54.5	1,553	45.4	277
Terrace	1,652	671	40.6	981	59.3	237
Thompson	2,724	1,700	62.4	1,024	37.5	509
Timmins	2,342	1,914	81.7	428	18.2	245
Val-d'Or	1,637	970	59.2	667	40.7	966
Victoria Harbour	3,365	62	1.8	3,303	98.1	1,211
Wabush	2,504	1,822	72.7	682	27.2	517
Whitecourt	1,082	43	3.9	1,039	96.0	261
Williams Lake	1,185	473	39.9	712	60.0	196
Total of all flight service stations (51)	91,383	40,385	44.2	50,998	55.8	20,999

1. Total excludes runway 88 flights.

Table 5-1
Itinerant movements by type of power plant — NAV CANADA towers

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Abbotsford	3,588	604	188	2,202	592	2
Boundary Bay	8,693	17	74	8,255	347	0
Calgary International	21,405	14,503	5,627	338	937	0
Calgary/Springbank	5,923	78	207	5,118	520	0
Chicoutimi/St-Honoré	2,051	2	121	1,620	307	1
Edmonton City Centre	4,902	240	1,577	2,275	806	4
Edmonton International	12,081	7,730	3,957	327	67	0
Edmonton/Villeneuve	1,275	25	32	1,148	68	2
Fort McMurray	8,043	1,369	1,983	1,361	3,330	0
Fredericton International	3,797	67	1,043	2,602	85	0
Gander International	2,004	472	655	719	158	0
Halifax/Robert L. Stanfield International	7,704	4,089	3,092	196	327	0
Hamilton	2,634	1,375	638	541	80	0
Kelowna	4,849	1,395	1,675	1,550	228	1
Kitchener/Waterloo	4,405	321	316	3,464	301	3
Langley	3,444	0	2	3,065	356	21
London	4,261	414	1,098	2,540	209	0
Moncton/Greater Moncton International	3,289	801	1,255	1,170	61	2
Montréal/Pierre Elliott Trudeau International	20,816	13,169	6,984	343	320	0
Montréal/St-Hubert	6,672	233	1,260	4,776	391	12
Oshawa	3,931	35	71	3,665	160	0
Ottawa/Macdonald-Cartier International	11,023	6,183	2,595	1,934	311	0
Pitt Meadows	4,245	1	19	4,007	218	0
Prince George	2,334	245	1,245	599	244	1
Québec/Jean Lesage International	8,741	1,277	4,174	2,391	899	0
Regina International	3,844	1,782	585	1,347	127	3
Saskatoon/John G. Diefenbaker International	6,033	2,040	2,005	1,928	60	0
Sault Ste. Marie	2,738	45	1,089	1,588	16	0
St. John's International	3,832	1,726	1,607	99	400	0
St-Jean	3,322	1	5	1,710	42	1,564
Thunder Bay	6,014	412	3,466	1,813	323	0
Toronto/Billy Bishop Toronto City	8,757	7	5,701	2,315	733	1
Toronto/Buttonville Municipal	7,097	52	416	6,299	330	0
Toronto/Lester B. Pearson International	40,000	32,395	7,526	77	2	0
Vancouver Harbour	5,343	0	2,836	1,653	853	1
Vancouver International	28,732	13,346	11,590	2,944	852	0
Victoria International	9,308	1,399	2,483	5,204	222	0
Whitehorse International	2,343	585	519	840	399	0
Windsor	1,820	150	566	1,079	25	0
Winnipeg/James Armstrong Richardson International	10,690	5,450	4,229	713	298	0
Winnipeg/St. Andrews	3,603	0	738	2,686	178	1
Yellowknife	4,565	822	2,720	403	619	1
Total of NAV CANADA towers (42)	310,151	114,857	87,969	88,904	16,801	1,620

Table 5-2
Itinerant movements by type of power plant — NAV CANADA flight service stations

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	834	67	162	545	59	1
Campbell River	2,498	127	832	1,164	375	0
Castlegar	976	21	450	254	251	0
Charlottetown	1,508	639	521	308	40	0
Churchill	932	45	722	46	119	0
Cranbrook	1,308	28	743	463	74	0
Deer Lake	1,782	313	1,282	105	82	0
Fort Nelson	3,715	126	736	414	2,439	0
Fort St. John	2,478	204	972	469	833	0
Grande Prairie	2,775	217	1,056	894	608	0
High Level	1,831	8	822	306	693	2
Îles-de-la-Madeleine	583	39	458	76	10	0
Inuvik/Mike Zubko	2,018	148	856	390	624	0
Iqaluit	2,169	408	1,489	41	231	0
Kamloops	2,773	177	1,181	1,013	402	0
Kenora	1,187	135	466	370	216	0
Kingston	1,739	53	488	1,032	166	0
Kuujuuaq	1,655	208	968	170	309	0
La Grande Rivière	681	96	517	56	12	0
La Ronge	1,756	12	1,314	366	64	0
Lethbridge	1,557	78	519	884	76	0
Lloydminster	960	21	278	614	47	0
Medicine Hat	1,702	26	537	1,063	76	0
Mont-Joli	799	15	642	126	15	1
Montréal/Mirabel International	987	562	233	87	105	0
Nanaimo	2,491	25	536	1,882	42	6
Norman Wells	1,332	200	347	331	454	0
North Bay	1,955	136	844	444	530	1
Ottawa/Gatineau	1,588	4	56	1,345	183	0
Peace River	1,084	29	410	162	483	0
Penticton	1,620	43	578	555	444	0
Port Hardy	1,823	63	1,151	409	200	0
Prince Albert	2,130	38	1,625	415	52	0
Prince Rupert	361	69	217	20	55	0
Rankin Inlet	1,714	241	893	14	566	0
Red Deer Regional	2,702	94	427	2,077	102	2
Rouyn-Noranda	1,305	115	915	251	24	0
Saint John	1,360	146	807	329	78	0
Sept-Îles	2,654	54	1,713	423	464	0
Sioux Lookout	2,636	20	2,130	448	38	0
Smithers	1,146	11	611	213	311	0
St. Catharines	2,371	23	64	1,318	874	92
Sudbury	3,417	65	1,853	848	650	1
Terrace	1,652	22	696	147	787	0
Thompson	2,724	77	2,169	269	209	0
Timmins	2,342	20	2,028	181	113	0
Val-d'Or	1,637	179	790	440	227	1
Victoria Harbour	3,365	0	2,580	297	488	0
Wabush	2,504	39	1,794	407	264	0
Whitecourt	1,082	8	38	210	826	0
Williams Lake	1,185	10	624	315	236	0
Total of all flight service stations (51)	91,383	5,504	44,140	25,006	16,626	107

Table 6-1
Itinerant movements by aircraft weight group — NAV CANADA towers

	Maximum take-off weight in kilograms									
	2,000 and under	2,001 to 4,000	4,001 to 5,670	5,671 to 9,000	9,001 to 18,000	18,001 to 35,000	35,001 to 70,000	70,001 to 90,000	90,001 to 136,000	136,001 and over
	number									
Abbotsford	2,379	417	128	48	70	67	458	9	2	10
Boundary Bay	8,233	397	48	13	0	2	0	0	0	0
Calgary International	818	514	1,599	1,903	919	4,966	8,751	1,068	197	670
Calgary/Springbank	5,192	417	221	84	9	0	0	0	0	0
Chicoutimi/St-Honoré	1,746	188	115	2	0	0	0	0	0	0
Edmonton City Centre	2,734	380	1,347	362	57	22	0	0	0	0
Edmonton International	304	134	757	1,039	654	2,791	5,748	392	175	87
Edmonton/Villeneuve	1,140	63	53	12	7	0	0	0	0	0
Fort McMurray	3,886	1,304	926	387	75	862	487	116	0	0
Fredericton International	2,589	166	190	251	198	383	18	2	0	0
Gander International	705	22	32	529	250	292	105	51	2	16
Halifax/Robert L. Stanfield International	151	226	384	1,080	1,223	1,527	2,202	514	210	187
Hamilton	394	348	215	317	195	84	520	3	429	129
Kelowna	1,576	264	376	640	92	934	965	0	2	0
Kitchener/Waterloo	3,665	111	287	84	63	131	62	2	0	0
Langley	3,290	124	28	0	2	0	0	0	0	0
London	2,531	132	302	200	598	295	199	0	4	0
Moncton/Greater Moncton International	1,151	169	172	368	64	844	171	4	346	0
Montréal/Pierre Elliott Trudeau International	466	185	682	622	2,910	7,201	5,628	1,254	0	1,868
Montréal/St-Hubert	4,506	623	865	452	154	56	10	5	0	1
Oshawa	3,570	245	50	42	24	0	0	0	0	0
Ottawa/Macdonald-Cartier International	1,974	153	651	290	778	3,537	2,972	379	48	241
Pitt Meadows	3,807	415	9	14	0	0	0	0	0	0
Prince George	611	254	184	647	9	412	217	0	0	0
Québec/Jean Lesage International	2,784	488	891	573	1,331	2,444	148	15	0	67
Regina International	1,164	307	319	292	53	951	683	0	75	0
Saskatoon/John G. Diefenbaker International	1,718	360	735	762	279	1,198	936	2	43	0
Sault Ste. Marie	1,576	80	551	88	106	331	0	6	0	0
St. John's International	90	18	244	656	794	408	1,169	342	97	14
St-Jean	3,304	13	4	0	0	0	1	0	0	0
Thunder Bay	1,805	289	2,385	248	158	921	204	4	0	0
Toronto/Billy Bishop Toronto City	2,576	369	300	346	12	5,152	0	2	0	0
Toronto/Buttonville Municipal	6,320	364	345	61	2	5	0	0	0	0
Toronto/Lester B. Pearson International	41	223	423	2,091	3,531	9,049	15,201	4,897	252	4,292
Vancouver Harbour	495	4,290	552	2	4	0	0	0	0	0
Vancouver International	796	4,337	794	3,271	2,032	5,961	7,154	1,838	324	2,225
Victoria International	4,501	1,090	252	599	664	1,403	701	62	36	0
Whitehorse International	1,051	300	184	107	16	374	297	4	0	10
Windsor	1,007	78	78	101	143	347	65	1	0	0
Winnipeg/James Armstrong Richardson International	629	489	2,858	365	916	1,834	2,592	299	648	60
Winnipeg/St. Andrews	2,693	805	103	0	2	0	0	0	0	0
Yellowknife	620	742	854	430	265	928	545	181	0	0
Total of NAV CANADA towers (42)	90,588	21,893	21,493	19,378	18,659	55,712	58,209	11,452	2,890	9,877

Table 6-2
Itinerant movements by aircraft weight group — NAV CANADA flight service stations

	Maximum take-off weight in kilograms									
	2,000 and under	2,001 to 4,000	4,001 to 5,670	5,671 to 9,000	9,001 to 18,000	18,001 to 35,000	35,001 to 70,000	70,001 to 90,000	90,001 to 136,000	136,001 and over
	number									
Brandon Municipal	497	77	171	57	22	8	0	2	0	0
Campbell River	1,443	144	137	420	305	16	33	0	0	0
Castlegar	274	133	92	218	11	232	16	0	0	0
Charlottetown	276	162	67	137	173	430	249	14	0	0
Churchill	109	16	147	15	160	432	12	39	0	2
Cranbrook	410	95	132	401	71	140	59	0	0	0
Deer Lake	143	40	46	501	653	107	288	4	0	0
Fort Nelson	1,533	225	1,231	392	153	112	69	0	0	0
Fort St. John	1,113	121	389	252	148	347	108	0	0	0
Grande Prairie	1,165	321	407	130	10	585	157	0	0	0
High Level	705	179	408	450	1	11	77	0	0	0
Îles-de-la-Madeleine	49	39	106	89	194	104	2	0	0	0
Inuvik/Mike Zubko	713	71	861	77	57	90	120	29	0	0
Iqaluit	146	93	708	235	276	383	236	30	10	52
Kamloops	1,094	178	300	294	138	665	104	0	0	0
Kenora	376	56	611	65	46	23	0	10	0	0
Kingston	1,140	63	91	190	252	3	0	0	0	0
Kuujuuaq	381	86	796	12	37	169	152	0	0	22
La Grande Rivière	31	41	177	0	54	284	94	0	0	0
La Ronge	171	213	687	205	281	199	0	0	0	0
Lethbridge	772	185	202	323	11	64	0	0	0	0
Lloydminster	591	76	156	129	2	6	0	0	0	0
Medicine Hat	1,078	42	246	312	10	14	0	0	0	0
Mont-Joli	89	53	215	221	90	131	0	0	0	0
Montréal/Mirabel International	164	77	16	60	8	134	22	3	314	189
Nanaimo	1,518	452	44	32	9	436	0	0	0	0
Norman Wells	628	212	215	38	5	34	196	4	0	0
North Bay	833	113	533	150	193	111	18	4	0	0
Ottawa/Gatineau	1,178	351	42	9	2	0	0	6	0	0
Peace River	439	111	404	103	25	2	0	0	0	0
Penticton	874	122	158	146	14	205	101	0	0	0
Port Hardy	212	383	685	159	377	7	0	0	0	0
Prince Albert	272	122	221	501	479	533	2	0	0	0
Prince Rupert	29	48	72	43	83	86	0	0	0	0
Rankin Inlet	174	398	215	16	288	436	181	2	2	2
Red Deer Regional	1,982	189	263	140	65	53	10	0	0	0
Rouyn-Noranda	261	4	424	40	331	173	72	0	0	0
Saint John	304	163	134	262	183	312	2	0	0	0
Sept-Îles	582	313	525	302	683	243	2	4	0	0
Sioux Lookout	137	351	1,299	729	118	2	0	0	0	0
Smithers	455	152	68	265	86	120	0	0	0	0
St. Catharines	2,133	124	67	31	12	2	0	2	0	0
Sudbury	793	431	1,194	323	259	412	3	2	0	0
Terrace	705	197	146	164	223	217	0	0	0	0
Thompson	245	278	1,314	46	281	552	0	8	0	0
Timmins	160	230	1,103	74	373	402	0	0	0	0
Val-d'Or	562	86	347	52	303	167	104	7	9	0
Victoria Harbour	64	2,565	724	0	12	0	0	0	0	0
Wabush	418	247	450	590	515	280	4	0	0	0
Whitecourt	994	28	46	6	6	2	0	0	0	0
Williams Lake	451	60	106	442	2	116	8	0	0	0
Total of all flight service stations (51)	30,866	10,516	19,198	9,848	8,090	9,592	2,501	170	335	267

Table 7-1
Itinerant movements, domestic, transborder and international — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Abbotsford							
Domestic	3,411	439	1,497	128	1,089	80	178
Transborder	175	8	29	1	112	0	25
Other international	2	0	0	0	0	0	2
Total	3,588	447	1,526	129	1,201	80	205
Boundary Bay							
Domestic	8,567	3	1,204	5,477	1,847	19	17
Transborder	126	0	3	41	81	0	1
Other international	0	0	0	0	0	0	0
Total	8,693	3	1,207	5,518	1,928	19	18
Calgary International							
Domestic	17,355	14,712	941	431	1,091	126	54
Transborder	3,452	3,154	50	3	238	2	5
Other international	598	578	2	2	5	0	11
Total	21,405	18,444	993	436	1,334	128	70
Calgary/Springbank							
Domestic	5,802	29	553	3,401	1,773	11	35
Transborder	121	0	5	5	110	0	1
Other international	0	0	0	0	0	0	0
Total	5,923	29	558	3,406	1,883	11	36
Chicoutimi/St-Honoré							
Domestic	2,051	611	35	1,122	281	2	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,051	611	35	1,122	281	2	0
Edmonton City Centre							
Domestic	4,872	1,160	689	1,328	1,064	618	13
Transborder	29	2	4	0	21	0	2
Other international	1	0	0	0	1	0	0
Total	4,902	1,162	693	1,328	1,086	618	15
Edmonton International							
Domestic	10,678	9,576	215	107	736	4	40
Transborder	1,303	1,210	8	11	70	0	4
Other international	100	98	0	0	2	0	0
Total	12,081	10,884	223	118	808	4	44
Edmonton/Villeneuve							
Domestic	1,270	0	62	605	588	4	11
Transborder	5	0	1	1	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,275	0	63	606	591	4	11
Fort McMurray							
Domestic	8,033	2,057	4,502	485	941	46	2
Transborder	9	1	1	0	7	0	0
Other international	1	0	0	1	0	0	0
Total	8,043	2,058	4,503	486	948	46	2
Fredericton International							
Domestic	3,752	1,021	2,524	13	129	38	27
Transborder	45	6	4	0	35	0	0
Other international	0	0	0	0	0	0	0
Total	3,797	1,027	2,528	13	164	38	27
Gander International							
Domestic	1,704	1,359	52	4	111	67	111
Transborder	138	34	0	6	71	0	27
Other international	162	40	4	5	81	0	32
Total	2,004	1,433	56	15	263	67	170

Table 7-1 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Halifax/Robert L. Stanfield International							
Domestic	6,395	5,633	370	5	241	37	109
Transborder	1,109	942	5	2	148	0	12
Other international	200	173	0	1	11	0	15
Total	7,704	6,748	375	8	400	37	136
Hamilton							
Domestic	1,943	1,244	114	111	174	296	4
Transborder	663	522	28	1	112	0	0
Other international	28	21	2	0	5	0	0
Total	2,634	1,787	144	112	291	296	4
Kelowna							
Domestic	4,608	2,965	276	336	845	82	104
Transborder	241	139	9	1	88	0	4
Other international	0	0	0	0	0	0	0
Total	4,849	3,104	285	337	933	82	108
Kitchener/Waterloo							
Domestic	4,085	305	2,630	61	1,076	5	8
Transborder	317	154	42	0	121	0	0
Other international	3	0	0	0	3	0	0
Total	4,405	459	2,672	61	1,200	5	8
Langley							
Domestic	3,419	1	187	1,830	1,373	15	13
Transborder	25	0	0	1	24	0	0
Other international	0	0	0	0	0	0	0
Total	3,444	1	187	1,831	1,397	15	13
London							
Domestic	3,964	1,088	498	1,610	716	49	3
Transborder	297	197	14	4	79	2	1
Other international	0	0	0	0	0	0	0
Total	4,261	1,285	512	1,614	795	51	4
Moncton/Greater Moncton International							
Domestic	3,182	1,768	899	23	298	192	2
Transborder	103	71	1	0	31	0	0
Other international	4	0	0	0	4	0	0
Total	3,289	1,839	900	23	333	192	2
Montréal/Pierre Elliott Trudeau International							
Domestic	11,739	9,983	856	24	692	174	10
Transborder	6,724	6,216	116	7	384	0	1
Other international	2,353	2,308	18	8	17	0	2
Total	20,816	18,507	990	39	1,093	174	13
Montréal/St-Hubert							
Domestic	6,449	2,839	849	1,450	1,152	68	91
Transborder	222	29	4	5	181	3	0
Other international	1	0	0	0	1	0	0
Total	6,672	2,868	853	1,455	1,334	71	91
Oshawa							
Domestic	3,850	61	104	2,671	859	143	12
Transborder	76	13	12	2	49	0	0
Other international	5	0	0	0	5	0	0
Total	3,931	74	116	2,673	913	143	12
Ottawa/Macdonald-Cartier International							
Domestic	8,644	5,975	330	1,699	243	275	122
Transborder	2,226	2,073	14	2	120	5	12
Other international	153	134	3	0	4	0	12
Total	11,023	8,182	347	1,701	367	280	146

Table 7-1 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Pitt Meadows							
Domestic	4,211	13	1,617	721	1,852	8	0
Transborder	34	0	4	0	30	0	0
Other international	0	0	0	0	0	0	0
Total	4,245	13	1,621	721	1,882	8	0
Prince George							
Domestic	2,319	1,214	538	29	489	40	9
Transborder	14	0	0	0	13	0	1
Other international	1	0	1	0	0	0	0
Total	2,334	1,214	539	29	502	40	10
Québec/Jean Lesage International							
Domestic	7,827	3,587	2,071	609	1,125	350	85
Transborder	827	689	4	0	131	2	1
Other international	87	75	1	3	6	0	2
Total	8,741	4,351	2,076	612	1,262	352	88
Regina International							
Domestic	3,443	1,832	849	36	538	125	63
Transborder	397	314	5	0	71	2	5
Other international	4	0	4	0	0	0	0
Total	3,844	2,146	858	36	609	127	68
Saskatoon/John G. Diefenbaker International							
Domestic	5,707	3,277	854	461	652	304	159
Transborder	326	256	13	0	49	6	2
Other international	0	0	0	0	0	0	0
Total	6,033	3,533	867	461	701	310	161
Sault Ste. Marie							
Domestic	2,681	990	60	1,397	172	50	12
Transborder	57	14	0	1	42	0	0
Other international	0	0	0	0	0	0	0
Total	2,738	1,004	60	1,398	214	50	12
St. John's International							
Domestic	3,417	2,702	376	1	98	207	33
Transborder	177	82	2	4	37	0	52
Other international	238	127	4	5	38	1	63
Total	3,832	2,911	382	10	173	208	148
St-Jean							
Domestic	3,320	20	213	250	1,856	0	981
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	3,322	20	213	250	1,858	0	981
Thunder Bay							
Domestic	5,912	3,587	305	1,492	360	113	55
Transborder	102	23	1	1	71	0	6
Other international	0	0	0	0	0	0	0
Total	6,014	3,610	306	1,493	431	113	61
Toronto/Billy Bishop Toronto City							
Domestic	6,960	3,733	1,133	1,466	612	8	8
Transborder	1,796	1,638	6	4	148	0	0
Other international	1	0	1	0	0	0	0
Total	8,757	5,371	1,140	1,470	760	8	8
Toronto/Buttonville Municipal							
Domestic	6,930	181	3,822	72	2,740	115	0
Transborder	164	20	20	1	123	0	0
Other international	3	0	0	0	3	0	0
Total	7,097	201	3,842	73	2,866	115	0

Table 7-1 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Toronto/Lester B. Pearson International							
Domestic	17,776	16,953	419	14	334	12	44
Transborder	16,747	15,922	155	12	652	0	6
Other international	5,477	5,409	32	1	33	0	2
Total	40,000	38,284	606	27	1,019	12	52
Vancouver Harbour							
Domestic	5,334	4,769	436	2	121	2	4
Transborder	9	7	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	5,343	4,776	436	2	123	2	4
Vancouver International							
Domestic	21,655	18,653	2,061	80	640	206	15
Transborder	5,306	4,917	25	8	355	0	1
Other international	1,771	1,761	1	2	7	0	0
Total	28,732	25,331	2,087	90	1,002	206	16
Victoria International							
Domestic	8,498	3,044	3,152	451	1,661	45	145
Transborder	809	443	28	6	332	0	0
Other international	1	0	0	0	1	0	0
Total	9,308	3,487	3,180	457	1,994	45	145
Whitehorse International							
Domestic	2,236	1,086	677	85	347	22	19
Transborder	97	13	2	3	75	0	4
Other international	10	8	0	1	1	0	0
Total	2,343	1,107	679	89	423	22	23
Windsor							
Domestic	1,741	613	633	79	406	10	0
Transborder	76	15	17	0	44	0	0
Other international	3	3	0	0	0	0	0
Total	1,820	631	650	79	450	10	0
Winnipeg/James Armstrong Richardson International							
Domestic	9,583	8,217	357	79	347	349	234
Transborder	1,101	976	6	4	101	3	11
Other international	6	0	0	0	6	0	0
Total	10,690	9,193	363	83	454	352	245
Winnipeg/St. Andrews							
Domestic	3,598	657	1,725	791	423	0	2
Transborder	5	1	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	3,603	658	1,725	791	427	0	2
Yellowknife							
Domestic	4,553	3,628	602	20	129	106	68
Transborder	10	1	1	2	3	0	3
Other international	2	2	0	0	0	0	0
Total	4,565	3,631	603	22	132	106	71
Total of NAV CANADA towers (42)							
Domestic	253,474	141,585	41,287	31,056	32,221	4,423	2,902
Transborder	45,462	40,102	639	139	4,370	25	187
Other international	11,215	10,737	73	29	234	1	141
Total	310,151	192,424	41,999	31,224	36,825	4,449	3,230

Table 7-2
Itinerant movements, domestic, transborder and international — NAV CANADA flight service stations

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Brandon Municipal							
Domestic	760	143	243	50	274	22	28
Transborder	32	6	0	0	25	1	0
Other international	42	0	4	10	27	1	0
Total	834	149	247	60	326	24	28
Campbell River							
Domestic	2,312	700	560	319	711	12	10
Transborder	185	20	3	0	161	0	1
Other international	1	0	0	0	1	0	0
Total	2,498	720	563	319	873	12	11
Castlegar							
Domestic	956	298	481	77	69	31	0
Transborder	20	4	1	0	15	0	0
Other international	0	0	0	0	0	0	0
Total	976	302	482	77	84	31	0
Charlottetown							
Domestic	1,355	911	47	19	278	12	88
Transborder	152	67	0	0	73	0	12
Other international	1	0	0	0	1	0	0
Total	1,508	978	47	19	352	12	100
Churchill							
Domestic	930	690	46	54	26	34	80
Transborder	2	0	0	0	1	0	1
Other international	0	0	0	0	0	0	0
Total	932	690	46	54	27	34	81
Cranbrook							
Domestic	1,256	620	222	37	355	6	16
Transborder	51	2	1	0	42	0	6
Other international	1	1	0	0	0	0	0
Total	1,308	623	223	37	397	6	22
Deer Lake							
Domestic	1,776	1,518	90	4	55	90	19
Transborder	6	4	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,782	1,522	90	4	57	90	19
Fort Nelson							
Domestic	3,712	541	2,890	45	187	0	49
Transborder	3	1	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	3,715	542	2,890	45	189	0	49
Fort St. John							
Domestic	2,473	845	1,112	91	342	23	60
Transborder	5	1	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	2,478	846	1,112	91	346	23	60
Grande Prairie							
Domestic	2,769	1,186	866	152	543	16	6
Transborder	6	0	3	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	2,775	1,186	869	152	546	16	6
High Level							
Domestic	1,831	462	1,176	52	97	42	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,831	462	1,176	52	97	42	2

Table 7-2 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA flight service stations

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
	number						
Îles-de-la-Madeleine							
Domestic	578	382	89	0	42	61	4
Transborder	5	0	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	583	382	89	0	47	61	4
Inuvik/Mike Zubko							
Domestic	2,015	1,209	462	0	30	43	271
Transborder	3	2	0	0	0	0	1
Other international	0	0	0	0	0	0	0
Total	2,018	1,211	462	0	30	43	272
Iqaluit							
Domestic	2,054	1,609	186	30	46	145	38
Transborder	18	9	0	0	9	0	0
Other international	97	51	2	7	31	0	6
Total	2,169	1,669	188	37	86	145	44
Kamloops							
Domestic	2,749	944	971	267	506	47	14
Transborder	24	5	2	0	17	0	0
Other international	0	0	0	0	0	0	0
Total	2,773	949	973	267	523	47	14
Kenora							
Domestic	1,059	403	244	184	180	19	29
Transborder	128	39	2	0	87	0	0
Other international	0	0	0	0	0	0	0
Total	1,187	442	246	184	267	19	29
Kingston							
Domestic	1,701	434	479	277	454	18	39
Transborder	38	5	6	0	27	0	0
Other international	0	0	0	0	0	0	0
Total	1,739	439	485	277	481	18	39
Kuujuuaq							
Domestic	1,650	1,058	352	68	126	40	6
Transborder	1	0	0	1	0	0	0
Other international	4	1	1	1	1	0	0
Total	1,655	1,059	353	70	127	40	6
La Grande Rivière							
Domestic	681	451	156	12	40	22	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	681	451	156	12	40	22	0
La Ronge							
Domestic	1,746	1,298	55	2	114	277	0
Transborder	10	0	0	0	5	5	0
Other international	0	0	0	0	0	0	0
Total	1,756	1,298	55	2	119	282	0
Lethbridge							
Domestic	1,443	415	59	446	454	16	53
Transborder	114	4	9	0	99	0	2
Other international	0	0	0	0	0	0	0
Total	1,557	419	68	446	553	16	55
Lloydminster							
Domestic	958	199	240	35	444	22	18
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	960	199	240	35	446	22	18

Table 7-2 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA flight service stations

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
	number						
Medicine Hat							
Domestic	1,694	516	216	476	430	18	38
Transborder	8	1	0	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	1,702	517	216	476	437	18	38
Mont-Joli							
Domestic	799	509	176	16	73	20	5
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	799	509	176	16	73	20	5
Montréal/Mirabel International							
Domestic	740	519	48	4	147	0	22
Transborder	242	214	2	0	26	0	0
Other international	5	5	0	0	0	0	0
Total	987	738	50	4	173	0	22
Nanaimo							
Domestic	2,378	458	791	88	1,005	22	14
Transborder	112	4	0	0	108	0	0
Other international	1	0	0	0	1	0	0
Total	2,491	462	791	88	1,114	22	14
Norman Wells							
Domestic	1,327	758	467	0	74	20	8
Transborder	5	0	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	1,332	758	467	0	79	20	8
North Bay							
Domestic	1,901	719	472	174	381	53	102
Transborder	54	11	5	0	34	0	4
Other international	0	0	0	0	0	0	0
Total	1,955	730	477	174	415	53	106
Ottawa/Gatineau							
Domestic	1,578	198	514	172	668	17	9
Transborder	10	0	0	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	1,588	198	514	172	678	17	9
Peace River							
Domestic	1,083	419	538	28	82	16	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,084	419	538	28	83	16	0
Penticton							
Domestic	1,587	352	615	54	502	24	40
Transborder	33	0	4	1	27	0	1
Other international	0	0	0	0	0	0	0
Total	1,620	352	619	55	529	24	41
Port Hardy							
Domestic	1,740	1,335	242	22	93	34	14
Transborder	83	15	1	0	67	0	0
Other international	0	0	0	0	0	0	0
Total	1,823	1,350	243	22	160	34	14
Prince Albert							
Domestic	2,126	1,543	79	22	259	188	35
Transborder	4	1	0	0	2	1	0
Other international	0	0	0	0	0	0	0
Total	2,130	1,544	79	22	261	189	35

Table 7-2 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA flight service stations

	Total	Air carrier movements		Other commercial	Private	Government movements		
		Level I-III and Foreign	Level IV-VI			Civil	Military	
number								
Prince Rupert								
Domestic	325	214	13	7	50	40	1	
Transborder	36	9	0	3	24	0	0	
Other international	0	0	0	0	0	0	0	
Total	361	223	13	10	74	40	1	
Rankin Inlet								
Domestic	1,714	1,122	570	0	12	2	8	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,714	1,122	570	0	12	2	8	
Red Deer Regional								
Domestic	2,680	285	1,212	236	874	14	59	
Transborder	22	6	1	0	15	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,702	291	1,213	236	889	14	59	
Rouyn-Noranda								
Domestic	1,301	713	190	126	233	25	14	
Transborder	4	0	0	0	4	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,305	713	190	126	237	25	14	
Saint John								
Domestic	1,255	726	116	56	345	10	2	
Transborder	105	1	0	0	102	0	2	
Other international	0	0	0	0	0	0	0	
Total	1,360	727	116	56	447	10	4	
Sept-Îles								
Domestic	2,646	1,388	935	34	176	107	6	
Transborder	7	4	0	0	3	0	0	
Other international	1	1	0	0	0	0	0	
Total	2,654	1,393	935	34	179	107	6	
Sioux Lookout								
Domestic	2,619	2,076	151	281	67	25	19	
Transborder	17	1	0	0	16	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,636	2,077	151	281	83	25	19	
Smithers								
Domestic	1,141	581	364	49	142	5	0	
Transborder	5	0	0	0	5	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,146	581	364	49	147	5	0	
St. Catharines								
Domestic	2,304	9	1,439	47	686	28	95	
Transborder	67	15	5	1	46	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,371	24	1,444	48	732	28	95	
Sudbury								
Domestic	3,372	1,678	603	485	402	193	11	
Transborder	44	15	0	0	29	0	0	
Other international	1	0	0	0	1	0	0	
Total	3,417	1,693	603	485	432	193	11	
Terrace								
Domestic	1,644	688	775	21	134	26	0	
Transborder	8	0	0	0	8	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,652	688	775	21	142	26	0	

Table 7-2 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA flight service stations

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Thompson							
Domestic	2,718	2,115	367	11	53	170	2
Transborder	6	0	0	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	2,724	2,115	367	11	59	170	2
Timmins							
Domestic	2,340	1,882	147	14	148	145	4
Transborder	2	1	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,342	1,883	147	14	149	145	4
Val-d'Or							
Domestic	1,629	881	240	55	352	52	49
Transborder	8	5	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,637	886	240	55	355	52	49
Victoria Harbour							
Domestic	2,882	2,752	36	0	13	69	12
Transborder	483	452	28	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	3,365	3,204	64	0	16	69	12
Wabush							
Domestic	2,501	1,723	429	38	286	25	0
Transborder	3	2	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,504	1,725	429	38	287	25	0
Whitecourt							
Domestic	1,080	26	795	60	175	16	8
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,082	26	795	60	177	16	8
Williams Lake							
Domestic	1,177	444	444	23	252	8	6
Transborder	8	0	0	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	1,185	444	444	23	260	8	6
Total of all flight service stations (51)							
Domestic	89,045	42,945	24,010	4,820	13,487	2,370	1,413
Transborder	2,184	926	73	6	1,142	7	30
Other international	154	59	7	18	63	1	6
Total	91,383	43,930	24,090	4,844	14,692	2,378	1,449

Table 8-1
Total aircraft movements, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	21	8,098	12	10	99	21	442
Boundary Bay	4	21,493	15	13	123	21	974
Calgary International	3	21,571	30	18	60	9	817
Calgary/Springbank	7	13,359	16	9	86	16	685
Chicoutimi/St-Honoré	27	6,381	27	10	126	27	690
Edmonton City Centre	32	5,260	25	14	28	25	255
Edmonton International	10	12,397	23	18	45	1	487
Edmonton/Villeneuve	34	4,715	15	11	49	30	252
Fort McMurray	19	8,733	3	16	43	15	372
Fredericton International	22	8,047	23	11	62	21	475
Gander International	40	2,890	21	18	31	9	195
Halifax/Robert L. Stanfield International	23	7,984	9	20	29	22	309
Hamilton	38	3,490	2	11	33	23	164
Kelowna	25	6,773	14	14	48	14	291
Kitchener/Waterloo	18	9,059	2	11	76	1	578
Langley	24	6,950	9	11	60	1	332
London	26	6,673	20	17	53	15	352
Moncton/Greater Moncton International	36	4,559	15	11	42	22	271
Montréal/Pierre Elliott Trudeau International	5	21,016	22	17	67	20	794
Montréal/St-Hubert	9	12,960	9	13	107	14	852
Oshawa	28	6,195	2	12	58	22	360
Ottawa/Macdonald-Cartier International	12	12,043	23	16	49	16	504
Pitt Meadows	15	10,327	28	15	86	31	521
Prince George	41	2,612	20	9	28	20	127
Québec/Jean Lesage International	11	12,079	21	11	83	24	556
Regina International	29	5,407	1	10	40	30	273
Saskatoon/John G. Diefenbaker International	20	8,511	30	16	54	30	381
Sault Ste. Marie	31	5,276	11	9	75	11	316
St. John's International	37	4,040	28	13	27	28	174
St-Jean	35	4,676	13	19	131	2	470
Thunder Bay	16	10,306	18	9	87	2	598
Toronto/Billy Bishop Toronto City	13	11,913	1	16	64	8	589
Toronto/Buttonville Municipal	6	15,189	1	17	105	1	871
Toronto/Lester B. Pearson International	1	40,076	23	19	105	31	1,384
Vancouver Harbour	30	5,351	15	16	31	17	214
Vancouver International	2	28,798	2	15	89	10	1,061
Victoria International	8	13,264	21	17	68	30	583
Whitehorse International	39	2,929	13	16	25	30	160
Windsor	42	2,494	20	17	30	29	123
Winnipeg/James Armstrong Richardson International	14	11,694	16	15	50	16	511
Winnipeg/St. Andrews	17	9,455	23	16	77	28	541
Yellowknife	33	5,035	1	10	27	22	218

Table 8-2
Total aircraft movements, peak hour and peak day — NAV CANADA flight service stations

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	38	1,600	28	10	39	28	154
Campbell River	10	3,510	29	11	47	17	177
Castlegar	46	1,006	20	11	14	14	71
Charlottetown	36	1,616	24	10	25	24	116
Churchill	47	946	23	0	10	23	51
Cranbrook	39	1,368	20	11	19	20	69
Deer Lake	32	1,818	16	15	25	16	81
Fort Nelson	5	3,875	7	14	28	7	281
Fort St. John	12	3,112	6	16	47	30	151
Grande Prairie	9	3,635	18	16	35	1	168
High Level	27	1,927	20	17	22	9	126
Îles-de-la-Madeleine	50	583	28	17	8	24	30
Inuvik/Mike Zubko	25	2,036	14	15	15	22	104
Iqaluit	22	2,337	11	9	25	8	119
Kamloops	4	4,133	18	12	38	4	212
Kenora	44	1,187	10	10	10	17	63
Kingston	13	3,005	16	11	49	16	196
Kuujuuaq	28	1,911	10	10	26	14	116
La Grande Rivière	49	691	6	11	6	15	39
La Ronge	29	1,898	10	17	23	23	94
Lethbridge	19	2,573	25	21	99	25	232
Lloydminster	42	1,282	23	16	22	23	75
Medicine Hat	18	2,600	17	19	32	17	157
Mont-Joli	48	799	20	18	10	14	49
Montréal/Mirabel International	21	2,383	29	17	26	7	122
Nanaimo	8	3,641	22	10	36	31	172
Norman Wells	40	1,348	1	12	13	30	73
North Bay	6	3,665	20	12	56	21	277
Ottawa/Gatineau	1	5,716	9	11	65	16	381
Peace River	45	1,166	18	11	14	10	77
Penticton	24	2,196	21	15	48	17	165
Port Hardy	31	1,841	6	14	17	16	91
Prince Albert	23	2,198	15	13	28	15	130
Prince Rupert	51	413	25	14	13	25	47
Rankin Inlet	33	1,714	5	11	16	21	87
Red Deer Regional	2	4,510	10	19	73	10	435
Rouyn-Noranda	34	1,709	1	22	25	31	91
Saint John	37	1,600	29	17	23	29	140
Sept-Îles	14	2,898	24	16	28	24	164
Sioux Lookout	17	2,728	22	21	44	22	152
Smithers	41	1,318	17	14	29	17	147
St. Catharines	7	3,649	26	10	59	26	288
Sudbury	3	4,367	1	9	37	29	246
Terrace	30	1,894	16	12	34	16	175
Thompson	16	2,796	29	9	23	1	132
Timmins	20	2,384	6	22	26	15	103
Val-d'Or	26	2,023	19	11	58	19	157
Victoria Harbour	11	3,371	9	17	21	9	141
Wabush	15	2,880	19	20	37	22	158
Whitecourt	35	1,686	31	10	28	23	142
Williams Lake	43	1,245	25	10	17	22	69

Table 9-1
Itinerant aircraft movements, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	31	3,588	12	17	31	10	193
Boundary Bay	11	8,693	16	15	42	16	380
Calgary International	3	21,405	30	18	60	9	813
Calgary/Springbank	18	5,923	4	10	34	16	269
Chicoutimi/St-Honoré	39	2,051	22	15	18	14	115
Edmonton City Centre	20	4,902	25	14	28	25	243
Edmonton International	5	12,081	23	18	45	30	474
Edmonton/Villeneuve	42	1,275	27	18	30	27	76
Fort McMurray	12	8,043	3	11	32	15	344
Fredericton International	29	3,797	4	14	32	4	212
Gander International	40	2,004	23	9	14	9	107
Halifax/Robert L. Stanfield International	13	7,704	9	20	27	22	295
Hamilton	36	2,634	4	11	13	29	133
Kelowna	21	4,849	1	16	31	3	195
Kitchener/Waterloo	23	4,405	22	16	37	1	262
Langley	32	3,444	25	10	25	25	162
London	24	4,261	15	10	28	15	210
Moncton/Greater Moncton International	34	3,289	4	15	18	22	161
Montréal/Pierre Elliott Trudeau International	4	20,816	22	17	65	20	790
Montréal/St-Hubert	15	6,672	24	11	45	24	380
Oshawa	26	3,931	2	12	32	6	215
Ottawa/Macdonald-Cartier International	6	11,023	16	19	37	16	450
Pitt Meadows	25	4,245	10	15	32	10	200
Prince George	38	2,334	20	9	16	20	103
Québec/Jean Lesage International	10	8,741	22	11	41	24	368
Regina International	27	3,844	23	13	18	16	157
Saskatoon/John G. Diefenbaker International	16	6,033	30	14	26	30	261
Sault Ste. Marie	35	2,738	21	10	22	21	125
St. John's International	28	3,832	7	17	14	7	147
St-Jean	33	3,322	13	19	129	2	378
Thunder Bay	17	6,014	2	16	28	13	252
Toronto/Billy Bishop Toronto City	9	8,757	17	17	39	31	371
Toronto/Buttonville Municipal	14	7,097	18	10	40	16	381
Toronto/Lester B. Pearson International	1	40,000	23	19	105	31	1,382
Vancouver Harbour	19	5,343	15	16	31	17	214
Vancouver International	2	28,732	10	16	82	10	1,057
Victoria International	8	9,308	1	9	38	9	378
Whitehorse International	37	2,343	4	13	13	15	110
Windsor	41	1,820	5	18	13	6	101
Winnipeg/James Armstrong Richardson International	7	10,690	30	14	35	14	424
Winnipeg/St. Andrews	30	3,603	6	15	21	28	183
Yellowknife	22	4,565	24	17	21	22	192

Table 9-2
Itinerant aircraft movements, peak hour and peak day — NAV CANADA flight service stations

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	47	834	8	12	8	24	51
Campbell River	11	2,498	4	12	17	5	102
Castlegar	44	976	20	11	14	14	71
Charlottetown	33	1,508	23	14	12	24	90
Churchill	46	932	23	0	10	23	51
Cranbrook	36	1,308	20	11	19	20	69
Deer Lake	22	1,782	1	13	12	1	74
Fort Nelson	1	3,715	7	14	28	7	279
Fort St. John	13	2,478	20	9	15	20	129
Grande Prairie	4	2,775	15	15	18	1	134
High Level	20	1,831	20	17	22	9	122
Îles-de-la-Madeleine	50	583	28	17	8	24	30
Inuvik/Mike Zubko	18	2,018	14	15	15	22	102
Iqaluit	16	2,169	2	14	17	6	102
Kamloops	5	2,773	1	12	19	21	151
Kenora	38	1,187	10	10	10	17	63
Kingston	24	1,739	18	12	15	21	88
Kuujuuaq	27	1,655	14	16	13	17	93
La Grande Rivière	49	681	6	11	6	15	35
La Ronge	23	1,756	10	17	23	10	93
Lethbridge	32	1,557	8	16	11	8	73
Lloydminster	45	960	1	10	8	23	47
Medicine Hat	26	1,702	1	8	19	17	105
Mont-Joli	48	799	20	18	10	14	49
Montréal/Mirabel International	43	987	11	11	7	22	49
Nanaimo	12	2,491	4	10	23	3	118
Norman Wells	35	1,332	20	11	13	30	69
North Bay	19	1,955	29	14	16	1	110
Ottawa/Gatineau	31	1,588	24	15	16	18	111
Peace River	41	1,084	11	14	12	10	77
Penticton	30	1,620	19	9	15	21	85
Port Hardy	21	1,823	6	14	17	16	91
Prince Albert	17	2,130	4	12	15	4	106
Prince Rupert	51	361	10	12	7	24	26
Rankin Inlet	25	1,714	5	11	16	21	87
Red Deer Regional	7	2,702	10	8	22	9	186
Rouyn-Noranda	37	1,305	4	11	10	23	64
Saint John	34	1,360	29	17	23	29	132
Sept-Îles	8	2,654	30	16	19	24	114
Sioux Lookout	9	2,636	3	16	15	13	126
Smithers	40	1,146	24	13	10	17	73
St. Catharines	14	2,371	26	10	33	26	204
Sudbury	2	3,417	6	11	20	29	158
Terrace	28	1,652	16	15	12	17	108
Thompson	6	2,724	2	17	16	2	124
Timmins	15	2,342	15	15	14	15	103
Val-d'Or	29	1,637	19	11	42	19	123
Victoria Harbour	3	3,365	9	17	21	9	141
Wabush	10	2,504	22	14	33	22	148
Whitecourt	42	1,082	6	15	13	28	79
Williams Lake	39	1,185	5	17	12	22	69

Table 10-1
Local movements, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	8	4,510	12	10	76	21	332
Boundary Bay	1	12,800	7	11	94	10	632
Calgary International	39	166	26	16	14	26	52
Calgary/Springbank	3	7,436	6	13	58	1	428
Chicoutimi/St-Honoré	9	4,330	30	20	118	27	588
Edmonton City Centre	33	358	12	18	12	30	40
Edmonton International	34	316	28	12	8	1	26
Edmonton/Villeneuve	14	3,440	11	16	42	30	200
Fort McMurray	29	690	4	13	26	4	88
Fredericton International	11	4,250	14	18	42	21	292
Gander International	27	886	9	12	20	9	88
Halifax/Robert L. Stanfield International	35	280	3	1	10	3	22
Hamilton	28	856	3	10	26	8	60
Kelowna	21	1,924	14	14	34	14	114
Kitchener/Waterloo	7	4,654	2	9	56	1	316
Langley	13	3,506	9	11	40	1	180
London	19	2,412	20	17	42	20	160
Moncton/Greater Moncton International	24	1,270	22	22	32	21	118
Montréal/Pierre Elliott Trudeau International	38	200	3	13	20	3	40
Montréal/St-Hubert	4	6,288	9	13	88	14	510
Oshawa	20	2,264	2	21	34	2	152
Ottawa/Macdonald-Cartier International	25	1,020	17	19	24	17	66
Pitt Meadows	5	6,082	28	15	74	31	322
Prince George	36	278	13	15	20	19	38
Québec/Jean Lesage International	15	3,338	2	12	52	8	250
Regina International	22	1,563	1	10	30	30	116
Saskatoon/John G. Diefenbaker International	18	2,478	17	9	36	20	126
Sault Ste. Marie	17	2,538	11	9	66	11	234
St. John's International	37	208	28	14	20	28	42
St-Jean	23	1,354	27	11	32	24	98
Thunder Bay	10	4,292	26	9	78	3	380
Toronto/Billy Bishop Toronto City	16	3,156	1	16	38	8	238
Toronto/Buttonville Municipal	2	8,092	1	19	80	1	578
Toronto/Lester B. Pearson International	40	76	3	12	4	13	10
Vancouver Harbour	42	8	6	12	2	6	2
Vancouver International	41	66	2	15	20	2	30
Victoria International	12	3,956	10	9	44	30	252
Whitehorse International	31	586	13	16	20	30	56
Windsor	30	674	20	17	24	14	74
Winnipeg/James Armstrong Richardson International	26	1,004	20	21	28	17	90
Winnipeg/St. Andrews	6	5,852	18	16	60	27	396
Yellowknife	32	470	3	11	12	25	34

Table 10-2
Local movements, peak hour and peak day — NAV CANADA flight service stations

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	14	766	28	10	32	28	108
Campbell River	10	1,012	29	11	38	17	80
Castlegar	41	30	3	15	10	3	10
Charlottetown	30	108	24	10	18	24	26
Churchill	45	14	3	22	8	3	8
Cranbrook	36	60	21	13	10	11	12
Deer Lake	40	36	16	15	24	16	24
Fort Nelson	28	160	12	10	12	26	40
Fort St. John	15	634	6	16	40	25	84
Grande Prairie	13	860	18	16	26	18	58
High Level	31	96	14	15	10	14	24
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	42	18	23	1	4	23	4
Iqaluit	27	168	11	9	24	11	50
Kamloops	5	1,360	17	12	32	18	138
Kenora	0	0	0	0	0	0	0
Kingston	7	1,266	16	11	38	16	114
Kuujuuaq	22	256	10	10	24	10	46
La Grande Rivière	46	10	13	8	2	15	4
La Ronge	29	142	18	21	12	18	26
Lethbridge	9	1,016	25	21	96	25	170
Lloydminster	21	322	3	14	18	3	28
Medicine Hat	12	898	17	19	24	31	72
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	4	1,396	29	17	24	7	80
Nanaimo	8	1,150	22	10	26	23	72
Norman Wells	44	16	1	12	4	1	4
North Bay	3	1,710	20	12	50	21	192
Ottawa/Gatineau	1	4,128	9	11	60	15	306
Peace River	33	82	18	11	10	19	14
Penticton	17	576	21	15	40	17	92
Port Hardy	43	18	4	11	4	4	4
Prince Albert	35	68	15	13	22	15	44
Prince Rupert	38	52	25	14	10	25	28
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	2	1,808	10	12	60	10	254
Rouyn-Noranda	18	404	1	22	24	4	44
Saint John	25	240	21	10	16	25	32
Sept-Îles	23	244	6	11	18	24	50
Sioux Lookout	32	92	22	21	38	22	40
Smithers	26	172	20	8	26	17	74
St. Catharines	6	1,278	15	12	32	21	92
Sudbury	11	950	29	11	26	29	88
Terrace	24	242	16	12	28	16	88
Thompson	34	72	1	22	18	29	28
Timmins	39	42	6	22	24	6	24
Val-d'Or	19	386	18	16	20	16	42
Victoria Harbour	47	6	13	8	2	13	2
Wabush	20	376	19	20	32	16	48
Whitecourt	16	604	31	10	26	23	88
Williams Lake	37	60	10	8	14	25	16

Table 11-1
Local movements - civil, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	8	4,416	12	10	76	21	332
Boundary Bay	1	12,800	7	11	94	10	632
Calgary International	39	166	26	16	14	26	52
Calgary/Springbank	3	7,436	6	13	58	1	428
Chicoutimi/St-Honoré	9	4,330	30	20	118	27	588
Edmonton City Centre	33	358	12	18	12	30	40
Edmonton International	34	310	28	12	8	1	26
Edmonton/Villeneuve	14	3,440	11	16	42	30	200
Fort McMurray	29	684	4	13	26	4	88
Fredericton International	11	4,250	14	18	42	21	292
Gander International	27	886	9	12	20	9	88
Halifax/Robert L. Stanfield International	36	276	3	1	10	3	22
Hamilton	28	856	3	10	26	8	60
Kelowna	21	1,878	14	14	34	14	114
Kitchener/Waterloo	7	4,654	2	9	56	1	316
Langley	13	3,506	9	11	40	1	180
London	18	2,412	20	17	42	20	160
Moncton/Greater Moncton International	24	1,264	22	22	32	21	118
Montréal/Pierre Elliott Trudeau International	38	198	3	13	20	3	40
Montréal/St-Hubert	4	6,288	9	13	88	14	510
Oshawa	20	2,264	2	21	34	2	152
Ottawa/Macdonald-Cartier International	25	1,018	17	19	24	17	66
Pitt Meadows	5	6,082	28	15	74	31	322
Prince George	35	278	13	15	20	19	38
Québec/Jean Lesage International	15	3,318	2	12	52	8	250
Regina International	23	1,293	1	10	30	30	108
Saskatoon/John G. Diefenbaker International	19	2,334	17	9	34	20	126
Sault Ste. Marie	17	2,538	11	9	66	11	234
St. John's International	37	206	28	14	20	28	42
St-Jean	22	1,354	27	11	32	24	98
Thunder Bay	10	4,270	26	9	78	2	378
Toronto/Billy Bishop Toronto City	16	3,156	1	16	38	8	238
Toronto/Buttonville Municipal	2	8,090	1	19	80	1	578
Toronto/Lester B. Pearson International	40	76	3	12	4	13	10
Vancouver Harbour	42	8	6	12	2	6	2
Vancouver International	41	66	2	15	20	2	30
Victoria International	12	3,944	10	9	44	30	252
Whitehorse International	31	578	13	16	20	30	56
Windsor	30	674	20	17	24	14	74
Winnipeg/James Armstrong Richardson International	26	1,002	20	21	28	17	90
Winnipeg/St. Andrews	6	5,852	18	16	60	27	396
Yellowknife	32	470	3	11	12	25	34

Table 11-2
Local movements - civil, peak hour and peak day — NAV CANADA flight service stations

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	14	762	28	10	32	28	108
Campbell River	9	1,012	29	11	38	17	80
Castlegar	41	30	3	15	10	3	10
Charlottetown	33	80	4	20	8	7	14
Churchill	44	14	3	22	8	3	8
Cranbrook	36	60	21	13	10	11	12
Deer Lake	40	36	16	15	24	16	24
Fort Nelson	28	160	12	10	12	26	40
Fort St. John	15	634	6	16	40	25	84
Grande Prairie	13	860	18	16	26	18	58
High Level	30	96	14	15	10	14	24
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	42	18	23	1	4	23	4
Iqaluit	27	168	11	9	24	11	50
Kamloops	5	1,359	17	12	32	18	138
Kenora	0	0	0	0	0	0	0
Kingston	7	1,266	16	11	38	16	114
Kuujuuaq	22	256	10	10	24	10	46
La Grande Rivière	46	10	13	8	2	15	4
La Ronge	29	142	18	21	12	18	26
Lethbridge	12	894	25	21	48	25	112
Lloydminster	21	322	3	14	18	3	28
Medicine Hat	11	898	17	19	24	31	72
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	4	1,384	29	17	24	7	80
Nanaimo	8	1,148	22	10	26	23	72
Norman Wells	43	16	1	12	4	1	4
North Bay	3	1,702	20	12	44	21	192
Ottawa/Gatineau	1	4,128	9	11	60	15	306
Peace River	32	82	18	11	10	19	14
Penticton	17	576	21	15	40	17	92
Port Hardy	45	14	4	11	4	4	4
Prince Albert	35	68	15	13	22	15	44
Prince Rupert	38	52	25	14	10	25	28
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	2	1,804	10	12	60	10	254
Rouyn-Noranda	18	404	1	22	24	4	44
Saint John	25	236	21	10	16	25	32
Sept-Îles	23	244	6	11	18	24	50
Sioux Lookout	31	92	22	21	38	22	40
Smithers	26	172	20	8	26	17	74
St. Catharines	6	1,278	15	12	32	21	92
Sudbury	10	950	29	11	26	29	88
Terrace	24	242	16	12	28	16	88
Thompson	34	72	1	22	18	29	28
Timmins	39	42	6	22	24	6	24
Val-d'Or	20	364	18	16	20	18	40
Victoria Harbour	47	6	13	8	2	13	2
Wabush	19	376	19	20	32	16	48
Whitecourt	16	604	31	10	26	23	88
Williams Lake	37	60	10	8	14	25	16

Table 12-1
Local movements - military, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	3	94	10	16	20	10	36
Boundary Bay	0	0	0	0	0	0	0
Calgary International	0	0	0	0	0	0	0
Calgary/Springbank	0	0	0	0	0	0	0
Chicoutimi/St-Honoré	0	0	0	0	0	0	0
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	10	6	15	9	2	16	4
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	9	6	10	12	4	10	4
Fredericton International	0	0	0	0	0	0	0
Gander International	0	0	0	0	0	0	0
Halifax/Robert L. Stanfield International	12	4	24	18	2	24	2
Hamilton	0	0	0	0	0	0	0
Kelowna	4	46	8	15	8	8	14
Kitchener/Waterloo	0	0	0	0	0	0	0
Langley	0	0	0	0	0	0	0
London	0	0	0	0	0	0	0
Moncton/Greater Moncton International	11	6	8	15	2	8	2
Montréal/Pierre Elliott Trudeau International	15	2	18	15	2	18	2
Montréal/St-Hubert	0	0	0	0	0	0	0
Oshawa	0	0	0	0	0	0	0
Ottawa/Macdonald-Cartier International	14	2	12	11	2	12	2
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	6	20	5	15	4	5	4
Regina International	1	270	3	18	14	23	32
Saskatoon/John G. Diefenbaker International	2	144	11	21	22	11	26
Sault Ste. Marie	0	0	0	0	0	0	0
St. John's International	16	2	13	11	2	13	2
St-Jean	0	0	0	0	0	0	0
Thunder Bay	5	22	16	15	8	16	8
Toronto/Billy Bishop Toronto City	0	0	0	0	0	0	0
Toronto/Buttonville Municipal	13	2	31	20	2	31	2
Toronto/Lester B. Pearson International	0	0	0	0	0	0	0
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	0	0	0	0	0	0	0
Victoria International	7	12	1	14	4	1	6
Whitehorse International	8	8	1	8	4	1	4
Windsor	0	0	0	0	0	0	0
Winnipeg/James Armstrong Richardson International	17	2	23	14	2	23	2
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	0	0	0	0	0	0	0

Table 12-2
Local movements - military, peak hour and peak day — NAV CANADA flight service stations

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	6	4	8	14	4	8	4
Campbell River	0	0	0	0	0	0	0
Castlegar	0	0	0	0	0	0	0
Charlottetown	2	28	24	10	14	24	22
Churchill	0	0	0	0	0	0	0
Cranbrook	0	0	0	0	0	0	0
Deer Lake	0	0	0	0	0	0	0
Fort Nelson	0	0	0	0	0	0	0
Fort St. John	0	0	0	0	0	0	0
Grande Prairie	0	0	0	0	0	0	0
High Level	0	0	0	0	0	0	0
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	0	0	0	0	0	0	0
Iqaluit	0	0	0	0	0	0	0
Kamloops	11	1	14	15	1	14	1
Kenora	0	0	0	0	0	0	0
Kingston	0	0	0	0	0	0	0
Kuujuuaq	0	0	0	0	0	0	0
La Grande Rivière	0	0	0	0	0	0	0
La Ronge	0	0	0	0	0	0	0
Lethbridge	1	122	25	21	48	24	60
Lloydminster	0	0	0	0	0	0	0
Medicine Hat	0	0	0	0	0	0	0
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	4	12	15	13	8	15	8
Nanaimo	10	2	1	15	2	1	2
Norman Wells	0	0	0	0	0	0	0
North Bay	5	8	20	12	6	20	8
Ottawa/Gatineau	0	0	0	0	0	0	0
Peace River	0	0	0	0	0	0	0
Penticton	0	0	0	0	0	0	0
Port Hardy	8	4	23	10	2	23	2
Prince Albert	0	0	0	0	0	0	0
Prince Rupert	0	0	0	0	0	0	0
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	9	4	3	14	4	3	4
Rouyn-Noranda	0	0	0	0	0	0	0
Saint John	7	4	29	9	2	29	4
Sept-Îles	0	0	0	0	0	0	0
Sioux Lookout	0	0	0	0	0	0	0
Smithers	0	0	0	0	0	0	0
St. Catharines	0	0	0	0	0	0	0
Sudbury	0	0	0	0	0	0	0
Terrace	0	0	0	0	0	0	0
Thompson	0	0	0	0	0	0	0
Timmins	0	0	0	0	0	0	0
Val-d'Or	3	22	16	14	8	16	16
Victoria Harbour	0	0	0	0	0	0	0
Wabush	0	0	0	0	0	0	0
Whitecourt	0	0	0	0	0	0	0
Williams Lake	0	0	0	0	0	0	0

Methodology

Survey universe

Coverage

The survey covers all aircraft movements at Canadian airports with NAV CANADA air traffic control towers and flight service stations.

Methodology survey

The Itinerant movement record is designed to capture:

- Aircraft identification
- Aircraft type
- The last station before landing at the reporting airport or the next station after take-off
- Arrival or departure
- Time of movement
- Runway used
- Flight rules (Instrument flight rules or Visual flight rules).

The Local aircraft movement record provides for reports of local movements by:

- Hour
- Single engine aircraft
- Multi-engine aircraft
- Jet aircraft
- Military aircraft
- Date of movement

Processing of aircraft movement statistics involves several stages. Monthly data by class of operation are released in Aircraft movement statistics - Monthly report, catalogue nos. 51-007-X and 51-008-X (TP-141). Annual tables, which may reflect revisions, are released in the two annual publications, catalogue 51-209-X Aircraft movement statistics – NAV CANADA Towers and Flight Service Stations: Annual report (TP-577) and catalogue 51-210-X Aircraft movement statistics – Airports Without Air Traffic Control Towers: Annual report (TP-577). In particular, data on itinerant movements by type of operation may reflect revisions as various sources of comparative information (data collected from commercial air carriers by the Aviation Statistics Centre, Statistics Canada) become available during the processing cycle. Finally, when revisions are required after the release of 51-209-X and 51-210-X, they are contained in the five year historical summary of subsequent editions of these reports. These revisions are also reflected in the CANSIM tables, both monthly and annual.

The records are completed daily, based on a twenty-four hour clock running from zero hour to 23:59. The times recorded are Coordinated Universal Time (UTC); however, published statistics are shown in local times. The records are transmitted to the Aviation Statistics Centre.

The Aviation Statistics Centre maintains a data base of parameter files of current information on all registered aircraft. The storage of this information reduces the reporting burden of the survey respondents and limits the element of human error associated with the preparation of source documents.

Other parameter files information includes registered aircraft identifications and their corresponding aircraft types, maximum take-off weights, types of power plant (piston, jet or turboprop); whether the aircraft are fixed wing, helicopters or gliders. This information also provides a basis for identifying type of flights (commercial, private and government) and the geographical area in which the flights take place.

The parameter files also include airport environment information against which the airport category is checked; the reported runway is validated and the time difference between UTC and Local is assigned.

Data quality and limitations

Aircraft movement statistics are accumulated from data originating with air traffic control tower units or flight service station personnel. Because staff in these positions are highly trained in factual observation and reporting, the entries in the data bank are of a high quality.

The procedures for reporting aircraft movements on the Daily air traffic records by tower units are described in the NAV CANADA Air traffic control manual of operations (TP 703) Volume 1, Para. 1023 to 1023.5. Definitions for terms used in these paragraphs can be found in the appendix II "Glossary of terms" of this report.

To maintain uniformity in the reporting of source data, ASC issues to air traffic control units an "Air traffic designators" handbook (TP 143) listing the official Transport Canada aircraft type designators and the designators of various domestic and international air carriers. This handbook and another titled "Canada flight supplement" listing various airport codes serve as references to help ensure the reporting of the proper aircraft identity and the point of origin and destination of flights.

The processing system contains editing procedures designed to identify data errors occurring during transcription or during data capture of forms. Identified errors are manually corrected by Aviation Statistics Centre editing staff.

Errors may occur if an aircraft type code which exists is reported or data captured in error for a flight. For example, the reporting or keying of B727 for a flight actually performed by a B737 may not be detected during the system editing. That the aircraft type information is recorded by highly trained air traffic control tower staff using a common handbook of official aircraft codes will minimize this problem.

Similarly, the breakdown of the data on a geographic basis by use of location codes can be subject to error. For smaller locations, alphanumeric location codes are often used and the sequence of numbers and letters determines the geographic area to which the data are assigned. In some cases, where a sequence error has been introduced into the system either at the reporting unit or at data capture, a domestic movement may be classified as transborder or vice versa. The use of common manuals of location identifiers works to minimize this occurrence.

Appendix I

Factors influencing the data

In June 2012, Porter Airlines commenced summer service to Mont Tremblant, with four weekly flights between Toronto/Billy Bishop Toronto City Airport and Mont Tremblant International Airport.

Starting in May 2012, WestJet launched a new non-stop seasonal service between Toronto/Lester B. Pearson International and Aruba, Netherlands Antilles. The airline also introduced daily non-stop flights to Chicago from both Calgary International and Vancouver International as well as from Vancouver International to Whitehorse International.

Beginning in April 2012, Porter Airlines increased weekday roundtrip flights from six to seven between Toronto/Billy Bishop Toronto City Airport and Boston's Logan International Airport.

In April 2012, Air Canada cancelled approximately 75 flights at Toronto/Lester B. Pearson International Airport due to a one day work action by the airline's pilots.

In March 2012, Air Canada experienced some delays and cancellations of flights departing Toronto/Lester B. Pearson International and Montreal/Pierre Elliot Trudeau International. This was due to a one day work action by Air Canada ground handling employees.

In January 2012, Porter Airlines started service from Toronto/Billy Bishop Toronto City Airport to Timmins, Ontario.

Beginning in December 2011, Porter Airlines added a new seasonal service from Toronto/Billy Bishop Toronto City Airport to Burlington, Vermont.

Starting in November 2011, WestJet launched its new twice-weekly seasonal service from Toronto to San Juan, Puerto Rico, two new flights flying out of London to Las Vegas and Cancun, Mexico. It has also increased service between Edmonton and Calgary from five to seven flights daily, and increased service between Vancouver and Toronto for the winter from five to six flights daily.

Starting in October 2011, Porter Airlines increased weekday roundtrip flights between Toronto/Billy Bishop Toronto City and Boston/Logan International Airport.

Beginning in September 2011, Porter Airlines has added an additional daily roundtrip flight between Toronto/Billy Bishop Toronto City Airport and Sudbury as well as Myrtle Beach, S.C.

WestJet launched twice-weekly service from both Hamilton, Ontario and Prince George, British Columbia to Las Vegas, Nevada

Bearskin Airlines has initiated daily non-stop flights between Kitchener/Waterloo and Montreal/Pierre Elliott Trudeau International Airport in May 2011.

In May 2011 WestJet has begun the reintroduction of flights from Hamilton, the addition of non-stop service from Vancouver and Calgary to Orange County, California and between Toronto and Montreal as well as between Toronto and Ottawa.

Effective in May 2011 Porter Airlines runs daily non-stop round trips from Toronto/Billy Bishop Toronto City Airport to Windsor and Sault Ste. Marie.

Starting May 1, 2011 Air Canada started cutting the following routes: Ottawa to Thunder Bay; Ottawa to Washington/Dulles International; Montreal to Washington/Dulles International; Calgary to London, Ontario; and Calgary to San Francisco.

Starting May 1, 2011 Air Canada began daily service between Toronto/Billy Bishop Toronto City Airport and Montreal/Pierre Elliott Trudeau International.

Appendix II

Glossary of terms

Air carrier

Aircraft operators, licensed by the Canadian Transportation Agency to transport persons, mail and/or goods by air.

Level I: Effective 2010, this includes every Canadian air carrier that, in the calendar year immediately preceding the reporting year, transported at least 2 million revenue passengers or at least 400 thousand tonnes of cargo.

Level II: Effective 2010, this includes every Canadian air carrier that, in the calendar year immediately preceding the reporting year, transported at least 100 thousand, but fewer than 2 million revenue passengers, or at least 50 thousand but less than 400 thousand tonnes of cargo.

Level III. Effective 2010, this includes every Canadian air carrier not classified in reporting level I or II that, in the calendar year immediately preceding the reporting year, realized gross revenues of at least 2 million dollars for the provision of air services for which the air carrier held a licence.

Level IV. Effective 2010, this includes every Canadian air carrier not classified in reporting level I, II or III that, in the calendar year immediately preceding the reporting year, realized gross revenues of less than 2 million dollars for the provision of air services for which the air carrier held a licence.

Aircraft movement

A take off, a landing, or a simulated approach by an aircraft. ATC Manops amendment 8-8-83. NC-703.

Class of operation

Aircraft movements are classified as either "Itinerant" or "Local".

Commercial

Flights by aircraft operators licensed by the Canadian Transportation Agency to perform commercial air services. Commercial operations are divided into two categories: Air carrier and Other commercial.

Domestic itinerant movements

Movements, at a Canadian airport, of aircraft departing to or arriving from another point in Canada.

FSS

Flight service station.

Government-Civil

Aircraft owned by federal, provincial and municipal bodies as well as foreign states, but excluding those owned by crown corporations, boards and commissions. Such aircraft are coded "3" under "Purpose" in the Canadian civil aircraft register.

Government-Military

Aircraft of any branch of the armed forces of any nation.

I.F.R. flight

A flight conducted in accordance with Instrument Flight Rules.

International movements

Movements, at a Canadian airport, of aircraft arriving from or departing to a point outside Canada. International movements are subclassified into "transborder" (to or from a point in the United States including Alaska, Hawaii, and Puerto Rico), and "other international" (to or from points in countries other than Canada and the United States). Since aircraft movements are reported on the basis of place "arrived from" or "departed to", an arrival at Halifax airport from London, England would appear under "other international". If the same aircraft moved on to Toronto, both the departure at Halifax and the arrival at Toronto would be shown as "domestic".

Itinerant movements

At airports with control towers and/or flight service stations: for the purpose of completing air traffic records, itinerant movements are considered as movements in which aircraft proceed to or arrive from another location; or where aircraft leave the circuit but return without landing at another airport. At airports without control towers: an aircraft movement in which the aircraft arrives from or departs to a point other than the reporting airport; or a movement by an aircraft that leaves the close proximity of an airport and returns without landing at another airport.

Local movements

At airports with control towers and/or flight service stations: for the purpose of completing air traffic records, local movements are considered as movements in which the aircraft remains in the circuit. At airports without control towers: an aircraft movement in which the aircraft remains in the close proximity of the airport. Local movements are often carried out during training flights (touch-and-go), equipment tests, etc.

Maximum take-off weight

The maximum weight for which the aircraft is licensed to operate. For operational purposes, all weights are rounded upwards to the next 1,000 kilograms. Thus 3,200 kilograms becomes 4,000 kilograms.

Other commercial

Flights performed by Commercial aircraft operators not included in the Air carrier categories. Flying schools, agricultural sprayers, water-bombers, aerial photography and survey, etc.

Power plant

The source of propulsion. For example, piston engines, turbo-propellers and jet engines. "Helicopters", in this report, include both piston and turboshaft-driven engines.

Private aircraft

Aircraft used solely for private purposes, not for hire and compensation, which are classified as "Private" or "Private Restricted" in the Canadian civil aircraft register or similar registries of other countries. Owners include individuals, groups and business firms.

Runway 88

Through control zone flights, i.e. flights which communicate with the tower while transiting the tower control zone to another destination without landing at the reporting airport.

Data for these runways are not included in the grand total.

Simulated approaches

Movements that are either missed instrument or practice instrument approaches without landing.

TC

Transport Canada.

Tower control zone

A controlled airspace within the proximity of an air traffic control tower, usually within a radius of less than 24 kilometres of the tower.

V.F.R. flight

A flight conducted in accordance with Visual flight rules.

Weight group

The classification of weight classes in groups for statistical purposes.