

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



August 2010



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Statistics Canada
Transportation Division

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

August 2010

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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

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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 decreased 3.1% in August 2010 from August 2009. These airports reported 537,351 movements in August compared with 554,654 movements in August 2009.
- There were 392,668 itinerant movements (flights from one airport to another) reported in August 2010. This represents a 2.8% decrease (-11,298 movements) compared with the same month a year earlier.
- There were 144,683 local movements (flights that remain in the vicinity of the airport) recorded in August 2010. This represents a decrease of 6,005 movements (-4.0%) compared with August 2009.

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, August 2009 to August 2010	number	Percentage change, August 2009 to August 2010	number	Percentage change, August 2009 to August 2010
Grand total	429,812	-0.8	107,539	-11.5	537,351	-3.1
Itinerant movements						
Air carriers	232,116	2.4	63,731	-7.0	295,847	0.2
Other commercial movements	29,914	-16.4	4,049	-25.7	33,963	-17.6
Private movements	36,159	-7.3	13,871	-7.2	50,030	-7.3
Government civil movements	4,495	-5.5	2,502	-2.7	6,997	-4.5
Government military movements	4,868	4.7	963	-39.3	5,831	-6.5
Itinerant total	307,552	-1.1	85,116	-8.5	392,668	-2.8
Local movements						
Civil local movements	122,232	2.3	22,127	-21.5	144,359	-2.2
Military local movements	28	-99.0	296	-4.5	324	-89.4
Local total	122,260	0.1	22,423	-21.3	144,683	-4.0

Analysis

Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased 3.1% in August 2010 from August 2009. These airports reported 537,351 movements in August compared with 554,654 movements in August 2009. Year over year increases were reported by 52 airports. Toronto/Lester B Pearson International, Ontario (38,191 movements) followed by Vancouver International, British Columbia (29,406 movements) were the most active sites in August 2010.

There were 392,668 itinerant movements (flights from one airport to another) reported in August 2010. This represents a 2.8% decrease (-11,298 movements) compared with the same month a year earlier. The year over year variations ranged from an increase of 55.9% for St-Jean, Quebec to a decline of 46.0% for Kamloops, British Columbia. Year-over-year increases in the number of itinerant aircraft movements were reported by 45 airports in August 2010.

There were 144,683 local movements (flights that remain in the vicinity of the airport) recorded in August 2010. Toronto/Buttontown Municipal, Ontario recorded the largest gain, increasing by 4,136 local movements (+55.6%). Only partial local movement data have been received for the month of August 2010 for Oshawa, Ontario and Sault Ste Marie, Ontario.

Itinerant movements: domestic, transborder and international

There were 335,085 domestic itinerant movements reported in August 2010, down 4.1% (-14,486 movements) from August 2009. Vancouver International, British Columbia (22,353) followed by Toronto/Lester B. Pearson International, Ontario (16,749) reported the greatest number of domestic itinerant movements.

Eighty-three airports reported 46,410 transborder itinerant movements (between Canada and the United States) in August 2010, up 8.1% (+3,473 movements) from the previous year. Toronto/Lester B Pearson International, Ontario (16,203) followed by Montréal/Pierre Elliott Trudeau International, Quebec (6,337) reported the greatest number of transborder itinerant movements.

Forty-one airports reported 11,173 other international itinerant movements in August 2010, down 2.5% (-285 movements) from the previous year. Toronto/Lester B Pearson International, Ontario recorded the largest gain, increasing by 773 other international itinerant movements (+17.6%) while Fort McMurray, Alberta reported the largest decline with 623 fewer movements (-98.9%) compared with the previous year.

Related products

Selected publications from Statistics Canada

51-008-X	Aircraft Movement Statistics: Airports Without Air Traffic Control Towers (TP 141)
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
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Selected surveys from Statistics Canada

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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	25	6,852	32	3,503	14	3,349
Boundary Bay	7	17,011	12	7,281	3	9,730
Calgary International	3	20,729	3	20,579	37	150
Calgary/Springbank	18	10,229	28	3,917	5	6,312
Chicoutimi/St-Honoré	29	5,241	39	2,397	19	2,844
Edmonton City Centre	28	5,293	23	4,658	31	635
Edmonton International	15	11,390	6	11,005	33	385
Edmonton/Villeneuve	34	4,350	42	1,228	17	3,122
Fort McMurray	27	6,105	20	5,115	26	990
Fredericton International	14	11,614	18	5,660	8	5,954
Gander International	38	3,721	38	2,501	23	1,220
Halifax/Robert L Stanfield International	22	8,281	11	7,895	32	386
Hamilton	36	3,985	36	2,682	22	1,303
Kelowna	24	6,923	21	4,807	20	2,116
Kitchener/Waterloo	19	9,218	24	4,576	11	4,642
Langley	26	6,537	33	3,362	16	3,175
London	8	15,987	13	7,014	4	8,973
Moncton/Greater Moncton International	11	12,990	14	6,913	6	6,077
Montréal/Pierre Elliott Trudeau International	5	19,627	4	19,601	41	26
Montréal/St-Hubert	4	19,864	9	8,900	2	10,964
Oshawa ¹	41	2,928	35	2,708	36	220
Ottawa/Macdonald-Cartier International	9	15,576	5	11,688	12	3,888
Pitt Meadows	16	10,603	25	4,571	7	6,032
Prince George	37	3,857	34	3,199	30	658
Québec/Jean Lesage International	13	11,643	10	8,390	15	3,253
Regina International	30	5,193	29	3,836	21	1,357
Saskatoon/John G Diefenbaker International	20	8,714	19	5,646	18	3,068
Sault Ste. Marie ¹	42	1,450	41	1,416	40	34
St. John's International	35	4,060	30	3,836	35	224
St-Jean	23	6,993	17	6,075	27	918
Thunder Bay	31	5,102	26	4,248	28	854
Toronto/Billy Bishop Toronto City	17	10,597	15	6,746	13	3,851
Toronto/Buttonville Municipal	6	18,231	16	6,662	1	11,569
Toronto/Lester B Pearson International	1	38,191	1	38,105	38	86
Vancouver Harbour	32	4,768	22	4,768	0	0
Vancouver International	2	29,406	2	29,326	39	80
Victoria International	10	14,983	8	9,543	9	5,440
Whitehorse International	39	3,679	37	2,583	24	1,096
Windsor	40	3,031	40	2,245	29	786
Winnipeg/James Armstrong Richardson International	12	11,675	7	10,610	25	1,065
Winnipeg/St. Andrews	21	8,629	31	3,585	10	5,044
Yellowknife	33	4,556	27	4,172	34	384
Total of NAV CANADA towers (42)	.	429,812	.	307,552	.	122,260

1. Only partial local movement data has been received for the month of August 2010 for Oshawa, Ontario and Sault Ste. Marie, Ontario.

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	31	1,746	39	1,058	12	688
Campbell River	3	3,888	4	2,665	7	1,223
Castlegar	47	790	47	682	33	108
Charlottetown	18	2,441	14	2,091	19	350
Churchill	45	992	42	950	41	42
Cranbrook	37	1,431	37	1,163	22	268
Deer Lake	28	1,817	26	1,625	28	192
Fort Nelson	20	2,235	13	2,149	35	86
Fort St John	21	2,169	18	1,846	21	323
Grande Prairie	6	3,410	6	2,612	10	798
High Level	44	1,021	43	897	31	124
Îles-de-la-Madeleine	51	446	51	446	0	0
Inuvik/Mike Zubko	25	1,916	20	1,836	36	80
Iqaluit	17	2,507	12	2,243	23	264
Kamloops	4	3,683	9	2,391	5	1,292
Kenora	41	1,283	40	1,027	24	256
Kingston	9	3,235	21	1,833	3	1,402
Kuujuuaq	38	1,425	34	1,345	37	80
La Grande Rivière	48	764	45	758	49	6
La Ronge	27	1,876	28	1,549	20	327
Lethbridge	12	2,835	27	1,577	6	1,258
Lloydminster	43	1,071	48	679	18	392
Medicine Hat	32	1,559	38	1,077	17	482
Mont-Joli	50	559	49	547	47	12
Montréal/Mirabel International	14	2,793	23	1,710	8	1,083
Nanaimo	10	3,234	5	2,630	15	604
Norman Wells	39	1,405	32	1,391	46	14
North Bay	22	2,148	33	1,385	11	763
Ottawa/Gatineau	1	4,986	16	1,988	1	2,998
Peace River	46	934	46	706	25	228
Penticton	13	2,793	19	1,839	9	954
Port Hardy	30	1,789	22	1,775	45	14
Prince Albert	29	1,815	24	1,662	29	153
Prince Rupert	49	640	50	499	30	141
Rankin Inlet	36	1,457	30	1,457	0	0
Red Deer Regional	5	3,680	11	2,302	4	1,378
Rouyn-Noranda	26	1,881	36	1,241	14	640
Saint John	23	2,129	25	1,637	16	492
Sept-Îles	16	2,680	8	2,486	27	194
Sioux Lookout	19	2,412	10	2,351	38	61
Smithers	35	1,496	31	1,452	40	44
St Catharines	8	3,329	17	1,925	2	1,404
Sudbury	15	2,766	7	2,568	26	198
Terrace	40	1,285	35	1,251	43	34
Thompson	11	3,128	3	3,041	34	87
Timmins	24	2,063	15	2,039	44	24
Val-d'Or	33	1,517	29	1,467	39	50
Victoria Harbour	7	3,401	2	3,391	48	10
Wabush	42	1,134	41	1,026	32	108
Whitecourt	34	1,509	44	855	13	654
Williams Lake	2	4,036	1	3,996	42	40
Total of all flight service stations (51)	.	107,539	.	85,116	.	22,423

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	6,576	2,100	1,127	3,349	276	276	0	0
Boundary Bay	16,995	5,852	1,413	9,730	16	16	0	0
Calgary International	20,665	19,236	1,279	150	64	64	0	0
Calgary/Springbank	10,229	2,592	1,325	6,312	0	0	0	0
Chicoutimi/St-Honoré	5,235	2,088	303	2,844	6	6	0	0
Edmonton City Centre	5,277	3,521	1,121	635	16	16	0	0
Edmonton International	11,345	10,426	534	385	45	45	0	0
Edmonton/Villeneuve	4,347	820	405	3,122	3	3	0	0
Fort McMurray	6,093	4,676	427	990	12	12	0	0
Fredericton International	11,547	5,243	350	5,954	67	67	0	0
Gander International	3,479	1,826	433	1,220	242	242	0	0
Halifax/Robert L Stanfield International	8,194	7,427	381	386	87	87	0	0
Hamilton	3,981	1,997	681	1,303	4	4	0	0
Kelowna	6,834	3,647	1,071	2,116	89	89	0	0
Kitchener/Waterloo	9,213	3,290	1,281	4,642	5	5	0	0
Langley	6,535	2,037	1,323	3,175	2	2	0	0
London	15,983	5,844	1,166	8,973	4	4	0	0
Moncton/Greater Moncton International	12,965	6,483	405	6,077	25	25	0	0
Montréal/Pierre Elliott Trudeau International	19,618	18,134	1,458	26	9	9	0	0
Montréal/St-Hubert	19,790	7,182	1,644	10,964	74	74	0	0
Oshawa ¹	2,920	1,786	914	220	8	8	0	0
Ottawa/Macdonald-Cartier International	15,396	10,647	861	3,888	180	180	0	0
Pitt Meadows	10,426	2,963	1,431	6,032	177	177	0	0
Prince George	3,854	2,619	577	658	3	3	0	0
Québec/Jean Lesage International	11,547	6,463	1,831	3,253	96	96	0	0
Regina International	5,143	3,133	653	1,357	50	50	0	0
Saskatoon/John G Diefenbaker International	8,619	4,500	1,051	3,068	95	95	0	0
Sault Ste. Marie ¹	1,430	1,193	203	34	20	20	0	0
St. John's International	3,885	3,291	370	224	175	175	0	0
St-Jean	4,713	790	3,005	918	2,280	2,280	0	0
Thunder Bay	5,053	3,694	505	854	49	49	0	0
Toronto/Billy Bishop Toronto City	10,584	5,897	836	3,851	13	13	0	0
Toronto/Buttonville Municipal	18,229	3,614	3,046	11,569	2	2	0	0
Toronto/Lester B Pearson International	38,185	36,989	1,110	86	6	6	0	0
Vancouver Harbour	4,764	4,681	83	0	4	4	0	0
Vancouver International	29,384	27,710	1,594	80	22	22	0	0
Victoria International	14,856	7,346	2,070	5,440	127	127	0	0
Whitehorse International	3,637	2,021	520	1,096	42	42	0	0
Windsor	2,819	1,501	560	758	212	184	28	0
Winnipeg/James Armstrong Richardson International	11,432	9,639	728	1,065	243	243	0	0
Winnipeg/St. Andrews	8,621	3,202	375	5,044	8	8	0	0
Yellowknife	4,518	3,930	204	384	38	38	0	0
Total of NAV CANADA towers (42)	424,916	262,030	40,654	122,232	4,896	4,868	28	0

1. Only partial local movement data has been received for the month of August 2010 for Oshawa, Ontario and Sault Ste. Marie, Ontario.

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	1,623	519	422	682	123	117	6	
Campbell River	3,872	1,877	772	1,223	16	16	0	
Castlegar	772	556	108	108	18	18	0	
Charlottetown	2,390	1,647	409	334	51	35	16	
Churchill	984	875	67	42	8	8	0	
Cranbrook	1,426	819	339	268	5	5	0	
Deer Lake	1,757	1,477	132	148	60	16	44	
Fort Nelson	2,212	1,938	188	86	23	23	0	
Fort St John	2,104	1,524	257	323	65	65	0	
Grande Prairie	3,408	2,257	353	798	2	2	0	
High Level	1,019	836	59	124	2	2	0	
Îles-de-la-Madeleine	442	343	99	0	4	4	0	
Inuvik/Mike Zubko	1,913	1,780	53	80	3	3	0	
Iqaluit	2,370	1,986	170	214	137	87	50	
Kamloops	3,674	1,843	539	1,292	9	9	0	
Kenora	1,082	677	283	122	201	67	134	
Kingston	3,215	1,244	569	1,402	20	20	0	
Kuujuaq	1,404	1,223	101	80	21	21	0	
La Grande Rivière	762	680	76	6	2	2	0	
La Ronge	1,870	1,263	280	327	6	6	0	
Lethbridge	2,779	1,020	535	1,224	56	22	34	
Lloydminster	1,069	345	332	392	2	2	0	
Medicine Hat	1,528	734	316	478	31	27	4	
Mont-Joli	547	433	102	12	12	12	0	
Montréal/Mirabel International	2,782	1,317	382	1,083	11	11	0	
Nanaimo	3,212	1,485	1,123	604	22	22	0	
Norman Wells	1,405	1,276	115	14	0	0	0	
North Bay	2,128	886	483	759	20	16	4	
Ottawa/Gatineau	4,965	1,035	932	2,998	21	21	0	
Peace River	932	612	92	228	2	2	0	
Penticton	2,729	1,224	551	954	64	64	0	
Port Hardy	1,753	1,488	253	12	36	34	2	
Prince Albert	1,809	1,377	279	153	6	6	0	
Prince Rupert	640	407	92	141	0	0	0	
Rankin Inlet	1,457	1,432	25	0	0	0	0	
Red Deer Regional	3,646	1,431	837	1,378	34	34	0	
Rouyn-Noranda	1,867	1,009	218	640	14	14	0	
Saint John	2,119	1,188	439	492	10	10	0	
Sept-Îles	2,675	2,155	326	194	5	5	0	
Sioux Lookout	2,408	2,194	153	61	4	4	0	
Smithers	1,496	1,290	162	44	0	0	0	
St Catharines	3,321	1,230	687	1,404	8	8	0	
Sudbury	2,753	1,963	592	198	13	13	0	
Terrace	1,285	1,146	105	34	0	0	0	
Thompson	3,128	2,864	177	87	0	0	0	
Timmins	2,057	1,693	340	24	6	6	0	
Val-d'Or	1,473	1,047	378	48	44	42	2	
Victoria Harbour	3,389	2,688	691	10	12	12	0	
Wabush	1,124	926	90	108	10	10	0	
Whitecourt	1,469	704	111	654	40	40	0	
Williams Lake	4,036	3,817	179	40	0	0	0	
Total of all flight service stations (51)	106,280	67,780	16,373	22,127	1,259	963	296	

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	3,503	469	1,300	331	1,079	48	276
Boundary Bay	7,281	5	1,258	4,589	1,390	23	16
Calgary International	20,579	18,045	801	390	1,167	112	64
Calgary/Springbank	3,917	57	454	2,081	1,317	8	0
Chicoutimi/St-Honoré	2,397	748	109	1,231	293	10	6
Edmonton City Centre	4,658	1,448	628	1,445	858	263	16
Edmonton International	11,005	10,047	254	125	511	23	45
Edmonton/Villeneuve	1,228	8	84	728	404	1	3
Fort McMurray	5,115	1,585	2,890	201	411	16	12
Fredericton International	5,660	939	4,275	29	239	111	67
Gander International	2,501	597	1,196	33	294	139	242
Halifax/Robert L. Stanfield International	7,895	6,798	550	79	342	39	87
Hamilton	2,682	1,821	156	20	349	332	4
Kelowna	4,807	3,031	295	321	957	114	89
Kitchener/Waterloo	4,576	339	2,861	90	1,252	29	5
Langley	3,362	99	213	1,725	1,307	16	2
London	7,014	1,563	1,188	3,093	1,085	81	4
Moncton/Greater Moncton International	6,913	1,794	4,647	42	250	155	25
Montréal/Pierre Elliott Trudeau International	19,601	17,138	940	56	1,273	185	9
Montréal/St-Hubert	8,900	4,575	637	1,970	1,563	81	74
Oshawa	2,708	80	228	1,478	828	86	8
Ottawa/Macdonald-Cartier International	11,688	7,775	390	2,482	468	393	180
Pitt Meadows	4,571	13	1,127	1,823	1,385	46	177
Prince George	3,199	1,524	1,063	32	479	98	3
Québec/Jean Lesage International	8,390	4,064	2,032	367	1,459	372	96
Regina International	3,836	2,376	694	63	528	125	50
Saskatoon/John G. Diefenbaker International	5,646	3,084	848	568	796	255	95
Sault Ste. Marie	1,416	608	109	476	148	55	20
St. John's International	3,836	2,493	777	21	227	143	175
St-Jean	6,075	288	298	204	2,982	23	2,280
Thunder Bay	4,248	3,008	519	167	351	154	49
Toronto/Billy Bishop Toronto City	6,746	3,232	1,457	1,208	816	20	13
Toronto/Buttonville Municipal	6,662	215	3,250	149	3,021	25	2
Toronto/Lester B. Pearson International	38,105	36,455	509	25	1,090	20	6
Vancouver Harbour	4,768	4,059	607	15	76	7	4
Vancouver International	29,326	25,150	2,290	270	1,197	397	22
Victoria International	9,543	3,581	2,909	856	2,021	49	127
Whitehorse International	2,583	1,115	801	105	484	36	42
Windsor	2,245	637	796	68	520	40	184
Winnipeg/James Armstrong Richardson International	10,610	9,293	298	48	476	252	243
Winnipeg/St. Andrews	3,585	679	1,694	829	368	7	8
Yellowknife	4,172	3,399	450	81	98	106	38
Total of NAV CANADA towers (42)	307,552	184,234	47,882	29,914	36,159	4,495	4,868

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	1,058	114	310	95	405	17	117
Campbell River	2,665	741	864	272	734	38	16
Castlegar	682	290	191	75	89	19	18
Charlottetown	2,091	1,009	371	267	386	23	35
Churchill	950	808	61	6	46	21	8
Cranbrook	1,163	707	86	26	328	11	5
Deer Lake	1,625	1,125	274	78	53	79	16
Fort Nelson	2,149	377	1,545	16	184	4	23
Fort St John	1,846	759	693	72	251	6	65
Grande Prairie	2,612	1,264	855	138	325	28	2
High Level	897	259	575	2	51	8	2
Îles-de-la-Madeleine	446	311	26	6	39	60	4
Inuvik/Mike Zubko	1,836	1,407	367	6	8	45	3
Iqaluit	2,243	1,743	217	26	84	86	87
Kamloops	2,391	1,070	687	86	488	51	9
Kenora	1,027	401	262	14	246	37	67
Kingston	1,833	473	397	374	538	31	20
Kuujuuaq	1,345	972	244	7	68	33	21
La Grande Rivière	758	531	141	8	68	8	2
La Ronge	1,549	1,054	209	0	82	198	6
Lethbridge	1,577	378	47	595	521	14	22
Lloydminster	679	122	195	28	325	7	2
Medicine Hat	1,077	415	294	25	289	27	27
Mont-Joli	547	327	81	25	74	28	12
Montréal/Mirabel International	1,710	724	432	161	378	4	11
Nanaimo	2,630	616	785	84	1,074	49	22
Norman Wells	1,391	805	465	6	53	62	0
North Bay	1,385	576	241	69	415	68	16
Ottawa/Gatineau	1,988	239	492	304	821	111	21
Peace River	706	285	321	6	74	18	2
Penticton	1,839	350	791	83	509	42	64
Port Hardy	1,775	1,371	107	10	199	54	34
Prince Albert	1,662	1,306	69	2	157	122	6
Prince Rupert	499	316	89	2	77	15	0
Rankin Inlet	1,457	1,070	358	4	10	15	0
Red Deer Regional	2,302	270	963	198	811	26	34
Rouyn-Noranda	1,241	522	164	323	192	26	14
Saint John	1,637	868	226	94	433	6	10
Sept-Îles	2,486	1,199	890	66	194	132	5
Sioux Lookout	2,351	1,773	416	5	130	23	4
Smithers	1,452	452	835	3	136	26	0
St Catharines	1,925	11	1,154	65	629	58	8
Sudbury	2,568	1,409	492	62	358	234	13
Terrace	1,251	601	541	4	72	33	0
Thompson	3,041	2,563	293	8	33	144	0
Timmins	2,039	1,468	222	3	216	124	6
Val-d'Or	1,467	728	307	12	312	66	42
Victoria Harbour	3,391	2,630	58	0	575	116	12
Wabush	1,026	662	252	12	72	18	10
Whitecourt	855	23	565	116	88	23	40
Williams Lake	3,996	451	3,266	100	171	8	0
Total of all flight service stations (51)	85,116	39,945	23,786	4,049	13,871	2,502	963

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	3,503	682	19.4	2,821	80.5	2,489
Boundary Bay	7,281	282	3.8	6,999	96.1	740
Calgary International	20,579	19,581	95.1	998	4.8	732
Calgary/Springbank	3,917	356	9.0	3,561	90.9	259
Chicoutimi/St-Honoré	2,397	96	4.0	2,301	95.9	289
Edmonton City Centre	4,658	2,016	43.2	2,642	56.7	1,468
Edmonton International	11,005	10,502	95.4	503	4.5	843
Edmonton/Villeneuve	1,228	50	4.0	1,178	95.9	124
Fort McMurray	5,115	1,818	35.5	3,297	64.4	167
Fredericton International	5,660	1,294	22.8	4,366	77.1	311
Gander International	2,501	1,266	50.6	1,235	49.3	393
Halifax/Robert L Stanfield International	7,895	7,282	92.2	613	7.7	418
Hamilton	2,682	2,055	76.6	627	23.3	1,051
Kelowna	4,807	2,740	57.0	2,067	42.9	1,127
Kitchener/Waterloo	4,576	704	15.3	3,872	84.6	772
Langley	3,362	32	0.9	3,330	99.0	728
London	7,014	1,852	26.4	5,162	73.5	750
Moncton/Greater Moncton International	6,913	2,412	34.8	4,501	65.1	733
Montréal/Pierre Elliott Trudeau International	19,601	18,703	95.4	898	4.5	1,645
Montréal/St-Hubert	8,900	1,610	18.0	7,290	81.9	886
Oshawa	2,708	156	5.7	2,552	94.2	692
Ottawa/Macdonald-Cartier International	11,688	8,552	73.1	3,136	26.8	1,561
Pitt Meadows	4,571	45	0.9	4,526	99.0	2,427
Prince George	3,199	1,661	51.9	1,538	48.0	469
Québec/Jean Lesage International	8,390	4,960	59.1	3,430	40.8	1,417
Regina International	3,836	2,683	69.9	1,153	30.0	153
Saskatoon/John G Diefenbaker International	5,646	3,568	63.1	2,078	36.8	315
Sault Ste. Marie	1,416	753	53.1	663	46.8	58
St. John's International	3,836	3,413	88.9	423	11.0	479
St-Jean	6,075	348	5.7	5,727	94.2	1,210
Thunder Bay	4,248	3,409	80.2	839	19.7	237
Toronto/Billy Bishop Toronto City	6,746	3,639	53.9	3,107	46.0	3,642
Toronto/Buttonville Municipal	6,662	732	10.9	5,930	89.0	1,442
Toronto/Lester B Pearson International	38,105	38,067	99.9	38	0.0	2
Vancouver Harbour	4,768	0	0.0	4,768	100.0	2,876
Vancouver International	29,326	22,325	76.1	7,001	23.8	8,321
Victoria International	9,543	3,839	40.2	5,704	59.7	5,062
Whitehorse International	2,583	728	28.1	1,855	71.8	827
Windsor	2,245	813	36.2	1,432	63.7	76
Winnipeg/James Armstrong Richardson International	10,610	9,681	91.2	929	8.7	483
Winnipeg/St. Andrews	3,585	125	3.4	3,460	96.5	185
Yellowknife	4,172	2,153	51.6	2,019	48.3	1,361
Total of NAV CANADA towers (42)	307,552	186,983	60.8	120,569	39.2	49,220

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	1,058	222	20.9	836	79.0	95
Campbell River	2,665	644	24.1	2,021	75.8	712
Castlegar	682	280	41.0	402	58.9	131
Charlottetown	2,091	1,231	58.8	860	41.1	68
Churchill	950	826	86.9	124	13.0	303
Cranbrook	1,163	742	63.8	421	36.1	172
Deer Lake	1,625	1,330	81.8	295	18.1	126
Fort Nelson	2,149	420	19.5	1,729	80.4	312
Fort St John	1,846	769	41.6	1,077	58.3	191
Grande Prairie	2,612	1,402	53.6	1,210	46.3	251
High Level	897	185	20.6	712	79.3	413
Îles-de-la-Madeleine	446	407	91.2	39	8.7	8
Inuvik/Mike Zubko	1,836	466	25.3	1,370	74.6	125
Iqaluit	2,243	1,519	67.7	724	32.2	26
Kamloops	2,391	1,147	47.9	1,244	52.0	330
Kenora	1,027	558	54.3	469	45.6	468
Kingston	1,833	585	31.9	1,248	68.0	252
Kuujuuaq	1,345	516	38.3	829	61.6	399
La Grande Rivière	758	627	82.7	131	17.2	227
La Ronge	1,549	648	41.8	901	58.1	1,134
Lethbridge	1,577	502	31.8	1,075	68.1	38
Lloydminster	679	188	27.6	491	72.3	56
Medicine Hat	1,077	329	30.5	748	69.4	343
Mont-Joli	547	387	70.7	160	29.2	37
Montréal/Mirabel International	1,710	865	50.5	845	49.4	1,246
Nanaimo	2,630	745	28.3	1,885	71.6	1,550
Norman Wells	1,391	250	17.9	1,141	82.0	221
North Bay	1,385	746	53.8	639	46.1	642
Ottawa/Gatineau	1,988	103	5.1	1,885	94.8	462
Peace River	706	272	38.5	434	61.4	87
Penticton	1,839	338	18.3	1,501	81.6	322
Port Hardy	1,775	640	36.0	1,135	63.9	379
Prince Albert	1,662	1,303	78.3	359	21.6	109
Prince Rupert	499	316	63.3	183	36.6	23
Rankin Inlet	1,457	1,012	69.4	445	30.5	152
Red Deer Regional	2,302	341	14.8	1,961	85.1	447
Rouyn-Noranda	1,241	723	58.2	518	41.7	195
Saint John	1,637	1,120	68.4	517	31.5	59
Sept-Îles	2,486	1,579	63.5	907	36.4	375
Sioux Lookout	2,351	1,796	76.3	555	23.6	1,267
Smithers	1,452	433	29.8	1,019	70.1	884
St Catharines	1,925	130	6.7	1,795	93.2	406
Sudbury	2,568	1,686	65.6	882	34.3	192
Terrace	1,251	612	48.9	639	51.0	221
Thompson	3,041	1,841	60.5	1,200	39.4	320
Timmins	2,039	1,627	79.7	412	20.2	186
Val-d'Or	1,467	770	52.4	697	47.5	588
Victoria Harbour	3,391	5	0.1	3,386	99.8	846
Wabush	1,026	906	88.3	120	11.6	793
Whitecourt	855	54	6.3	801	93.6	161
Williams Lake	3,996	485	12.1	3,511	87.8	327
Total of all flight service stations (51)	85,116	36,628	43.0	48,488	57.0	18,677

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	3,503	627	221	2,245	406	4
Boundary Bay	7,281	12	46	7,004	219	0
Calgary International	20,579	14,363	5,047	518	651	0
Calgary/Springbank	3,917	24	151	3,391	350	1
Chicoutimi/St-Honoré	2,397	2	108	1,931	356	0
Edmonton City Centre	4,658	397	1,537	1,932	792	0
Edmonton International	11,005	7,345	3,214	402	44	0
Edmonton/Villeneuve	1,228	13	35	1,098	82	0
Fort McMurray	5,115	1,111	1,275	1,169	1,560	0
Fredericton International	5,660	433	705	4,334	188	0
Gander International	2,501	610	628	1,016	247	0
Halifax/Robert L Stanfield International	7,895	4,414	2,711	456	314	0
Hamilton	2,682	1,363	745	451	123	0
Kelowna	4,807	1,206	1,621	1,606	374	0
Kitchener/Waterloo	4,576	257	260	3,724	329	6
Langley	3,362	2	97	2,847	413	3
London	7,014	778	1,148	4,867	216	5
Moncton/Greater Moncton International	6,913	1,129	797	4,907	80	0
Montréal/Pierre Elliott Trudeau International	19,601	13,341	5,240	629	391	0
Montréal/St-Hubert	8,900	244	819	7,540	297	0
Oshawa	2,708	10	47	2,515	136	0
Ottawa/Macdonald-Cartier International	11,688	6,016	2,532	2,882	258	0
Pitt Meadows	4,571	0	29	4,133	323	86
Prince George	3,199	590	1,518	581	509	1
Québec/Jean Lesage International	8,390	1,627	3,208	2,767	787	1
Regina International	3,836	2,038	485	1,279	24	10
Saskatoon/John G Diefenbaker International	5,646	1,861	1,633	2,121	31	0
Sault Ste. Marie	1,413	22	722	627	42	0
St. John's International	3,836	1,758	1,508	164	406	0
St-Jean	6,075	4	41	3,671	61	2,298
Thunder Bay	4,248	853	2,571	523	301	0
Toronto/Billy Bishop Toronto City	6,746	0	3,613	2,616	517	0
Toronto/Buttonville Municipal	6,662	71	314	6,015	261	1
Toronto/Lester B Pearson International	38,105	31,905	6,159	37	3	1
Vancouver Harbour	4,768	1	2,717	1,399	651	0
Vancouver International	29,326	13,408	11,139	3,698	1,080	1
Victoria International	9,543	1,436	2,457	5,100	549	1
Whitehorse International	2,583	478	566	1,020	519	0
Windsor	2,245	253	632	1,190	159	11
Winnipeg/James Armstrong Richardson International	10,610	5,387	4,336	814	73	0
Winnipeg/St. Andrews	3,585	0	648	2,818	118	1
Yellowknife	4,172	793	2,512	458	409	0
Total of NAV CANADA towers (42)	307,549	116,182	75,792	98,495	14,649	2,431

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	1,058	152	196	659	49	2
Campbell River	2,665	93	954	1,334	284	0
Castlegar	682	25	334	196	127	0
Charlottetown	2,091	730	381	897	82	1
Churchill	950	26	819	52	53	0
Cranbrook	1,163	48	644	410	61	0
Deer Lake	1,625	354	986	230	55	0
Fort Nelson	2,149	73	369	372	1,335	0
Fort St John	1,846	263	621	396	565	1
Grande Prairie	2,612	224	1,134	694	560	0
High Level	897	2	339	258	298	0
Îles-de-la-Madeleine	446	32	357	57	0	0
Inuvik/Mike Zubko	1,836	111	1,070	283	372	0
Iqaluit	2,241	487	1,543	46	165	0
Kamloops	2,391	165	1,259	550	417	0
Kenora	1,027	88	463	298	178	0
Kingston	1,833	28	495	1,203	107	0
Kuujuuaq	1,343	164	905	41	233	0
La Grande Rivière	756	32	633	84	7	0
La Ronge	1,549	2	1,029	469	49	0
Lethbridge	1,577	65	571	898	43	0
Lloydminster	679	12	168	466	33	0
Medicine Hat	1,077	30	407	549	91	0
Mont-Joli	547	34	365	128	20	0
Montréal/Mirabel International	1,710	519	276	565	350	0
Nanaimo	2,630	36	743	1,775	74	2
Norman Wells	1,391	209	370	332	480	0
North Bay	1,385	41	697	441	189	17
Ottawa/Gatineau	1,988	22	86	1,630	244	6
Peace River	706	18	254	127	307	0
Penticton	1,839	43	510	749	536	1
Port Hardy	1,775	65	1,169	387	154	0
Prince Albert	1,662	22	1,345	277	18	0
Prince Rupert	499	59	305	23	112	0
Rankin Inlet	1,457	160	941	14	342	0
Red Deer Regional	2,302	78	313	1,859	52	0
Rouyn-Noranda	1,241	86	656	461	38	0
Saint John	1,637	421	604	579	33	0
Sept-Îles	2,486	37	1,593	401	454	1
Sioux Lookout	2,351	8	1,989	335	19	0
Smithers	1,452	8	729	170	545	0
St Catharines	1,925	34	55	1,332	504	0
Sudbury	2,568	69	1,674	456	369	0
Terrace	1,251	40	611	44	556	0
Thompson	3,041	32	2,447	393	169	0
Timmins	2,039	8	1,769	181	81	0
Val-d'Or	1,467	106	685	412	264	0
Victoria Harbour	3,391	0	2,303	457	631	0
Wabush	1,026	13	877	66	70	0
Whitecourt	855	42	95	127	591	0
Williams Lake	3,996	38	646	229	3,083	0
Total of all flight service stations (51)	85,110	5,454	39,784	24,392	15,449	31

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

	Gross 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	2,228	358	158	90	72	95	455	36	5	6
Boundary Bay	6,676	552	43	6	1	3	0	0	0	0
Calgary International	710	520	1,273	1,763	1,018	4,768	8,472	1,044	243	768
Calgary/Springbank	3,426	326	76	85	2	2	0	0	0	0
Chicoutimi/St-Honoré	2,130	164	95	2	0	0	0	6	0	0
Edmonton City Centre	2,239	526	1,373	404	80	36	0	0	0	0
Edmonton International	309	231	493	814	501	2,628	5,107	635	158	129
Edmonton/Villeneuve	1,133	55	35	5	0	0	0	0	0	0
Fort McMurray	2,396	752	428	301	69	722	447	0	0	0
Fredericton International	4,344	146	201	293	199	456	8	6	0	7
Gander International	984	82	51	491	269	374	74	92	8	76
Halifax/Robert L. Stanfield International	259	309	394	851	1,073	1,910	2,269	492	155	183
Hamilton	382	461	221	320	226	20	485	2	473	92
Kelowna	1,752	176	294	546	135	921	971	3	9	0
Kitchener/Waterloo	3,914	161	255	69	37	44	96	0	0	0
Langley	3,202	148	8	0	2	0	0	0	2	0
London	4,901	314	335	50	601	488	323	2	0	0
Moncton/Greater Moncton International	4,843	129	282	324	136	484	447	0	266	2
Montréal/Pierre Elliott Trudeau International	765	182	576	861	2,673	6,043	5,070	1,383	14	2,034
Montréal/St-Hubert	6,911	853	669	292	137	19	0	0	19	0
Oshawa	2,530	115	48	9	0	2	0	4	0	0
Ottawa/Macdonald-Cartier International	2,880	161	904	222	399	3,581	2,850	376	54	261
Pitt Meadows	4,307	218	30	4	10	2	0	0	0	0
Prince George	829	249	378	757	35	646	305	0	0	0
Québec/Jean Lesage International	3,114	428	801	474	1,429	1,561	503	8	2	70
Regina International	1,130	190	298	214	44	1,154	719	3	84	0
Saskatoon/John G. Diefenbaker International	1,822	398	661	536	195	1,312	690	11	21	0
Sault Ste. Marie	619	106	357	47	266	19	0	2	0	0
St. John's International	146	34	269	577	813	366	1,228	305	78	20
St-Jean	5,772	255	42	2	2	0	2	0	0	0
Thunder Bay	498	290	2,038	303	41	525	553	0	0	0
Toronto/Billy Bishop Toronto City	2,708	368	636	38	14	2,982	0	0	0	0
Toronto/Buttonville Municipal	5,930	450	196	61	14	11	0	0	0	0
Toronto/Lester B. Pearson International	31	132	326	2,199	4,307	7,318	14,530	4,917	474	3,871
Vancouver Harbour	216	3,505	1,042	1	4	0	0	0	0	0
Vancouver International	1,436	4,899	1,019	3,107	2,275	5,232	7,206	1,633	352	2,167
Victoria International	4,563	1,172	296	530	1,056	1,080	732	82	32	0
Whitehorse International	1,367	283	271	71	37	229	302	2	0	21
Windsor	1,205	293	88	89	336	141	68	15	8	2
Winnipeg/James Armstrong Richardson International	504	435	2,891	370	884	1,773	2,707	390	599	57
Winnipeg/St. Andrews	2,592	852	139	2	0	0	0	0	0	0
Yellowknife	506	598	954	243	260	935	541	133	0	2
Total of NAV CANADA towers (42)	98,209	21,876	20,944	17,423	19,652	47,882	57,160	11,582	3,056	9,768

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

	Gross 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	612	65	201	41	26	101	2	10	0	0
Campbell River	1,477	144	125	700	195	18	6	0	0	0
Castlegar	198	111	49	62	88	152	22	0	0	0
Charlottetown	855	186	67	23	264	543	148	5	0	0
Churchill	91	16	124	159	113	435	4	6	0	2
Cranbrook	354	100	99	368	103	129	8	2	0	0
Deer Lake	150	87	49	348	608	181	198	4	0	0
Fort Nelson	1,346	199	278	172	107	31	16	0	0	0
Fort St John	900	36	214	290	151	248	7	0	0	0
Grande Prairie	954	280	372	269	36	526	175	0	0	0
High Level	487	172	120	117	0	1	0	0	0	0
Îles-de-la-Madeleine	32	27	42	97	144	102	0	2	0	0
Inuvik/Mike Zubko	525	94	925	6	122	36	111	17	0	0
Iqaluit	114	58	797	187	227	419	327	48	0	66
Kamloops	666	142	314	345	127	677	120	0	0	0
Kenora	305	64	554	35	44	13	0	12	0	0
Kingston	1,149	127	131	318	96	6	2	4	0	0
Kuujuuaq	238	34	732	12	124	69	104	8	2	22
La Grande Rivière	57	34	140	6	113	380	28	0	0	0
La Ronge	183	259	590	66	223	228	0	0	0	0
Lethbridge	790	160	284	272	52	14	5	0	0	0
Lloydminster	463	45	65	103	2	0	0	0	0	1
Medicine Hat	558	80	147	276	8	8	0	0	0	0
Mont-Joli	118	22	135	153	89	26	0	4	0	0
Montréal/Mirabel International	824	126	34	107	22	142	30	7	291	127
Nanaimo	1,321	588	100	152	24	445	0	0	0	0
Norman Wells	607	196	338	4	2	35	206	3	0	0
North Bay	569	234	292	71	163	52	0	4	0	0
Ottawa/Gatineau	1,519	329	81	31	10	14	0	4	0	0
Peace River	222	91	365	20	8	0	0	0	0	0
Penticton	1,007	151	208	131	57	208	77	0	0	0
Port Hardy	165	348	692	160	390	20	0	0	0	0
Prince Albert	164	71	297	294	367	467	2	0	0	0
Prince Rupert	41	137	45	44	88	144	0	0	0	0
Rankin Inlet	302	56	306	198	214	226	149	6	0	0
Red Deer Regional	1,788	138	179	104	45	13	35	0	0	0
Rouyn-Noranda	465	24	323	8	209	156	56	0	0	0
Saint John	451	155	191	244	127	403	66	0	0	0
Sept-Îles	591	267	597	458	512	59	0	2	0	0
Sioux Lookout	111	289	1,184	757	0	10	0	0	0	0
Smithers	526	94	280	218	63	172	99	0	0	0
St Catharines	1,751	89	51	12	16	6	0	0	0	0
Sudbury	362	412	1,133	118	396	127	15	5	0	0
Terrace	441	106	173	182	129	216	4	0	0	0
Thompson	190	413	1,515	32	187	676	0	28	0	0
Timmins	162	251	931	79	484	126	0	6	0	0
Val-d'Or	546	115	280	30	263	172	16	0	2	43
Victoria Harbour	72	2,298	1,009	1	11	0	0	0	0	0
Wabush	67	61	274	274	336	12	2	0	0	0
Whitecourt	675	72	60	42	2	4	0	0	0	0
Williams Lake	2,231	214	863	421	89	31	147	0	0	0
Total of all flight service stations (51)	29,792	9,867	18,355	8,617	7,276	8,279	2,187	187	295	261

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	3,366	468	1,294	329	983	48	244
Transborder	137	1	6	2	96	0	32
Other international	0	0	0	0	0	0	0
Total	3,503	469	1,300	331	1,079	48	276
Boundary Bay							
Domestic	7,157	5	1,241	4,560	1,319	23	9
Transborder	124	0	17	29	71	0	7
Other international	0	0	0	0	0	0	0
Total	7,281	5	1,258	4,589	1,390	23	16
Calgary International							
Domestic	16,500	14,327	763	388	849	112	61
Transborder	3,425	3,076	36	2	309	0	2
Other international	654	642	2	0	9	0	1
Total	20,579	18,045	801	390	1,167	112	64
Calgary/Springbank							
Domestic	3,817	50	451	2,077	1,231	8	0
Transborder	98	7	3	3	85	0	0
Other international	2	0	0	1	1	0	0
Total	3,917	57	454	2,081	1,317	8	0
Chicoutimi/St-Honoré							
Domestic	2,397	748	109	1,231	293	10	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,397	748	109	1,231	293	10	6
Edmonton City Centre							
Domestic	4,633	1,445	628	1,441	840	263	16
Transborder	23	3	0	4	16	0	0
Other international	2	0	0	0	2	0	0
Total	4,658	1,448	628	1,445	858	263	16
Edmonton International							
Domestic	9,597	8,707	251	122	451	23	43
Transborder	1,295	1,227	3	3	60	0	2
Other international	113	113	0	0	0	0	0
Total	11,005	10,047	254	125	511	23	45
Edmonton/Villeneuve							
Domestic	1,226	8	84	728	404	1	1
Transborder	0	0	0	0	0	0	0
Other international	2	0	0	0	0	0	2
Total	1,228	8	84	728	404	1	3
Fort McMurray							
Domestic	5,102	1,584	2,883	199	408	16	12
Transborder	6	1	0	2	3	0	0
Other international	7	0	7	0	0	0	0
Total	5,115	1,585	2,890	201	411	16	12
Fredericton International							
Domestic	5,605	930	4,273	29	195	111	67
Transborder	55	9	2	0	44	0	0
Other international	0	0	0	0	0	0	0
Total	5,660	939	4,275	29	239	111	67
Gander International							
Domestic	2,018	469	1,195	17	84	139	114
Transborder	230	57	0	6	104	0	63
Other international	253	71	1	10	106	0	65
Total	2,501	597	1,196	33	294	139	242

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	6,511	5,573	538	78	218	38	66
Transborder	1,181	1,053	7	1	106	1	13
Other international	203	172	5	0	18	0	8
Total	7,895	6,798	550	79	342	39	87
Hamilton							
Domestic	2,140	1,409	131	19	249	328	4
Transborder	522	398	23	0	97	4	0
Other international	20	14	2	1	3	0	0
Total	2,682	1,821	156	20	349	332	4
Kelowna							
Domestic	4,555	2,868	287	320	878	114	88
Transborder	250	161	8	1	79	0	1
Other international	2	2	0	0	0	0	0
Total	4,807	3,031	295	321	957	114	89
Kitchener/Waterloo							
Domestic	4,339	289	2,827	89	1,101	28	5
Transborder	235	50	33	1	151	0	0
Other international	2	0	1	0	0	1	0
Total	4,576	339	2,861	90	1,252	29	5
Langley							
Domestic	3,334	99	212	1,725	1,280	16	2
Transborder	27	0	1	0	26	0	0
Other international	1	0	0	0	1	0	0
Total	3,362	99	213	1,725	1,307	16	2
London							
Domestic	6,541	1,192	1,183	3,092	989	81	4
Transborder	469	370	5	1	93	0	0
Other international	4	1	0	0	3	0	0
Total	7,014	1,563	1,188	3,093	1,085	81	4
Moncton/Greater Moncton International							
Domestic	6,821	1,727	4,647	42	226	155	24
Transborder	91	66	0	0	24	0	1
Other international	1	1	0	0	0	0	0
Total	6,913	1,794	4,647	42	250	155	25
Montréal/Pierre Elliott Trudeau International							
Domestic	10,744	9,057	810	31	655	183	8
Transborder	6,337	5,710	104	13	509	1	0
Other international	2,520	2,371	26	12	109	1	1
Total	19,601	17,138	940	56	1,273	185	9
Montréal/St-Hubert							
Domestic	8,691	4,543	634	1,967	1,393	80	74
Transborder	205	32	2	3	167	1	0
Other international	4	0	1	0	3	0	0
Total	8,900	4,575	637	1,970	1,563	81	74
Oshawa							
Domestic	2,655	74	227	1,476	784	86	8
Transborder	33	6	0	0	27	0	0
Other international	20	0	1	2	17	0	0
Total	2,708	80	228	1,478	828	86	8
Ottawa/Macdonald-Cartier International							
Domestic	9,509	5,741	373	2,482	372	381	160
Transborder	2,022	1,899	13	0	91	12	7
Other international	157	135	4	0	5	0	13
Total	11,688	7,775	390	2,482	468	393	180

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	4,541	13	1,127	1,823	1,355	46	177
Transborder	30	0	0	0	30	0	0
Other international	0	0	0	0	0	0	0
Total	4,571	13	1,127	1,823	1,385	46	177
Prince George							
Domestic	3,178	1,522	1,061	32	462	98	3
Transborder	19	2	0	0	17	0	0
Other international	2	0	2	0	0	0	0
Total	3,199	1,524	1,063	32	479	98	3
Québec/Jean Lesage International							
Domestic	7,524	3,346	2,014	367	1,337	370	90
Transborder	781	649	12	0	117	2	1
Other international	85	69	6	0	5	0	5
Total	8,390	4,064	2,032	367	1,459	372	96
Regina International							
Domestic	3,327	1,949	691	63	449	125	50
Transborder	509	427	3	0	79	0	0
Other international	0	0	0	0	0	0	0
Total	3,836	2,376	694	63	528	125	50
Saskatoon/John G Diefenbaker International							
Domestic	5,269	2,756	845	568	750	255	95
Transborder	377	328	3	0	46	0	0
Other international	0	0	0	0	0	0	0
Total	5,646	3,084	848	568	796	255	95
Sault Ste. Marie							
Domestic	1,381	606	107	476	119	53	20
Transborder	30	2	2	0	26	0	0
Other international	5	0	0	0	3	2	0
Total	1,416	608	109	476	148	55	20
St. John's International							
Domestic	3,407	2,309	748	11	147	141	51
Transborder	181	75	1	1	44	0	60
Other international	248	109	28	9	36	2	64
Total	3,836	2,493	777	21	227	143	175
St-Jean							
Domestic	6,073	288	298	204	2,980	23	2,280
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	6,075	288	298	204	2,982	23	2,280
Thunder Bay							
Domestic	4,068	2,902	517	167	279	154	49
Transborder	180	106	2	0	72	0	0
Other international	0	0	0	0	0	0	0
Total	4,248	3,008	519	167	351	154	49
Toronto/Billy Bishop Toronto City							
Domestic	5,484	2,156	1,436	1,207	652	20	13
Transborder	1,261	1,076	21	1	163	0	0
Other international	1	0	0	0	1	0	0
Total	6,746	3,232	1,457	1,208	816	20	13
Toronto/Buttonville Municipal							
Domestic	6,425	184	3,224	147	2,843	25	2
Transborder	234	31	26	2	175	0	0
Other international	3	0	0	0	3	0	0
Total	6,662	215	3,250	149	3,021	25	2

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	16,749	16,080	319	18	308	20	4
Transborder	16,203	15,277	163	7	754	0	2
Other international	5,153	5,098	27	0	28	0	0
Total	38,105	36,455	509	25	1,090	20	6
Vancouver Harbour							
Domestic	4,751	4,055	607	15	63	7	4
Transborder	15	2	0	0	13	0	0
Other international	2	2	0	0	0	0	0
Total	4,768	4,059	607	15	76	7	4
Vancouver International							
Domestic	22,353	18,653	2,264	254	772	395	15
Transborder	5,389	4,930	24	10	417	1	7
Other international	1,584	1,567	2	6	8	1	0
Total	29,326	25,150	2,290	270	1,197	397	22
Victoria International							
Domestic	8,712	3,128	2,898	855	1,660	49	122
Transborder	829	453	11	1	359	0	5
Other international	2	0	0	0	2	0	0
Total	9,543	3,581	2,909	856	2,021	49	127
Whitehorse International							
Domestic	2,443	1,086	798	105	398	36	20
Transborder	129	18	3	0	86	0	22
Other international	11	11	0	0	0	0	0
Total	2,583	1,115	801	105	484	36	42
Windsor							
Domestic	2,092	595	780	68	473	39	137
Transborder	151	40	16	0	47	1	47
Other international	2	2	0	0	0	0	0
Total	2,245	637	796	68	520	40	184
Winnipeg/James Armstrong Richardson International							
Domestic	9,387	8,233	285	45	342	251	231
Transborder	1,205	1,046	13	3	131	1	11
Other international	18	14	0	0	3	0	1
Total	10,610	9,293	298	48	476	252	243
Winnipeg/St. Andrews							
Domestic	3,574	679	1,692	829	359	7	8
Transborder	11	0	2	0	9	0	0
Other international	0	0	0	0	0	0	0
Total	3,585	679	1,694	829	368	7	8
Yellowknife							
Domestic	4,155	3,392	448	81	92	106	36
Transborder	10	3	0	0	5	0	2
Other international	7	4	2	0	1	0	0
Total	4,172	3,399	450	81	98	106	38
Total of NAV CANADA towers (42)							
Domestic	252,151	135,245	47,200	29,777	31,042	4,464	4,423
Transborder	44,311	38,591	565	96	4,750	24	285
Other international	11,090	10,398	117	41	367	7	160
Total	307,552	184,234	47,882	29,914	36,159	4,495	4,868

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	1,028	111	310	95	381	17	114
Transborder	30	3	0	0	24	0	3
Other international	0	0	0	0	0	0	0
Total	1,058	114	310	95	405	17	117
Campbell River							
Domestic	2,487	732	861	272	568	38	16
Transborder	178	9	3	0	166	0	0
Other international	0	0	0	0	0	0	0
Total	2,665	741	864	272	734	38	16
Castlegar							
Domestic	654	286	191	75	65	19	18
Transborder	28	4	0	0	24	0	0
Other international	0	0	0	0	0	0	0
Total	682	290	191	75	89	19	18
Charlottetown							
Domestic	1,981	968	371	267	317	23	35
Transborder	106	40	0	0	66	0	0
Other international	4	1	0	0	3	0	0
Total	2,091	1,009	371	267	386	23	35
Churchill							
Domestic	948	806	61	6	46	21	8
Transborder	2	2	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	950	808	61	6	46	21	8
Cranbrook							
Domestic	1,113	701	82	25	289	11	5
Transborder	49	5	4	1	39	0	0
Other international	1	1	0	0	0	0	0
Total	1,163	707	86	26	328	11	5
Deer Lake							
Domestic	1,615	1,122	273	78	48	79	15
Transborder	10	3	1	0	5	0	1
Other international	0	0	0	0	0	0	0
Total	1,625	1,125	274	78	53	79	16
Fort Nelson							
Domestic	2,144	377	1,545	16	179	4	23
Transborder	5	0	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	2,149	377	1,545	16	184	4	23
Fort St John							
Domestic	1,846	759	693	72	251	6	65
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,846	759	693	72	251	6	65
Grande Prairie							
Domestic	2,610	1,264	855	138	323	28	2
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,612	1,264	855	138	325	28	2
High Level							
Domestic	897	259	575	2	51	8	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	897	259	575	2	51	8	2

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
	number						
Îles-de-la-Madeleine							
Domestic	438	311	26	6	31	60	4
Transborder	8	0	0	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	446	311	26	6	39	60	4
Inuvik/Mike Zubko							
Domestic	1,831	1,402	367	6	8	45	3
Transborder	5	5	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,836	1,407	367	6	8	45	3
Iqaluit							
Domestic	2,129	1,678	207	21	55	86	82
Transborder	53	38	8	0	6	0	1
Other international	61	27	2	5	23	0	4
Total	2,243	1,743	217	26	84	86	87
Kamloops							
Domestic	2,357	1,064	685	86	462	51	9
Transborder	33	6	1	0	26	0	0
Other international	1	0	1	0	0	0	0
Total	2,391	1,070	687	86	488	51	9
Kenora							
Domestic	923	384	261	14	161	37	66
Transborder	104	17	1	0	85	0	1
Other international	0	0	0	0	0	0	0
Total	1,027	401	262	14	246	37	67
Kingston							
Domestic	1,798	467	397	374	509	31	20
Transborder	34	6	0	0	28	0	0
Other international	1	0	0	0	1	0	0
Total	1,833	473	397	374	538	31	20
Kuujuuaq							
Domestic	1,342	972	243	7	66	33	21
Transborder	0	0	0	0	0	0	0
Other international	3	0	1	0	2	0	0
Total	1,345	972	244	7	68	33	21
La Grande Rivière							
Domestic	758	531	141	8	68	8	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	758	531	141	8	68	8	2
La Ronge							
Domestic	1,547	1,054	209	0	80	198	6
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,549	1,054	209	0	82	198	6
Lethbridge							
Domestic	1,471	375	47	591	424	14	20
Transborder	106	3	0	4	97	0	2
Other international	0	0	0	0	0	0	0
Total	1,577	378	47	595	521	14	22
Lloydminster							
Domestic	679	122	195	28	325	7	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	679	122	195	28	325	7	2

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements		
		Level I-III and Foreign	Level IV-VI			Civil	Military	
number								
Medicine Hat								
Domestic	1,074	413	294	25	288	27	27	
Transborder	3	2	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,077	415	294	25	289	27	27	
Mont-Joli								
Domestic	545	326	81	25	73	28	12	
Transborder	2	1	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	547	327	81	25	74	28	12	
Montréal/Mirabel International								
Domestic	1,523	564	432	160	355	4	8	
Transborder	187	160	0	1	23	0	3	
Other international	0	0	0	0	0	0	0	
Total	1,710	724	432	161	378	4	11	
Nanaimo								
Domestic	2,482	612	785	83	934	49	19	
Transborder	144	4	0	1	136	0	3	
Other international	4	0	0	0	4	0	0	
Total	2,630	616	785	84	1,074	49	22	
Norman Wells								
Domestic	1,390	805	465	6	52	62	0	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,391	805	465	6	53	62	0	
North Bay								
Domestic	1,336	571	241	69	372	67	16	
Transborder	49	5	0	0	43	1	0	
Other international	0	0	0	0	0	0	0	
Total	1,385	576	241	69	415	68	16	
Ottawa/Gatineau								
Domestic	1,985	239	490	304	820	111	21	
Transborder	3	0	2	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,988	239	492	304	821	111	21	
Peace River								
Domestic	703	285	321	6	71	18	2	
Transborder	3	0	0	0	3	0	0	
Other international	0	0	0	0	0	0	0	
Total	706	285	321	6	74	18	2	
Penticton								
Domestic	1,799	350	790	83	471	42	63	
Transborder	40	0	1	0	38	0	1	
Other international	0	0	0	0	0	0	0	
Total	1,839	350	791	83	509	42	64	
Port Hardy								
Domestic	1,691	1,367	107	10	124	54	29	
Transborder	84	4	0	0	75	0	5	
Other international	0	0	0	0	0	0	0	
Total	1,775	1,371	107	10	199	54	34	
Prince Albert								
Domestic	1,659	1,306	69	2	154	122	6	
Transborder	3	0	0	0	3	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,662	1,306	69	2	157	122	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							
Prince Rupert							
Domestic	478	312	89	1	61	15	0
Transborder	21	4	0	1	16	0	0
Other international	0	0	0	0	0	0	0
Total	499	316	89	2	77	15	0
Rankin Inlet							
Domestic	1,456	1,070	358	4	9	15	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,457	1,070	358	4	10	15	0
Red Deer Regional							
Domestic	2,290	270	962	198	800	26	34
Transborder	12	0	1	0	11	0	0
Other international	0	0	0	0	0	0	0
Total	2,302	270	963	198	811	26	34
Rouyn-Noranda							
Domestic	1,241	522	164	323	192	26	14
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,241	522	164	323	192	26	14
Saint John							
Domestic	1,543	857	226	94	350	6	10
Transborder	87	11	0	0	76	0	0
Other international	7	0	0	0	7	0	0
Total	1,637	868	226	94	433	6	10
Sept-Îles							
Domestic	2,481	1,198	890	66	191	132	4
Transborder	5	1	0	0	3	0	1
Other international	0	0	0	0	0	0	0
Total	2,486	1,199	890	66	194	132	5
Sioux Lookout							
Domestic	2,316	1,772	415	5	97	23	4
Transborder	35	1	1	0	33	0	0
Other international	0	0	0	0	0	0	0
Total	2,351	1,773	416	5	130	23	4
Smithers							
Domestic	1,444	452	835	3	128	26	0
Transborder	8	0	0	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	1,452	452	835	3	136	26	0
St Catharines							
Domestic	1,840	9	1,140	64	561	58	8
Transborder	84	2	14	1	67	0	0
Other international	1	0	0	0	1	0	0
Total	1,925	11	1,154	65	629	58	8
Sudbury							
Domestic	2,528	1,400	489	62	330	234	13
Transborder	40	9	3	0	28	0	0
Other international	0	0	0	0	0	0	0
Total	2,568	1,409	492	62	358	234	13
Terrace							
Domestic	1,243	601	541	4	64	33	0
Transborder	8	0	0	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	1,251	601	541	4	72	33	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	3,035	2,560	293	8	30	144	0
Transborder	6	3	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	3,041	2,563	293	8	33	144	0
Timmins							
Domestic	2,036	1,468	222	3	213	124	6
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	2,039	1,468	222	3	216	124	6
Val-d'Or							
Domestic	1,464	728	307	12	309	66	42
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,467	728	307	12	312	66	42
Victoria Harbour							
Domestic	2,886	2,630	58	0	70	116	12
Transborder	505	0	0	0	505	0	0
Other international	0	0	0	0	0	0	0
Total	3,391	2,630	58	0	575	116	12
Wabush							
Domestic	1,026	662	252	12	72	18	10
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,026	662	252	12	72	18	10
Whitecourt							
Domestic	855	23	565	116	88	23	40
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	855	23	565	116	88	23	40
Williams Lake							
Domestic	3,989	451	3,266	100	164	8	0
Transborder	7	0	0	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	3,996	451	3,266	100	171	8	0
Total of all flight service stations (51)							
Domestic	82,934	39,568	23,742	4,035	12,150	2,501	938
Transborder	2,099	348	40	9	1,680	1	21
Other international	83	29	4	5	41	0	4
Total	85,116	39,945	23,786	4,049	13,871	2,502	963

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	25	6,852	15	16	181	15	467
Boundary Bay	7	17,011	18	17	110	12	921
Calgary International	3	20,729	4	18	61	24	783
Calgary/Springbank	18	10,229	9	13	94	4	560
Chicoutimi/St-Honoré	29	5,241	4	9	77	30	596
Edmonton City Centre	28	5,293	31	11	40	24	292
Edmonton International	15	11,390	26	16	57	26	489
Edmonton/Villeneuve	34	4,350	2	9	66	24	282
Fort McMurray	27	6,105	29	15	44	18	268
Fredericton International	14	11,614	12	13	58	12	609
Gander International	38	3,721	12	22	78	12	239
Halifax/Robert L. Stanfield International	22	8,281	23	18	30	23	320
Hamilton	36	3,985	1	10	34	25	193
Kelowna	24	6,923	4	7	55	25	329
Kitchener/Waterloo	19	9,218	18	15	73	26	508
Langley	26	6,537	4	11	64	11	350
London	8	15,987	3	15	129	3	856
Moncton/Greater Moncton International	11	12,990	13	10	65	13	643
Montréal/Pierre Elliott Trudeau International	5	19,627	26	18	66	24	718
Montréal/St-Hubert	4	19,864	9	21	165	13	1,320
Oshawa	41	2,928	21	11	25	20	157
Ottawa/Macdonald-Cartier International	9	15,576	12	9	87	12	770
Pitt Meadows	16	10,603	20	11	85	28	660
Prince George	37	3,857	14	12	41	3	240
Québec/Jean Lesage International	13	11,643	10	9	65	11	572
Regina International	30	5,193	11	17	40	4	252
Saskatoon/John G. Diefenbaker International	20	8,714	28	21	60	24	417
Sault Ste. Marie	42	1,450	10	20	20	27	122
St. John's International	35	4,060	13	17	26	25	180
St-Jean	23	6,993	14	19	154	11	794
Thunder Bay	31	5,102	14	22	52	19	234
Toronto/Billy Bishop Toronto City	17	10,597	24	18	100	24	604
Toronto/Buttonville Municipal	6	18,231	14	11	120	18	1,074
Toronto/Lester B. Pearson International	1	38,191	6	18	104	26	1,335
Vancouver Harbour	32	4,768	5	8	25	18	209
Vancouver International	2	29,406	2	13	85	13	1,056
Victoria International	10	14,983	11	14	88	11	783
Whitehorse International	39	3,679	19	10	38	5	195
Windsor	40	3,031	22	10	58	22	258
Winnipeg/James Armstrong Richardson International	12	11,675	5	14	51	18	507
Winnipeg/St. Andrews	21	8,629	12	18	70	17	493
Yellowknife	33	4,556	25	10	33	25	199

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	31	1,746	28	11	37	25	166
Campbell River	3	3,888	6	10	47	6	252
Castlegar	47	790	28	9	26	28	45
Charlottetown	18	2,441	28	21	24	29	118
Churchill	45	992	7	6	13	3	62
Cranbrook	37	1,431	6	13	23	6	85
Deer Lake	28	1,817	2	20	32	25	173
Fort Nelson	20	2,235	6	5	33	4	172
Fort St John	21	2,169	8	13	24	10	115
Grande Prairie	6	3,410	3	9	31	21	179
High Level	44	1,021	12	19	22	17	65
Îles-de-la-Madeleine	51	446	19	13	5	18	21
Inuvik/Mike Zubko	25	1,916	12	19	15	18	93
Iqaluit	17	2,507	30	21	42	19	129
Kamloops	4	3,683	6	11	58	6	254
Kenora	41	1,283	27	10	33	26	126
Kingston	9	3,235	27	15	38	7	183
Kuujuuaq	38	1,425	26	16	23	6	87
La Grande Rivière	48	764	24	13	8	3	38
La Ronge	27	1,876	15	21	22	16	105
Lethbridge	12	2,835	23	18	44	16	186
Lloydminster	43	1,071	2	16	22	9	81
Medicine Hat	32	1,559	24	18	47	28	122
Mont-Joli	50	559	18	8	8	3	32
Montréal/Mirabel International	14	2,793	2	17	86	17	202
Nanaimo	10	3,234	23	14	78	23	227
Norman Wells	39	1,405	16	14	12	16	66
North Bay	22	2,148	5	9	40	29	178
Ottawa/Gatineau	1	4,986	7	10	64	11	345
Peace River	46	934	18	15	34	18	126
Penticton	13	2,793	17	9	38	17	144
Port Hardy	30	1,789	18	18	16	12	102
Prince Albert	29	1,815	28	13	21	16	93
Prince Rupert	49	640	15	14	23	3	55
Rankin Inlet	36	1,457	16	13	13	9	66
Red Deer Regional	5	3,680	18	15	55	24	251
Rouyn-Noranda	26	1,881	10	9	43	10	144
Saint John	23	2,129	14	10	25	14	138
Sept-Îles	16	2,680	8	11	33	2	142
Sioux Lookout	19	2,412	12	17	16	25	115
Smithers	35	1,496	18	19	17	18	94
St Catharines	8	3,329	10	17	50	2	202
Sudbury	15	2,766	11	13	35	6	160
Terrace	40	1,285	17	11	18	17	72
Thompson	11	3,128	21	14	23	25	162
Timmins	24	2,063	28	12	20	11	103
Val-d'Or	33	1,517	28	11	36	28	138
Victoria Harbour	7	3,401	20	15	23	12	159
Wabush	42	1,134	16	11	33	12	96
Whitecourt	34	1,509	3	14	75	3	166
Williams Lake	2	4,036	3	9	49	3	352

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	32	3,503	15	17	36	15	191
Boundary Bay	12	7,281	12	17	48	25	425
Calgary International	3	20,579	4	18	61	24	771
Calgary/Springbank	28	3,917	7	9	30	24	222
Chicoutimi/St-Honoré	39	2,397	13	10	19	30	142
Edmonton City Centre	23	4,658	25	17	26	24	251
Edmonton International	6	11,005	24	16	35	25	434
Edmonton/Villeneuve	42	1,228	31	11	14	24	90
Fort McMurray	20	5,115	10	16	25	11	224
Fredericton International	18	5,660	28	16	42	28	352
Gander International	38	2,501	2	18	15	2	123
Halifax/Robert L. Stanfield International	11	7,895	11	15	23	13	290
Hamilton	36	2,682	1	10	14	27	134
Kelowna	21	4,807	7	11	26	23	215
Kitchener/Waterloo	24	4,576	6	10	28	6	247
Langley	33	3,362	28	14	27	28	196
London	13	7,014	2	16	33	20	336
Moncton/Greater Moncton International	14	6,913	12	19	27	13	342
Montréal/Pierre Elliott Trudeau International	4	19,601	26	18	66	24	714
Montréal/St-Hubert	9	8,900	7	10	53	18	561
Oshawa	35	2,708	21	11	23	6	145
Ottawa/Macdonald-Cartier International	5	11,688	11	10	48	11	496
Pitt Meadows	25	4,571	28	13	43	28	350
Prince George	34	3,199	16	9	24	3	174
Québec/Jean Lesage International	10	8,390	13	9	35	11	390
Regina International	29	3,836	26	13	20	4	171
Saskatoon/John G. Diefenbaker International	19	5,646	25	14	26	26	253
Sault Ste. Marie	41	1,416	31	10	16	27	114
St. John's International	30	3,836	13	17	16	25	166
St-Jean	17	6,075	14	19	154	11	704
Thunder Bay	26	4,248	6	16	19	19	188
Toronto/Billy Bishop Toronto City	15	6,746	20	15	35	18	300
Toronto/Buttonville Municipal	16	6,662	27	13	46	18	417
Toronto/Lester B. Pearson International	1	38,105	6	18	104	26	1,335
Vancouver Harbour	22	4,768	5	8	25	18	209
Vancouver International	2	29,326	2	13	85	20	1,048
Victoria International	8	9,543	11	10	48	11	449
Whitehorse International	37	2,583	5	10	23	5	143
Windsor	40	2,245	22	16	38	22	220
Winnipeg/James Armstrong Richardson International	7	10,610	3	14	34	26	436
Winnipeg/St. Andrews	31	3,585	9	11	26	25	218
Yellowknife	27	4,172	10	8	21	12	172

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	39	1,058	25	16	20	25	128
Campbell River	4	2,665	6	17	21	2	126
Castlegar	47	682	13	16	7	26	40
Charlottetown	14	2,091	7	11	12	13	96
Churchill	42	950	3	9	8	3	52
Cranbrook	37	1,163	17	8	10	3	58
Deer Lake	26	1,625	25	18	12	25	83
Fort Nelson	13	2,149	10	9	19	3	142
Fort St John	18	1,846	25	9	16	25	93
Grande Prairie	6	2,612	19	8	17	25	123
High Level	43	897	18	17	10	25	56
Îles-de-la-Madeleine	51	446	19	13	5	18	21
Inuvik/Mike Zubko	20	1,836	26	18	14	26	90
Iqaluit	12	2,243	2	14	14	2	108
Kamloops	9	2,391	6	10	23	6	140
Kenora	40	1,027	6	12	11	25	53
Kingston	21	1,833	12	14	18	12	102
Kuujuuaq	34	1,345	6	18	9	6	77
La Grande Rivière	45	758	24	13	8	3	38
La Ronge	28	1,549	16	11	12	3	88
Lethbridge	27	1,577	12	9	12	9	80
Lloydminster	48	679	5	10	7	9	41
Medicine Hat	38	1,077	28	12	27	28	98
Mont-Joli	49	547	18	8	8	3	32
Montréal/Mirabel International	23	1,710	7	16	12	27	87
Nanaimo	5	2,630	21	11	21	3	153
Norman Wells	32	1,391	16	14	12	16	66
North Bay	33	1,385	5	10	13	5	74
Ottawa/Gatineau	16	1,988	7	10	24	20	136
Peace River	46	706	25	16	12	6	48
Penticton	19	1,839	6	9	17	20	113
Port Hardy	22	1,775	18	18	16	12	98
Prince Albert	24	1,662	16	8	14	16	87
Prince Rupert	50	499	7	14	11	12	39
Rankin Inlet	30	1,457	16	13	13	9	66
Red Deer Regional	11	2,302	25	11	22	4	155
Rouyn-Noranda	36	1,241	26	17	12	10	68
Saint John	25	1,637	28	10	15	14	83
Sept-Îles	8	2,486	11	17	17	2	112
Sioux Lookout	10	2,351	17	16	15	25	115
Smithers	31	1,452	18	19	17	18	94
St Catharines	17	1,925	13	11	17	28	104
Sudbury	7	2,568	11	13	17	6	144
Terrace	35	1,251	4	9	10	16	65
Thompson	3	3,041	25	22	17	25	162
Timmins	15	2,039	28	12	20	11	103
Val-d'Or	29	1,467	28	11	36	28	138
Victoria Harbour	2	3,391	13	17	20	12	159
Wabush	41	1,026	31	10	13	17	58
Whitecourt	44	855	4	18	20	4	77
Williams Lake	1	3,996	3	9	49	3	352

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	14	3,349	15	16	164	15	276
Boundary Bay	3	9,730	9	19	84	12	564
Calgary International	37	150	4	10	6	6	16
Calgary/Springbank	5	6,312	9	13	77	4	386
Chicoutimi/St-Honoré	19	2,844	4	9	68	30	454
Edmonton City Centre	31	635	18	9	22	18	70
Edmonton International	33	385	26	16	28	26	98
Edmonton/Villeneuve	17	3,122	2	9	58	4	196
Fort McMurray	26	990	29	15	28	30	74
Fredericton International	8	5,954	24	9	46	12	333
Gander International	23	1,220	12	22	76	12	166
Halifax/Robert L. Stanfield International	32	386	17	21	16	23	40
Hamilton	22	1,303	13	11	24	26	74
Kelowna	20	2,116	4	7	34	4	156
Kitchener/Waterloo	11	4,642	24	22	54	25	306
Langley	16	3,175	4	11	50	11	205
London	4	8,973	3	15	116	3	599
Moncton/Greater Moncton International	6	6,077	11	20	44	8	316
Montréal/Pierre Elliott Trudeau International	41	26	24	5	4	10	4
Montréal/St-Hubert	2	10,964	9	21	144	13	900
Oshawa ¹	36	220	25	10	10	25	18
Ottawa/Macdonald-Cartier International	12	3,888	12	9	46	12	283
Pitt Meadows	7	6,032	20	11	66	4	338
Prince George	30	658	14	12	30	14	70
Québec/Jean Lesage International	15	3,253	29	9	42	10	246
Regina International	21	1,357	22	11	32	11	100
Saskatoon/John G. Diefenbaker International	18	3,068	28	21	46	29	174
Sault Ste. Marie ¹	40	34	10	20	14	10	14
St. John's International	35	224	11	16	14	31	22
St-Jean	27	918	5	17	24	11	90
Thunder Bay	28	854	14	22	46	14	70
Toronto/Billy Bishop Toronto City	13	3,851	24	18	74	24	338
Toronto/Buttonville Municipal	1	11,569	11	19	90	18	657
Toronto/Lester B. Pearson International	38	86	18	10	10	18	12
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	39	80	12	8	8	12	14
Victoria International	9	5,440	25	13	56	5	364
Whitehorse International	24	1,096	19	10	34	19	102
Windsor	29	786	20	11	34	2	66
Winnipeg/James Armstrong Richardson International	25	1,065	18	12	24	18	83
Winnipeg/St. Andrews	10	5,044	7	13	56	17	326
Yellowknife	34	384	28	16	24	28	48

1. Only partial local movement data has been received for the month of August 2010 for Oshawa, Ontario and Sault Ste. Marie, Ontario.

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	28	11	30	18	82
Campbell River	7	1,223	6	10	40	6	134
Castlegar	33	108	28	9	24	28	24
Charlottetown	19	350	28	21	20	29	36
Churchill	41	42	3	13	10	3	10
Cranbrook	22	268	6	13	16	6	34
Deer Lake	28	192	2	20	26	25	90
Fort Nelson	35	86	6	5	24	4	34
Fort St John	21	323	8	14	22	8	66
Grande Prairie	10	798	19	11	24	21	110
High Level	31	124	12	19	20	12	20
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	36	80	20	0	12	18	14
Iqaluit	23	264	30	21	40	19	54
Kamloops	5	1,292	6	11	44	7	148
Kenora	24	256	27	10	32	26	78
Kingston	3	1,402	4	10	28	24	106
Kuujuuaq	37	80	26	15	20	26	46
La Grande Rivière	49	6	16	20	2	16	2
La Ronge	20	327	12	15	14	16	42
Lethbridge	6	1,258	23	18	32	16	120
Lloydminster	18	392	6	18	18	22	56
Medicine Hat	17	482	24	18	42	7	76
Mont-Joli	47	12	11	15	4	11	4
Montréal/Mirabel International	8	1,083	2	17	84	2	124
Nanaimo	15	604	23	14	72	23	152
Norman Wells	46	14	9	13	4	9	4
North Bay	11	763	20	12	34	29	117
Ottawa/Gatineau	1	2,998	11	9	48	11	250
Peace River	25	228	18	15	32	18	100
Penticton	9	954	17	10	34	31	98
Port Hardy	45	14	28	16	6	28	6
Prince Albert	29	153	28	13	20	28	46
Prince Rupert	30	141	21	18	20	21	36
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	4	1,378	18	15	42	16	126
Rouyn-Noranda	14	640	10	9	38	10	76
Saint John	16	492	25	18	18	2	58
Sept-Îles	27	194	8	11	28	8	62
Sioux Lookout	38	61	19	21	12	19	14
Smithers	40	44	28	18	12	28	12
St Catharines	2	1,404	10	17	44	12	108
Sudbury	26	198	9	21	24	9	44
Terrace	43	34	17	11	12	17	22
Thompson	34	87	21	14	20	21	42
Timmins	44	24	13	16	12	13	12
Val-d'Or	39	50	27	9	10	26	18
Victoria Harbour	48	10	20	15	10	20	10
Wabush	32	108	16	11	24	12	50
Whitecourt	13	654	3	14	70	3	126
Williams Lake	42	40	9	16	8	26	14

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	14	3,349	15	16	164	15	276
Boundary Bay	3	9,730	9	19	84	12	564
Calgary International	37	150	4	10	6	6	16
Calgary/Springbank	5	6,312	9	13	77	4	386
Chicoutimi/St-Honoré	19	2,844	4	9	68	30	454
Edmonton City Centre	31	635	18	9	22	18	70
Edmonton International	33	385	26	16	28	26	98
Edmonton/Villeneuve	17	3,122	2	9	58	4	196
Fort McMurray	26	990	29	15	28	30	74
Fredericton International	8	5,954	24	9	46	12	333
Gander International	23	1,220	12	22	76	12	166
Halifax/Robert L. Stanfield International	32	386	17	21	16	23	40
Hamilton	22	1,303	13	11	24	26	74
Kelowna	20	2,116	4	7	34	4	156
Kitchener/Waterloo	11	4,642	24	22	54	25	306
Langley	16	3,175	4	11	50	11	205
London	4	8,973	3	15	116	3	599
Moncton/Greater Moncton International	6	6,077	11	20	44	8	316
Montréal/Pierre Elliott Trudeau International	41	26	24	5	4	10	4
Montréal/St-Hubert	2	10,964	9	21	144	13	900
Oshawa ¹	36	220	25	10	10	25	18
Ottawa/Macdonald-Cartier International	12	3,888	12	9	46	12	283
Pitt Meadows	7	6,032	20	11	66	4	338
Prince George	30	658	14	12	30	14	70
Québec/Jean Lesage International	15	3,253	29	9	42	10	246
Regina International	21	1,357	22	11	32	11	100
Saskatoon/John G. Diefenbaker International	18	3,068	28	21	46	29	174
Sault Ste. Marie ¹	40	34	10	20	14	10	14
St. John's International	35	224	11	16	14	31	22
St-Jean	27	918	5	17	24	11	90
Thunder Bay	28	854	14	22	46	14	70
Toronto/Billy Bishop Toronto City	13	3,851	24	18	74	24	338
Toronto/Buttonville Municipal	1	11,569	11	19	90	18	657
Toronto/Lester B. Pearson International	38	86	18	10	10	18	12
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	39	80	12	8	8	12	14
Victoria International	9	5,440	25	13	56	5	364
Whitehorse International	24	1,096	19	10	34	19	102
Windsor	29	758	20	11	28	2	66
Winnipeg/James Armstrong Richardson International	25	1,065	18	12	24	18	83
Winnipeg/St. Andrews	10	5,044	7	13	56	17	326
Yellowknife	34	384	28	16	24	28	48

1. Only partial local movement data has been received for the month of August 2010 for Oshawa, Ontario and Sault Ste. Marie, Ontario.

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	682	28	11	30	18	82
Campbell River	7	1,223	6	10	40	6	134
Castlegar	32	108	28	9	24	28	24
Charlottetown	19	334	28	21	20	29	36
Churchill	41	42	3	13	10	3	10
Cranbrook	22	268	6	13	16	6	34
Deer Lake	28	148	2	20	26	25	90
Fort Nelson	35	86	6	5	24	4	34
Fort St John	21	323	8	14	22	8	66
Grande Prairie	10	798	19	11	24	21	110
High Level	30	124	12	19	20	12	20
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	36	80	20	0	12	18	14
Iqaluit	24	214	30	21	40	19	54
Kamloops	5	1,292	6	11	44	7	148
Kenora	31	122	2	20	24	2	38
Kingston	3	1,402	4	10	28	24	106
Kuujuuaq	37	80	26	15	20	26	46
La Grande Rivière	49	6	16	20	2	16	2
La Ronge	20	327	12	15	14	16	42
Lethbridge	6	1,224	23	18	32	17	92
Lloydminster	18	392	6	18	18	22	56
Medicine Hat	17	478	24	18	42	7	76
Mont-Joli	46	12	11	15	4	11	4
Montréal/Mirabel International	8	1,083	2	17	84	2	124
Nanaimo	15	604	23	14	72	23	152
Norman Wells	45	14	9	13	4	9	4
North Bay	11	759	5	9	30	29	117
Ottawa/Gatineau	1	2,998	11	9	48	11	250
Peace River	23	228	18	15	32	18	100
Penticton	9	954	17	10	34	31	98
Port Hardy	47	12	28	16	6	28	6
Prince Albert	27	153	28	13	20	28	46
Prince Rupert	29	141	21	18	20	21	36
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	4	1,378	18	15	42	16	126
Rouyn-Noranda	14	640	10	9	38	10	76
Saint John	16	492	25	18	18	2	58
Sept-Îles	26	194	8	11	28	8	62
Sioux Lookout	38	61	19	21	12	19	14
Smithers	40	44	28	18	12	28	12
St Catharines	2	1,404	10	17	44	12	108
Sudbury	25	198	9	21	24	9	44
Terrace	43	34	17	11	12	17	22
Thompson	34	87	21	14	20	21	42
Timmins	44	24	13	16	12	13	12
Val-d'Or	39	48	27	9	10	26	18
Victoria Harbour	48	10	20	15	10	20	10
Wabush	33	108	16	11	24	12	50
Whitecourt	13	654	3	14	70	3	126
Williams Lake	42	40	9	16	8	26	14

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	0	0	0	0	0	0	0
Calgary/Springbank	0	0	0	0	0	0	0
Chicoutimi/St-Honoré	0	0	0	0	0	0	0
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	0	0	0	0	0	0	0
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	0	0	0	0	0	0	0
Fredericton International	0	0	0	0	0	0	0
Gander International	0	0	0	0	0	0	0
Halifax/Robert L. Stanfield International	0	0	0	0	0	0	0
Hamilton	0	0	0	0	0	0	0
Kelowna	0	0	0	0	0	0	0
Kitchener/Waterloo	0	0	0	0	0	0	0
Langley	0	0	0	0	0	0	0
London	0	0	0	0	0	0	0
Moncton/Greater Moncton International	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	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
Regina International	0	0	0	0	0	0	0
Saskatoon/John G. Diefenbaker International	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
Whitehorse International	0	0	0	0	0	0	0
Windsor	1	28	19	14	12	19	12
Winnipeg/James Armstrong Richardson International	0	0	0	0	0	0	0
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	0	0	0	0	0	0	0

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	6	6	17	0	6	17	6
Campbell River	0	0	0	0	0	0	0
Castlegar	0	0	0	0	0	0	0
Charlottetown	5	16	17	10	14	17	16
Churchill	0	0	0	0	0	0	0
Cranbrook	0	0	0	0	0	0	0
Deer Lake	3	44	7	11	24	7	44
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	2	50	24	15	24	24	26
Kamloops	0	0	0	0	0	0	0
Kenora	1	134	27	10	32	26	48
Kingston	0	0	0	0	0	0	0
Kuujuuaq	0	0	0	0	0	0	0
La Grande Rivière	0	0	0	0	0	0	0
La Ronge	0	0	0	0	0	0	0
Lethbridge	4	34	16	10	14	16	32
Lloydminster	0	0	0	0	0	0	0
Medicine Hat	8	4	16	11	4	16	4
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	0	0	0	0	0	0	0
Nanaimo	0	0	0	0	0	0	0
Norman Wells	0	0	0	0	0	0	0
North Bay	7	4	20	12	4	20	4
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	9	2	7	9	2	7	2
Prince Albert	0	0	0	0	0	0	0
Prince Rupert	0	0	0	0	0	0	0
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	0	0	0	0	0	0	0
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	10	2	27	17	2	27	2
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, gross 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 ASC 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

On August 4, 2010, work was begun to close runway 16/34 at Edmonton City Centre 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.

Lightning storms, combined with dry conditions, caused a rash of forest fires in northern Manitoba and Saskatchewan and in the British Columbia interior in July 2010.

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.

Skyservice, Canada's second-largest charter carrier, ceased operation at the end of March 2010.

Porter Airlines expanded its service to include St. John's, Newfoundland and Labrador on October 5, 2009, Boston Logan effective September 14, 2009, and Thunder Bay International Airport effective June 26, 2009.

Fredericton International, New Brunswick – As of January 2010, data for Fredericton International can be found in tables relating to NAV Canada Towers.

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: Canadian air carriers that, in the calendar year 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: 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.

Gross 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.

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.

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.