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



September 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 6.2% in September 2011 from September 2010. These airports reported 506,672 movements compared with 477,294 movements in September 2010.
- There were 367,854 itinerant movements (flights from one airport to another) reported in September 2011. This represents a 6.7% increase (+23,015 movements) compared with the same month a year earlier.
- In September 2011, there were 138,818 local movements (flights that remain in the vicinity of the airport) recorded. This represents an increase of 4.8% (+6,363 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	Percentage change, September 2010 to September 2011	number	Percentage change, September 2010 to September 2011	number	Percentage change, September 2010 to September 2011
Grand total	403,771	4.6	102,901	12.7	506,672	6.2
Itinerant movements						
Air carriers	219,409	4.9	59,302	8.9	278,711	5.7
Other commercial movements	25,463	3.0	3,837	24.4	29,300	5.3
Private movements	32,823	12.9	13,123	19.8	45,946	14.8
Government civil movements	5,232	4.6	1,970	18.1	7,202	8.0
Government military movements	4,927	-3.0	1,768	13.0	6,695	0.8
Itinerant total	287,854	5.4	80,000	11.5	367,854	6.7
Local movements						
Civil local movements	115,567	2.6	22,713	18.8	138,280	4.9
Military local movements	350	47.7	188	-54.7	538	-17.5
Local total	115,917	2.7	22,901	17.2	138,818	4.8

Analysis

Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations increased 6.2% in September 2011 from September 2010. These airports reported 506,672 movements compared with 477,294 movements in September 2010. Year-over-year increases were reported by 61 airports. Toronto/Lester B. Pearson International, Ontario (36,692 movements) followed by Vancouver International, British Columbia (25,992 movements) were the most active sites in September 2011.

There were 367,854 itinerant movements (flights from one airport to another) reported in September 2011. This represents a 6.7% increase (+23,015 movements) compared with the same month a year earlier. The year-over-year variations ranged from an increase of 2,015 movements (+59.4%) at Calgary/Springbank, Alberta to a drop of 1,129 movements (-28.4%) at Fredericton International, New Brunswick. Sixty-nine airports reported year-over-year increases in the number of itinerant aircraft movements in September 2011.

In September 2011, there were 138,818 local movements (flights that remain in the vicinity of the airport) recorded. This represents an increase of 4.8% (+6,363 movements) compared with the previous year. Chicoutimi/St-Honoré, Quebec (9,290 movements) followed by Montréal/St-Hubert, Quebec (9,286 movements) recorded the largest number of local movements.

Itinerant movements: domestic, transborder and international

There were 314,717 domestic itinerant movements reported by 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in September 2011, up 7.7% (+22,536 movements) from September 2010. Vancouver International, British Columbia (19,673 movements) followed by Toronto/Lester B. Pearson International, Ontario (16,737 movements) reported the greatest number of domestic itinerant movements.

Eighty-eight airports reported 42,847 transborder itinerant movements (between Canada and the United States) in September 2011. Toronto/Lester B. Pearson International, Ontario (15,187 movements) reported the greatest number of transborder itinerant movements. This represents a decrease of 2.8% (-435 movements) compared with the previous year.

In September 2011, thirty-six airports reported 10,290 other international itinerant movements. Toronto/Lester B. Pearson International, Ontario, recorded 4,676 other international itinerant movements. This represents 45.4% 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
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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
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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	18	9,220	31	3,338	7	5,882
Boundary Bay	6	14,782	13	6,438	4	8,344
Calgary International	3	20,568	3	20,300	36	268
Calgary/Springbank	10	12,661	18	5,405	5	7,256
Chicoutimi/St-Honoré	13	11,748	34	2,458	1	9,290
Edmonton City Centre	32	5,272	20	4,816	34	456
Edmonton International	14	11,658	6	10,958	29	700
Edmonton/Villeneuve	28	6,017	40	1,979	11	4,038
Fort McMurray	26	6,418	15	5,756	31	662
Fredericton International	33	5,078	33	2,840	19	2,238
Gander International	38	3,171	36	2,275	26	896
Halifax/Robert L. Stanfield International	23	7,256	12	7,036	37	220
Hamilton	37	3,180	35	2,424	28	756
Kelowna	25	6,578	21	4,526	20	2,052
Kitchener/Waterloo	20	8,922	25	3,934	10	4,988
Langley	22	7,432	27	3,860	12	3,572
London	21	7,514	22	4,334	14	3,180
Moncton/Greater Moncton International	24	7,036	24	4,242	16	2,794
Montréal/Pierre Elliott Trudeau International	4	20,134	4	20,016	39	118
Montréal/St-Hubert	5	16,617	11	7,331	2	9,286
Oshawa	30	5,676	32	3,272	18	2,404
Ottawa/Macdonald-Cartier International	9	12,811	5	11,483	23	1,328
Pitt Meadows	7	13,396	23	4,248	3	9,148
Prince George	39	2,816	38	2,128	30	688
Québec/Jean Lesage International	11	12,031	8	8,565	13	3,466
Regina International	31	5,531	28	3,847	22	1,684
Saskatoon/John G. Diefenbaker International	19	8,946	14	6,182	17	2,764
Sault Ste. Marie	41	2,552	41	1,731	27	821
St. John's International	36	3,776	30	3,640	38	136
St-Jean	35	3,909	39	2,077	21	1,832
Thunder Bay	27	6,251	19	4,923	24	1,328
Toronto/Billy Bishop Toronto City	16	10,466	10	7,550	15	2,916
Toronto/Buttonville Municipal	15	11,268	17	5,414	8	5,854
Toronto/Lester B. Pearson International	1	36,692	1	36,600	40	92
Vancouver Harbour	29	5,689	16	5,679	42	10
Vancouver International	2	25,992	2	25,954	41	38
Victoria International	8	13,194	9	8,096	9	5,098
Whitehorse International	40	2,661	37	2,261	35	400
Windsor	42	2,235	42	1,639	32	596
Winnipeg/James Armstrong Richardson International	12	11,953	7	10,655	25	1,298
Winnipeg/St. Andrews	17	10,274	29	3,738	6	6,536
Yellowknife	34	4,390	26	3,906	33	484
Total of NAV CANADA towers (42)	.	403,771	.	287,854	.	115,917

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	17	2,384	20	1,696	12	688
Campbell River	21	2,061	22	1,533	13	528
Castlegar	22	1,987	40	1,053	8	934
Charlottetown	32	1,499	34	1,211	22	288
Churchill	48	842	48	758	33	84
Cranbrook	33	1,482	32	1,280	24	202
Deer Lake	36	1,425	27	1,373	42	52
Fort Nelson	12	2,634	8	2,436	25	198
Fort St. John	13	2,624	9	2,282	19	342
Grande Prairie	2	3,965	2	3,061	9	904
High Level	40	1,172	36	1,096	37	76
Îles-de-la-Madeleine	50	463	50	463	0	0
Inuvik/Mike Zubko	38	1,315	33	1,259	41	56
Iqaluit	23	1,940	16	1,818	28	122
Kamloops	6	3,294	15	2,005	6	1,289
Kenora	41	1,154	38	1,086	39	68
Kingston	14	2,614	21	1,632	7	982
Kuujuuaq	39	1,277	35	1,183	31	94
La Grande Rivière	49	817	46	813	49	4
La Ronge	31	1,522	23	1,458	40	64
Lethbridge	25	1,770	31	1,302	15	468
Lloydminster	34	1,460	42	994	16	466
Medicine Hat	37	1,367	39	1,063	21	304
Mont-Joli	44	1,075	47	809	23	266
Montréal/Mirabel International	3	3,866	14	2,092	3	1,774
Nanaimo	11	2,737	10	2,261	14	476
Norman Wells	43	1,082	44	971	29	111
North Bay	5	3,593	19	1,711	2	1,882
Ottawa/Gatineau	1	5,843	5	2,577	1	3,266
Peace River	47	845	49	755	32	90
Penticton	18	2,275	25	1,407	11	868
Port Hardy	46	851	45	847	48	4
Prince Albert	27	1,763	18	1,739	46	24
Prince Rupert	51	349	51	323	45	26
Rankin Inlet	26	1,763	17	1,763	0	0
Red Deer Regional	4	3,665	11	2,136	5	1,529
Rouyn-Noranda	29	1,691	29	1,316	18	375
Saint John	28	1,742	28	1,324	17	418
Sept-Îles	16	2,600	6	2,522	35	78
Sioux Lookout	15	2,612	7	2,518	30	94
Smithers	42	1,134	37	1,096	43	38
St. Catharines	8	2,967	24	1,407	4	1,560
Sudbury	10	2,874	4	2,692	26	182
Terrace	35	1,425	26	1,397	44	28
Thompson	9	2,939	3	2,773	27	166
Timmins	20	2,164	13	2,096	38	68
Val-d'Or	30	1,618	30	1,312	20	306
Victoria Harbour	7	3,212	1	3,206	47	6
Wabush	19	2,183	12	2,107	36	76
Whitecourt	24	1,906	41	1,012	10	894
Williams Lake	45	1,059	43	976	34	83
Total of all flight service stations (51)	.	102,901	.	80,000	.	22,901

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	9,159	2,305	984	5,870	61	49	12	
Boundary Bay	14,782	4,981	1,457	8,344	0	0	0	
Calgary International	20,528	18,654	1,606	268	40	40	0	
Calgary/Springbank	12,658	3,467	1,935	7,256	3	3	0	
Chicoutimi/St-Honoré	11,738	2,251	207	9,280	10	0	10	
Edmonton City Centre	5,251	3,093	1,702	456	21	21	0	
Edmonton International	11,552	10,161	743	648	106	54	52	
Edmonton/Villeneuve	5,123	558	527	4,038	894	894	0	
Fort McMurray	6,416	4,926	828	662	2	2	0	
Fredericton International	5,051	2,545	274	2,232	27	21	6	
Gander International	2,883	1,455	532	896	288	288	0	
Halifax/Robert L. Stanfield International	7,180	6,614	354	212	76	68	8	
Hamilton	3,161	1,927	490	744	19	7	12	
Kelowna	6,516	3,524	944	2,048	62	58	4	
Kitchener/Waterloo	8,914	2,895	1,031	4,988	8	8	0	
Langley	6,671	1,729	1,374	3,568	761	757	4	
London	7,508	3,556	772	3,180	6	6	0	
Moncton/Greater Moncton International	7,023	3,841	390	2,792	13	11	2	
Montréal/Pierre Elliott Trudeau International	20,115	18,468	1,529	118	19	19	0	
Montréal/St-Hubert	16,458	5,920	1,252	9,286	159	159	0	
Oshawa	5,653	2,455	796	2,402	23	21	2	
Ottawa/Macdonald-Cartier International	12,615	10,478	809	1,328	196	196	0	
Pitt Meadows	13,396	2,587	1,661	9,148	0	0	0	
Prince George	2,728	1,569	471	688	88	88	0	
Québec/Jean Lesage International	11,966	6,909	1,595	3,462	65	61	4	
Regina International	5,369	2,971	836	1,562	162	40	122	
Saskatoon/John G. Diefenbaker International	8,753	4,936	1,143	2,674	193	103	90	
Sault Ste. Marie	2,532	1,484	227	821	20	20	0	
St. John's International	3,564	3,045	383	136	212	212	0	
St-Jean	3,043	210	1,001	1,832	866	866	0	
Thunder Bay	6,182	4,287	577	1,318	69	59	10	
Toronto/Billy Bishop Toronto City	10,446	6,917	613	2,916	20	20	0	
Toronto/Buttonville Municipal	11,262	3,051	2,357	5,854	6	6	0	
Toronto/Lester B. Pearson International	36,611	35,195	1,324	92	81	81	0	
Vancouver Harbour	5,689	5,605	74	10	0	0	0	
Vancouver International	25,977	24,591	1,348	38	15	15	0	
Victoria International	13,093	6,391	1,606	5,096	101	99	2	
Whitehorse International	2,651	1,857	396	398	10	8	2	
Windsor	2,081	1,056	435	590	154	148	6	
Winnipeg/James Armstrong Richardson International	11,633	9,392	943	1,298	320	320	0	
Winnipeg/St. Andrews	10,268	3,300	432	6,536	6	6	0	
Yellowknife	4,295	3,716	97	482	95	93	2	
Total of NAV CANADA towers (42)	398,494	244,872	38,055	115,567	5,277	4,927	350	

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	1,736	567	581	588	648	548	100
Campbell River	2,043	1,040	475	528	18	18	0
Castlegar	1,969	938	103	928	18	12	6
Charlottetown	1,469	864	333	272	30	14	16
Churchill	840	707	49	84	2	2	0
Cranbrook	1,286	713	371	202	196	196	0
Deer Lake	1,415	1,301	62	52	10	10	0
Fort Nelson	2,569	2,185	186	198	65	65	0
Fort St. John	2,620	1,877	401	342	4	4	0
Grande Prairie	3,698	2,236	558	904	267	267	0
High Level	1,166	1,013	77	76	6	6	0
Îles-de-la-Madeleine	453	364	89	0	10	10	0
Inuvik/Mike Zubko	1,305	1,233	16	56	10	10	0
Iqaluit	1,913	1,640	151	122	27	27	0
Kamloops	3,286	1,543	454	1,289	8	8	0
Kenora	1,108	837	209	62	46	40	6
Kingston	2,546	1,073	505	968	68	54	14
Kuujuuaq	1,271	1,123	54	94	6	6	0
La Grande Rivière	806	753	49	4	11	11	0
La Ronge	1,518	1,260	194	64	4	4	0
Lethbridge	1,742	821	461	460	28	20	8
Lloydminster	1,454	542	446	466	6	6	0
Medicine Hat	1,349	707	338	304	18	18	0
Mont-Joli	1,067	737	64	266	8	8	0
Montréal/Mirabel International	3,837	1,408	665	1,764	29	19	10
Nanaimo	2,714	1,269	969	476	23	23	0
Norman Wells	1,078	944	23	111	4	4	0
North Bay	3,531	1,169	504	1,858	62	38	24
Ottawa/Gatineau	5,806	1,177	1,363	3,266	37	37	0
Peace River	841	656	95	90	4	4	0
Penticton	2,238	964	406	868	37	37	0
Port Hardy	831	698	129	4	20	20	0
Prince Albert	1,735	1,436	275	24	28	28	0
Prince Rupert	343	257	60	26	6	6	0
Rankin Inlet	1,761	1,743	18	0	2	2	0
Red Deer Regional	3,650	1,432	689	1,529	15	15	0
Rouyn-Noranda	1,689	1,061	253	375	2	2	0
Saint John	1,712	903	395	414	30	26	4
Sept-Îles	2,594	2,262	254	78	6	6	0
Sioux Lookout	2,606	2,384	128	94	6	6	0
Smithers	1,022	829	155	38	112	112	0
St. Catharines	2,967	915	492	1,560	0	0	0
Sudbury	2,864	2,151	531	182	10	10	0
Terrace	1,425	1,302	95	28	0	0	0
Thompson	2,939	2,596	177	166	0	0	0
Timmins	2,164	1,860	236	68	0	0	0
Val-d'Or	1,616	973	337	306	2	2	0
Victoria Harbour	3,207	3,092	109	6	5	5	0
Wabush	2,183	1,947	160	76	0	0	0
Whitecourt	1,906	856	156	894	0	0	0
Williams Lake	1,057	781	193	83	2	2	0
Total of all flight service stations (51)	100,945	63,139	15,093	22,713	1,956	1,768	188

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	3,338	453	1,784	68	909	75	49
Boundary Bay	6,438	6	1,078	3,897	1,424	33	0
Calgary International	20,300	17,210	997	447	1,470	136	40
Calgary/Springbank	5,405	24	735	2,708	1,916	19	3
Chicoutimi/St-Honoré	2,458	538	190	1,523	205	2	0
Edmonton City Centre	4,816	1,215	677	1,201	927	775	21
Edmonton International	10,958	9,934	214	13	727	16	54
Edmonton/Villeneuve	1,979	3	79	476	483	44	894
Fort McMurray	5,756	1,622	3,203	101	788	40	2
Fredericton International	2,840	866	1,673	6	202	72	21
Gander International	2,275	464	952	39	387	145	288
Halifax/Robert L. Stanfield International	7,036	6,204	403	7	302	52	68
Hamilton	2,424	1,790	120	17	259	231	7
Kelowna	4,526	2,888	273	363	872	72	58
Kitchener/Waterloo	3,934	453	2,383	59	1,004	27	8
Langley	3,860	6	150	1,573	1,362	12	757
London	4,334	1,265	757	1,534	719	53	6
Moncton/Greater Moncton International	4,242	1,673	2,154	14	206	184	11
Montréal/Pierre Elliott Trudeau International	20,016	17,367	1,067	34	1,352	177	19
Montréal/St-Hubert	7,331	3,274	808	1,838	1,177	75	159
Oshawa	3,272	55	62	2,338	699	97	21
Ottawa/Macdonald-Cartier International	11,483	8,084	344	2,050	365	444	196
Pitt Meadows	4,248	8	2,014	565	1,630	31	0
Prince George	2,128	1,194	351	24	375	96	88
Québec/Jean Lesage International	8,565	4,265	2,371	273	1,276	319	61
Regina International	3,847	2,102	826	43	621	215	40
Saskatoon/John G. Diefenbaker International	6,182	3,450	1,083	403	811	332	103
Sault Ste. Marie	1,731	1,084	148	252	165	62	20
St. John's International	3,640	2,258	777	10	198	185	212
St-Jean	2,077	5	131	74	1,001	0	866
Thunder Bay	4,923	2,928	773	586	382	195	59
Toronto/Billy Bishop Toronto City	7,550	4,851	991	1,075	609	4	20
Toronto/Buttonville Municipal	5,414	197	2,803	51	2,307	50	6
Toronto/Lester B. Pearson International	36,600	34,456	694	45	1,311	13	81
Vancouver Harbour	5,679	4,505	976	124	74	0	0
Vancouver International	25,954	22,491	2,018	82	996	352	15
Victoria International	8,096	3,386	2,417	588	1,561	45	99
Whitehorse International	2,261	1,271	569	17	360	36	8
Windsor	1,639	668	350	38	418	17	148
Winnipeg/James Armstrong Richardson International	10,655	8,901	446	45	494	449	320
Winnipeg/St. Andrews	3,738	679	1,766	855	430	2	6
Yellowknife	3,906	3,034	675	7	49	48	93
Total of NAV CANADA towers (42)	287,854	177,127	42,282	25,463	32,823	5,232	4,927

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	1,696	108	430	29	566	15	548
Campbell River	1,533	613	253	174	441	34	18
Castlegar	1,053	274	169	495	99	4	12
Charlottetown	1,211	809	55	0	312	21	14
Churchill	758	642	63	2	35	14	2
Cranbrook	1,280	580	115	18	344	27	196
Deer Lake	1,373	900	374	27	15	47	10
Fort Nelson	2,436	534	1,631	20	172	14	65
Fort St. John	2,282	807	1,026	44	371	30	4
Grande Prairie	3,061	1,257	829	150	536	22	267
High Level	1,096	321	678	14	57	20	6
Îles-de-la-Madeleine	463	346	18	0	35	54	10
Inuvik/Mike Zubko	1,259	978	255	0	4	12	10
Iqaluit	1,818	1,382	209	49	82	69	27
Kamloops	2,005	815	461	267	392	62	8
Kenora	1,086	408	422	7	160	49	40
Kingston	1,632	430	350	293	476	29	54
Kuujuuaq	1,183	909	212	2	36	18	6
La Grande Rivière	813	585	165	3	37	12	11
La Ronge	1,458	1,237	18	5	75	119	4
Lethbridge	1,302	412	39	370	447	14	20
Lloydminster	994	197	322	23	417	29	6
Medicine Hat	1,063	485	110	112	322	16	18
Mont-Joli	809	566	148	23	40	24	8
Montréal/Mirabel International	2,092	817	517	74	663	2	19
Nanaimo	2,261	416	679	174	938	31	23
Norman Wells	971	684	255	5	14	9	4
North Bay	1,711	655	363	151	446	58	38
Ottawa/Gatineau	2,577	271	598	308	1,291	72	37
Peace River	755	472	162	22	69	26	4
Penticton	1,407	319	605	40	400	6	37
Port Hardy	847	609	79	10	82	47	20
Prince Albert	1,739	1,378	50	8	152	123	28
Prince Rupert	323	250	5	2	30	30	6
Rankin Inlet	1,763	1,003	740	0	10	8	2
Red Deer Regional	2,136	435	846	151	665	24	15
Rouyn-Noranda	1,316	668	172	221	233	20	2
Saint John	1,324	761	75	67	381	14	26
Sept-Îles	2,522	1,309	916	37	169	85	6
Sioux Lookout	2,518	1,746	551	87	94	34	6
Smithers	1,096	575	243	11	133	22	112
St. Catharines	1,407	16	867	32	477	15	0
Sudbury	2,692	1,588	515	48	342	189	10
Terrace	1,397	741	559	2	61	34	0
Thompson	2,773	2,178	409	9	87	90	0
Timmins	2,096	1,589	254	17	142	94	0
Val-d'Or	1,312	762	189	22	294	43	2
Victoria Harbour	3,206	3,053	37	2	19	90	5
Wabush	2,107	979	962	6	133	27	0
Whitecourt	1,012	45	631	180	152	4	0
Williams Lake	976	407	350	24	175	18	2
Total of all flight service stations (51)	80,000	39,321	19,981	3,837	13,123	1,970	1,768

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	3,338	663	19.8	2,675	80.1	1,854
Boundary Bay	6,438	371	5.7	6,067	94.2	905
Calgary International	20,300	19,181	94.4	1,119	5.5	511
Calgary/Springbank	5,405	441	8.1	4,964	91.8	201
Chicoutimi/St-Honoré	2,458	201	8.1	2,257	91.8	304
Edmonton City Centre	4,816	2,054	42.6	2,762	57.3	1,814
Edmonton International	10,958	10,507	95.8	451	4.1	847
Edmonton/Villeneuve	1,979	54	2.7	1,925	97.2	166
Fort McMurray	5,756	2,052	35.6	3,704	64.3	276
Fredericton International	2,840	1,067	37.5	1,773	62.4	111
Gander International	2,275	1,339	58.8	936	41.1	285
Halifax/Robert L. Stanfield International	7,036	6,690	95.0	346	4.9	375
Hamilton	2,424	2,008	82.8	416	17.1	896
Kelowna	4,526	2,575	56.8	1,951	43.1	1,095
Kitchener/Waterloo	3,934	743	18.8	3,191	81.1	751
Langley	3,860	56	1.4	3,804	98.5	903
London	4,334	1,549	35.7	2,785	64.2	475
Moncton/Greater Moncton International	4,242	2,168	51.1	2,074	48.8	106
Montréal/Pierre Elliott Trudeau International	20,016	19,356	96.7	660	3.2	1,503
Montréal/St-Hubert	7,331	1,754	23.9	5,577	76.0	1,085
Oshawa	3,272	151	4.6	3,121	95.3	700
Ottawa/Macdonald-Cartier International	11,483	8,884	77.3	2,599	22.6	1,534
Pitt Meadows	4,248	43	1.0	4,205	98.9	2,146
Prince George	2,128	1,275	59.9	853	40.0	654
Québec/Jean Lesage International	8,565	5,311	62.0	3,254	37.9	1,301
Regina International	3,847	2,589	67.2	1,258	32.7	234
Saskatoon/John G. Diefenbaker International	6,182	3,972	64.2	2,210	35.7	452
Sault Ste. Marie	1,731	1,293	74.6	438	25.3	86
St. John's International	3,640	3,282	90.1	358	9.8	184
St-Jean	2,077	7	0.3	2,070	99.6	501
Thunder Bay	4,923	3,485	70.7	1,438	29.2	220
Toronto/Billy Bishop Toronto City	7,550	5,229	69.2	2,321	30.7	2,166
Toronto/Buttonville Municipal	5,414	770	14.2	4,644	85.7	1,543
Toronto/Lester B. Pearson International	36,600	36,456	99.6	144	0.3	256
Vancouver Harbour	5,679	53	0.9	5,626	99.0	2,311
Vancouver International	25,954	20,811	80.1	5,143	19.8	10,039
Victoria International	8,096	3,728	46.0	4,368	53.9	4,561
Whitehorse International	2,261	759	33.5	1,502	66.4	781
Windsor	1,639	815	49.7	824	50.2	203
Winnipeg/James Armstrong Richardson International	10,655	9,421	88.4	1,234	11.5	494
Winnipeg/St. Andrews	3,738	101	2.7	3,637	97.2	210
Yellowknife	3,906	2,015	51.5	1,891	48.4	1,310
Total of NAV CANADA towers (42)	287,854	185,279	64.4	102,575	35.6	46,349

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	1,696	197	11.6	1,499	88.3	23
Campbell River	1,533	541	35.2	992	64.7	369
Castlegar	1,053	258	24.5	795	75.4	135
Charlottetown	1,211	937	77.3	274	22.6	54
Churchill	758	671	88.5	87	11.4	223
Cranbrook	1,280	664	51.8	616	48.1	346
Deer Lake	1,373	1,202	87.5	171	12.4	46
Fort Nelson	2,436	583	23.9	1,853	76.0	177
Fort St. John	2,282	901	39.4	1,381	60.5	101
Grande Prairie	3,061	1,471	48.0	1,590	51.9	233
High Level	1,096	271	24.7	825	75.2	414
Îles-de-la-Madeleine	463	445	96.1	18	3.8	19
Inuvik/Mike Zubko	1,259	352	27.9	907	72.0	56
Iqaluit	1,818	1,326	72.9	492	27.0	0
Kamloops	2,005	940	46.8	1,065	53.1	462
Kenora	1,086	525	48.3	561	51.6	313
Kingston	1,632	571	34.9	1,061	65.0	149
Kuujuuaq	1,183	429	36.2	754	63.7	325
La Grande Rivière	813	647	79.5	166	20.4	216
La Ronge	1,458	760	52.1	698	47.8	726
Lethbridge	1,302	541	41.5	761	58.4	55
Lloydminster	994	276	27.7	718	72.2	22
Medicine Hat	1,063	470	44.2	593	55.7	183
Mont-Joli	809	671	82.9	138	17.0	35
Montréal/Mirabel International	2,092	1,135	54.2	957	45.7	1,173
Nanaimo	2,261	640	28.3	1,621	71.6	980
Norman Wells	971	209	21.5	762	78.4	223
North Bay	1,711	760	44.4	951	55.5	730
Ottawa/Gatineau	2,577	219	8.4	2,358	91.5	483
Peace River	755	426	56.4	329	43.5	9
Penticton	1,407	287	20.3	1,120	79.6	166
Port Hardy	847	325	38.3	522	61.6	282
Prince Albert	1,739	1,414	81.3	325	18.6	92
Prince Rupert	323	244	75.5	79	24.4	22
Rankin Inlet	1,763	970	55.0	793	44.9	41
Red Deer Regional	2,136	420	19.6	1,716	80.3	384
Rouyn-Noranda	1,316	949	72.1	367	27.8	142
Saint John	1,324	997	75.3	327	24.6	29
Sept-Îles	2,522	1,732	68.6	790	31.3	547
Sioux Lookout	2,518	1,875	74.4	643	25.5	1,041
Smithers	1,096	552	50.3	544	49.6	889
St. Catharines	1,407	128	9.0	1,279	90.9	288
Sudbury	2,692	1,814	67.3	878	32.6	194
Terrace	1,397	749	53.6	648	46.3	185
Thompson	2,773	1,639	59.1	1,134	40.8	529
Timmins	2,096	1,780	84.9	316	15.0	163
Val-d'Or	1,312	862	65.7	450	34.2	475
Victoria Harbour	3,206	61	1.9	3,145	98.0	816
Wabush	2,107	1,292	61.3	815	38.6	545
Whitecourt	1,012	56	5.5	956	94.4	202
Williams Lake	976	423	43.3	553	56.6	277
Total of all flight service stations (51)	80,000	37,607	47.0	42,393	53.0	15,589

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	3,338	446	165	1,892	819	16
Boundary Bay	6,438	13	89	6,132	204	0
Calgary International	20,300	13,755	5,266	338	941	0
Calgary/Springbank	5,405	58	143	4,390	814	0
Chicoutimi/St-Honoré	2,458	2	114	1,960	382	0
Edmonton City Centre	4,816	358	1,623	1,897	938	0
Edmonton International	10,958	7,071	3,476	374	37	0
Edmonton/Villeneuve	1,979	21	27	1,390	136	405
Fort McMurray	5,756	1,196	1,548	1,001	2,011	0
Fredericton International	2,840	174	866	1,623	177	0
Gander International	2,275	653	612	815	195	0
Halifax/Robert L. Stanfield International	7,036	4,071	2,486	203	276	0
Hamilton	2,424	1,326	696	313	89	0
Kelowna	4,526	1,094	1,582	1,668	182	0
Kitchener/Waterloo	3,934	204	436	2,917	371	6
Langley	3,860	0	3	3,129	349	379
London	4,334	443	1,115	2,641	135	0
Moncton/Greater Moncton International	4,242	1,152	782	2,237	71	0
Montréal/Pierre Elliott Trudeau International	20,016	12,629	6,645	404	338	0
Montréal/St-Hubert	7,331	212	1,070	5,719	330	0
Oshawa	3,272	13	28	3,100	131	0
Ottawa/Macdonald-Cartier International	11,483	5,936	2,933	2,255	359	0
Pitt Meadows	4,248	0	103	3,981	164	0
Prince George	2,128	412	959	496	232	29
Québec/Jean Lesage International	8,565	1,229	3,881	2,614	841	0
Regina International	3,847	1,731	726	1,301	81	8
Saskatoon/John G. Diefenbaker International	6,182	1,963	2,025	2,126	68	0
Sault Ste. Marie	1,731	43	1,232	408	48	0
St. John's International	3,640	1,507	1,636	115	382	0
St-Jean	2,077	0	0	1,363	29	685
Thunder Bay	4,923	576	3,020	919	408	0
Toronto/Billy Bishop Toronto City	7,550	6	5,162	1,937	439	6
Toronto/Buttonville Municipal	5,414	69	385	4,633	327	0
Toronto/Lester B. Pearson International	36,600	29,678	6,825	66	31	0
Vancouver Harbour	5,679	0	3,153	1,809	716	1
Vancouver International	25,954	12,153	9,944	2,838	1,019	0
Victoria International	8,096	1,311	2,422	3,970	393	0
Whitehorse International	2,261	489	631	748	393	0
Windsor	1,639	279	627	702	31	0
Winnipeg/James Armstrong Richardson International	10,655	5,334	4,144	848	329	0
Winnipeg/St. Andrews	3,738	0	713	2,798	226	1
Yellowknife	3,906	709	2,209	320	668	0
Total of NAV CANADA towers (42)	287,854	108,316	81,502	80,390	16,110	1,536

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	1,696	23	306	952	127	288
Campbell River	1,533	38	724	544	227	0
Castlegar	1,053	14	352	627	60	0
Charlottetown	1,211	490	389	304	28	0
Churchill	758	22	650	33	53	0
Cranbrook	1,280	53	630	398	72	127
Deer Lake	1,373	400	788	73	112	0
Fort Nelson	2,436	105	510	302	1,519	0
Fort St. John	2,282	279	610	458	935	0
Grande Prairie	3,061	198	1,108	783	704	268
High Level	1,096	16	404	405	271	0
Îles-de-la-Madeleine	463	20	406	35	2	0
Inuvik/Mike Zubko	1,259	105	699	198	257	0
Iqaluit	1,818	399	1,207	28	184	0
Kamloops	2,005	97	870	727	311	0
Kenora	1,086	39	557	243	247	0
Kingston	1,632	26	506	943	157	0
Kuujuuaq	1,183	133	821	38	191	0
La Grande Rivière	813	92	659	48	14	0
La Ronge	1,458	6	1,108	269	74	1
Lethbridge	1,302	53	415	789	45	0
Lloydminster	994	41	290	596	67	0
Medicine Hat	1,063	34	482	475	72	0
Mont-Joli	809	20	645	113	27	4
Montréal/Mirabel International	2,092	656	305	683	448	0
Nanaimo	2,261	19	456	1,683	101	2
Norman Wells	971	185	278	268	240	0
North Bay	1,711	60	761	443	420	27
Ottawa/Gatineau	2,577	48	153	2,183	192	1
Peace River	755	21	409	161	164	0
Penticton	1,407	33	386	430	558	0
Port Hardy	847	17	531	174	125	0
Prince Albert	1,739	18	1,406	242	73	0
Prince Rupert	323	34	221	16	52	0
Rankin Inlet	1,763	209	813	5	736	0
Red Deer Regional	2,136	72	519	1,463	82	0
Rouyn-Noranda	1,316	117	833	351	15	0
Saint John	1,324	368	600	283	73	0
Sept-Îles	2,522	38	1,572	357	555	0
Sioux Lookout	2,518	10	2,073	410	25	0
Smithers	1,096	53	629	202	156	56
St. Catharines	1,407	22	33	961	391	0
Sudbury	2,692	34	1,881	451	325	1
Terrace	1,397	34	752	42	569	0
Thompson	2,773	30	2,192	296	255	0
Timmins	2,096	14	1,853	150	79	0
Val-d'Or	1,312	98	815	288	111	0
Victoria Harbour	3,206	0	2,444	126	636	0
Wabush	2,107	38	1,160	150	759	0
Whitecourt	1,012	16	100	158	738	0
Williams Lake	976	6	427	415	128	0
Total of all flight service stations (51)	80,000	4,953	38,738	21,772	13,762	775

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	2,314	363	157	48	12	25	412	7	0	0
Boundary Bay	5,948	454	20	16	0	0	0	0	0	0
Calgary International	808	569	1,541	1,936	1,041	4,579	8,266	686	166	708
Calgary/Springbank	4,715	459	153	46	13	19	0	0	0	0
Chicoutimi/St-Honoré	2,038	304	113	3	0	0	0	0	0	0
Edmonton City Centre	2,309	577	1,497	280	124	29	0	0	0	0
Edmonton International	307	156	574	1,042	424	2,666	5,103	431	165	90
Edmonton/Villeneuve	1,830	106	32	11	0	0	0	0	0	0
Fort McMurray	2,505	963	617	391	66	811	403	0	0	0
Fredericton International	1,644	210	160	243	219	362	2	0	0	0
Gander International	691	72	34	472	364	382	59	143	4	54
Halifax/Robert L. Stanfield International	133	239	314	1,137	649	1,750	2,143	354	159	158
Hamilton	222	440	141	314	204	52	486	6	415	144
Kelowna	1,674	178	247	600	68	877	862	12	8	0
Kitchener/Waterloo	3,199	109	410	53	59	26	71	3	4	0
Langley	3,661	181	17	0	1	0	0	0	0	0
London	2,594	269	189	174	354	530	216	0	6	2
Moncton/Greater Moncton International	2,250	139	140	444	87	684	243	4	251	0
Montréal/Pierre Elliott Trudeau International	537	171	856	867	3,060	6,416	4,742	1,385	0	1,982
Montréal/St-Hubert	5,245	669	864	381	161	8	3	0	0	0
Oshawa	2,994	213	44	14	7	0	0	0	0	0
Ottawa/Macdonald-Cartier International	2,227	182	1,077	356	595	3,406	2,855	483	42	260
Pitt Meadows	3,975	262	9	2	0	0	0	0	0	0
Prince George	641	147	175	595	23	356	191	0	0	0
Québec/Jean Lesage International	2,975	458	966	594	1,328	1,998	168	6	0	72
Regina International	1,174	178	443	365	74	893	634	4	82	0
Saskatoon/John G. Diefenbaker International	1,830	371	863	810	272	1,103	888	2	43	0
Sault Ste. Marie	422	109	549	80	357	208	6	0	0	0
St. John's International	90	14	280	601	812	403	1,064	295	79	2
St-Jean	2,076	1	0	0	0	0	0	0	0	0
Thunder Bay	923	336	2,162	220	151	927	204	0	0	0
Toronto/Billy Bishop Toronto City	2,045	212	442	169	10	4,672	0	0	0	0
Toronto/Buttonville Municipal	4,660	420	252	62	7	13	0	0	0	0
Toronto/Lester B. Pearson International	32	185	405	2,105	4,054	8,081	13,610	4,023	284	3,821
Vancouver Harbour	144	4,630	900	5	0	0	0	0	0	0
Vancouver International	952	3,906	1,025	2,820	1,831	5,239	6,032	1,707	387	2,055
Victoria International	3,589	945	256	527	735	1,342	649	19	34	0
Whitehorse International	920	378	256	113	13	394	179	0	0	8
Windsor	592	254	70	89	368	189	66	5	6	0
Winnipeg/James Armstrong Richardson International	692	527	2,853	339	1,007	1,867	2,313	388	609	60
Winnipeg/St. Andrews	2,757	851	128	0	2	0	0	0	0	0
Yellowknife	645	658	608	290	191	765	581	168	0	0
Total of NAV CANADA towers (42)	80,979	21,865	21,839	18,614	18,743	51,072	52,451	10,131	2,744	9,416

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	1,247	36	320	16	39	4	0	34	0	0
Campbell River	705	95	106	434	179	4	10	0	0	0
Castlegar	596	149	22	54	65	165	0	2	0	0
Charlottetown	268	143	51	200	78	244	219	4	0	4
Churchill	70	18	73	14	134	445	2	2	0	0
Cranbrook	502	72	97	347	112	140	8	2	0	0
Deer Lake	117	59	32	378	327	300	156	4	0	0
Fort Nelson	1,324	200	428	204	161	86	33	0	0	0
Fort St. John	1,235	110	238	298	128	253	20	0	0	0
Grande Prairie	1,406	329	436	211	42	514	123	0	0	0
High Level	568	220	180	124	4	0	0	0	0	0
Îles-de-la-Madeleine	23	12	180	57	145	38	8	0	0	0
Inuvik/Mike Zubko	404	45	601	4	46	58	101	0	0	0
Iqaluit	49	20	517	260	260	368	244	26	18	56
Kamloops	759	167	227	238	133	367	114	0	0	0
Kenora	252	48	712	19	33	20	0	2	0	0
Kingston	988	56	144	291	124	21	0	8	0	0
Kuujuuaq	221	9	674	2	92	66	93	6	0	20
La Grande Rivière	27	51	176	32	73	380	74	0	0	0
La Ronge	99	220	635	95	266	143	0	0	0	0
Lethbridge	668	158	108	284	28	56	0	0	0	0
Lloydminster	604	94	157	120	16	3	0	0	0	0
Medicine Hat	459	62	260	268	8	6	0	0	0	0
Mont-Joli	97	43	215	287	123	44	0	0	0	0
Montréal/Mirabel International	844	338	45	101	73	150	99	6	265	171
Nanaimo	1,285	514	37	20	21	382	2	0	0	0
Norman Wells	415	166	145	22	8	40	175	0	0	0
North Bay	845	193	335	61	162	81	20	12	0	2
Ottawa/Gatineau	1,957	383	124	77	18	10	1	7	0	0
Peace River	186	119	374	60	12	4	0	0	0	0
Penticton	786	164	107	124	7	178	37	3	1	0
Port Hardy	123	152	287	109	168	4	4	0	0	0
Prince Albert	183	85	262	409	379	421	0	0	0	0
Prince Rupert	16	23	58	36	67	123	0	0	0	0
Rankin Inlet	401	280	176	30	310	397	167	2	0	0
Red Deer Regional	1,335	196	309	115	167	6	8	0	0	0
Rouyn-Noranda	357	11	433	21	250	183	61	0	0	0
Saint John	239	190	116	272	204	300	0	3	0	0
Sept-Îles	631	301	464	523	531	70	0	2	0	0
Sioux Lookout	97	362	1,175	673	206	5	0	0	0	0
Smithers	344	155	116	271	86	124	0	0	0	0
St. Catharines	1,238	93	48	12	8	8	0	0	0	0
Sudbury	409	334	1,101	240	392	210	2	4	0	0
Terrace	436	157	161	272	161	210	0	0	0	0
Thompson	296	319	1,323	24	211	600	0	0	0	0
Timmins	141	208	1,021	100	501	125	0	0	0	0
Val-d'Or	348	55	286	29	323	227	26	2	16	0
Victoria Harbour	47	2,284	867	2	6	0	0	0	0	0
Wabush	603	143	565	352	385	59	0	0	0	0
Whitecourt	870	37	24	60	21	0	0	0	0	0
Williams Lake	513	16	39	402	4	2	0	0	0	0
Total of all flight service stations (51)	27,633	9,694	16,587	8,654	7,297	7,644	1,807	131	300	253

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	3,229	443	1,751	66	845	75	49
Transborder	108	10	33	2	63	0	0
Other international	1	0	0	0	1	0	0
Total	3,338	453	1,784	68	909	75	49
Boundary Bay							
Domestic	6,296	6	1,064	3,856	1,337	33	0
Transborder	142	0	14	41	87	0	0
Other international	0	0	0	0	0	0	0
Total	6,438	6	1,078	3,897	1,424	33	0
Calgary International							
Domestic	16,387	13,718	912	444	1,138	136	39
Transborder	3,368	2,949	84	3	331	0	1
Other international	545	543	1	0	1	0	0
Total	20,300	17,210	997	447	1,470	136	40
Calgary/Springbank							
Domestic	5,309	18	728	2,704	1,837	19	3
Transborder	96	6	7	4	79	0	0
Other international	0	0	0	0	0	0	0
Total	5,405	24	735	2,708	1,916	19	3
Chicoutimi/St-Honoré							
Domestic	2,456	537	190	1,522	205	2	0
Transborder	2	1	0	1	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,458	538	190	1,523	205	2	0
Edmonton City Centre							
Domestic	4,794	1,212	675	1,198	913	775	21
Transborder	22	3	2	3	14	0	0
Other international	0	0	0	0	0	0	0
Total	4,816	1,215	677	1,201	927	775	21
Edmonton International							
Domestic	9,556	8,617	204	11	657	16	51
Transborder	1,302	1,219	10	2	68	0	3
Other international	100	98	0	0	2	0	0
Total	10,958	9,934	214	13	727	16	54
Edmonton/Villeneuve							
Domestic	1,976	3	79	476	480	44	894
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,979	3	79	476	483	44	894
Fort McMurray							
Domestic	5,752	1,620	3,203	101	786	40	2
Transborder	4	2	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	5,756	1,622	3,203	101	788	40	2
Fredericton International							
Domestic	2,779	857	1,669	6	154	72	21
Transborder	61	9	4	0	48	0	0
Other international	0	0	0	0	0	0	0
Total	2,840	866	1,673	6	202	72	21
Gander International							
Domestic	1,630	303	951	23	96	145	112
Transborder	309	72	1	7	140	0	89
Other international	336	89	0	9	151	0	87
Total	2,275	464	952	39	387	145	288

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	5,850	5,190	389	5	166	52	48
Transborder	998	846	12	0	127	0	13
Other international	188	168	2	2	9	0	7
Total	7,036	6,204	403	7	302	52	68
Hamilton							
Domestic	1,789	1,310	95	14	132	231	7
Transborder	617	466	25	3	123	0	0
Other international	18	14	0	0	4	0	0
Total	2,424	1,790	120	17	259	231	7
Kelowna							
Domestic	4,318	2,750	271	363	804	72	58
Transborder	205	138	2	0	65	0	0
Other international	3	0	0	0	3	0	0
Total	4,526	2,888	273	363	872	72	58
Kitchener/Waterloo							
Domestic	3,717	374	2,354	56	901	26	6
Transborder	214	79	29	3	100	1	2
Other international	3	0	0	0	3	0	0
Total	3,934	453	2,383	59	1,004	27	8
Langley							
Domestic	3,830	6	150	1,572	1,333	12	757
Transborder	30	0	0	1	29	0	0
Other international	0	0	0	0	0	0	0
Total	3,860	6	150	1,573	1,362	12	757
London							
Domestic	4,051	1,084	751	1,532	625	53	6
Transborder	283	181	6	2	94	0	0
Other international	0	0	0	0	0	0	0
Total	4,334	1,265	757	1,534	719	53	6
Moncton/Greater Moncton International							
Domestic	4,153	1,613	2,152	14	179	184	11
Transborder	88	59	2	0	27	0	0
Other international	1	1	0	0	0	0	0
Total	4,242	1,673	2,154	14	206	184	11
Montréal/Pierre Elliott Trudeau International							
Domestic	11,908	9,975	858	21	859	176	19
Transborder	5,885	5,206	191	10	477	1	0
Other international	2,223	2,186	18	3	16	0	0
Total	20,016	17,367	1,067	34	1,352	177	19
Montréal/St-Hubert							
Domestic	7,153	3,258	799	1,833	1,032	72	159
Transborder	175	14	9	5	144	3	0
Other international	3	2	0	0	1	0	0
Total	7,331	3,274	808	1,838	1,177	75	159
Oshawa							
Domestic	3,224	48	60	2,338	660	97	21
Transborder	41	6	0	0	35	0	0
Other international	7	1	2	0	4	0	0
Total	3,272	55	62	2,338	699	97	21
Ottawa/Macdonald-Cartier International							
Domestic	9,368	6,143	325	2,040	267	430	163
Transborder	1,962	1,807	18	6	93	14	24
Other international	153	134	1	4	5	0	9
Total	11,483	8,084	344	2,050	365	444	196

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	4,214	8	2,014	564	1,597	31	0
Transborder	33	0	0	1	32	0	0
Other international	1	0	0	0	1	0	0
Total	4,248	8	2,014	565	1,630	31	0
Prince George							
Domestic	2,100	1,181	350	24	363	95	87
Transborder	27	13	0	0	12	1	1
Other international	1	0	1	0	0	0	0
Total	2,128	1,194	351	24	375	96	88
Québec/Jean Lesage International							
Domestic	7,695	3,508	2,365	270	1,187	317	48
Transborder	801	698	6	3	88	2	4
Other international	69	59	0	0	1	0	9
Total	8,565	4,265	2,371	273	1,276	319	61
Regina International							
Domestic	3,437	1,782	825	42	544	211	33
Transborder	409	320	1	0	77	4	7
Other international	1	0	0	1	0	0	0
Total	3,847	2,102	826	43	621	215	40
Saskatoon/John G. Diefenbaker International							
Domestic	5,846	3,185	1,075	402	752	331	101
Transborder	336	265	8	1	59	1	2
Other international	0	0	0	0	0	0	0
Total	6,182	3,450	1,083	403	811	332	103
Sault Ste. Marie							
Domestic	1,701	1,082	143	251	144	61	20
Transborder	24	2	2	1	18	1	0
Other international	6	0	3	0	3	0	0
Total	1,731	1,084	148	252	165	62	20
St. John's International							
Domestic	3,171	2,096	767	2	88	181	37
Transborder	214	68	1	3	57	0	85
Other international	255	94	9	5	53	4	90
Total	3,640	2,258	777	10	198	185	212
St-Jean							
Domestic	2,076	5	130	74	1,001	0	866
Transborder	1	0	1	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,077	5	131	74	1,001	0	866
Thunder Bay							
Domestic	4,879	2,920	773	584	350	194	58
Transborder	43	7	0	2	32	1	1
Other international	1	1	0	0	0	0	0
Total	4,923	2,928	773	586	382	195	59
Toronto/Billy Bishop Toronto City							
Domestic	6,223	3,670	976	1,074	481	3	19
Transborder	1,327	1,181	15	1	128	1	1
Other international	0	0	0	0	0	0	0
Total	7,550	4,851	991	1,075	609	4	20
Toronto/Buttonville Municipal							
Domestic	5,178	182	2,782	46	2,114	48	6
Transborder	229	15	20	4	188	2	0
Other international	7	0	1	1	5	0	0
Total	5,414	197	2,803	51	2,307	50	6

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	16,737	15,798	403	27	426	13	70
Transborder	15,187	14,051	260	15	852	0	9
Other international	4,676	4,607	31	3	33	0	2
Total	36,600	34,456	694	45	1,311	13	81
Vancouver Harbour							
Domestic	5,672	4,499	976	124	73	0	0
Transborder	7	6	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	5,679	4,505	976	124	74	0	0
Vancouver International							
Domestic	19,673	16,632	1,979	62	637	352	11
Transborder	4,718	4,305	38	16	355	0	4
Other international	1,563	1,554	1	4	4	0	0
Total	25,954	22,491	2,018	82	996	352	15
Victoria International							
Domestic	7,327	2,886	2,392	578	1,332	45	94
Transborder	769	500	25	10	229	0	5
Other international	0	0	0	0	0	0	0
Total	8,096	3,386	2,417	588	1,561	45	99
Whitehorse International							
Domestic	2,153	1,253	567	17	276	36	4
Transborder	98	9	2	0	83	0	4
Other international	10	9	0	0	1	0	0
Total	2,261	1,271	569	17	360	36	8
Windsor							
Domestic	1,540	637	337	37	384	17	128
Transborder	98	31	13	1	33	0	20
Other international	1	0	0	0	1	0	0
Total	1,639	668	350	38	418	17	148
Winnipeg/James Armstrong Richardson International							
Domestic	9,470	7,873	432	36	379	441	309
Transborder	1,171	1,020	14	8	113	8	8
Other international	14	8	0	1	2	0	3
Total	10,655	8,901	446	45	494	449	320
Winnipeg/St. Andrews							
Domestic	3,726	679	1,764	853	422	2	6
Transborder	12	0	2	2	8	0	0
Other international	0	0	0	0	0	0	0
Total	3,738	679	1,766	855	430	2	6
Yellowknife							
Domestic	3,894	3,026	675	6	47	48	92
Transborder	9	5	0	1	2	0	1
Other international	3	3	0	0	0	0	0
Total	3,906	3,034	675	7	49	48	93
Total of NAV CANADA towers (42)							
Domestic	236,237	131,987	41,355	25,268	28,003	5,188	4,436
Transborder	41,428	35,569	857	162	4,516	40	284
Other international	10,189	9,571	70	33	304	4	207
Total	287,854	177,127	42,282	25,463	32,823	5,232	4,927

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	1,680	108	430	29	550	15	548
Transborder	16	0	0	0	16	0	0
Other international	0	0	0	0	0	0	0
Total	1,696	108	430	29	566	15	548
Campbell River							
Domestic	1,478	612	252	174	388	34	18
Transborder	55	1	1	0	53	0	0
Other international	0	0	0	0	0	0	0
Total	1,533	613	253	174	441	34	18
Castlegar							
Domestic	1,045	274	168	495	92	4	12
Transborder	8	0	1	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	1,053	274	169	495	99	4	12
Charlottetown							
Domestic	1,155	786	54	0	280	21	14
Transborder	54	21	1	0	32	0	0
Other international	2	2	0	0	0	0	0
Total	1,211	809	55	0	312	21	14
Churchill							
Domestic	755	641	63	2	33	14	2
Transborder	3	1	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	758	642	63	2	35	14	2
Cranbrook							
Domestic	1,254	576	114	18	323	27	196
Transborder	25	3	1	0	21	0	0
Other international	1	1	0	0	0	0	0
Total	1,280	580	115	18	344	27	196
Deer Lake							
Domestic	1,372	900	373	27	15	47	10
Transborder	0	0	0	0	0	0	0
Other international	1	0	1	0	0	0	0
Total	1,373	900	374	27	15	47	10
Fort Nelson							
Domestic	2,434	533	1,631	20	171	14	65
Transborder	2	1	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,436	534	1,631	20	172	14	65
Fort St. John							
Domestic	2,281	807	1,026	44	370	30	4
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,282	807	1,026	44	371	30	4
Grande Prairie							
Domestic	3,054	1,257	829	150	529	22	267
Transborder	7	0	0	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	3,061	1,257	829	150	536	22	267
High Level							
Domestic	1,094	321	678	14	55	20	6
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,096	321	678	14	57	20	6

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	458	346	18	0	30	54	10
Transborder	5	0	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	463	346	18	0	35	54	10
Inuvik/Mike Zubko							
Domestic	1,259	978	255	0	4	12	10
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,259	978	255	0	4	12	10
Iqaluit							
Domestic	1,703	1,332	207	42	36	64	22
Transborder	23	7	0	2	14	0	0
Other international	92	43	2	5	32	5	5
Total	1,818	1,382	209	49	82	69	27
Kamloops							
Domestic	1,982	815	458	267	372	62	8
Transborder	23	0	3	0	20	0	0
Other international	0	0	0	0	0	0	0
Total	2,005	815	461	267	392	62	8
Kenora							
Domestic	1,019	401	421	7	101	49	40
Transborder	67	7	1	0	59	0	0
Other international	0	0	0	0	0	0	0
Total	1,086	408	422	7	160	49	40
Kingston							
Domestic	1,599	430	347	293	446	29	54
Transborder	33	0	3	0	30	0	0
Other international	0	0	0	0	0	0	0
Total	1,632	430	350	293	476	29	54
Kuujuuaq							
Domestic	1,183	909	212	2	36	18	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,183	909	212	2	36	18	6
La Grande Rivière							
Domestic	812	585	165	3	36	12	11
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	813	585	165	3	37	12	11
La Ronge							
Domestic	1,457	1,237	18	5	75	118	4
Transborder	1	0	0	0	0	1	0
Other international	0	0	0	0	0	0	0
Total	1,458	1,237	18	5	75	119	4
Lethbridge							
Domestic	1,204	412	36	368	359	14	15
Transborder	98	0	3	2	88	0	5
Other international	0	0	0	0	0	0	0
Total	1,302	412	39	370	447	14	20
Lloydminster							
Domestic	986	196	322	22	411	29	6
Transborder	7	1	0	0	6	0	0
Other international	1	0	0	1	0	0	0
Total	994	197	322	23	417	29	6

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	1,049	481	110	112	314	16	16	
Transborder	14	4	0	0	8	0	2	
Other international	0	0	0	0	0	0	0	
Total	1,063	485	110	112	322	16	18	
Mont-Joli								
Domestic	808	566	148	23	39	24	8	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	809	566	148	23	40	24	8	
Montréal/Mirabel International								
Domestic	1,878	619	517	73	648	2	19	
Transborder	213	198	0	0	15	0	0	
Other international	1	0	0	1	0	0	0	
Total	2,092	817	517	74	663	2	19	
Nanaimo								
Domestic	2,180	413	676	171	867	31	22	
Transborder	80	3	3	3	70	0	1	
Other international	1	0	0	0	1	0	0	
Total	2,261	416	679	174	938	31	23	
Norman Wells								
Domestic	970	684	255	5	13	9	4	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	971	684	255	5	14	9	4	
North Bay								
Domestic	1,676	648	361	151	420	58	38	
Transborder	35	7	2	0	26	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,711	655	363	151	446	58	38	
Ottawa/Gatineau								
Domestic	2,569	271	598	308	1,283	72	37	
Transborder	8	0	0	0	8	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,577	271	598	308	1,291	72	37	
Peace River								
Domestic	749	472	162	22	63	26	4	
Transborder	6	0	0	0	6	0	0	
Other international	0	0	0	0	0	0	0	
Total	755	472	162	22	69	26	4	
Penticton								
Domestic	1,387	317	605	40	382	6	37	
Transborder	20	2	0	0	18	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,407	319	605	40	400	6	37	
Port Hardy								
Domestic	817	604	79	10	63	47	14	
Transborder	30	5	0	0	19	0	6	
Other international	0	0	0	0	0	0	0	
Total	847	609	79	10	82	47	20	
Prince Albert								
Domestic	1,736	1,378	50	8	149	123	28	
Transborder	3	0	0	0	3	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,739	1,378	50	8	152	123	28	

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	315	249	5	2	24	30	5
Transborder	8	1	0	0	6	0	1
Other international	0	0	0	0	0	0	0
Total	323	250	5	2	30	30	6
Rankin Inlet							
Domestic	1,760	1,002	740	0	8	8	2
Transborder	2	0	0	0	2	0	0
Other international	1	1	0	0	0	0	0
Total	1,763	1,003	740	0	10	8	2
Red Deer Regional							
Domestic	2,123	435	844	151	654	24	15
Transborder	13	0	2	0	11	0	0
Other international	0	0	0	0	0	0	0
Total	2,136	435	846	151	665	24	15
Rouyn-Noranda							
Domestic	1,314	668	172	221	231	20	2
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,316	668	172	221	233	20	2
Saint John							
Domestic	1,225	756	74	67	288	14	26
Transborder	99	5	1	0	93	0	0
Other international	0	0	0	0	0	0	0
Total	1,324	761	75	67	381	14	26
Sept-Îles							
Domestic	2,512	1,309	915	37	160	85	6
Transborder	9	0	1	0	8	0	0
Other international	1	0	0	0	1	0	0
Total	2,522	1,309	916	37	169	85	6
Sioux Lookout							
Domestic	2,507	1,745	551	87	84	34	6
Transborder	11	1	0	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	2,518	1,746	551	87	94	34	6
Smithers							
Domestic	1,071	572	243	11	111	22	112
Transborder	25	3	0	0	22	0	0
Other international	0	0	0	0	0	0	0
Total	1,096	575	243	11	133	22	112
St. Catharines							
Domestic	1,360	11	866	30	438	15	0
Transborder	47	5	1	2	39	0	0
Other international	0	0	0	0	0	0	0
Total	1,407	16	867	32	477	15	0
Sudbury							
Domestic	2,667	1,584	508	47	329	189	10
Transborder	25	4	7	1	13	0	0
Other international	0	0	0	0	0	0	0
Total	2,692	1,588	515	48	342	189	10
Terrace							
Domestic	1,395	741	559	2	59	34	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,397	741	559	2	61	34	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	2,769	2,178	409	9	83	90	0
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	2,773	2,178	409	9	87	90	0
Timmins							
Domestic	2,090	1,589	253	17	137	94	0
Transborder	6	0	1	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	2,096	1,589	254	17	142	94	0
Val-d'Or							
Domestic	1,312	762	189	22	294	43	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,312	762	189	22	294	43	2
Victoria Harbour							
Domestic	2,890	2,741	37	2	15	90	5
Transborder	316	312	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	3,206	3,053	37	2	19	90	5
Wabush							
Domestic	2,104	979	962	6	130	27	0
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	2,107	979	962	6	133	27	0
Whitecourt							
Domestic	1,012	45	631	180	152	4	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,012	45	631	180	152	4	0
Williams Lake							
Domestic	971	407	350	24	170	18	2
Transborder	5	0	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	976	407	350	24	175	18	2
Total of all flight service stations (51)							
Domestic	78,480	38,682	19,946	3,820	12,320	1,964	1,748
Transborder	1,419	592	32	10	769	1	15
Other international	101	47	3	7	34	5	5
Total	80,000	39,321	19,981	3,837	13,123	1,970	1,768

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	9,220	14	15	92	14	616
Boundary Bay	6	14,782	28	15	126	28	771
Calgary International	3	20,568	14	18	63	28	778
Calgary/Springbank	10	12,661	28	11	94	20	615
Chicoutimi/St-Honoré	13	11,748	19	9	152	6	879
Edmonton City Centre	32	5,272	20	9	39	8	231
Edmonton International	14	11,658	16	13	67	21	484
Edmonton/Villeneuve	28	6,017	5	13	81	5	392
Fort McMurray	26	6,418	27	18	43	13	300
Fredericton International	33	5,078	10	15	96	10	537
Gander International	38	3,171	22	20	36	22	219
Halifax/Robert L. Stanfield International	23	7,256	12	15	26	9	282
Hamilton	37	3,180	10	11	30	9	169
Kelowna	25	6,578	23	12	72	5	315
Kitchener/Waterloo	20	8,922	27	14	92	28	671
Langley	22	7,432	18	14	69	10	442
London	21	7,514	27	15	74	27	433
Moncton/Greater Moncton International	24	7,036	1	18	53	19	413
Montréal/Pierre Elliott Trudeau International	4	20,134	8	18	71	30	757
Montréal/St-Hubert	5	16,617	25	13	129	27	1,086
Oshawa	30	5,676	11	13	69	22	437
Ottawa/Macdonald-Cartier International	9	12,811	16	11	76	15	580
Pitt Meadows	7	13,396	8	15	114	10	690
Prince George	39	2,816	25	11	44	17	161
Québec/Jean Lesage International	11	12,031	21	15	74	26	654
Regina International	31	5,531	29	17	33	9	267
Saskatoon/John G. Diefenbaker International	19	8,946	29	11	60	7	418
Sault Ste. Marie	41	2,552	25	15	46	23	200
St. John's International	36	3,776	24	20	19	26	158
St-Jean	35	3,909	28	15	53	25	397
Thunder Bay	27	6,251	28	15	82	23	512
Toronto/Billy Bishop Toronto City	16	10,466	28	15	80	22	530
Toronto/Buttonville Municipal	15	11,268	28	11	98	9	691
Toronto/Lester B. Pearson International	1	36,692	2	19	101	2	1,345
Vancouver Harbour	29	5,689	23	17	35	29	254
Vancouver International	2	25,992	2	11	80	2	1,039
Victoria International	8	13,194	16	12	70	29	610
Whitehorse International	40	2,661	29	15	32	8	146
Windsor	42	2,235	10	11	39	11	215
Winnipeg/James Armstrong Richardson International	12	11,953	22	14	61	9	513
Winnipeg/St. Andrews	17	10,274	27	11	105	28	595
Yellowknife	34	4,390	28	17	44	12	207

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	17	2,384	2	14	39	25	181
Campbell River	21	2,061	3	12	35	3	202
Castlegar	22	1,987	16	15	65	16	219
Charlottetown	32	1,499	20	16	17	11	77
Churchill	48	842	21	17	20	22	71
Cranbrook	33	1,482	10	10	29	10	207
Deer Lake	36	1,425	26	12	19	26	100
Fort Nelson	12	2,634	22	12	23	22	154
Fort St. John	13	2,624	9	14	30	20	133
Grande Prairie	2	3,965	20	11	61	20	226
High Level	40	1,172	24	11	20	15	70
Îles-de-la-Madeleine	50	463	23	17	5	2	24
Inuvik/Mike Zubko	38	1,315	13	23	40	13	99
Iqaluit	23	1,940	23	15	21	9	92
Kamloops	6	3,294	2	14	41	24	259
Kenora	41	1,154	24	18	44	24	65
Kingston	14	2,614	17	14	38	17	189
Kuujuuaq	39	1,277	26	17	22	26	76
La Grande Rivière	49	817	6	14	11	9	61
La Ronge	31	1,522	13	11	12	15	83
Lethbridge	25	1,770	16	20	25	14	102
Lloydminster	34	1,460	29	11	23	15	96
Medicine Hat	37	1,367	24	11	22	30	96
Mont-Joli	44	1,075	4	10	40	3	222
Montréal/Mirabel International	3	3,866	23	13	46	8	238
Nanaimo	11	2,737	3	13	47	29	179
Norman Wells	43	1,082	1	16	18	12	65
North Bay	5	3,593	1	13	60	1	249
Ottawa/Gatineau	1	5,843	25	13	107	25	447
Peace River	47	845	1	12	16	8	64
Penticton	18	2,275	20	14	38	1	175
Port Hardy	46	851	2	14	13	1	68
Prince Albert	27	1,763	19	8	18	7	101
Prince Rupert	51	349	12	11	8	12	27
Rankin Inlet	26	1,763	6	14	18	13	107
Red Deer Regional	4	3,665	26	14	45	22	233
Rouyn-Noranda	29	1,691	13	15	20	17	122
Saint John	28	1,742	18	10	21	18	105
Sept-Îles	16	2,600	22	10	24	1	126
Sioux Lookout	15	2,612	8	20	20	8	145
Smithers	42	1,134	11	13	18	11	93
St. Catharines	8	2,967	26	16	54	26	277
Sudbury	10	2,874	6	10	26	16	153
Terrace	35	1,425	19	16	31	19	89
Thompson	9	2,939	14	14	28	15	185
Timmins	20	2,164	24	20	31	9	101
Val-d'Or	30	1,618	16	17	31	16	139
Victoria Harbour	7	3,212	30	16	22	16	159
Wabush	19	2,183	6	11	22	6	152
Whitecourt	24	1,906	23	12	48	20	143
Williams Lake	45	1,059	9	15	17	9	62

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	3,338	14	16	23	14	176
Boundary Bay	13	6,438	24	15	45	5	348
Calgary International	3	20,300	14	18	63	28	778
Calgary/Springbank	18	5,405	24	10	40	24	260
Chicoutimi/St-Honoré	34	2,458	23	13	21	8	173
Edmonton City Centre	20	4,816	26	10	22	8	205
Edmonton International	6	10,958	26	7	39	21	440
Edmonton/Villeneuve	40	1,979	10	10	36	5	212
Fort McMurray	15	5,756	28	8	31	27	275
Fredericton International	33	2,840	2	12	18	17	163
Gander International	36	2,275	21	16	15	19	126
Halifax/Robert L. Stanfield International	12	7,036	16	17	25	1	268
Hamilton	35	2,424	20	16	13	9	117
Kelowna	21	4,526	2	10	22	20	197
Kitchener/Waterloo	25	3,934	10	11	29	20	239
Langley	27	3,860	24	15	44	24	321
London	22	4,334	16	15	32	16	253
Moncton/Greater Moncton International	24	4,242	22	12	23	28	208
Montréal/Pierre Elliott Trudeau International	4	20,016	8	18	71	8	743
Montréal/St-Hubert	11	7,331	11	16	48	11	437
Oshawa	32	3,272	11	13	43	11	248
Ottawa/Macdonald-Cartier International	5	11,483	26	16	48	26	501
Pitt Meadows	23	4,248	9	17	34	10	258
Prince George	38	2,128	2	16	15	8	92
Québec/Jean Lesage International	8	8,565	10	13	40	9	409
Regina International	28	3,847	13	16	18	21	160
Saskatoon/John G. Diefenbaker International	14	6,182	6	14	28	7	274
Sault Ste. Marie	41	1,731	16	14	14	26	100
St. John's International	30	3,640	19	20	16	9	155
St-Jean	39	2,077	25	13	36	25	311
Thunder Bay	19	4,923	27	16	28	27	239
Toronto/Billy Bishop Toronto City	10	7,550	25	13	38	25	328
Toronto/Butonville Municipal	17	5,414	18	13	40	25	333
Toronto/Lester B. Pearson International	1	36,600	2	19	101	2	1,345
Vancouver Harbour	16	5,679	23	17	35	29	254
Vancouver International	2	25,954	2	11	80	2	1,039
Victoria International	9	8,096	2	16	35	29	334
Whitehorse International	37	2,261	5	15	15	8	110
Windsor	42	1,639	11	11	24	11	163
Winnipeg/James Armstrong Richardson International	7	10,655	2	15	37	15	424
Winnipeg/St. Andrews	29	3,738	22	13	28	22	190
Yellowknife	26	3,906	28	17	28	21	185

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	20	1,696	11	14	29	25	179
Campbell River	22	1,533	3	15	15	5	98
Castlegar	40	1,053	17	16	13	16	55
Charlottetown	34	1,211	3	10	9	11	57
Churchill	48	758	9	17	7	9	39
Cranbrook	32	1,280	22	15	16	10	147
Deer Lake	27	1,373	22	8	11	1	69
Fort Nelson	8	2,436	29	10	21	20	134
Fort St. John	9	2,282	14	16	17	14	104
Grande Prairie	2	3,061	18	13	19	19	135
High Level	36	1,096	6	9	9	14	55
Îles-de-la-Madeleine	50	463	23	17	5	2	24
Inuvik/Mike Zubko	33	1,259	26	22	13	26	66
Iqaluit	16	1,818	8	14	16	8	80
Kamloops	15	2,005	10	14	17	10	87
Kenora	38	1,086	1	12	13	27	59
Kingston	21	1,632	14	12	18	17	97
Kuujuuaq	35	1,183	1	18	11	9	57
La Grande Rivière	46	813	6	13	9	9	61
La Ronge	23	1,458	14	10	11	15	83
Lethbridge	31	1,302	10	8	17	10	87
Lloydminster	42	994	15	15	11	15	66
Medicine Hat	39	1,063	27	15	16	27	47
Mont-Joli	47	809	20	18	9	6	42
Montréal/Mirabel International	14	2,092	17	11	18	1	101
Nanaimo	10	2,261	3	13	25	29	127
Norman Wells	44	971	28	14	11	12	55
North Bay	19	1,711	20	13	16	8	116
Ottawa/Gatineau	5	2,577	17	17	64	25	209
Peace River	49	755	28	15	8	8	56
Penticton	25	1,407	1	17	12	4	70
Port Hardy	45	847	2	14	13	1	66
Prince Albert	18	1,739	7	14	15	7	101
Prince Rupert	51	323	13	9	7	12	21
Rankin Inlet	17	1,763	6	14	18	13	107
Red Deer Regional	11	2,136	25	13	35	25	205
Rouyn-Noranda	29	1,316	13	15	20	13	66
Saint John	28	1,324	21	16	9	11	62
Sept-Îles	6	2,522	6	16	18	1	126
Sioux Lookout	7	2,518	13	8	16	8	121
Smithers	37	1,096	11	13	18	11	93
St. Catharines	24	1,407	11	14	16	17	94
Sudbury	4	2,692	9	18	15	16	121
Terrace	26	1,397	9	17	12	14	69
Thompson	3	2,773	15	8	18	15	169
Timmins	13	2,096	9	16	13	27	93
Val-d'Or	30	1,312	9	13	25	9	98
Victoria Harbour	1	3,206	30	16	22	16	159
Wabush	12	2,107	8	11	15	6	98
Whitecourt	41	1,012	27	12	13	9	76
Williams Lake	43	976	13	18	13	11	54

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	7	5,882	14	15	80	14	440
Boundary Bay	4	8,344	28	15	82	28	444
Calgary International	36	268	17	10	16	24	100
Calgary/Springbank	5	7,256	28	11	72	20	382
Chicoutimi/St-Honoré	1	9,290	19	9	138	6	752
Edmonton City Centre	34	456	20	9	20	20	42
Edmonton International	29	700	16	13	46	16	112
Edmonton/Villeneuve	11	4,038	5	13	56	22	246
Fort McMurray	31	662	4	14	30	1	48
Fredericton International	19	2,238	10	15	84	10	384
Gander International	26	896	22	20	30	22	120
Halifax/Robert L. Stanfield International	37	220	2	16	8	9	24
Hamilton	28	756	29	11	24	17	74
Kelowna	20	2,052	23	12	60	22	140
Kitchener/Waterloo	10	4,988	27	14	70	28	474
Langley	12	3,572	2	13	52	8	234
London	14	3,180	27	15	54	27	242
Moncton/Greater Moncton International	16	2,794	1	18	38	19	230
Montréal/Pierre Elliott Trudeau International	39	118	30	12	22	30	46
Montréal/St-Hubert	2	9,286	25	13	94	23	694
Oshawa	18	2,404	27	13	36	22	220
Ottawa/Macdonald-Cartier International	23	1,328	20	20	40	15	108
Pitt Meadows	3	9,148	8	15	98	29	480
Prince George	30	688	25	11	40	4	78
Québec/Jean Lesage International	13	3,466	21	15	46	26	264
Regina International	22	1,684	21	10	26	9	108
Saskatoon/John G. Diefenbaker International	17	2,764	29	11	42	19	158
Sault Ste. Marie	27	821	24	10	38	23	114
St. John's International	38	136	24	20	14	24	38
St-Jean	21	1,832	28	15	50	22	146
Thunder Bay	24	1,328	28	15	58	23	292
Toronto/Billy Bishop Toronto City	15	2,916	28	15	52	22	212
Toronto/Buttonville Municipal	8	5,854	28	11	76	9	368
Toronto/Lester B. Pearson International	40	92	24	13	14	24	34
Vancouver Harbour	42	10	11	16	2	11	2
Vancouver International	41	38	23	12	14	23	14
Victoria International	9	5,098	9	15	46	6	290
Whitehorse International	35	400	29	15	26	29	50
Windsor	32	596	25	16	32	11	52
Winnipeg/James Armstrong Richardson International	25	1,298	22	14	34	9	100
Winnipeg/St. Andrews	6	6,536	27	11	84	14	418
Yellowknife	33	484	12	16	28	12	58

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	12	688	2	14	34	23	90
Campbell River	13	528	3	12	24	3	108
Castlegar	8	934	16	15	60	16	164
Charlottetown	22	288	20	16	14	1	26
Churchill	33	84	21	16	15	22	50
Cranbrook	24	202	10	10	14	10	60
Deer Lake	42	52	26	12	18	26	42
Fort Nelson	25	198	26	15	16	22	34
Fort St. John	19	342	1	11	24	20	36
Grande Prairie	9	904	20	11	48	20	108
High Level	37	76	24	11	16	24	26
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	41	56	13	23	38	13	38
Iqaluit	28	122	23	15	18	24	28
Kamloops	6	1,289	2	14	36	24	188
Kenora	39	68	24	18	40	24	40
Kingston	7	982	29	19	30	17	92
Kuujuuaq	31	94	26	17	18	26	26
La Grande Rivière	49	4	6	14	4	6	4
La Ronge	40	64	3	11	6	19	8
Lethbridge	15	468	16	20	22	12	48
Lloydminster	16	466	16	16	16	7	52
Medicine Hat	21	304	17	8	14	30	58
Mont-Joli	23	266	4	10	40	3	206
Montréal/Mirabel International	3	1,774	23	13	38	8	148
Nanaimo	14	476	28	17	26	3	60
Norman Wells	29	111	1	16	14	1	14
North Bay	2	1,882	1	13	52	1	178
Ottawa/Gatineau	1	3,266	25	13	86	27	244
Peace River	32	90	1	12	10	1	16
Penticton	11	868	13	21	34	13	118
Port Hardy	48	4	1	9	2	1	2
Prince Albert	46	24	19	8	6	19	8
Prince Rupert	45	26	16	11	8	16	12
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	5	1,529	26	14	37	22	138
Rouyn-Noranda	18	375	18	13	14	17	68
Saint John	17	418	18	10	20	18	56
Sept-Îles	35	78	22	10	14	3	22
Sioux Lookout	30	94	8	21	12	8	24
Smithers	43	38	13	11	8	15	14
St. Catharines	4	1,560	26	16	48	26	210
Sudbury	26	182	6	10	18	7	34
Terrace	44	28	19	16	20	19	26
Thompson	27	166	14	14	18	14	46
Timmins	38	68	24	20	28	24	36
Val-d'Or	20	306	16	17	24	16	70
Victoria Harbour	47	6	28	15	4	28	6
Wabush	36	76	6	15	18	6	54
Whitecourt	10	894	23	12	42	20	108
Williams Lake	34	83	9	15	14	10	18

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	7	5,870	14	15	80	14	440
Boundary Bay	4	8,344	28	15	82	28	444
Calgary International	36	268	17	10	16	24	100
Calgary/Springbank	5	7,256	28	11	72	20	382
Chicoutimi/St-Honoré	2	9,280	19	9	138	6	752
Edmonton City Centre	34	456	20	9	20	20	42
Edmonton International	31	648	16	13	46	16	112
Edmonton/Villeneuve	11	4,038	5	13	56	22	246
Fort McMurray	30	662	4	14	30	1	48
Fredericton International	19	2,232	10	15	84	10	384
Gander International	26	896	22	20	30	22	120
Halifax/Robert L. Stanfield International	37	212	2	16	8	12	24
Hamilton	28	744	29	11	24	17	74
Kelowna	20	2,048	23	12	60	22	140
Kitchener/Waterloo	10	4,988	27	14	70	28	474
Langley	12	3,568	2	13	52	8	234
London	14	3,180	27	15	54	27	242
Moncton/Greater Moncton International	16	2,792	1	18	38	19	230
Montréal/Pierre Elliott Trudeau International	39	118	30	12	22	30	46
Montréal/St-Hubert	1	9,286	25	13	94	23	694
Oshawa	18	2,402	27	13	36	22	220
Ottawa/Macdonald-Cartier International	23	1,328	20	20	40	15	108
Pitt Meadows	3	9,148	8	15	98	29	480
Prince George	29	688	25	11	40	4	78
Québec/Jean Lesage International	13	3,462	21	15	46	26	264
Regina International	22	1,562	21	10	26	5	102
Saskatoon/John G. Diefenbaker International	17	2,674	29	11	40	19	154
Sault Ste. Marie	27	821	24	10	38	23	114
St. John's International	38	136	24	20	14	24	38
St-Jean	21	1,832	28	15	50	22	146
Thunder Bay	24	1,318	28	15	58	23	292
Toronto/Billy Bishop Toronto City	15	2,916	28	15	52	22	212
Toronto/Buttonville Municipal	8	5,854	28	11	76	9	368
Toronto/Lester B. Pearson International	40	92	24	13	14	24	34
Vancouver Harbour	42	10	11	16	2	11	2
Vancouver International	41	38	23	12	14	23	14
Victoria International	9	5,096	9	15	46	6	290
Whitehorse International	35	398	29	15	26	29	50
Windsor	32	590	25	16	32	11	50
Winnipeg/James Armstrong Richardson International	25	1,298	22	14	34	9	100
Winnipeg/St. Andrews	6	6,536	27	11	84	14	418
Yellowknife	33	482	12	16	28	12	58

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	12	588	2	14	34	23	90
Campbell River	13	528	3	12	24	3	108
Castlegar	8	928	16	15	60	16	164
Charlottetown	22	272	20	16	14	1	26
Churchill	33	84	21	16	15	22	50
Cranbrook	24	202	10	10	14	10	60
Deer Lake	42	52	26	12	18	26	42
Fort Nelson	25	198	26	15	16	22	34
Fort St. John	19	342	1	11	24	20	36
Grande Prairie	9	904	20	11	48	20	108
High Level	36	76	24	11	16	24	26
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	41	56	13	23	38	13	38
Iqaluit	28	122	23	15	18	24	28
Kamloops	6	1,289	2	14	36	24	188
Kenora	40	62	24	18	40	24	40
Kingston	7	968	29	19	30	17	92
Kuujuuaq	30	94	26	17	18	26	26
La Grande Rivière	48	4	6	14	4	6	4
La Ronge	39	64	3	11	6	19	8
Lethbridge	16	460	16	20	22	12	48
Lloydminster	15	466	16	16	16	7	52
Medicine Hat	21	304	17	8	14	30	58
Mont-Joli	23	266	4	10	40	3	206
Montréal/Mirabel International	3	1,764	23	13	38	8	148
Nanaimo	14	476	28	17	26	3	60
Norman Wells	29	111	1	16	14	1	14
North Bay	2	1,858	1	13	52	11	170
Ottawa/Gatineau	1	3,266	25	13	86	27	244
Peace River	32	90	1	12	10	1	16
Penticton	11	868	13	21	34	13	118
Port Hardy	49	4	1	9	2	1	2
Prince Albert	46	24	19	8	6	19	8
Prince Rupert	45	26	16	11	8	16	12
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	5	1,529	26	14	37	22	138
Rouyn-Noranda	18	375	18	13	14	17	68
Saint John	17	414	18	10	20	18	56
Sept-Îles	35	78	22	10	14	3	22
Sioux Lookout	31	94	8	21	12	8	24
Smithers	43	38	13	11	8	15	14
St. Catharines	4	1,560	26	16	48	26	210
Sudbury	26	182	6	10	18	7	34
Terrace	44	28	19	16	20	19	26
Thompson	27	166	14	14	18	14	46
Timmins	38	68	24	20	28	24	36
Val-d'Or	20	306	16	17	24	16	70
Victoria Harbour	47	6	28	15	4	28	6
Wabush	37	76	6	15	18	6	54
Whitecourt	10	894	23	12	42	20	108
Williams Lake	34	83	9	15	14	10	18

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	4	12	2	16	6	2	6
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	7	10	20	19	8	20	8
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	3	52	10	15	20	10	24
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	0	0	0	0	0	0	0
Fredericton International	9	6	28	13	6	28	6
Gander International	0	0	0	0	0	0	0
Halifax/Robert L. Stanfield International	8	8	9	17	2	9	2
Hamilton	5	12	1	14	4	22	8
Kelowna	11	4	27	11	4	27	4
Kitchener/Waterloo	0	0	0	0	0	0	0
Langley	13	4	4	18	4	4	4
London	0	0	0	0	0	0	0
Moncton/Greater Moncton International	14	2	16	10	2	16	2
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	0	0	0	0	0	0	0
Oshawa	18	2	6	13	2	6	2
Ottawa/Macdonald-Cartier International	0	0	0	0	0	0	0
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	12	4	2	12	4	2	4
Regina International	1	122	1	11	8	1	20
Saskatoon/John G. Diefenbaker International	2	90	7	18	12	7	22
Sault Ste. Marie	0	0	0	0	0	0	0
St. John's International	0	0	0	0	0	0	0
St-Jean	0	0	0	0	0	0	0
Thunder Bay	6	10	6	15	4	6	4
Toronto/Billy Bishop Toronto City	0	0	0	0	0	0	0
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	16	2	10	14	2	10	2
Whitehorse International	15	2	11	15	2	11	2
Windsor	10	6	9	10	2	9	2
Winnipeg/James Armstrong Richardson International	0	0	0	0	0	0	0
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	17	2	7	11	2	7	2

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	1	100	7	21	18	21	52
Campbell River	0	0	0	0	0	0	0
Castlegar	7	6	28	13	4	28	4
Charlottetown	3	16	2	9	2	22	4
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	0	0	0	0	0	0	0
Kenora	8	6	1	14	2	1	2
Kingston	4	14	21	10	12	21	14
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	6	8	25	14	6	25	6
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	5	10	22	12	6	22	6
Nanaimo	0	0	0	0	0	0	0
Norman Wells	0	0	0	0	0	0	0
North Bay	2	24	1	11	14	1	24
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	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	0	0	0	0	0	0	0
Rouyn-Noranda	0	0	0	0	0	0	0
Saint John	9	4	7	16	2	7	2
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

Beginning in September 2011, Porter Airlines has added an additional daily roundtrip flight between 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.

Hurricane Irene struck the northeastern United States and eastern Canada in August forcing numerous flight delays and cancellations.

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 Pierre Elliott Trudeau International 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 began daily service between 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.