

Catalogue no. 51-007-X

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



June 2011



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Statistics Canada
Transportation Division

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

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- . not available for any reference period
- .. 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 ($p < 0.05$)

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Highlights

- Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations increased 0.8% in June 2011 from June 2010. These airports reported 522,496 movements compared with 518,366 movements in June 2010.
- There were 379,790 itinerant movements (flights from one airport to another) reported in June 2011. This represents a 0.4% decrease (-1,525 movements) compared with the same month a year earlier.
- In June 2011, there were 142,706 local movements (flights that remain in the vicinity of the airport) recorded. This represents an increase of 4.1% (+5,655 movements) compared with the previous year.

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

	NAV CANADA towers		NAV CANADA Flight Service Stations		Total	
	number	percent	number	percent	number	percent
Grand total	415,840	0.7	106,656	1.0	522,496	0.8
Itinerant movements						
Air carriers	226,514	1.8	61,498	2.7	288,012	2.0
Other commercial movements	26,359	-15.3	3,833	5.7	30,192	-13.1
Private movements	35,774	0.1	13,377	2.9	49,151	0.8
Government civil movements	4,882	-15.3	2,419	-25.7	7,301	-19.1
Government military movements	3,731	-20.6	1,403	-16.9	5,134	-19.6
Itinerant total	297,260	-0.9	82,530	1.3	379,790	-0.4
Local movements						
Civil local movements	117,885	4.8	23,976	0.2	141,861	4.0
Military local movements	695	75.5	150	-26.5	845	40.8
Local total	118,580	5.0	24,126	-0.1	142,706	4.1

Analysis

Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations increased 0.8% in June 2011 from June 2010. These airports reported 522,496 movements compared with 518,366 movements in June 2010. Year-over-year increases were reported by 51 airports. Toronto/Lester B. Pearson International, Ontario (36,852 movements) followed by Vancouver International, British Columbia (26,914 movements) were the most active sites in June 2011.

There were 379,790 itinerant movements (flights from one airport to another) reported in June 2011. This represents a 0.4% decrease (-1,525 movements) compared with the same month a year earlier. The year-over-year variations ranged from an increase of 1,862 movements (+9.9%) at Montréal/Pierre Elliott Trudeau International, Quebec to a drop of 1,674 movements (-28.7%) at Moncton/Greater Moncton International, New Brunswick. Forty-nine airports reported year-over-year decreases in the number of itinerant aircraft movements in June 2011.

In June 2011, there were 142,706 local movements (flights that remain in the vicinity of the airport) recorded. This represents an increase of 4.1% (+5,655 movements) compared with the previous year. Toronto/Buttonville Municipal, Ontario (9,506 movements) followed by Boundary Bay, British Columbia (8,674 movements) recorded the largest number of local movements.

Itinerant movements: domestic, transborder and international

There were 326,348 domestic itinerant movements reported by 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in June 2011, up 0.3% (+1,001 movements) from June 2010. Vancouver International, British Columbia (20,277 movements) followed by Toronto/Lester B. Pearson International, Ontario (16,933 movements) reported the greatest number of domestic itinerant movements.

Eight-four airports reported 43,179 transborder itinerant movements (between Canada and the United States) in June 2011. Toronto/Lester B. Pearson International, Ontario (15,035 movements) reported the greatest number of transborder itinerant movements. This represents 34.8% of the total transborder itinerant movements.

In June 2011, forty-one airports reported 10,263 other international itinerant movements. Toronto/Lester B. Pearson International, Ontario, recorded 4,732 other international itinerant movements. This represents 46.1% 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
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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
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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

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	18	9,316	27	3,788	6	5,528
Boundary Bay	8	14,999	15	6,325	2	8,674
Calgary International	4	20,731	4	20,573	38	158
Calgary/Springbank	12	11,805	22	4,485	4	7,320
Chicoutimi/St-Honoré	35	4,761	40	1,791	18	2,970
Edmonton City Centre	32	5,120	21	4,772	36	348
Edmonton International	13	11,447	7	11,007	34	440
Edmonton/Villeneuve	34	4,878	42	1,500	13	3,378
Fort McMurray	21	8,296	11	7,830	33	466
Fredericton International	30	5,514	32	3,072	23	2,442
Gander International	42	2,406	39	1,858	31	548
Halifax/Robert L. Stanfield International	23	7,713	14	7,276	35	437
Hamilton	37	4,392	33	3,046	27	1,346
Kelowna	24	6,933	23	4,457	22	2,476
Kitchener/Waterloo	16	10,317	20	4,859	7	5,458
Langley	27	6,558	34	2,978	12	3,580
London	17	9,720	19	5,132	9	4,588
Moncton/Greater Moncton International	25	6,904	24	4,150	20	2,754
Montréal/Pierre Elliott Trudeau International	3	20,835	3	20,699	40	136
Montréal/St-Hubert	6	16,056	12	7,584	3	8,472
Oshawa	26	6,592	31	3,378	16	3,214
Ottawa/Macdonald-Cartier International	7	15,167	5	11,883	15	3,284
Pitt Meadows	15	10,708	28	3,676	5	7,032
Prince George	39	3,717	38	2,291	25	1,426
Québec/Jean Lesage International	11	12,228	8	8,338	11	3,890
Regina International	31	5,293	26	3,877	26	1,416
Saskatoon/John G. Diefenbaker International	22	7,856	18	5,316	21	2,540
Sault Ste. Marie	29	5,748	36	2,702	17	3,046
St. John's International	38	3,772	29	3,586	37	186
St-Jean	36	4,463	37	2,385	24	2,078
Thunder Bay	19	9,194	17	5,883	14	3,311
Toronto/Billy Bishop Toronto City	14	10,744	10	7,922	19	2,822
Toronto/Buttonville Municipal	5	16,812	13	7,306	1	9,506
Toronto/Lester B. Pearson International	1	36,852	1	36,700	39	152
Vancouver Harbour	28	5,916	16	5,900	42	16
Vancouver International	2	26,914	2	26,832	41	82
Victoria International	9	12,806	9	8,294	10	4,512
Whitehorse International	40	3,474	35	2,964	32	510
Windsor	41	2,431	41	1,739	30	692
Winnipeg/James Armstrong Richardson International	10	12,655	6	11,427	28	1,228
Winnipeg/St. Andrews	20	8,897	30	3,543	8	5,354
Yellowknife	33	4,900	25	4,136	29	764
Total of NAV CANADA towers (42)	.	415,840	.	297,260	.	118,580

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	20	2,139	22	1,695	19	444
Campbell River	18	2,453	24	1,665	11	788
Castlegar	49	507	49	465	41	42
Charlottetown	42	1,170	38	1,002	29	168
Churchill	45	903	43	903	0	0
Cranbrook	40	1,257	40	941	21	316
Deer Lake	32	1,637	27	1,547	36	90
Fort Nelson	17	2,506	10	2,316	27	190
Fort St. John	14	3,021	9	2,441	16	580
Grande Prairie	4	3,556	5	2,690	9	866
High Level	25	2,010	16	1,870	32	140
Îles-de-la-Madeleine	51	401	51	401	0	0
Inuvik/Mike Zubko	36	1,481	29	1,455	44	26
Iqaluit	26	2,006	15	1,946	40	60
Kamloops	3	3,566	13	2,017	4	1,549
Kenora	34	1,493	35	1,239	23	254
Kingston	13	3,036	19	1,772	6	1,264
Kuujuuaq	37	1,459	33	1,297	30	162
La Grande Rivière	47	835	46	831	46	4
La Ronge	24	2,030	17	1,837	26	193
Lethbridge	19	2,162	26	1,571	15	591
Lloydminster	39	1,339	44	881	18	458
Medicine Hat	38	1,388	36	1,154	24	234
Mont-Joli	48	663	48	653	45	10
Montréal/Mirabel International	9	3,326	12	2,072	7	1,254
Nanaimo	6	3,421	6	2,577	10	844
Norman Wells	41	1,193	39	975	25	218
North Bay	7	3,416	18	1,788	3	1,628
Ottawa/Gatineau	1	5,548	11	2,210	1	3,338
Peace River	46	845	47	817	43	28
Penticton	21	2,071	32	1,349	13	722
Port Hardy	44	977	42	911	39	66
Prince Albert	22	2,050	14	1,950	35	100
Prince Rupert	50	442	50	442	0	0
Rankin Inlet	30	1,742	20	1,742	0	0
Red Deer Regional	5	3,497	23	1,687	2	1,810
Rouyn-Noranda	23	2,041	30	1,399	14	642
Saint John	29	1,760	34	1,276	17	484
Sept-Îles	12	3,069	4	2,771	22	298
Sioux Lookout	15	2,647	7	2,541	34	106
Smithers	28	1,853	37	1,100	12	753
St. Catharines	11	3,187	21	1,737	5	1,450
Sudbury	8	3,368	3	2,996	20	372
Terrace	35	1,489	31	1,361	33	128
Thompson	10	3,199	2	3,131	37	68
Timmins	16	2,599	8	2,533	38	66
Val-d'Or	33	1,630	28	1,460	28	170
Victoria Harbour	2	3,686	1	3,686	0	0
Wabush	31	1,659	25	1,627	42	32
Whitecourt	27	1,910	41	936	8	974
Williams Lake	43	1,013	45	867	31	146
Total of all flight service stations (51)	.	106,656	.	82,530	.	24,126

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			Local	Local	
	number							
Abbotsford	9,276	2,440	1,308	5,528	40	40	0	
Boundary Bay	14,996	4,857	1,465	8,674	3	3	0	
Calgary International	20,629	18,737	1,736	156	102	100	2	
Calgary/Springbank	11,803	2,856	1,627	7,320	2	2	0	
Chicoutimi/St-Honoré	4,760	1,571	219	2,970	1	1	0	
Edmonton City Centre	5,099	3,089	1,662	348	21	21	0	
Edmonton International	11,412	10,248	728	436	35	31	4	
Edmonton/Villeneuve	4,333	616	339	3,378	545	545	0	
Fort McMurray	8,294	6,978	850	466	2	2	0	
Fredericton International	5,465	2,761	270	2,434	49	41	8	
Gander International	2,211	1,259	404	548	195	195	0	
Halifax/Robert L. Stanfield International	7,597	6,854	324	419	116	98	18	
Hamilton	4,370	2,241	791	1,338	22	14	8	
Kelowna	6,916	3,593	849	2,474	17	15	2	
Kitchener/Waterloo	10,313	3,304	1,551	5,458	4	4	0	
Langley	6,557	1,757	1,220	3,580	1	1	0	
London	9,386	4,071	997	4,318	334	64	270	
Moncton/Greater Moncton International	6,891	3,792	345	2,754	13	13	0	
Montréal/Pierre Elliott Trudeau International	20,808	19,050	1,622	136	27	27	0	
Montréal/St-Hubert	15,960	6,006	1,482	8,472	96	96	0	
Oshawa	6,582	2,067	1,309	3,206	10	2	8	
Ottawa/Macdonald-Cartier International	14,928	10,884	768	3,276	239	231	8	
Pitt Meadows	10,461	1,868	1,561	7,032	247	247	0	
Prince George	3,712	1,737	549	1,426	5	5	0	
Québec/Jean Lesage International	12,124	6,765	1,479	3,880	104	94	10	
Regina International	5,031	3,023	786	1,222	262	68	194	
Saskatoon/John G. Diefenbaker International	7,713	4,408	855	2,450	143	53	90	
Sault Ste. Marie	5,722	2,461	219	3,042	26	22	4	
St. John's International	3,648	3,195	267	186	124	124	0	
St-Jean	3,484	268	1,138	2,078	979	979	0	
Thunder Bay	9,106	5,194	630	3,282	88	59	29	
Toronto/Billy Bishop Toronto City	10,731	7,189	724	2,818	13	9	4	
Toronto/Buttonville Municipal	16,812	3,818	3,488	9,506	0	0	0	
Toronto/Lester B. Pearson International	36,833	35,376	1,305	152	19	19	0	
Vancouver Harbour	5,912	5,833	63	16	4	4	0	
Vancouver International	26,898	25,428	1,388	82	16	16	0	
Victoria International	12,625	6,514	1,621	4,490	181	159	22	
Whitehorse International	3,470	2,359	601	510	4	4	0	
Windsor	2,427	1,329	406	692	4	4	0	
Winnipeg/James Armstrong Richardson International	12,386	10,175	991	1,220	269	261	8	
Winnipeg/St. Andrews	8,895	3,060	481	5,354	2	2	0	
Yellowknife	4,838	3,842	238	758	62	56	6	
Total of NAV CANADA towers (42)	411,414	252,873	40,656	117,885	4,426	3,731	695	

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	1,664	664	578	422	475	453	22
Campbell River	2,435	1,101	547	787	18	17	1
Castlegar	505	405	58	42	2	2	0
Charlottetown	1,142	820	164	158	28	18	10
Churchill	900	845	55	0	3	3	0
Cranbrook	1,237	628	303	306	20	10	10
Deer Lake	1,603	1,438	75	90	34	34	0
Fort Nelson	2,486	2,018	278	190	20	20	0
Fort St. John	2,997	2,008	409	580	24	24	0
Grande Prairie	3,392	2,096	430	866	164	164	0
High Level	2,010	1,780	90	140	0	0	0
Îles-de-la-Madeleine	399	353	46	0	2	2	0
Inuvik/Mike Zubko	1,468	1,390	52	26	13	13	0
Iqaluit	1,958	1,713	185	60	48	48	0
Kamloops	3,557	1,529	480	1,548	9	8	1
Kenora	1,359	827	354	178	134	58	76
Kingston	2,995	1,196	537	1,262	41	39	2
Kuujuuaq	1,445	1,210	73	162	14	14	0
La Grande Rivière	833	772	57	4	2	2	0
La Ronge	2,028	1,328	507	193	2	2	0
Lethbridge	2,156	1,074	491	591	6	6	0
Lloydminster	1,326	559	309	458	13	13	0
Medicine Hat	1,353	846	273	234	35	35	0
Mont-Joli	646	592	54	0	17	7	10
Montréal/Mirabel International	3,290	1,486	554	1,250	36	32	4
Nanaimo	3,411	1,430	1,137	844	10	10	0
Norman Wells	1,193	932	43	218	0	0	0
North Bay	3,339	1,250	461	1,628	77	77	0
Ottawa/Gatineau	5,532	1,162	1,032	3,338	16	16	0
Peace River	845	738	79	28	0	0	0
Penticton	2,006	846	438	722	65	65	0
Port Hardy	959	765	128	66	18	18	0
Prince Albert	2,024	1,598	338	88	26	14	12
Prince Rupert	440	347	93	0	2	2	0
Rankin Inlet	1,742	1,716	26	0	0	0	0
Red Deer Regional	3,416	1,011	597	1,808	81	79	2
Rouyn-Noranda	2,033	1,128	263	642	8	8	0
Saint John	1,757	877	396	484	3	3	0
Sept-Îles	3,067	2,440	329	298	2	2	0
Sioux Lookout	2,644	2,407	131	106	3	3	0
Smithers	1,853	962	138	753	0	0	0
St. Catharines	3,185	1,107	628	1,450	2	2	0
Sudbury	3,340	2,399	569	372	28	28	0
Terrace	1,489	1,269	92	128	0	0	0
Thompson	3,195	2,755	372	68	4	4	0
Timmins	2,573	2,090	417	66	26	26	0
Val-d'Or	1,620	1,084	366	170	10	10	0
Victoria Harbour	3,674	3,560	114	0	12	12	0
Wabush	1,659	1,298	329	32	0	0	0
Whitecourt	1,910	794	142	974	0	0	0
Williams Lake	1,013	688	179	146	0	0	0
Total of all flight service stations (51)	105,103	65,331	15,796	23,976	1,553	1,403	150

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	3,788	436	1,838	166	1,191	117	40
Boundary Bay	6,325	11	1,319	3,527	1,440	25	3
Calgary International	20,573	17,303	969	465	1,602	134	100
Calgary/Springbank	4,485	26	580	2,250	1,617	10	2
Chicoutimi/St-Honoré	1,791	532	147	892	217	2	1
Edmonton City Centre	4,772	1,145	679	1,265	1,009	653	21
Edmonton International	11,007	9,939	262	47	722	6	31
Edmonton/Villeneuve	1,500	3	110	503	333	6	545
Fort McMurray	7,830	1,874	4,958	146	742	108	2
Fredericton International	3,072	905	1,845	11	206	64	41
Gander International	1,858	555	683	21	322	82	195
Halifax/Robert L. Stanfield International	7,276	6,455	383	16	280	44	98
Hamilton	3,046	2,034	179	28	481	310	14
Kelowna	4,457	2,806	471	316	732	117	15
Kitchener/Waterloo	4,859	503	2,736	65	1,541	10	4
Langley	2,978	9	253	1,495	1,206	14	1
London	5,132	1,167	777	2,127	909	88	64
Moncton/Greater Moncton International	4,150	1,792	1,976	24	187	158	13
Montréal/Pierre Elliott Trudeau International	20,699	17,864	1,117	69	1,446	176	27
Montréal/St-Hubert	7,584	3,379	865	1,762	1,408	74	96
Oshawa	3,378	60	73	1,934	1,228	81	2
Ottawa/Macdonald-Cartier International	11,883	8,225	349	2,310	451	317	231
Pitt Meadows	3,676	49	1,225	594	1,517	44	247
Prince George	2,291	1,252	460	25	479	70	5
Québec/Jean Lesage International	8,338	4,060	2,412	293	1,162	317	94
Regina International	3,877	2,128	837	58	612	174	68
Saskatoon/John G. Diefenbaker International	5,316	3,241	710	457	626	229	53
Sault Ste. Marie	2,702	1,092	134	1,235	189	30	22
St. John's International	3,586	2,507	673	15	131	136	124
St-Jean	2,385	13	165	90	1,132	6	979
Thunder Bay	5,883	3,093	771	1,330	485	145	59
Toronto/Billy Bishop Toronto City	7,922	4,875	1,246	1,068	722	2	9
Toronto/Buttonville Municipal	7,306	211	3,541	66	3,362	126	0
Toronto/Lester B. Pearson International	36,700	34,610	755	11	1,275	30	19
Vancouver Harbour	5,900	4,942	883	8	58	5	4
Vancouver International	26,832	23,150	2,102	176	1,031	357	16
Victoria International	8,294	3,245	2,670	599	1,592	29	159
Whitehorse International	2,964	1,255	1,079	25	557	44	4
Windsor	1,739	737	528	64	376	30	4
Winnipeg/James Armstrong Richardson International	11,427	9,596	518	61	580	411	261
Winnipeg/St. Andrews	3,543	722	1,598	740	481	0	2
Yellowknife	4,136	3,240	597	5	137	101	56
Total of NAV CANADA towers (42)	297,260	181,041	45,473	26,359	35,774	4,882	3,731

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	1,695	128	480	56	556	22	453
Campbell River	1,665	668	216	217	537	10	17
Castlegar	465	292	95	18	56	2	2
Charlottetown	1,002	772	44	4	153	11	18
Churchill	903	799	44	2	43	12	3
Cranbrook	941	570	55	3	282	21	10
Deer Lake	1,547	1,107	319	12	34	41	34
Fort Nelson	2,316	486	1,530	2	276	2	20
Fort St. John	2,441	866	1,126	16	397	12	24
Grande Prairie	2,690	1,286	700	110	410	20	164
High Level	1,870	557	1,221	2	68	22	0
Îles-de-la-Madeleine	401	321	24	8	16	30	2
Inuvik/Mike Zubko	1,455	1,137	249	4	23	29	13
Iqaluit	1,946	1,437	180	96	111	74	48
Kamloops	2,017	901	457	171	471	9	8
Kenora	1,239	430	365	32	310	44	58
Kingston	1,772	446	362	388	508	29	39
Kuujuuaq	1,297	956	239	15	49	24	14
La Grande Rivière	831	593	172	7	37	20	2
La Ronge	1,837	1,247	79	2	88	419	2
Lethbridge	1,571	458	46	570	467	24	6
Lloydminster	881	214	340	5	293	16	13
Medicine Hat	1,154	512	295	39	262	11	35
Mont-Joli	653	507	59	26	40	14	7
Montréal/Mirabel International	2,072	892	510	84	550	4	32
Nanaimo	2,577	517	751	162	1,112	25	10
Norman Wells	975	684	246	2	18	25	0
North Bay	1,788	667	436	147	410	51	77
Ottawa/Gatineau	2,210	123	653	386	967	65	16
Peace River	817	399	329	10	67	12	0
Penticton	1,349	314	490	42	414	24	65
Port Hardy	911	712	49	4	108	20	18
Prince Albert	1,950	1,511	71	16	175	163	14
Prince Rupert	442	328	17	2	77	16	2
Rankin Inlet	1,742	1,311	405	0	18	8	0
Red Deer Regional	1,687	266	644	101	563	34	79
Rouyn-Noranda	1,399	629	176	323	239	24	8
Saint John	1,276	753	74	50	390	6	3
Sept-Îles	2,771	1,304	907	229	162	167	2
Sioux Lookout	2,541	1,859	517	31	116	15	3
Smithers	1,100	498	456	8	130	8	0
St. Catharines	1,737	11	1,030	66	610	18	2
Sudbury	2,996	1,617	694	88	418	151	28
Terrace	1,361	688	575	6	76	16	0
Thompson	3,131	2,338	413	4	57	315	4
Timmins	2,533	1,633	445	12	308	109	26
Val-d'Or	1,460	751	280	53	273	93	10
Victoria Harbour	3,686	3,521	39	0	25	89	12
Wabush	1,627	872	343	83	302	27	0
Whitecourt	936	42	645	107	138	4	0
Williams Lake	867	430	246	12	167	12	0
Total of all flight service stations (51)	82,530	41,360	20,138	3,833	13,377	2,419	1,403

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	3,788	766	20.2	3,022	79.7	1,756
Boundary Bay	6,325	295	4.6	6,030	95.3	819
Calgary International	20,573	19,468	94.6	1,105	5.3	513
Calgary/Springbank	4,485	384	8.5	4,101	91.4	151
Chicoutimi/St-Honoré	1,791	218	12.1	1,573	87.8	280
Edmonton City Centre	4,772	2,215	46.4	2,557	53.5	1,398
Edmonton International	11,007	10,608	96.3	399	3.6	683
Edmonton/Villeneuve	1,500	45	3.0	1,455	97.0	131
Fort McMurray	7,830	2,182	27.8	5,648	72.1	253
Fredericton International	3,072	1,178	38.3	1,894	61.6	129
Gander International	1,858	1,272	68.4	586	31.5	253
Halifax/Robert L. Stanfield International	7,276	6,870	94.4	406	5.5	315
Hamilton	3,046	2,192	71.9	854	28.0	1,239
Kelowna	4,457	2,622	58.8	1,835	41.1	934
Kitchener/Waterloo	4,859	843	17.3	4,016	82.6	868
Langley	2,978	32	1.0	2,946	98.9	706
London	5,132	1,477	28.7	3,655	71.2	730
Moncton/Greater Moncton International	4,150	2,091	50.3	2,059	49.6	94
Montréal/Pierre Elliott Trudeau International	20,699	20,018	96.7	681	3.2	1,555
Montréal/St-Hubert	7,584	1,791	23.6	5,793	76.3	996
Oshawa	3,378	143	4.2	3,235	95.7	690
Ottawa/Macdonald-Cartier International	11,883	9,016	75.8	2,867	24.1	1,491
Pitt Meadows	3,676	52	1.4	3,624	98.5	2,318
Prince George	2,291	1,331	58.0	960	41.9	549
Québec/Jean Lesage International	8,338	5,158	61.8	3,180	38.1	1,305
Regina International	3,877	2,565	66.1	1,312	33.8	185
Saskatoon/John G. Diefenbaker International	5,316	3,721	69.9	1,595	30.0	218
Sault Ste. Marie	2,702	1,268	46.9	1,434	53.0	210
St. John's International	3,586	3,282	91.5	304	8.4	89
St-Jean	2,385	40	1.6	2,345	98.3	544
Thunder Bay	5,883	3,759	63.8	2,124	36.1	275
Toronto/Billy Bishop Toronto City	7,922	5,272	66.5	2,650	33.4	2,768
Toronto/Buttonville Municipal	7,306	846	11.5	6,460	88.4	1,472
Toronto/Lester B. Pearson International	36,700	36,558	99.6	142	0.3	273
Vancouver Harbour	5,900	0	0.0	5,900	100.0	2,545
Vancouver International	26,832	21,255	79.2	5,577	20.7	11,013
Victoria International	8,294	3,502	42.2	4,792	57.7	5,622
Whitehorse International	2,964	777	26.2	2,187	73.7	781
Windsor	1,739	868	49.9	871	50.0	133
Winnipeg/James Armstrong Richardson International	11,427	9,946	87.0	1,481	12.9	735
Winnipeg/St. Andrews	3,543	85	2.3	3,458	97.6	159
Yellowknife	4,136	2,060	49.8	2,076	50.1	1,115
Total of NAV CANADA towers (42)	297,260	188,071	63.3	109,189	36.7	48,293

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	1,695	276	16.2	1,419	83.7	266
Campbell River	1,665	495	29.7	1,170	70.2	404
Castlegar	465	287	61.7	178	38.2	98
Charlottetown	1,002	891	88.9	111	11.0	57
Churchill	903	828	91.6	75	8.3	82
Cranbrook	941	636	67.5	305	32.4	187
Deer Lake	1,547	1,303	84.2	244	15.7	59
Fort Nelson	2,316	517	22.3	1,799	77.6	142
Fort St. John	2,441	917	37.5	1,524	62.4	115
Grande Prairie	2,690	1,468	54.5	1,222	45.4	183
High Level	1,870	279	14.9	1,591	85.0	279
Îles-de-la-Madeleine	401	396	98.7	5	1.2	4
Inuvik/Mike Zubko	1,455	359	24.6	1,096	75.3	46
Iqaluit	1,946	1,414	72.6	532	27.3	3
Kamloops	2,017	995	49.3	1,022	50.6	486
Kenora	1,239	703	56.7	536	43.2	404
Kingston	1,772	630	35.5	1,142	64.4	177
Kuujuuaq	1,297	432	33.3	865	66.6	23
La Grande Rivière	831	670	80.6	161	19.3	123
La Ronge	1,837	834	45.4	1,003	54.5	1,609
Lethbridge	1,571	560	35.6	1,011	64.3	33
Lloydminster	881	260	29.5	621	70.4	24
Medicine Hat	1,154	451	39.0	703	60.9	206
Mont-Joli	653	508	77.7	145	22.2	26
Montréal/Mirabel International	2,072	1,100	53.0	972	46.9	979
Nanaimo	2,577	627	24.3	1,950	75.6	983
Norman Wells	975	214	21.9	761	78.0	110
North Bay	1,788	819	45.8	969	54.1	664
Ottawa/Gatineau	2,210	205	9.2	2,005	90.7	526
Peace River	817	359	43.9	458	56.0	7
Penticton	1,349	308	22.8	1,041	77.1	161
Port Hardy	911	345	37.8	566	62.1	247
Prince Albert	1,950	1,558	79.8	392	20.1	142
Prince Rupert	442	301	68.0	141	31.9	32
Rankin Inlet	1,742	1,120	64.2	622	35.7	7
Red Deer Regional	1,687	371	21.9	1,316	78.0	336
Rouyn-Noranda	1,399	852	60.9	547	39.0	129
Saint John	1,276	992	77.7	284	22.2	38
Sept-Îles	2,771	1,846	66.6	925	33.3	496
Sioux Lookout	2,541	1,855	73.0	686	26.9	1,654
Smithers	1,100	468	42.5	632	57.4	466
St. Catharines	1,737	149	8.5	1,588	91.4	364
Sudbury	2,996	1,891	63.1	1,105	36.8	188
Terrace	1,361	673	49.4	688	50.5	151
Thompson	3,131	1,696	54.1	1,435	45.8	343
Timmins	2,533	1,774	70.0	759	29.9	337
Val-d'Or	1,460	808	55.3	652	44.6	567
Victoria Harbour	3,686	3	0.0	3,683	99.9	839
Wabush	1,627	1,207	74.1	420	25.8	894
Whitecourt	936	69	7.3	867	92.6	141
Williams Lake	867	441	50.8	426	49.1	203
Total of all flight service stations (51)	82,530	38,160	46.2	44,370	53.8	16,040

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	3,788	450	220	2,508	597	13
Boundary Bay	6,325	22	56	5,988	259	0
Calgary International	20,573	13,739	5,537	392	905	0
Calgary/Springbank	4,485	39	98	3,660	688	0
Chicoutimi/St-Honoré	1,791	3	105	1,558	125	0
Edmonton City Centre	4,772	426	1,663	1,901	782	0
Edmonton International	11,007	7,104	3,458	387	58	0
Edmonton/Villeneuve	1,500	23	30	1,103	129	215
Fort McMurray	7,830	1,206	2,629	1,199	2,796	0
Fredericton International	3,072	393	701	1,820	158	0
Gander International	1,858	579	616	460	203	0
Halifax/Robert L. Stanfield International	7,276	4,272	2,451	238	315	0
Hamilton	3,046	1,423	871	586	166	0
Kelowna	4,457	1,063	1,578	1,464	352	0
Kitchener/Waterloo	4,859	210	522	3,853	274	0
Langley	2,978	1	8	2,349	616	4
London	5,132	446	1,000	3,466	213	7
Moncton/Greater Moncton International	4,150	1,184	732	2,175	59	0
Montréal/Pierre Elliott Trudeau International	20,699	13,321	6,619	490	269	0
Montréal/St-Hubert	7,584	240	934	6,121	289	0
Oshawa	3,378	17	30	3,221	106	4
Ottawa/Macdonald-Cartier International	11,883	6,014	3,022	2,564	283	0
Pitt Meadows	3,676	3	118	3,110	325	120
Prince George	2,291	388	1,015	572	316	0
Québec/Jean Lesage International	8,338	1,407	3,628	2,505	797	1
Regina International	3,877	1,672	729	1,427	44	5
Saskatoon/John G. Diefenbaker International	5,316	1,625	2,002	1,642	47	0
Sault Ste. Marie	2,702	37	1,202	1,405	58	0
St. John's International	3,586	1,556	1,649	62	319	0
St-Jean	2,385	2	23	1,504	29	827
Thunder Bay	5,883	764	2,957	1,803	359	0
Toronto/Billy Bishop Toronto City	7,922	6	5,215	2,183	518	0
Toronto/Buttonville Municipal	7,306	65	396	6,469	376	0
Toronto/Lester B. Pearson International	36,700	30,400	6,198	68	34	0
Vancouver Harbour	5,900	0	3,376	1,683	841	0
Vancouver International	26,832	12,633	10,196	3,012	991	0
Victoria International	8,294	1,242	2,327	4,455	269	1
Whitehorse International	2,964	511	628	1,128	697	0
Windsor	1,739	174	678	851	35	1
Winnipeg/James Armstrong Richardson International	11,427	5,335	4,647	1,116	329	0
Winnipeg/St. Andrews	3,543	0	727	2,586	229	1
Yellowknife	4,136	787	2,366	398	585	0
Total of NAV CANADA towers (42)	297,260	110,782	82,957	85,482	16,840	1,199

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	1,695	16	269	1,108	94	208
Campbell River	1,665	40	724	581	320	0
Castlegar	465	2	339	89	35	0
Charlottetown	1,002	467	364	148	23	0
Churchill	903	23	811	42	27	0
Cranbrook	941	47	574	285	35	0
Deer Lake	1,547	400	946	52	149	0
Fort Nelson	2,316	101	463	386	1,366	0
Fort St. John	2,441	290	669	495	987	0
Grande Prairie	2,690	209	1,161	651	503	166
High Level	1,870	7	800	485	578	0
Îles-de-la-Madeleine	401	14	361	26	0	0
Inuvik/Mike Zubko	1,455	108	817	293	237	0
Iqaluit	1,946	451	1,297	43	155	0
Kamloops	2,017	108	887	695	327	0
Kenora	1,239	105	611	309	214	0
Kingston	1,772	36	493	1,042	201	0
Kuujuuaq	1,297	133	874	133	157	0
La Grande Rivière	831	94	653	72	12	0
La Ronge	1,837	16	1,293	456	72	0
Lethbridge	1,571	53	590	889	39	0
Lloydminster	881	10	320	499	52	0
Medicine Hat	1,154	27	541	514	72	0
Mont-Joli	653	12	489	125	27	0
Montréal/Mirabel International	2,072	641	364	638	429	0
Nanaimo	2,577	27	539	1,847	163	1
Norman Wells	975	178	316	240	241	0
North Bay	1,788	87	794	422	485	0
Ottawa/Gatineau	2,210	9	158	1,768	273	2
Peace River	817	12	363	130	312	0
Penticton	1,349	31	353	473	492	0
Port Hardy	911	28	537	287	59	0
Prince Albert	1,950	22	1,557	286	85	0
Prince Rupert	442	31	305	53	53	0
Rankin Inlet	1,742	175	1,171	9	387	0
Red Deer Regional	1,687	67	360	1,193	64	3
Rouyn-Noranda	1,399	78	789	446	86	0
Saint John	1,276	366	577	228	105	0
Sept-Îles	2,771	99	1,584	463	625	0
Sioux Lookout	2,541	7	2,071	421	42	0
Smithers	1,100	7	543	162	387	1
St. Catharines	1,737	34	52	1,232	419	0
Sudbury	2,996	54	1,948	588	406	0
Terrace	1,361	32	672	63	594	0
Thompson	3,131	22	2,373	522	214	0
Timmins	2,533	28	1,946	400	159	0
Val-d'Or	1,460	95	734	524	107	0
Victoria Harbour	3,686	0	2,705	212	769	0
Wabush	1,627	35	1,113	147	332	0
Whitecourt	936	14	35	146	741	0
Williams Lake	867	4	499	203	161	0
Total of all flight service stations (51)	82,530	4,952	40,804	22,521	13,872	381

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	2,699	421	92	49	18	12	486	11	0	0
Boundary Bay	5,938	323	63	1	0	0	0	0	0	0
Calgary International	820	564	1,546	2,074	1,082	4,830	7,979	796	183	699
Calgary/Springbank	4,108	252	96	26	3	0	0	0	0	0
Chicoutimi/St-Honoré	1,467	223	91	9	0	1	0	0	0	0
Edmonton City Centre	2,257	468	1,517	335	147	38	0	10	0	0
Edmonton International	269	210	513	1,070	454	2,543	5,216	452	179	101
Edmonton/Villeneuve	1,358	56	64	22	0	0	0	0	0	0
Fort McMurray	3,100	1,445	1,063	707	84	809	622	0	0	0
Fredericton International	1,870	180	180	212	222	360	48	0	0	0
Gander International	435	57	52	503	334	284	73	90	6	24
Halifax/Robert L. Stanfield International	152	236	357	1,185	598	1,811	2,353	255	167	162
Hamilton	357	626	245	358	226	75	491	25	519	124
Kelowna	1,616	191	296	608	55	850	833	0	8	0
Kitchener/Waterloo	3,997	154	494	79	41	33	61	0	0	0
Langley	2,851	81	43	2	0	1	0	0	0	0
London	3,339	353	143	178	472	443	195	6	0	3
Moncton/Greater Moncton International	2,073	156	165	492	86	620	297	0	261	0
Montréal/Pierre Elliott Trudeau International	562	201	988	839	3,153	6,533	5,170	1,377	0	1,876
Montréal/St-Hubert	5,569	751	730	345	173	14	2	0	0	0
Oshawa	3,239	80	40	17	2	0	0	0	0	0
Ottawa/Macdonald-Cartier International	2,545	228	914	353	544	3,489	3,105	409	48	248
Pitt Meadows	3,340	294	26	16	0	0	0	0	0	0
Prince George	727	221	98	666	14	379	186	0	0	0
Québec/Jean Lesage International	2,847	462	1,019	549	1,412	1,852	120	12	0	65
Regina International	1,271	218	387	367	50	873	623	0	88	0
Saskatoon/John G. Diefenbaker International	1,426	295	778	833	265	1,007	679	8	25	0
Sault Ste. Marie	1,403	129	569	96	346	159	0	0	0	0
St. John's International	51	44	255	642	734	452	1,101	207	88	12
St-Jean	2,347	10	18	0	4	6	0	0	0	0
Thunder Bay	1,714	364	2,255	257	191	811	289	2	0	0
Toronto/Billy Bishop Toronto City	2,329	215	619	80	11	4,668	0	0	0	0
Toronto/Buttonville Municipal	6,458	487	248	98	13	2	0	0	0	0
Toronto/Lester B. Pearson International	31	162	422	2,186	4,093	7,643	13,982	3,996	294	3,891
Vancouver Harbour	528	4,746	607	13	6	0	0	0	0	0
Vancouver International	1,181	3,996	856	2,811	1,981	5,573	6,259	1,906	282	1,987
Victoria International	3,794	1,036	230	459	709	1,371	618	38	37	2
Whitehorse International	1,497	425	320	68	41	387	206	2	0	18
Windsor	790	123	57	98	363	224	82	2	0	0
Winnipeg/James Armstrong Richardson International	781	769	3,062	440	1,048	1,951	2,323	343	660	50
Winnipeg/St. Andrews	2,450	970	123	0	0	0	0	0	0	0
Yellowknife	633	511	912	324	220	763	598	173	0	2
Total of NAV CANADA towers (42)	86,219	22,733	22,553	19,467	19,195	50,867	53,997	10,120	2,845	9,264

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	1,275	83	259	12	24	6	0	36	0	0
Campbell River	811	105	32	522	178	9	6	2	0	0
Castlegar	94	64	19	69	64	155	0	0	0	0
Charlottetown	107	148	52	207	55	349	82	2	0	0
Churchill	42	28	133	104	127	461	6	2	0	0
Cranbrook	256	76	54	280	165	110	0	0	0	0
Deer Lake	157	28	87	376	449	257	171	22	0	0
Fort Nelson	1,133	194	493	248	146	50	52	0	0	0
Fort St. John	1,299	139	250	324	142	259	28	0	0	0
Grande Prairie	1,048	267	478	232	14	510	141	0	0	0
High Level	845	297	405	220	6	83	14	0	0	0
Îles-de-la-Madeleine	4	22	118	67	150	38	0	2	0	0
Inuvik/Mike Zubko	449	87	695	12	41	60	103	8	0	0
Iqaluit	98	25	583	210	272	337	309	60	0	52
Kamloops	825	104	149	307	141	417	74	0	0	0
Kenora	260	113	713	64	57	14	2	16	0	0
Kingston	1,138	48	151	296	118	15	0	6	0	0
Kuujuuaq	168	110	699	12	104	91	90	4	0	19
La Grande Rivière	25	65	188	6	56	403	86	2	0	0
La Ronge	137	298	722	128	274	278	0	0	0	0
Lethbridge	767	165	256	302	18	61	2	0	0	0
Lloydminster	475	100	164	141	1	0	0	0	0	0
Medicine Hat	535	53	267	274	8	8	0	9	0	0
Mont-Joli	57	90	117	253	108	26	0	2	0	0
Montréal/Mirabel International	818	333	58	106	44	158	65	4	289	197
Nanaimo	1,509	509	42	93	49	375	0	0	0	0
Norman Wells	313	204	201	34	4	43	176	0	0	0
North Bay	803	278	336	87	173	99	10	2	0	0
Ottawa/Gatineau	1,798	219	79	104	6	2	0	2	0	0
Peace River	208	169	373	47	16	4	0	0	0	0
Penticton	775	196	51	125	13	168	21	0	0	0
Port Hardy	94	242	309	108	140	16	2	0	0	0
Prince Albert	186	126	402	486	368	382	0	0	0	0
Prince Rupert	54	72	76	42	61	135	2	0	0	0
Rankin Inlet	280	120	430	123	281	340	166	0	0	2
Red Deer Regional	1,026	220	261	122	38	19	1	0	0	0
Rouyn-Noranda	508	16	397	34	230	154	60	0	0	0
Saint John	223	184	138	257	168	304	0	2	0	0
Sept-Îles	660	435	497	552	569	56	2	0	0	0
Sioux Lookout	118	353	1,164	626	279	1	0	0	0	0
Smithers	500	74	79	278	55	114	0	0	0	0
St. Catharines	1,484	128	71	20	30	2	0	2	0	0
Sudbury	506	482	1,192	238	384	170	20	4	0	0
Terrace	550	104	135	223	163	186	0	0	0	0
Thompson	235	570	1,481	32	193	614	2	4	0	0
Timmins	356	369	1,123	99	495	91	0	0	0	0
Val-d'Or	481	96	208	100	320	198	55	0	0	2
Victoria Harbour	398	2,650	602	25	11	0	0	0	0	0
Wabush	328	187	326	353	384	45	4	0	0	0
Whitecourt	834	43	27	28	4	0	0	0	0	0
Williams Lake	324	21	53	456	0	13	0	0	0	0
Total of all flight service stations (51)	27,374	11,109	17,195	9,464	7,196	7,686	1,752	193	289	272

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	3,697	429	1,825	166	1,120	117	40
Transborder	91	7	13	0	71	0	0
Other international	0	0	0	0	0	0	0
Total	3,788	436	1,838	166	1,191	117	40
Boundary Bay							
Domestic	6,189	11	1,315	3,486	1,352	25	0
Transborder	136	0	4	41	88	0	3
Other international	0	0	0	0	0	0	0
Total	6,325	11	1,319	3,527	1,440	25	3
Calgary International							
Domestic	16,591	13,782	880	460	1,236	134	99
Transborder	3,435	2,978	87	5	364	0	1
Other international	547	543	2	0	2	0	0
Total	20,573	17,303	969	465	1,602	134	100
Calgary/Springbank							
Domestic	4,418	25	571	2,248	1,562	10	2
Transborder	67	1	9	2	55	0	0
Other international	0	0	0	0	0	0	0
Total	4,485	26	580	2,250	1,617	10	2
Chicoutimi/St-Honoré							
Domestic	1,790	532	147	892	216	2	1
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,791	532	147	892	217	2	1
Edmonton City Centre							
Domestic	4,738	1,140	673	1,258	993	653	21
Transborder	34	5	6	7	16	0	0
Other international	0	0	0	0	0	0	0
Total	4,772	1,145	679	1,265	1,009	653	21
Edmonton International							
Domestic	9,617	8,623	251	46	660	6	31
Transborder	1,288	1,214	11	1	62	0	0
Other international	102	102	0	0	0	0	0
Total	11,007	9,939	262	47	722	6	31
Edmonton/Villeneuve							
Domestic	1,499	3	110	503	332	6	545
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,500	3	110	503	333	6	545
Fort McMurray							
Domestic	7,825	1,873	4,957	146	739	108	2
Transborder	5	1	1	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	7,830	1,874	4,958	146	742	108	2
Fredericton International							
Domestic	3,036	894	1,844	9	186	64	39
Transborder	36	11	1	2	20	0	2
Other international	0	0	0	0	0	0	0
Total	3,072	905	1,845	11	206	64	41
Gander International							
Domestic	1,359	429	680	6	81	81	82
Transborder	236	59	0	6	116	1	54
Other international	263	67	3	9	125	0	59
Total	1,858	555	683	21	322	82	195

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	6,085	5,354	377	14	219	44	77
Transborder	996	928	6	0	51	0	11
Other international	195	173	0	2	10	0	10
Total	7,276	6,455	383	16	280	44	98
Hamilton							
Domestic	2,397	1,527	153	26	370	308	13
Transborder	626	492	23	2	106	2	1
Other international	23	15	3	0	5	0	0
Total	3,046	2,034	179	28	481	310	14
Kelowna							
Domestic	4,240	2,675	460	316	658	117	14
Transborder	216	131	11	0	73	0	1
Other international	1	0	0	0	1	0	0
Total	4,457	2,806	471	316	732	117	15
Kitchener/Waterloo							
Domestic	4,641	495	2,699	64	1,369	10	4
Transborder	215	8	37	1	169	0	0
Other international	3	0	0	0	3	0	0
Total	4,859	503	2,736	65	1,541	10	4
Langley							
Domestic	2,960	9	253	1,494	1,189	14	1
Transborder	18	0	0	1	17	0	0
Other international	0	0	0	0	0	0	0
Total	2,978	9	253	1,495	1,206	14	1
London							
Domestic	4,893	1,035	772	2,127	824	88	47
Transborder	233	130	5	0	81	0	17
Other international	6	2	0	0	4	0	0
Total	5,132	1,167	777	2,127	909	88	64
Moncton/Greater Moncton International							
Domestic	4,066	1,725	1,976	23	171	158	13
Transborder	83	67	0	1	15	0	0
Other international	1	0	0	0	1	0	0
Total	4,150	1,792	1,976	24	187	158	13
Montréal/Pierre Elliott Trudeau International							
Domestic	12,159	10,148	919	55	839	176	22
Transborder	6,282	5,516	180	6	577	0	3
Other international	2,258	2,200	18	8	30	0	2
Total	20,699	17,864	1,117	69	1,446	176	27
Montréal/St-Hubert							
Domestic	7,391	3,371	857	1,758	1,246	68	91
Transborder	189	6	8	4	162	4	5
Other international	4	2	0	0	0	2	0
Total	7,584	3,379	865	1,762	1,408	74	96
Oshawa							
Domestic	3,339	56	71	1,934	1,195	81	2
Transborder	35	4	2	0	29	0	0
Other international	4	0	0	0	4	0	0
Total	3,378	60	73	1,934	1,228	81	2
Ottawa/Macdonald-Cartier International							
Domestic	9,826	6,334	323	2,297	357	301	214
Transborder	1,903	1,753	23	13	90	16	8
Other international	154	138	3	0	4	0	9
Total	11,883	8,225	349	2,310	451	317	231

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	3,654	49	1,223	594	1,497	44	247
Transborder	22	0	2	0	20	0	0
Other international	0	0	0	0	0	0	0
Total	3,676	49	1,225	594	1,517	44	247
Prince George							
Domestic	2,253	1,249	460	25	444	70	5
Transborder	38	3	0	0	35	0	0
Other international	0	0	0	0	0	0	0
Total	2,291	1,252	460	25	479	70	5
Québec/Jean Lesage International							
Domestic	7,509	3,343	2,394	290	1,076	317	89
Transborder	750	655	12	2	81	0	0
Other international	79	62	6	1	5	0	5
Total	8,338	4,060	2,412	293	1,162	317	94
Regina International							
Domestic	3,516	1,843	832	55	545	174	67
Transborder	360	284	5	3	67	0	1
Other international	1	1	0	0	0	0	0
Total	3,877	2,128	837	58	612	174	68
Saskatoon/John G. Diefenbaker International							
Domestic	5,066	3,045	707	455	578	229	52
Transborder	250	196	3	2	48	0	1
Other international	0	0	0	0	0	0	0
Total	5,316	3,241	710	457	626	229	53
Sault Ste. Marie							
Domestic	2,658	1,087	127	1,235	159	30	20
Transborder	38	5	3	0	28	0	2
Other international	6	0	4	0	2	0	0
Total	2,702	1,092	134	1,235	189	30	22
St. John's International							
Domestic	3,244	2,334	663	9	74	133	31
Transborder	129	48	1	2	31	0	47
Other international	213	125	9	4	26	3	46
Total	3,586	2,507	673	15	131	136	124
St-Jean							
Domestic	2,383	13	165	90	1,130	6	979
Transborder	1	0	0	0	1	0	0
Other international	1	0	0	0	1	0	0
Total	2,385	13	165	90	1,132	6	979
Thunder Bay							
Domestic	5,792	3,070	767	1,329	423	144	59
Transborder	91	23	4	1	62	1	0
Other international	0	0	0	0	0	0	0
Total	5,883	3,093	771	1,330	485	145	59
Toronto/Billy Bishop Toronto City							
Domestic	6,583	3,703	1,211	1,066	592	2	9
Transborder	1,339	1,172	35	2	130	0	0
Other international	0	0	0	0	0	0	0
Total	7,922	4,875	1,246	1,068	722	2	9
Toronto/Buttonville Municipal							
Domestic	7,064	175	3,490	65	3,208	126	0
Transborder	241	36	51	1	153	0	0
Other international	1	0	0	0	1	0	0
Total	7,306	211	3,541	66	3,362	126	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	16,933	15,973	447	3	463	30	17
Transborder	15,035	13,990	278	3	763	0	1
Other international	4,732	4,647	30	5	49	0	1
Total	36,700	34,610	755	11	1,275	30	19
Vancouver Harbour							
Domestic	5,896	4,939	882	8	58	5	4
Transborder	4	3	1	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	5,900	4,942	883	8	58	5	4
Vancouver International							
Domestic	20,277	17,040	2,051	160	657	357	12
Transborder	5,051	4,622	41	16	368	0	4
Other international	1,504	1,488	10	0	6	0	0
Total	26,832	23,150	2,102	176	1,031	357	16
Victoria International							
Domestic	7,634	2,811	2,658	594	1,388	29	154
Transborder	657	432	12	5	203	0	5
Other international	3	2	0	0	1	0	0
Total	8,294	3,245	2,670	599	1,592	29	159
Whitehorse International							
Domestic	2,825	1,235	1,072	24	452	38	4
Transborder	121	6	5	1	103	6	0
Other international	18	14	2	0	2	0	0
Total	2,964	1,255	1,079	25	557	44	4
Windsor							
Domestic	1,607	680	512	62	319	30	4
Transborder	124	53	16	1	54	0	0
Other international	8	4	0	1	3	0	0
Total	1,739	737	528	64	376	30	4
Winnipeg/James Armstrong Richardson International							
Domestic	10,198	8,564	498	47	425	411	253
Transborder	1,205	1,016	19	12	151	0	7
Other international	24	16	1	2	4	0	1
Total	11,427	9,596	518	61	580	411	261
Winnipeg/St. Andrews							
Domestic	3,532	721	1,596	737	476	0	2
Transborder	10	1	2	3	4	0	0
Other international	1	0	0	0	1	0	0
Total	3,543	722	1,598	740	481	0	2
Yellowknife							
Domestic	4,125	3,239	597	5	132	101	51
Transborder	9	1	0	0	3	0	5
Other international	2	0	0	0	2	0	0
Total	4,136	3,240	597	5	137	101	56
Total of NAV CANADA towers (42)							
Domestic	245,505	135,583	44,465	26,181	31,010	4,847	3,419
Transborder	41,601	35,857	917	146	4,472	30	179
Other international	10,154	9,601	91	32	292	5	133
Total	297,260	181,041	45,473	26,359	35,774	4,882	3,731

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	1,677	128	478	55	542	22	452
Transborder	18	0	2	1	14	0	1
Other international	0	0	0	0	0	0	0
Total	1,695	128	480	56	556	22	453
Campbell River							
Domestic	1,602	661	216	217	481	10	17
Transborder	63	7	0	0	56	0	0
Other international	0	0	0	0	0	0	0
Total	1,665	668	216	217	537	10	17
Castlegar							
Domestic	457	292	94	18	49	2	2
Transborder	8	0	1	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	465	292	95	18	56	2	2
Charlottetown							
Domestic	983	769	43	4	138	11	18
Transborder	17	3	1	0	13	0	0
Other international	2	0	0	0	2	0	0
Total	1,002	772	44	4	153	11	18
Churchill							
Domestic	902	799	44	2	42	12	3
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	903	799	44	2	43	12	3
Cranbrook							
Domestic	923	570	54	3	265	21	10
Transborder	18	0	1	0	17	0	0
Other international	0	0	0	0	0	0	0
Total	941	570	55	3	282	21	10
Deer Lake							
Domestic	1,545	1,106	318	12	34	41	34
Transborder	1	1	0	0	0	0	0
Other international	1	0	1	0	0	0	0
Total	1,547	1,107	319	12	34	41	34
Fort Nelson							
Domestic	2,316	486	1,530	2	276	2	20
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,316	486	1,530	2	276	2	20
Fort St. John							
Domestic	2,439	866	1,126	16	395	12	24
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,441	866	1,126	16	397	12	24
Grande Prairie							
Domestic	2,688	1,286	700	110	408	20	164
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,690	1,286	700	110	410	20	164
High Level							
Domestic	1,870	557	1,221	2	68	22	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,870	557	1,221	2	68	22	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						
Îles-de-la-Madeleine							
Domestic	394	317	24	8	13	30	2
Transborder	3	0	0	0	3	0	0
Other international	4	4	0	0	0	0	0
Total	401	321	24	8	16	30	2
Inuvik/Mike Zubko							
Domestic	1,453	1,137	249	3	22	29	13
Transborder	2	0	0	1	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,455	1,137	249	4	23	29	13
Iqaluit							
Domestic	1,859	1,405	175	93	66	74	46
Transborder	18	11	0	0	7	0	0
Other international	69	21	5	3	38	0	2
Total	1,946	1,437	180	96	111	74	48
Kamloops							
Domestic	2,001	899	452	171	462	9	8
Transborder	16	2	5	0	9	0	0
Other international	0	0	0	0	0	0	0
Total	2,017	901	457	171	471	9	8
Kenora							
Domestic	1,072	419	363	32	158	44	56
Transborder	167	11	2	0	152	0	2
Other international	0	0	0	0	0	0	0
Total	1,239	430	365	32	310	44	58
Kingston							
Domestic	1,742	442	360	388	485	29	38
Transborder	30	4	2	0	23	0	1
Other international	0	0	0	0	0	0	0
Total	1,772	446	362	388	508	29	39
Kuujuuaq							
Domestic	1,295	954	239	15	49	24	14
Transborder	1	1	0	0	0	0	0
Other international	1	1	0	0	0	0	0
Total	1,297	956	239	15	49	24	14
La Grande Rivière							
Domestic	831	593	172	7	37	20	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	831	593	172	7	37	20	2
La Ronge							
Domestic	1,824	1,247	79	2	75	419	2
Transborder	13	0	0	0	13	0	0
Other international	0	0	0	0	0	0	0
Total	1,837	1,247	79	2	88	419	2
Lethbridge							
Domestic	1,467	458	43	566	370	24	6
Transborder	104	0	3	4	97	0	0
Other international	0	0	0	0	0	0	0
Total	1,571	458	46	570	467	24	6
Lloydminster							
Domestic	881	214	340	5	293	16	13
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	881	214	340	5	293	16	13

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	1,144	507	293	39	259	11	35	
Transborder	10	5	2	0	3	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,154	512	295	39	262	11	35	
Mont-Joli								
Domestic	651	507	59	26	38	14	7	
Transborder	2	0	0	0	2	0	0	
Other international	0	0	0	0	0	0	0	
Total	653	507	59	26	40	14	7	
Montréal/Mirabel International								
Domestic	1,833	671	510	84	532	4	32	
Transborder	222	204	0	0	18	0	0	
Other international	17	17	0	0	0	0	0	
Total	2,072	892	510	84	550	4	32	
Nanaimo								
Domestic	2,503	514	749	162	1,043	25	10	
Transborder	69	3	2	0	64	0	0	
Other international	5	0	0	0	5	0	0	
Total	2,577	517	751	162	1,112	25	10	
Norman Wells								
Domestic	975	684	246	2	18	25	0	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	975	684	246	2	18	25	0	
North Bay								
Domestic	1,736	660	432	144	372	51	77	
Transborder	51	6	4	3	38	0	0	
Other international	1	1	0	0	0	0	0	
Total	1,788	667	436	147	410	51	77	
Ottawa/Gatineau								
Domestic	2,205	123	652	386	963	65	16	
Transborder	5	0	1	0	4	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,210	123	653	386	967	65	16	
Peace River								
Domestic	816	399	329	10	66	12	0	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	817	399	329	10	67	12	0	
Penticton								
Domestic	1,309	312	490	42	376	24	65	
Transborder	40	2	0	0	38	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,349	314	490	42	414	24	65	
Port Hardy								
Domestic	861	707	49	4	67	20	14	
Transborder	50	5	0	0	41	0	4	
Other international	0	0	0	0	0	0	0	
Total	911	712	49	4	108	20	18	
Prince Albert								
Domestic	1,949	1,511	71	16	174	163	14	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,950	1,511	71	16	175	163	14	

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	411	326	17	2	48	16	2
Transborder	30	1	0	0	29	0	0
Other international	1	1	0	0	0	0	0
Total	442	328	17	2	77	16	2
Rankin Inlet							
Domestic	1,741	1,311	405	0	17	8	0
Transborder	0	0	0	0	0	0	0
Other international	1	0	0	0	1	0	0
Total	1,742	1,311	405	0	18	8	0
Red Deer Regional							
Domestic	1,674	264	644	101	552	34	79
Transborder	13	2	0	0	11	0	0
Other international	0	0	0	0	0	0	0
Total	1,687	266	644	101	563	34	79
Rouyn-Noranda							
Domestic	1,399	629	176	323	239	24	8
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,399	629	176	323	239	24	8
Saint John							
Domestic	1,185	751	73	50	302	6	3
Transborder	88	2	1	0	85	0	0
Other international	3	0	0	0	3	0	0
Total	1,276	753	74	50	390	6	3
Sept-Îles							
Domestic	2,715	1,286	906	227	127	167	2
Transborder	54	17	1	1	35	0	0
Other international	2	1	0	1	0	0	0
Total	2,771	1,304	907	229	162	167	2
Sioux Lookout							
Domestic	2,522	1,858	511	31	104	15	3
Transborder	19	1	6	0	12	0	0
Other international	0	0	0	0	0	0	0
Total	2,541	1,859	517	31	116	15	3
Smithers							
Domestic	1,090	498	456	8	120	8	0
Transborder	10	0	0	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	1,100	498	456	8	130	8	0
St. Catharines							
Domestic	1,672	8	1,023	65	556	18	2
Transborder	65	3	7	1	54	0	0
Other international	0	0	0	0	0	0	0
Total	1,737	11	1,030	66	610	18	2
Sudbury							
Domestic	2,974	1,613	690	88	404	151	28
Transborder	21	4	4	0	13	0	0
Other international	1	0	0	0	1	0	0
Total	2,996	1,617	694	88	418	151	28
Terrace							
Domestic	1,356	688	575	5	72	16	0
Transborder	5	0	0	1	4	0	0
Other international	0	0	0	0	0	0	0
Total	1,361	688	575	6	76	16	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	3,123	2,338	413	4	49	315	4
Transborder	8	0	0	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	3,131	2,338	413	4	57	315	4
Timmins							
Domestic	2,529	1,632	445	12	305	109	26
Transborder	4	1	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	2,533	1,633	445	12	308	109	26
Val-d'Or							
Domestic	1,460	751	280	53	273	93	10
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,460	751	280	53	273	93	10
Victoria Harbour							
Domestic	3,365	3,201	39	0	24	89	12
Transborder	320	319	0	0	1	0	0
Other international	1	1	0	0	0	0	0
Total	3,686	3,521	39	0	25	89	12
Wabush							
Domestic	1,624	872	342	83	300	27	0
Transborder	3	0	1	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,627	872	343	83	302	27	0
Whitecourt							
Domestic	936	42	645	107	138	4	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	936	42	645	107	138	4	0
Williams Lake							
Domestic	864	430	245	12	165	12	0
Transborder	3	0	1	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	867	430	246	12	167	12	0
Total of all flight service stations (51)							
Domestic	80,843	40,698	20,085	3,817	12,431	2,419	1,393
Transborder	1,578	615	47	12	896	0	8
Other international	109	47	6	4	50	0	2
Total	82,530	41,360	20,138	3,833	13,377	2,419	1,403

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	18	9,316	30	14	89	4	567
Boundary Bay	8	14,999	16	11	132	6	726
Calgary International	4	20,731	22	18	61	29	819
Calgary/Springbank	12	11,805	14	13	111	21	782
Chicoutimi/St-Honoré	35	4,761	7	13	80	7	420
Edmonton City Centre	32	5,120	22	17	37	22	294
Edmonton International	13	11,447	14	7	39	14	489
Edmonton/Villeneuve	34	4,878	8	15	91	12	444
Fort McMurray	21	8,296	10	14	48	8	432
Fredericton International	30	5,514	8	12	47	23	327
Gander International	42	2,406	25	16	39	25	236
Halifax/Robert L. Stanfield International	23	7,713	20	15	36	20	313
Hamilton	37	4,392	19	15	58	17	239
Kelowna	24	6,933	13	11	65	13	315
Kitchener/Waterloo	16	10,317	14	22	89	15	642
Langley	27	6,558	10	11	79	10	339
London	17	9,720	3	11	67	3	672
Moncton/Greater Moncton International	25	6,904	12	22	49	28	520
Montréal/Pierre Elliott Trudeau International	3	20,835	14	18	62	10	791
Montréal/St-Hubert	6	16,056	6	21	139	20	1,143
Oshawa	26	6,592	26	14	71	3	397
Ottawa/Macdonald-Cartier International	7	15,167	10	12	82	16	719
Pitt Meadows	15	10,708	4	9	98	4	696
Prince George	39	3,717	26	13	61	13	213
Québec/Jean Lesage International	11	12,228	8	9	85	15	665
Regina International	31	5,293	10	14	41	6	283
Saskatoon/John G. Diefenbaker International	22	7,856	6	14	60	14	395
Sault Ste. Marie	29	5,748	3	15	61	2	359
St. John's International	38	3,772	3	12	17	29	189
St-Jean	36	4,463	27	14	87	27	402
Thunder Bay	19	9,194	24	14	106	6	475
Toronto/Billy Bishop Toronto City	14	10,744	5	13	70	5	499
Toronto/Buttonville Municipal	5	16,812	30	9	145	30	1,113
Toronto/Lester B. Pearson International	1	36,852	30	19	107	30	1,388
Vancouver Harbour	28	5,916	16	8	32	10	256
Vancouver International	2	26,914	29	16	83	30	1,032
Victoria International	9	12,806	25	17	84	25	604
Whitehorse International	40	3,474	8	12	32	8	184
Windsor	41	2,431	18	14	34	21	124
Winnipeg/James Armstrong Richardson International	10	12,655	24	9	51	1	532
Winnipeg/St. Andrews	20	8,897	1	16	76	6	543
Yellowknife	33	4,900	2	17	42	1	242

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	20	2,139	18	13	47	11	191
Campbell River	18	2,453	21	11	31	22	127
Castlegar	49	507	24	14	14	24	45
Charlottetown	42	1,170	6	18	15	23	63
Churchill	45	903	7	17	8	28	51
Cranbrook	40	1,257	15	10	26	22	106
Deer Lake	32	1,637	15	14	26	15	84
Fort Nelson	17	2,506	7	15	29	7	139
Fort St. John	14	3,021	21	12	49	21	201
Grande Prairie	4	3,556	7	12	58	8	203
High Level	25	2,010	11	15	34	25	164
Îles-de-la-Madeleine	51	401	23	13	6	23	27
Inuvik/Mike Zubko	36	1,481	8	14	13	27	94
Iqaluit	26	2,006	12	16	24	27	110
Kamloops	3	3,566	5	11	38	30	281
Kenora	34	1,493	9	20	44	1	117
Kingston	13	3,036	12	14	41	3	177
Kuujuuaq	37	1,459	28	11	19	28	88
La Grande Rivière	47	835	15	9	8	17	46
La Ronge	24	2,030	1	21	20	1	147
Lethbridge	19	2,162	2	10	26	2	155
Lloydminster	39	1,339	20	18	30	6	86
Medicine Hat	38	1,388	12	11	20	21	120
Mont-Joli	48	663	10	13	10	10	40
Montréal/Mirabel International	9	3,326	28	15	49	14	197
Nanaimo	6	3,421	4	16	38	3	215
Norman Wells	41	1,193	10	20	17	6	74
North Bay	7	3,416	2	15	42	10	303
Ottawa/Gatineau	1	5,548	4	15	77	4	493
Peace River	46	845	23	10	12	23	45
Penticton	21	2,071	14	16	56	14	155
Port Hardy	44	977	15	13	17	20	54
Prince Albert	22	2,050	14	16	18	7	116
Prince Rupert	50	442	27	14	7	27	29
Rankin Inlet	30	1,742	24	12	14	24	85
Red Deer Regional	5	3,497	24	13	63	28	302
Rouyn-Noranda	23	2,041	20	18	31	26	142
Saint John	29	1,760	20	17	22	11	102
Sept-Îles	12	3,069	10	11	29	15	162
Sioux Lookout	15	2,647	18	15	19	29	130
Smithers	28	1,853	2	10	88	2	136
St. Catharines	11	3,187	17	17	47	30	187
Sudbury	8	3,368	2	15	56	2	186
Terrace	35	1,489	28	17	22	28	102
Thompson	10	3,199	30	11	23	30	156
Timmins	16	2,599	11	11	35	11	125
Val-d'Or	33	1,630	13	19	23	16	109
Victoria Harbour	2	3,686	2	8	21	10	166
Wabush	31	1,659	21	11	14	23	91
Whitecourt	27	1,910	6	15	34	27	140
Williams Lake	43	1,013	14	9	24	13	61

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	27	3,788	11	9	43	11	233
Boundary Bay	15	6,325	4	11	49	5	355
Calgary International	4	20,573	22	18	61	29	807
Calgary/Springbank	22	4,485	25	11	36	9	276
Chicoutimi/St-Honoré	40	1,791	18	12	22	18	149
Edmonton City Centre	21	4,772	29	10	27	22	264
Edmonton International	7	11,007	14	7	39	14	461
Edmonton/Villeneuve	42	1,500	4	14	36	12	234
Fort McMurray	11	7,830	8	12	37	8	430
Fredericton International	32	3,072	7	16	18	23	177
Gander International	39	1,858	14	18	14	30	117
Halifax/Robert L. Stanfield International	14	7,276	3	13	26	3	299
Hamilton	33	3,046	18	15	37	17	161
Kelowna	23	4,457	11	10	34	11	200
Kitchener/Waterloo	20	4,859	11	9	42	3	271
Langley	34	2,978	26	14	27	26	181
London	19	5,132	30	13	33	3	292
Moncton/Greater Moncton International	24	4,150	28	16	22	28	292
Montréal/Pierre Elliott Trudeau International	3	20,699	6	18	61	10	785
Montréal/St-Hubert	12	7,584	10	12	48	27	520
Oshawa	31	3,378	11	10	56	30	196
Ottawa/Macdonald-Cartier International	5	11,883	21	16	46	14	505
Pitt Meadows	28	3,676	26	14	64	26	402
Prince George	38	2,291	14	10	15	13	101
Québec/Jean Lesage International	8	8,338	10	12	42	10	421
Regina International	26	3,877	22	19	19	22	180
Saskatoon/John G. Diefenbaker International	18	5,316	9	16	27	23	235
Sault Ste. Marie	36	2,702	29	12	20	13	137
St. John's International	29	3,586	3	11	15	29	181
St-Jean	37	2,385	27	14	63	27	250
Thunder Bay	17	5,883	10	11	29	2	272
Toronto/Billy Bishop Toronto City	10	7,922	5	16	40	30	365
Toronto/Buttonville Municipal	13	7,306	3	14	46	30	449
Toronto/Lester B. Pearson International	1	36,700	30	19	105	30	1,382
Vancouver Harbour	16	5,900	16	8	32	16	252
Vancouver International	2	26,832	29	16	83	30	1,030
Victoria International	9	8,294	17	16	35	16	330
Whitehorse International	35	2,964	1	11	19	8	130
Windsor	41	1,739	15	15	13	2	84
Winnipeg/James Armstrong Richardson International	6	11,427	27	15	38	10	468
Winnipeg/St. Andrews	30	3,543	1	16	24	1	198
Yellowknife	25	4,136	1	12	23	8	189

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	22	1,695	5	13	28	11	177
Campbell River	24	1,665	26	12	14	4	88
Castlegar	49	465	17	16	9	14	27
Charlottetown	38	1,002	27	19	8	24	49
Churchill	43	903	7	17	8	28	51
Cranbrook	40	941	21	17	13	21	52
Deer Lake	27	1,547	1	12	12	28	72
Fort Nelson	10	2,316	1	16	21	1	137
Fort St. John	9	2,441	14	7	18	14	126
Grande Prairie	5	2,690	12	12	22	11	135
High Level	16	1,870	24	19	21	25	132
Îles-de-la-Madeleine	51	401	23	13	6	23	27
Inuvik/Mike Zubko	29	1,455	8	14	13	8	87
Iqaluit	15	1,946	30	13	16	27	108
Kamloops	13	2,017	5	10	22	5	135
Kenora	35	1,239	2	12	9	16	69
Kingston	19	1,772	18	12	14	3	107
Kuujuuaq	33	1,297	27	18	12	27	68
La Grande Rivière	46	831	15	9	8	30	45
La Ronge	17	1,837	14	15	17	1	121
Lethbridge	26	1,571	1	10	21	27	110
Lloydminster	44	881	1	14	8	28	51
Medicine Hat	36	1,154	21	10	13	21	76
Mont-Joli	48	653	14	8	9	14	38
Montréal/Mirabel International	12	2,072	17	11	15	14	109
Nanaimo	6	2,577	4	16	38	3	173
Norman Wells	39	975	13	11	14	3	57
North Bay	18	1,788	3	14	17	3	107
Ottawa/Gatineau	11	2,210	4	11	28	10	171
Peace River	47	817	9	14	7	8	43
Penticton	32	1,349	4	13	12	21	68
Port Hardy	42	911	8	12	9	30	45
Prince Albert	14	1,950	14	16	16	7	116
Prince Rupert	50	442	27	14	7	27	29
Rankin Inlet	20	1,742	24	12	14	24	85
Red Deer Regional	23	1,687	29	10	21	29	119
Rouyn-Noranda	30	1,399	9	17	12	7	79
Saint John	34	1,276	23	18	9	17	59
Sept-Îles	4	2,771	16	10	18	15	150
Sioux Lookout	7	2,541	28	8	17	29	118
Smithers	37	1,100	2	14	13	1	55
St. Catharines	21	1,737	3	11	17	3	110
Sudbury	3	2,996	10	14	22	16	139
Terrace	31	1,361	9	10	12	9	69
Thompson	2	3,131	30	11	21	30	152
Timmins	8	2,533	11	11	35	11	125
Val-d'Or	28	1,460	16	14	13	16	107
Victoria Harbour	1	3,686	2	8	21	10	166
Wabush	25	1,627	21	11	14	23	77
Whitecourt	41	936	27	18	17	27	78
Williams Lake	45	867	14	9	8	21	42

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	6	5,528	30	14	72	4	348
Boundary Bay	2	8,674	16	11	118	6	452
Calgary International	38	158	18	9	16	23	20
Calgary/Springbank	4	7,320	14	13	90	21	528
Chicoutimi/St-Honoré	18	2,970	7	13	72	7	344
Edmonton City Centre	36	348	30	18	18	5	40
Edmonton International	34	440	6	16	14	6	32
Edmonton/Villeneuve	13	3,378	8	15	88	2	270
Fort McMurray	33	466	10	10	18	10	66
Fredericton International	23	2,442	8	12	34	21	160
Gander International	31	548	25	16	32	25	128
Halifax/Robert L. Stanfield International	35	437	1	14	24	1	44
Hamilton	27	1,346	30	9	36	5	106
Kelowna	22	2,476	13	11	52	13	170
Kitchener/Waterloo	7	5,458	14	22	76	14	394
Langley	12	3,580	10	11	70	10	236
London	9	4,588	24	15	56	3	380
Moncton/Greater Moncton International	20	2,754	12	22	38	12	304
Montréal/Pierre Elliott Trudeau International	40	136	25	10	22	25	28
Montréal/St-Hubert	3	8,472	6	21	124	20	716
Oshawa	16	3,214	30	8	44	3	210
Ottawa/Macdonald-Cartier International	15	3,284	6	11	44	6	252
Pitt Meadows	5	7,032	6	11	66	3	498
Prince George	25	1,426	13	12	48	13	112
Québec/Jean Lesage International	11	3,890	8	9	64	14	274
Regina International	26	1,416	10	14	30	6	124
Saskatoon/John G. Diefenbaker International	21	2,540	6	14	42	14	176
Sault Ste. Marie	17	3,046	3	15	48	2	238
St. John's International	37	186	17	11	10	17	20
St-Jean	24	2,078	28	11	42	10	162
Thunder Bay	14	3,311	24	14	80	6	238
Toronto/Billy Bishop Toronto City	19	2,822	29	10	44	27	176
Toronto/Buttonville Municipal	1	9,506	12	9	122	30	664
Toronto/Lester B. Pearson International	39	152	1	11	22	1	36
Vancouver Harbour	42	16	10	10	8	10	8
Vancouver International	41	82	4	9	18	4	32
Victoria International	10	4,512	25	17	60	25	312
Whitehorse International	32	510	8	12	24	9	56
Windsor	30	692	18	14	26	21	64
Winnipeg/James Armstrong Richardson International	28	1,228	1	22	20	1	78
Winnipeg/St. Andrews	8	5,354	5	15	54	6	366
Yellowknife	29	764	2	17	30	2	96

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	19	444	18	13	36	18	102
Campbell River	11	788	21	11	28	21	60
Castlegar	41	42	24	14	12	24	20
Charlottetown	29	168	6	18	10	23	20
Churchill	0	0	0	0	0	0	0
Cranbrook	21	316	15	10	18	22	74
Deer Lake	36	90	15	14	20	15	26
Fort Nelson	27	190	9	14	18	5	58
Fort St. John	16	580	21	12	44	21	86
Grande Prairie	9	866	7	12	52	7	110
High Level	32	140	11	15	28	11	36
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	44	26	27	21	10	27	10
Iqaluit	40	60	12	16	16	12	16
Kamloops	4	1,549	30	10	36	30	204
Kenora	23	254	9	20	40	1	58
Kingston	6	1,264	12	14	34	18	84
Kuuujuaq	30	162	28	11	10	28	28
La Grande Rivière	46	4	17	8	2	17	4
La Ronge	26	193	22	14	16	22	36
Lethbridge	15	591	5	16	18	2	52
Lloydminster	18	458	20	18	26	4	44
Medicine Hat	24	234	21	16	16	21	44
Mont-Joli	45	10	10	13	8	10	10
Montréal/Mirabel International	7	1,254	28	15	40	28	108
Nanaimo	10	844	6	10	24	28	78
Norman Wells	25	218	10	20	16	12	30
North Bay	3	1,628	29	11	36	10	196
Ottawa/Gatineau	1	3,338	4	15	64	4	328
Peace River	43	28	23	10	8	23	12
Penticton	13	722	14	15	48	14	104
Port Hardy	39	66	15	13	10	17	14
Prince Albert	35	100	6	10	14	6	26
Prince Rupert	0	0	0	0	0	0	0
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	2	1,810	28	15	52	28	188
Rouyn-Noranda	14	642	20	18	28	26	94
Saint John	17	484	2	12	18	11	56
Sept-Îles	22	298	2	15	16	24	40
Sioux Lookout	34	106	18	15	12	18	30
Smithers	12	753	2	10	82	2	84
St. Catharines	5	1,450	17	17	38	30	94
Sudbury	20	372	2	15	52	2	54
Terrace	33	128	28	17	20	28	38
Thompson	37	68	2	18	10	15	16
Timmins	38	66	28	19	24	28	24
Val-d'Or	28	170	3	19	16	13	26
Victoria Harbour	0	0	0	0	0	0	0
Wabush	42	32	23	13	10	23	14
Whitecourt	8	974	7	14	32	28	88
Williams Lake	31	146	17	10	18	13	30

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	6	5,528	30	14	72	4	348
Boundary Bay	2	8,674	16	11	118	6	452
Calgary International	38	156	18	9	16	23	20
Calgary/Springbank	4	7,320	14	13	90	21	528
Chicoutimi/St-Honoré	18	2,970	7	13	72	7	344
Edmonton City Centre	36	348	30	18	18	5	40
Edmonton International	34	436	6	16	14	6	32
Edmonton/Villeneuve	13	3,378	8	15	88	2	270
Fort McMurray	33	466	10	10	18	10	66
Fredericton International	23	2,434	8	12	34	21	160
Gander International	31	548	25	16	32	25	128
Halifax/Robert L. Stanfield International	35	419	1	14	24	1	44
Hamilton	26	1,338	30	9	36	5	106
Kelowna	21	2,474	13	11	52	13	170
Kitchener/Waterloo	7	5,458	14	22	76	14	394
Langley	12	3,580	10	11	70	10	236
London	10	4,318	24	14	46	3	380
Moncton/Greater Moncton International	20	2,754	12	22	38	12	304
Montréal/Pierre Elliott Trudeau International	40	136	25	10	22	25	28
Montréal/St-Hubert	3	8,472	6	21	124	20	716
Oshawa	16	3,206	30	8	44	3	210
Ottawa/Macdonald-Cartier International	15	3,276	6	11	44	6	252
Pitt Meadows	5	7,032	6	11	66	3	498
Prince George	25	1,426	13	12	48	13	112
Québec/Jean Lesage International	11	3,880	8	9	64	14	274
Regina International	27	1,222	10	14	30	6	118
Saskatoon/John G. Diefenbaker International	22	2,450	6	14	42	14	172
Sault Ste. Marie	17	3,042	3	15	48	2	238
St. John's International	37	186	17	11	10	17	20
St-Jean	24	2,078	28	11	42	10	162
Thunder Bay	14	3,282	24	14	80	6	238
Toronto/Billy Bishop Toronto City	19	2,818	29	10	44	27	176
Toronto/Buttonville Municipal	1	9,506	12	9	122	30	664
Toronto/Lester B. Pearson International	39	152	1	11	22	1	36
Vancouver Harbour	42	16	10	10	8	10	8
Vancouver International	41	82	4	9	18	4	32
Victoria International	9	4,490	25	17	60	25	312
Whitehorse International	32	510	8	12	24	9	56
Windsor	30	692	18	14	26	21	64
Winnipeg/James Armstrong Richardson International	28	1,220	1	22	20	1	78
Winnipeg/St. Andrews	8	5,354	5	15	54	6	366
Yellowknife	29	758	2	17	30	2	96

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	19	422	18	13	36	18	98
Campbell River	11	787	21	11	28	21	60
Castlegar	41	42	24	14	12	24	20
Charlottetown	30	158	6	18	10	23	20
Churchill	0	0	0	0	0	0	0
Cranbrook	21	306	15	10	18	22	74
Deer Lake	35	90	15	14	20	15	26
Fort Nelson	26	190	9	14	18	5	58
Fort St. John	16	580	21	12	44	21	86
Grande Prairie	9	866	7	12	52	7	110
High Level	32	140	11	15	28	11	36
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	44	26	27	21	10	27	10
Iqaluit	40	60	12	16	16	12	16
Kamloops	4	1,548	30	10	36	30	204
Kenora	27	178	9	20	40	1	58
Kingston	6	1,262	12	14	34	18	84
Kuuujuaq	29	162	28	11	10	28	28
La Grande Rivière	45	4	17	8	2	17	4
La Ronge	25	193	22	14	16	22	36
Lethbridge	15	591	5	16	18	2	52
Lloydminster	18	458	20	18	26	4	44
Medicine Hat	23	234	21	16	16	21	44
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	7	1,250	28	15	40	28	108
Nanaimo	10	844	6	10	24	28	78
Norman Wells	24	218	10	20	16	12	30
North Bay	3	1,628	29	11	36	10	196
Ottawa/Gatineau	1	3,338	4	15	64	4	328
Peace River	43	28	23	10	8	23	12
Penticton	13	722	14	15	48	14	104
Port Hardy	38	66	15	13	10	17	14
Prince Albert	36	88	6	10	14	6	20
Prince Rupert	0	0	0	0	0	0	0
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	2	1,808	28	15	52	28	188
Rouyn-Noranda	14	642	20	18	28	26	94
Saint John	17	484	2	12	18	11	56
Sept-Îles	22	298	2	15	16	24	40
Sioux Lookout	34	106	18	15	12	18	30
Smithers	12	753	2	10	82	2	84
St. Catharines	5	1,450	17	17	38	30	94
Sudbury	20	372	2	15	52	2	54
Terrace	33	128	28	17	20	28	38
Thompson	37	68	2	18	10	15	16
Timmins	39	66	28	19	24	28	24
Val-d'Or	28	170	3	19	16	13	26
Victoria Harbour	0	0	0	0	0	0	0
Wabush	42	32	23	13	10	23	14
Whitecourt	8	974	7	14	32	28	88
Williams Lake	31	146	17	10	18	13	30

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	0	0	0	0	0	0	0
Boundary Bay	0	0	0	0	0	0	0
Calgary International	17	2	29	13	2	29	2
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	14	4	1	16	2	1	2
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	0	0	0	0	0	0	0
Fredericton International	9	8	27	9	6	27	6
Gander International	0	0	0	0	0	0	0
Halifax/Robert L. Stanfield International	6	18	23	12	4	6	4
Hamilton	8	8	17	13	6	17	6
Kelowna	18	2	29	11	2	29	2
Kitchener/Waterloo	0	0	0	0	0	0	0
Langley	0	0	0	0	0	0	0
London	1	270	24	15	56	25	80
Moncton/Greater Moncton International	0	0	0	0	0	0	0
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	0	0	0	0	0	0	0
Oshawa	12	8	18	12	2	18	4
Ottawa/Macdonald-Cartier International	10	8	2	10	4	2	4
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	7	10	5	16	4	5	4
Regina International	2	194	27	9	10	23	24
Saskatoon/John G. Diefenbaker International	3	90	27	22	16	27	26
Sault Ste. Marie	15	4	19	13	4	19	4
St. John's International	0	0	0	0	0	0	0
St-Jean	0	0	0	0	0	0	0
Thunder Bay	4	29	13	10	8	13	25
Toronto/Billy Bishop Toronto City	16	4	25	13	2	25	2
Toronto/Buttonville Municipal	0	0	0	0	0	0	0
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	5	22	24	9	16	24	22
Whitehorse International	0	0	0	0	0	0	0
Windsor	0	0	0	0	0	0	0
Winnipeg/James Armstrong Richardson International	11	8	16	13	4	16	4
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	13	6	22	12	6	22	6

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	2	22	6	21	6	6	8
Campbell River	10	1	11	19	1	11	1
Castlegar	0	0	0	0	0	0	0
Charlottetown	4	10	6	9	2	6	4
Churchill	0	0	0	0	0	0	0
Cranbrook	5	10	7	12	10	7	10
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	4	12	1	4	1
Kenora	1	76	16	11	20	29	36
Kingston	8	2	15	9	2	15	2
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	0	0	0	0	0	0	0
Lloydminster	0	0	0	0	0	0	0
Medicine Hat	0	0	0	0	0	0	0
Mont-Joli	6	10	10	13	8	10	10
Montréal/Mirabel International	7	4	16	15	4	16	4
Nanaimo	0	0	0	0	0	0	0
Norman Wells	0	0	0	0	0	0	0
North Bay	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
Prince Albert	3	12	6	14	6	6	6
Prince Rupert	0	0	0	0	0	0	0
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	9	2	12	9	2	12	2
Rouyn-Noranda	0	0	0	0	0	0	0
Saint John	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
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

The main runway at Greater Moncton International Airport will be closed for a massive reconstruction from May to August 2011.

Bearskin Airlines has initiated daily non-stop flights between the Waterloo Region International Airport and Montreal's Trudeau Airport in May 2011.

In May 2011 WestJet has begun the reintroduction of flights from Munro Hamilton International Airport, 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 Billy Bishop Toronto City Airport to Windsor Airport and Sault Ste. Marie.

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

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

Effective September 2010, the Calgary Airport Authority no longer permits anyone with a student pilot permit to take off or land at the Calgary International Airport.

This has resulted in increased training flights at the nearby Calgary/Springbank Airport. Effective July 1, 2010, NAV CANADA has changed the method it uses to collect local movements at the airports with air traffic control towers. This change may make comparisons to previous months' counts unreliable.

Effective June 23, 2010, Virgin America Airlines launched direct daily service between Toronto/Lester B Pearson International, Ontario and California's two busiest terminals, in Los Angeles and San Francisco.

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-III air carriers: Effective 2010, Canadian air carriers that, in each of the two calendar years immediately preceding the report year, realized annual gross revenues of \$2,000,000 or more for the air services for which the air carrier held a licence. Also includes foreign air carriers.

Level IV-VI air carriers: Effective 2010, Canadian air carriers that, in the calendar year immediately preceding the report year, realized annual gross revenues of less than \$2,000,000 for the air services for which the air carrier held a licence. Between 2000 and 2009, levels IV and VI were not applicable.

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.