

Catalogue no. 51-007-X

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



February 2011



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Statistics Canada
Transportation Division

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March 2011

Catalogue no. 51-007-X

ISSN 1911-6314

Frequency: Monthly

Ottawa

Cette publication est également disponible en français.

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- . not available for 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

Acknowledgements

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

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

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

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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 3.8% in February 2011 from February 2010. These airports reported 358,016 movements in February compared with 372,217 movements in February 2010.
- There were 264,159 itinerant movements (flights from one airport to another) reported in February 2011. This represents a 2.7% decrease (-7,273 movements) compared with the same month a year earlier.
- In February 2011, there were 93,857 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 6.9% (-6,928 movements) compared with the previous year.

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

	NAV CANADA towers	Percentage change, February 2010 to February 2011	NAV CANADA Flight Service Stations	Percentage change, February 2010 to February 2011	Total	Percentage change, February 2010 to February 2011
	number	percent	number	percent	number	percent
Grand total	290,714	-4.1	67,302	-2.5	358,016	-3.8
Itinerant movements						
Air carriers	177,454	-1.0	42,032	2.0	219,486	-0.5
Other commercial movements	15,880	-15.6	1,921	-4.4	17,801	-14.5
Private movements	14,907	-8.4	4,692	-10.0	19,599	-8.8
Government civil movements	3,397	-17.6	1,521	17.3	4,918	-9.3
Government military movements	1,589	-38.4	766	23.2	2,355	-26.4
Itinerant total	213,227	-3.5	50,932	1.1	264,159	-2.7
Local movements						
Civil local movements	77,123	-5.0	16,161	-12.6	93,284	-6.4
Military local movements	364	-62.8	209	37.5	573	-49.3
Local total	77,487	-5.7	16,370	-12.2	93,857	-6.9

Analysis

Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased 3.8% in February 2011 from February 2010. These airports reported 358,016 movements in February compared with 372,217 movements in February 2010. Toronto/Lester B Pearson International, Ontario (32,059 movements) followed by Vancouver International, British Columbia (21,124 movements) were the most active sites in February 2011. Year-over-year increases were reported by 40 airports.

There were 264,159 itinerant movements (flights from one airport to another) reported in February 2011. This represents a 2.7% decrease (-7,273 movements) compared with the same month a year earlier. The year-over-year variations ranged from an increase of 2,321 movements (+232.6%) at Boundary Bay, British Columbia to a decline of 1,759 movements (-40.9%) at Abbotsford, British Columbia. Year-over-year increases in the number of itinerant aircraft movements were reported by 44 airports in February 2011.

In February 2011, there were 93,857 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 6.9% (-6,928 movements) compared with the previous year. Calgary/Springbank, Alberta (5,312 movements) followed by Montréal/St-Hubert, Quebec (5,270 movements) recorded the largest number of local movements.

Itinerant movements: domestic, transborder and international

There were 214,896 domestic itinerant movements reported in February 2011, down 3.2% (-7,145 movements) from February 2010. Vancouver International, British Columbia (15,637 movements) followed by Calgary International, Alberta (13,758 movements) reported the greatest number of domestic itinerant movements.

Seventy-six airports reported 37,220 transborder itinerant movements (between Canada and the United States) in February 2011, up 1.4% (+502 movements) from the previous year. Toronto/Lester B Pearson International, Ontario (13,982 movements) reported the greatest number of transborder itinerant movements. This represents 37.6% of the total transborder itinerant movements.

In February 2011, thirty-seven airports reported 12,043 other international itinerant movements, down 5.0% (-630 movements) from the previous year. Toronto/Lester B Pearson International, Ontario (5,048 movements) recorded the greatest number of other international itinerant movements. This represents 41.9% 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)
51-206-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 gross 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
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401-0015	Aircraft movements, by civil and military movements, 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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401-0038	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	14	7,064	27	2,544	5	4,520
Boundary Bay	12	8,221	17	3,319	4	4,902
Calgary International	3	17,655	3	17,519	37	136
Calgary/Springbank	11	8,387	19	3,075	1	5,312
Chicoutimi/St-Honoré	34	2,829	40	939	18	1,890
Edmonton City Centre	27	4,354	15	3,794	30	560
Edmonton International	6	10,436	5	10,134	34	302
Edmonton/Villeneuve	29	4,024	41	552	8	3,472
Fort McMurray	35	2,810	25	2,742	39	68
Fredericton International	24	4,774	29	2,390	15	2,384
Gander International	37	2,323	36	1,497	27	826
Halifax/Robert L Stanfield International	17	6,211	8	5,913	35	298
Hamilton	36	2,485	32	2,011	31	474
Kelowna	23	5,009	16	3,427	21	1,582
Kitchener/Waterloo	25	4,702	30	2,182	13	2,520
Langley	26	4,559	33	1,987	12	2,572
London	21	5,595	23	2,757	10	2,838
Moncton/Greater Moncton International	22	5,343	18	3,261	17	2,082
Montréal/Pierre Elliott Trudeau International	4	16,693	4	16,631	40	62
Montréal/St-Hubert	7	10,007	11	4,737	2	5,270
Oshawa	39	2,147	39	951	25	1,196
Ottawa/Macdonald-Cartier International	5	12,063	6	9,661	14	2,402
Pitt Meadows	18	6,133	31	2,023	6	4,110
Prince George	40	1,893	35	1,537	33	356
Québec/Jean Lesage International	10	8,436	10	5,794	11	2,642
Regina International	28	4,352	20	3,068	23	1,284
Saskatoon/John G Diefenbaker International	20	5,858	13	4,140	20	1,718
Sault Ste. Marie	33	2,869	34	1,583	22	1,286
St. John's International	32	2,943	24	2,755	36	188
St-Jean	41	1,466	42	262	24	1,204
Thunder Bay	15	6,705	12	4,400	16	2,305
Toronto/Billy Bishop Toronto City	19	5,885	14	4,067	19	1,818
Toronto/Buttonville Municipal	16	6,448	26	2,718	7	3,730
Toronto/Lester B Pearson International	1	32,059	1	31,969	38	90
Vancouver Harbour	31	3,005	22	2,985	42	20
Vancouver International	2	21,124	2	21,100	41	24
Victoria International	9	9,001	9	5,839	9	3,162
Whitehorse International	38	2,255	37	1,451	28	804
Windsor	42	1,390	38	976	32	414
Winnipeg/James Armstrong Richardson International	8	9,978	7	9,092	26	886
Winnipeg/St. Andrews	13	7,439	28	2,451	3	4,988
Yellowknife	30	3,784	21	2,994	29	790
Total of NAV CANADA towers (42)	.	290,714	.	213,227	.	77,487

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	24	1,100	36	626	14	474
Campbell River	10	2,047	17	1,147	7	900
Castlegar	39	764	39	570	21	194
Charlottetown	41	699	37	621	31	78
Churchill	31	946	23	946	0	0
Cranbrook	38	777	35	697	29	80
Deer Lake	22	1,281	18	1,047	16	234
Fort Nelson	19	1,367	14	1,291	32	76
Fort St. John	15	1,734	8	1,433	15	301
Grande Prairie	1	3,439	4	1,961	2	1,478
High Level	45	505	43	493	43	12
Îles-de-la-Madeleine	50	305	50	305	0	0
Inuvik/Mike Zubko	46	491	45	479	44	12
Iqaluit	21	1,288	15	1,209	30	79
Kamloops	11	1,997	9	1,429	12	568
Kenora	32	933	34	703	17	230
Kingston	13	1,825	20	1,021	8	804
Kuujuuaq	30	981	29	793	24	188
La Grande Rivière	40	727	33	713	42	14
La Ronge	25	1,095	22	975	25	120
Lethbridge	33	908	32	718	22	190
Lloydminster	23	1,169	38	619	13	550
Medicine Hat	36	821	31	751	33	70
Mont-Joli	49	401	49	401	0	0
Montréal/Mirabel International	4	2,578	10	1,428	4	1,150
Nanaimo	17	1,502	13	1,301	18	201
Norman Wells	42	645	40	553	27	92
North Bay	2	3,310	11	1,348	1	1,962
Ottawa/Gatineau	6	2,408	21	1,013	3	1,395
Peace River	44	571	41	547	40	24
Penticton	14	1,815	26	891	6	924
Port Hardy	48	433	48	425	45	8
Prince Albert	20	1,349	12	1,303	35	46
Prince Rupert	51	303	51	301	48	2
Rankin Inlet	37	818	28	814	46	4
Red Deer Regional	12	1,913	16	1,155	9	758
Rouyn-Noranda	34	877	27	843	37	34
Saint John	26	1,093	25	905	23	188
Sept-Îles	9	2,097	6	1,897	19	200
Sioux Lookout	8	2,148	3	2,117	38	31
Smithers	47	445	47	443	47	2
St. Catharines	29	1,035	46	453	11	582
Sudbury	5	2,554	5	1,950	10	604
Terrace	35	849	30	767	28	82
Thompson	3	2,812	1	2,614	20	198
Timmins	16	1,713	7	1,687	39	26
Val-d'Or	28	1,035	24	930	26	105
Victoria Harbour	7	2,300	2	2,280	41	20
Wabush	27	1,060	19	1,022	36	38
Whitecourt	18	1,466	44	486	5	980
Williams Lake	43	573	42	511	34	62
Total of all flight service stations (51)	.	67,302	.	50,932	.	16,370

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

	Civil movements			Military movements				
	Total	Itinerant		Local	Total	Itinerant		Local
		Commercial	Private and government					
	number							
Abbotsford	7,037	2,003	514	4,520	27	27	0	
Boundary Bay	8,219	2,520	797	4,902	2	2	0	
Calgary International	17,611	16,304	1,171	136	44	44	0	
Calgary/Springbank	8,384	2,394	678	5,312	3	3	0	
Chicoutimi/St-Honoré	2,817	899	36	1,882	12	4	8	
Edmonton City Centre	4,340	2,885	895	560	14	14	0	
Edmonton International	10,374	9,591	485	298	62	58	4	
Edmonton/Villeneuve	4,024	342	210	3,472	0	0	0	
Fort McMurray	2,806	2,426	316	64	4	0	4	
Fredericton International	4,757	2,250	123	2,384	17	17	0	
Gander International	2,176	1,166	184	826	147	147	0	
Halifax/Robert L. Stanfield International	6,141	5,604	239	298	70	70	0	
Hamilton	2,479	1,756	249	474	6	6	0	
Kelowna	5,002	3,117	303	1,582	7	7	0	
Kitchener/Waterloo	4,700	1,728	452	2,520	2	2	0	
Langley	4,559	1,325	662	2,572	0	0	0	
London	5,591	2,416	339	2,836	4	2	2	
Moncton/Greater Moncton International	5,336	3,042	214	2,080	7	5	2	
Montréal/Pierre Elliott Trudeau International	16,677	15,566	1,049	62	16	16	0	
Montréal/St-Hubert	9,930	3,918	742	5,270	77	77	0	
Oshawa	2,139	703	240	1,196	8	8	0	
Ottawa/Macdonald-Cartier International	11,896	9,021	475	2,400	167	165	2	
Pitt Meadows	6,133	1,187	836	4,110	0	0	0	
Prince George	1,884	1,329	199	356	9	9	0	
Québec/Jean Lesage International	8,407	5,106	665	2,636	29	23	6	
Regina International	4,074	2,665	353	1,056	278	50	228	
Saskatoon/John G. Diefenbaker International	5,750	3,677	415	1,658	108	48	60	
Sault Ste. Marie	2,859	1,494	79	1,286	10	10	0	
St. John's International	2,820	2,480	152	188	123	123	0	
St-Jean	1,443	138	101	1,204	23	23	0	
Thunder Bay	6,688	4,096	287	2,305	17	17	0	
Toronto/Billy Bishop Toronto City	5,870	3,766	286	1,818	15	15	0	
Toronto/Buttonville Municipal	6,446	1,606	1,110	3,730	2	2	0	
Toronto/Lester B. Pearson International	32,045	31,019	936	90	14	14	0	
Vancouver Harbour	2,999	2,936	43	20	6	6	0	
Vancouver International	21,106	20,210	872	24	18	18	0	
Victoria International	8,764	4,835	803	3,126	237	201	36	
Whitehorse International	2,206	1,302	110	794	49	39	10	
Windsor	1,390	865	111	414	0	0	0	
Winnipeg/James Armstrong Richardson International	9,715	8,492	339	884	263	261	2	
Winnipeg/St. Andrews	7,428	2,323	117	4,988	11	11	0	
Yellowknife	3,739	2,832	117	790	45	45	0	
Total of NAV CANADA towers (42)	288,761	193,334	18,304	77,123	1,953	1,589	364	

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			Commercial	Private and government	
	number							
Brandon Municipal	848	329	89	430	252	208	44	
Campbell River	2,042	899	244	899	5	4	1	
Castlegar	760	526	40	194	4	4	0	
Charlottetown	687	522	87	78	12	12	0	
Churchill	826	815	11	0	120	120	0	
Cranbrook	769	571	118	80	8	8	0	
Deer Lake	1,273	1,023	16	234	8	8	0	
Fort Nelson	1,334	1,203	55	76	33	33	0	
Fort St. John	1,728	1,263	164	301	6	6	0	
Grande Prairie	3,431	1,720	233	1,478	8	8	0	
High Level	505	445	48	12	0	0	0	
Îles-de-la-Madeleine	305	258	47	0	0	0	0	
Inuvik/Mike Zubko	489	463	14	12	2	2	0	
Iqaluit	1,288	1,127	82	79	0	0	0	
Kamloops	1,964	1,181	241	542	33	7	26	
Kenora	775	642	29	104	158	32	126	
Kingston	1,805	827	176	802	20	18	2	
Kuujuuaq	981	771	22	188	0	0	0	
La Grande Rivière	694	616	64	14	33	33	0	
La Ronge	1,095	925	50	120	0	0	0	
Lethbridge	904	545	169	190	4	4	0	
Lloydminster	1,163	458	155	550	6	6	0	
Medicine Hat	803	643	90	70	18	18	0	
Mont-Joli	397	336	61	0	4	4	0	
Montréal/Mirabel International	2,562	1,163	255	1,144	16	10	6	
Nanaimo	1,496	888	407	201	6	6	0	
Norman Wells	645	547	6	92	0	0	0	
North Bay	3,258	1,066	232	1,960	52	50	2	
Ottawa/Gatineau	2,397	525	477	1,395	11	11	0	
Peace River	571	501	46	24	0	0	0	
Penticton	1,757	705	128	924	58	58	0	
Port Hardy	416	325	83	8	17	17	0	
Prince Albert	1,341	1,163	132	46	8	8	0	
Prince Rupert	303	265	36	2	0	0	0	
Rankin Inlet	818	796	18	4	0	0	0	
Red Deer Regional	1,913	732	423	758	0	0	0	
Rouyn-Noranda	867	743	90	34	10	10	0	
Saint John	1,082	718	178	186	11	9	2	
Sept-Îles	2,087	1,667	220	200	10	10	0	
Sioux Lookout	2,148	2,052	65	31	0	0	0	
Smithers	443	421	20	2	2	2	0	
St. Catharines	1,031	333	116	582	4	4	0	
Sudbury	2,534	1,763	167	604	20	20	0	
Terrace	849	753	14	82	0	0	0	
Thompson	2,812	2,424	190	198	0	0	0	
Timmins	1,709	1,529	154	26	4	4	0	
Val-d'Or	1,033	804	124	105	2	2	0	
Victoria Harbour	2,298	2,120	158	20	2	2	0	
Wabush	1,060	958	64	38	0	0	0	
Whitecourt	1,464	411	73	980	2	2	0	
Williams Lake	567	473	32	62	6	6	0	
Total of all flight service stations (51)	66,327	43,953	6,213	16,161	975	766	209	

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	2,544	454	1,521	28	400	114	27
Boundary Bay	3,319	13	689	1,818	771	26	2
Calgary International	17,519	15,206	720	378	1,039	132	44
Calgary/Springbank	3,075	11	553	1,830	672	6	3
Chicoutimi/St-Honoré	939	229	32	638	35	1	4
Edmonton City Centre	3,794	1,261	525	1,099	540	355	14
Edmonton International	10,134	9,233	206	152	480	5	58
Edmonton/Villeneuve	552	0	24	318	210	0	0
Fort McMurray	2,742	1,483	747	196	302	14	0
Fredericton International	2,390	684	1,566	0	45	78	17
Gander International	1,497	464	676	26	172	12	147
Halifax/Robert L. Stanfield International	5,913	5,289	308	7	191	48	70
Hamilton	2,011	1,642	100	14	184	65	6
Kelowna	3,427	2,426	426	265	246	57	7
Kitchener/Waterloo	2,182	351	1,344	33	450	2	2
Langley	1,987	96	173	1,056	641	21	0
London	2,757	1,005	407	1,004	284	55	2
Moncton/Greater Moncton International	3,261	1,496	1,546	0	75	139	5
Montréal/Pierre Elliott Trudeau International	16,631	14,659	873	34	871	178	16
Montréal/St-Hubert	4,737	2,427	575	916	693	49	77
Oshawa	951	37	32	634	190	50	8
Ottawa/Macdonald-Cartier International	9,661	7,230	313	1,478	230	245	165
Pitt Meadows	2,023	13	728	446	790	46	0
Prince George	1,537	1,141	171	17	128	71	9
Québec/Jean Lesage International	5,794	3,479	1,422	205	373	292	23
Regina International	3,068	2,169	468	28	187	166	50
Saskatoon/John G. Diefenbaker International	4,140	2,735	678	264	196	219	48
Sault Ste. Marie	1,583	892	118	484	49	30	10
St. John's International	2,755	1,893	579	8	80	72	123
St-Jean	262	0	76	62	101	0	23
Thunder Bay	4,400	2,855	469	772	196	91	17
Toronto/Billy Bishop Toronto City	4,067	2,809	460	497	268	18	15
Toronto/Buttonville Municipal	2,718	187	1,359	60	1,050	60	2
Toronto/Lester B. Pearson International	31,969	30,338	667	14	917	19	14
Vancouver Harbour	2,985	2,720	205	11	43	0	6
Vancouver International	21,100	18,818	1,290	102	490	382	18
Victoria International	5,839	2,744	1,729	362	783	20	201
Whitehorse International	1,451	849	338	115	86	24	39
Windsor	976	438	416	11	103	8	0
Winnipeg/James Armstrong Richardson International	9,092	8,191	256	45	178	161	261
Winnipeg/St. Andrews	2,451	456	1,414	453	115	2	11
Yellowknife	2,994	2,487	345	0	53	64	45
Total of NAV CANADA towers (42)	213,227	150,910	26,544	15,880	14,907	3,397	1,589

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	626	113	195	21	65	24	208
Campbell River	1,147	553	248	98	188	56	4
Castlegar	570	239	83	204	34	6	4
Charlottetown	621	503	17	2	28	59	12
Churchill	946	710	84	21	4	7	120
Cranbrook	697	528	30	13	106	12	8
Deer Lake	1,047	819	193	11	6	10	8
Fort Nelson	1,291	466	737	0	49	6	33
Fort St. John	1,433	806	449	8	137	27	6
Grande Prairie	1,961	1,168	473	79	207	26	8
High Level	493	314	131	0	33	15	0
Îles-de-la-Madeleine	305	204	54	0	6	41	0
Inuvik/Mike Zubko	479	396	67	0	0	14	2
Iqaluit	1,209	1,030	55	42	46	36	0
Kamloops	1,429	946	206	29	206	35	7
Kenora	703	368	272	2	19	10	32
Kingston	1,021	438	221	168	164	12	18
Kuujuuaq	793	724	47	0	2	20	0
La Grande Rivière	713	513	101	2	54	10	33
La Ronge	975	922	3	0	6	44	0
Lethbridge	718	392	16	137	144	25	4
Lloydminster	619	178	269	11	144	11	6
Medicine Hat	751	477	146	20	78	12	18
Mont-Joli	401	298	20	18	43	18	4
Montréal/Mirabel International	1,428	783	334	46	251	4	10
Nanaimo	1,301	340	470	78	371	36	6
Norman Wells	553	477	70	0	2	4	0
North Bay	1,348	562	207	297	209	23	50
Ottawa/Gatineau	1,013	91	282	152	418	59	11
Peace River	547	425	76	0	36	10	0
Penticton	891	284	399	22	112	16	58
Port Hardy	425	292	19	14	26	57	17
Prince Albert	1,303	1,129	32	2	60	72	8
Prince Rupert	301	209	54	2	4	32	0
Rankin Inlet	814	687	90	19	12	6	0
Red Deer Regional	1,155	296	331	105	382	41	0
Rouyn-Noranda	843	603	136	4	66	24	10
Saint John	905	625	73	20	174	4	9
Sept-Îles	1,897	1,048	516	103	112	108	10
Sioux Lookout	2,117	1,653	397	2	16	49	0
Smithers	443	359	62	0	10	10	2
St. Catharines	453	5	320	8	110	6	4
Sudbury	1,950	1,389	342	32	127	40	20
Terrace	767	513	237	3	2	12	0
Thompson	2,614	2,040	384	0	66	124	0
Timmins	1,687	1,340	187	2	112	42	4
Val-d'Or	930	717	79	8	99	25	2
Victoria Harbour	2,280	2,118	0	2	15	143	2
Wabush	1,022	694	261	3	52	12	0
Whitecourt	486	32	278	101	57	16	2
Williams Lake	511	398	65	10	22	10	6
Total of all flight service stations (51)	50,932	32,214	9,818	1,921	4,692	1,521	766

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	2,544	703	27.6	1,841	72.3	1,051
Boundary Bay	3,319	230	6.9	3,089	93.0	435
Calgary International	17,519	16,740	95.5	779	4.4	392
Calgary/Springbank	3,075	209	6.7	2,866	93.2	89
Chicoutimi/St-Honoré	939	122	12.9	817	87.0	38
Edmonton City Centre	3,794	1,682	44.3	2,112	55.6	1,174
Edmonton International	10,134	9,734	96.0	400	3.9	558
Edmonton/Villeneuve	552	41	7.4	511	92.5	100
Fort McMurray	2,742	1,874	68.3	868	31.6	113
Fredericton International	2,390	878	36.7	1,512	63.2	74
Gander International	1,497	967	64.5	530	35.4	54
Halifax/Robert L Stanfield International	5,913	5,607	94.8	306	5.1	116
Hamilton	2,011	1,790	89.0	221	10.9	368
Kelowna	3,427	2,361	68.8	1,066	31.1	386
Kitchener/Waterloo	2,182	569	26.0	1,613	73.9	262
Langley	1,987	27	1.3	1,960	98.6	349
London	2,757	1,167	42.3	1,590	57.6	163
Moncton/Greater Moncton International	3,261	1,765	54.1	1,496	45.8	58
Montréal/Pierre Elliott Trudeau International	16,631	16,221	97.5	410	2.4	737
Montréal/St-Hubert	4,737	1,438	30.3	3,299	69.6	519
Oshawa	951	39	4.1	912	95.8	310
Ottawa/Macdonald-Cartier International	9,661	7,794	80.6	1,867	19.3	442
Pitt Meadows	2,023	24	1.1	1,999	98.8	1,282
Prince George	1,537	1,246	81.0	291	18.9	140
Québec/Jean Lesage International	5,794	4,305	74.3	1,489	25.6	500
Regina International	3,068	2,400	78.2	668	21.7	70
Saskatoon/John G Diefenbaker International	4,140	3,082	74.4	1,058	25.5	133
Sault Ste. Marie	1,583	1,009	63.7	574	36.2	38
St. John's International	2,755	2,430	88.2	325	11.7	75
St-Jean	262	10	3.8	252	96.1	289
Thunder Bay	4,400	3,153	71.6	1,247	28.3	103
Toronto/Billy Bishop Toronto City	4,067	3,054	75.0	1,013	24.9	918
Toronto/Buttonville Municipal	2,718	471	17.3	2,247	82.6	641
Toronto/Lester B Pearson International	31,969	31,912	99.8	57	0.1	51
Vancouver Harbour	2,985	36	1.2	2,949	98.7	1,234
Vancouver International	21,100	17,975	85.1	3,125	14.8	5,877
Victoria International	5,839	3,022	51.7	2,817	48.2	2,834
Whitehorse International	1,451	499	34.3	952	65.6	286
Windsor	976	557	57.0	419	42.9	24
Winnipeg/James Armstrong Richardson International	9,092	8,332	91.6	760	8.3	282
Winnipeg/St. Andrews	2,451	66	2.6	2,385	97.3	47
Yellowknife	2,994	1,730	57.7	1,264	42.2	302
Total of NAV CANADA towers (42)	213,227	157,271	73.8	55,956	26.2	22,914

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	626	230	36.7	396	63.2	7
Campbell River	1,147	470	40.9	677	59.0	180
Castlegar	570	260	45.6	310	54.3	39
Charlottetown	621	544	87.6	77	12.3	17
Churchill	946	753	79.5	193	20.4	2
Cranbrook	697	579	83.0	118	16.9	80
Deer Lake	1,047	961	91.7	86	8.2	3
Fort Nelson	1,291	514	39.8	777	60.1	125
Fort St. John	1,433	878	61.2	555	38.7	39
Grande Prairie	1,961	1,341	68.3	620	31.6	62
High Level	493	259	52.5	234	47.4	36
Îles-de-la-Madeleine	305	253	82.9	52	17.0	48
Inuvik/Mike Zubko	479	231	48.2	248	51.7	2
Iqaluit	1,209	1,011	83.6	198	16.3	2
Kamloops	1,429	1,088	76.1	341	23.8	277
Kenora	703	421	59.8	282	40.1	96
Kingston	1,021	515	50.4	506	49.5	129
Kuujuuaq	793	360	45.3	433	54.6	0
La Grande Rivière	713	534	74.8	179	25.1	114
La Ronge	975	551	56.5	424	43.4	182
Lethbridge	718	482	67.1	236	32.8	9
Lloydminster	619	205	33.1	414	66.8	85
Medicine Hat	751	446	59.3	305	40.6	60
Mont-Joli	401	347	86.5	54	13.4	13
Montréal/Mirabel International	1,428	917	64.2	511	35.7	371
Nanaimo	1,301	538	41.3	763	58.6	460
Norman Wells	553	159	28.7	394	71.2	3
North Bay	1,348	653	48.4	695	51.5	218
Ottawa/Gatineau	1,013	141	13.9	872	86.0	277
Peace River	547	347	63.4	200	36.5	5
Penticton	891	266	29.8	625	70.1	58
Port Hardy	425	198	46.5	227	53.4	171
Prince Albert	1,303	1,177	90.3	126	9.6	58
Prince Rupert	301	219	72.7	82	27.2	10
Rankin Inlet	814	721	88.5	93	11.4	3
Red Deer Regional	1,155	346	29.9	809	70.0	187
Rouyn-Noranda	843	755	89.5	88	10.4	11
Saint John	905	795	87.8	110	12.1	11
Sept-Îles	1,897	1,517	79.9	380	20.0	196
Sioux Lookout	2,117	1,726	81.5	391	18.4	199
Smithers	443	350	79.0	93	20.9	201
St. Catharines	453	37	8.1	416	91.8	72
Sudbury	1,950	1,584	81.2	366	18.7	52
Terrace	767	500	65.1	267	34.8	146
Thompson	2,614	1,595	61.0	1,019	38.9	10
Timmins	1,687	1,489	88.2	198	11.7	40
Val-d'Or	930	749	80.5	181	19.4	111
Victoria Harbour	2,280	60	2.6	2,220	97.3	580
Wabush	1,022	937	91.6	85	8.3	31
Whitecourt	486	62	12.7	424	87.2	38
Williams Lake	511	422	82.5	89	17.4	101
Total of all flight service stations (51)	50,932	31,493	61.8	19,439	38.2	5,227

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	2,544	502	145	1,171	726	0
Boundary Bay	3,319	13	24	3,086	195	1
Calgary International	17,519	11,537	5,073	261	648	0
Calgary/Springbank	3,075	19	64	2,486	506	0
Chicoutimi/St-Honoré	939	0	76	710	153	0
Edmonton City Centre	3,794	237	1,365	1,495	697	0
Edmonton International	10,134	6,191	3,616	308	19	0
Edmonton/Villeneuve	552	24	18	463	47	0
Fort McMurray	2,742	998	984	274	486	0
Fredericton International	2,390	219	587	1,515	69	0
Gander International	1,497	424	510	389	174	0
Halifax/Robert L. Stanfield International	5,913	3,342	2,193	167	211	0
Hamilton	2,011	1,155	680	95	80	1
Kelowna	3,427	1,083	1,296	735	313	0
Kitchener/Waterloo	2,182	185	322	1,514	161	0
Langley	1,987	1	95	1,455	436	0
London	2,757	354	872	1,396	135	0
Moncton/Greater Moncton International	3,261	845	803	1,579	34	0
Montréal/Pierre Elliott Trudeau International	16,631	11,358	4,842	256	175	0
Montréal/St-Hubert	4,737	183	727	3,619	208	0
Oshawa	951	2	19	855	75	0
Ottawa/Macdonald-Cartier International	9,661	5,290	2,565	1,628	178	0
Pitt Meadows	2,023	2	10	1,739	272	0
Prince George	1,537	413	868	103	153	0
Québec/Jean Lesage International	5,794	1,441	2,697	1,029	627	0
Regina International	3,068	1,740	583	710	35	0
Saskatoon/John G. Diefenbaker International	4,140	1,622	1,407	1,088	23	0
Sault Ste. Marie	1,583	31	964	528	60	0
St. John's International	2,755	1,018	1,441	13	283	0
St-Jean	262	0	0	251	5	6
Thunder Bay	4,400	689	2,609	906	196	0
Toronto/Billy Bishop Toronto City	4,067	2	3,023	818	224	0
Toronto/Buttonville Municipal	2,718	51	265	2,246	156	0
Toronto/Lester B. Pearson International	31,969	26,829	5,069	61	10	0
Vancouver Harbour	2,985	0	1,758	591	636	0
Vancouver International	21,100	10,568	8,078	1,734	720	0
Victoria International	5,839	964	2,006	2,498	371	0
Whitehorse International	1,451	301	573	320	256	1
Windsor	976	86	565	316	9	0
Winnipeg/James Armstrong Richardson International	9,092	4,718	3,736	431	207	0
Winnipeg/St. Andrews	2,451	0	383	1,940	126	2
Yellowknife	2,994	654	1,768	255	316	1
Total of NAV CANADA towers (42)	213,227	95,091	64,679	43,034	10,411	12

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	626	10	266	314	36	0
Campbell River	1,147	9	593	247	298	0
Castlegar	570	6	271	226	67	0
Charlottetown	621	243	290	32	56	0
Churchill	946	23	840	7	76	0
Cranbrook	697	27	511	137	22	0
Deer Lake	1,047	138	815	40	54	0
Fort Nelson	1,291	68	428	112	683	0
Fort St. John	1,433	273	612	193	355	0
Grande Prairie	1,961	220	960	446	334	1
High Level	493	13	324	93	63	0
Îles-de-la-Madeleine	305	17	230	58	0	0
Inuvik/Mike Zubko	479	74	324	16	65	0
Iqaluit	1,209	362	789	10	48	0
Kamloops	1,429	132	913	208	176	0
Kenora	703	4	466	132	101	0
Kingston	1,021	31	469	471	50	0
Kuujuuaq	793	119	644	0	30	0
La Grande Rivière	713	56	544	71	42	0
La Ronge	975	0	797	145	33	0
Lethbridge	718	34	423	249	12	0
Lloydminster	619	11	210	370	28	0
Medicine Hat	751	18	472	224	37	0
Mont-Joli	401	12	345	30	14	0
Montréal/Mirabel International	1,428	541	340	307	240	0
Nanaimo	1,301	24	369	870	38	0
Norman Wells	553	139	219	135	60	0
North Bay	1,348	24	650	234	440	0
Ottawa/Gatineau	1,013	2	125	716	170	0
Peace River	547	6	340	128	73	0
Penticton	891	26	286	358	221	0
Port Hardy	425	8	259	86	72	0
Prince Albert	1,303	8	1,174	106	15	0
Prince Rupert	301	20	219	4	58	0
Rankin Inlet	814	121	603	0	90	0
Red Deer Regional	1,155	37	382	694	42	0
Rouyn-Noranda	843	72	753	18	0	0
Saint John	905	211	502	174	18	0
Sept-Îles	1,897	61	1,357	239	240	0
Sioux Lookout	2,117	0	1,902	181	34	0
Smithers	443	6	368	9	60	0
St. Catharines	453	5	7	357	84	0
Sudbury	1,950	47	1,546	149	208	0
Terrace	767	24	504	2	237	0
Thompson	2,614	12	2,064	238	300	0
Timmins	1,687	20	1,529	101	37	0
Val-d'Or	930	103	676	94	57	0
Victoria Harbour	2,280	0	1,507	45	728	0
Wabush	1,022	13	913	67	29	0
Whitecourt	486	16	36	69	365	0
Williams Lake	511	12	408	49	42	0
Total of all flight service stations (51)	50,932	3,458	31,574	9,261	6,638	1

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	1,591	228	167	47	32	40	426	13	0	0
Boundary Bay	3,092	179	40	7	0	1	0	0	0	0
Calgary International	553	416	1,313	1,704	1,001	4,138	6,778	700	262	654
Calgary/Springbank	2,794	197	70	12	2	0	0	0	0	0
Chicoutimi/St-Honoré	738	125	72	0	0	0	0	4	0	0
Edmonton City Centre	1,887	364	1,203	229	92	17	2	0	0	0
Edmonton International	226	168	606	1,063	556	2,481	4,352	344	174	164
Edmonton/Villeneuve	482	34	22	14	0	0	0	0	0	0
Fort McMurray	654	237	358	357	72	715	347	2	0	0
Fredericton International	1,476	104	184	200	141	281	0	2	0	2
Gander International	417	31	26	425	265	205	18	49	45	16
Halifax/Robert L. Stanfield International	46	181	362	1,016	633	1,502	1,650	231	187	105
Hamilton	109	391	132	283	144	45	286	15	500	106
Kelowna	880	139	228	492	62	698	881	36	11	0
Kitchener/Waterloo	1,603	85	301	45	34	24	88	2	0	0
Langley	1,870	107	8	0	1	0	1	0	0	0
London	1,434	150	214	80	443	270	164	0	2	0
Moncton/Greater Moncton International	1,504	108	245	404	88	563	108	0	241	0
Montréal/Pierre Elliott Trudeau International	345	69	534	697	2,615	4,784	4,655	1,482	111	1,339
Montréal/St-Hubert	3,096	651	551	266	134	20	17	2	0	0
Oshawa	868	55	23	2	3	0	0	0	0	0
Ottawa/Macdonald-Cartier International	1,657	118	872	201	571	2,831	2,721	374	90	226
Pitt Meadows	1,877	131	6	3	4	2	0	0	0	0
Prince George	193	78	132	573	43	349	169	0	0	0
Québec/Jean Lesage International	1,340	289	695	377	1,037	1,535	342	8	0	171
Regina International	594	156	296	301	40	813	697	2	92	77
Saskatoon/John G. Diefenbaker International	874	253	553	560	157	991	679	2	32	39
Sault Ste. Marie	531	120	530	49	290	44	16	3	0	0
St. John's International	21	21	262	503	668	483	551	160	70	16
St-Jean	262	0	0	0	0	0	0	0	0	0
Thunder Bay	913	163	2,110	246	40	711	214	3	0	0
Toronto/Billy Bishop Toronto City	794	107	464	47	2	2,653	0	0	0	0
Toronto/Buttonville Municipal	2,206	261	190	43	7	11	0	0	0	0
Toronto/Lester B. Pearson International	18	135	364	1,884	3,407	6,688	12,381	3,498	525	3,069
Vancouver Harbour	52	2,022	906	0	5	0	0	0	0	0
Vancouver International	581	2,468	822	2,279	1,557	4,741	5,262	1,098	398	1,894
Victoria International	2,003	892	165	374	723	1,115	522	13	32	0
Whitehorse International	480	312	168	98	10	241	130	10	2	0
Windsor	260	239	55	65	300	39	16	0	2	0
Winnipeg/James Armstrong Richardson International	384	305	2,544	263	705	1,777	2,136	290	628	60
Winnipeg/St. Andrews	1,800	573	78	0	0	0	0	0	0	0
Yellowknife	315	478	683	181	247	570	482	37	0	1
Total of NAV CANADA towers (42)	42,820	13,140	18,554	15,390	16,131	41,378	46,091	8,380	3,404	7,939

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	301	23	198	12	18	4	0	70	0	0
Campbell River	437	40	47	427	194	0	2	0	0	0
Castlegar	268	21	44	58	55	124	0	0	0	0
Charlottetown	19	126	37	148	52	213	24	2	0	0
Churchill	76	11	242	85	103	400	19	10	0	0
Cranbrook	105	50	63	153	146	180	0	0	0	0
Deer Lake	69	17	28	285	505	79	64	0	0	0
Fort Nelson	550	83	238	192	143	61	24	0	0	0
Fort St. John	506	37	172	300	161	255	2	0	0	0
Grande Prairie	533	248	391	216	79	318	176	0	0	0
High Level	118	88	168	117	2	0	0	0	0	0
Îles-de-la-Madeleine	0	58	84	21	128	14	0	0	0	0
Inuvik/Mike Zubko	59	25	273	6	0	42	72	2	0	0
Iqaluit	11	6	335	85	158	308	249	6	7	44
Kamloops	270	65	122	304	123	475	70	0	0	0
Kenora	129	16	534	0	10	0	0	14	0	0
Kingston	483	22	90	273	127	24	0	2	0	0
Kuujujuaq	30	0	521	0	81	62	81	0	2	16
La Grande Rivière	51	31	131	10	96	348	44	2	0	0
La Ronge	60	122	459	58	164	112	0	0	0	0
Lethbridge	196	65	91	344	19	3	0	0	0	0
Lloydminster	351	45	119	101	2	1	0	0	0	0
Medicine Hat	214	39	178	276	42	2	0	0	0	0
Mont-Joli	24	20	101	104	141	11	0	0	0	0
Montréal/Mirabel International	418	195	36	116	22	161	59	0	269	152
Nanaimo	531	370	48	30	19	303	0	0	0	0
Norman Wells	124	113	135	22	0	19	140	0	0	0
North Bay	628	142	311	64	152	32	0	19	0	0
Ottawa/Gatineau	825	49	43	94	2	0	0	0	0	0
Peace River	118	93	299	29	8	0	0	0	0	0
Penticton	534	39	32	111	16	159	0	0	0	0
Port Hardy	33	107	92	70	116	7	0	0	0	0
Prince Albert	77	38	267	336	212	373	0	0	0	0
Prince Rupert	8	62	32	40	36	123	0	0	0	0
Rankin Inlet	90	0	151	98	173	181	119	2	0	0
Red Deer Regional	618	116	190	147	54	29	1	0	0	0
Rouyn-Noranda	18	0	386	34	211	136	48	10	0	0
Saint John	68	125	150	205	134	218	0	5	0	0
Sept-Îles	276	195	462	454	355	136	15	4	0	0
Sioux Lookout	88	181	1,267	579	0	2	0	0	0	0
Smithers	65	6	54	190	28	100	0	0	0	0
St. Catharines	395	42	10	6	0	0	0	0	0	0
Sudbury	192	174	963	197	265	132	15	12	0	0
Terrace	215	24	95	146	124	161	2	0	0	0
Thompson	312	230	1,473	16	149	402	0	32	0	0
Timmins	84	163	798	99	444	99	0	0	0	0
Val-d'Or	143	6	191	113	284	120	32	0	2	39
Victoria Harbour	10	1,354	914	0	2	0	0	0	0	0
Wabush	23	71	241	320	353	14	0	0	0	0
Whitecourt	413	21	24	22	4	0	2	0	0	0
Williams Lake	78	11	22	387	7	4	2	0	0	0
Total of all flight service stations (51)	11,244	5,185	13,352	7,500	5,719	5,947	1,262	192	280	251

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	2,470	422	1,512	26	370	113	27
Transborder	47	5	9	2	30	1	0
Other international	27	27	0	0	0	0	0
Total	2,544	454	1,521	28	400	114	27
Boundary Bay							
Domestic	3,239	11	685	1,776	740	26	1
Transborder	80	2	4	42	31	0	1
Other international	0	0	0	0	0	0	0
Total	3,319	13	689	1,818	771	26	2
Calgary International							
Domestic	13,758	11,837	610	366	775	132	38
Transborder	3,071	2,689	110	12	254	0	6
Other international	690	680	0	0	10	0	0
Total	17,519	15,206	720	378	1,039	132	44
Calgary/Springbank							
Domestic	3,026	10	551	1,827	629	6	3
Transborder	49	1	2	3	43	0	0
Other international	0	0	0	0	0	0	0
Total	3,075	11	553	1,830	672	6	3
Chicoutimi/St-Honoré							
Domestic	938	228	32	638	35	1	4
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	939	229	32	638	35	1	4
Edmonton City Centre							
Domestic	3,771	1,257	522	1,094	529	355	14
Transborder	23	4	3	5	11	0	0
Other international	0	0	0	0	0	0	0
Total	3,794	1,261	525	1,099	540	355	14
Edmonton International							
Domestic	8,629	7,803	195	148	426	5	52
Transborder	1,265	1,194	11	2	52	0	6
Other international	240	236	0	2	2	0	0
Total	10,134	9,233	206	152	480	5	58
Edmonton/Villeneuve							
Domestic	549	0	24	318	207	0	0
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	552	0	24	318	210	0	0
Fort McMurray							
Domestic	2,739	1,481	747	196	301	14	0
Transborder	3	2	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,742	1,483	747	196	302	14	0
Fredericton International							
Domestic	2,371	678	1,566	0	38	76	13
Transborder	18	5	0	0	7	2	4
Other international	1	1	0	0	0	0	0
Total	2,390	684	1,566	0	45	78	17
Gander International							
Domestic	1,139	355	676	0	21	12	75
Transborder	173	50	0	12	71	0	40
Other international	185	59	0	14	80	0	32
Total	1,497	464	676	26	172	12	147

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	4,746	4,225	305	7	108	48	53
Transborder	845	764	1	0	69	0	11
Other international	322	300	2	0	14	0	6
Total	5,913	5,289	308	7	191	48	70
Hamilton							
Domestic	1,291	1,040	83	13	90	61	4
Transborder	671	563	14	1	89	4	0
Other international	49	39	3	0	5	0	2
Total	2,011	1,642	100	14	184	65	6
Kelowna							
Domestic	3,110	2,183	412	264	188	57	6
Transborder	271	197	14	1	58	0	1
Other international	46	46	0	0	0	0	0
Total	3,427	2,426	426	265	246	57	7
Kitchener/Waterloo							
Domestic	2,002	299	1,313	33	353	2	2
Transborder	162	45	30	0	87	0	0
Other international	18	7	1	0	10	0	0
Total	2,182	351	1,344	33	450	2	2
Langley							
Domestic	1,985	96	173	1,056	639	21	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,987	96	173	1,056	641	21	0
London							
Domestic	2,527	843	402	1,003	225	53	1
Transborder	212	145	4	1	59	2	1
Other international	18	17	1	0	0	0	0
Total	2,757	1,005	407	1,004	284	55	2
Moncton/Greater Moncton International							
Domestic	3,189	1,431	1,546	0	68	139	5
Transborder	62	56	0	0	6	0	0
Other international	10	9	0	0	1	0	0
Total	3,261	1,496	1,546	0	75	139	5
Montréal/Pierre Elliott Trudeau International							
Domestic	8,709	7,319	673	21	509	178	9
Transborder	5,444	4,928	172	3	338	0	3
Other international	2,478	2,412	28	10	24	0	4
Total	16,631	14,659	873	34	871	178	16
Montréal/St-Hubert							
Domestic	4,615	2,403	564	916	608	47	77
Transborder	120	24	11	0	83	2	0
Other international	2	0	0	0	2	0	0
Total	4,737	2,427	575	916	693	49	77
Oshawa							
Domestic	932	31	32	634	177	50	8
Transborder	18	6	0	0	12	0	0
Other international	1	0	0	0	1	0	0
Total	951	37	32	634	190	50	8
Ottawa/Macdonald-Cartier International							
Domestic	7,356	5,080	273	1,476	144	241	142
Transborder	1,874	1,728	38	2	84	4	18
Other international	431	422	2	0	2	0	5
Total	9,661	7,230	313	1,478	230	245	165

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	2,021	13	728	446	788	46	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,023	13	728	446	790	46	0
Prince George							
Domestic	1,515	1,128	171	14	123	71	8
Transborder	10	2	0	2	5	0	1
Other international	12	11	0	1	0	0	0
Total	1,537	1,141	171	17	128	71	9
Québec/Jean Lesage International							
Domestic	5,101	2,824	1,413	202	349	292	21
Transborder	397	362	8	2	24	0	1
Other international	296	293	1	1	0	0	1
Total	5,794	3,479	1,422	205	373	292	23
Regina International							
Domestic	2,609	1,758	462	27	149	166	47
Transborder	349	301	6	1	38	0	3
Other international	110	110	0	0	0	0	0
Total	3,068	2,169	468	28	187	166	50
Saskatoon/John G Diefenbaker International							
Domestic	3,805	2,440	668	261	169	219	48
Transborder	250	210	10	3	27	0	0
Other international	85	85	0	0	0	0	0
Total	4,140	2,735	678	264	196	219	48
Sault Ste. Marie							
Domestic	1,568	884	118	481	45	30	10
Transborder	5	0	0	2	3	0	0
Other international	10	8	0	1	1	0	0
Total	1,583	892	118	484	49	30	10
St. John's International							
Domestic	2,483	1,777	579	2	26	71	28
Transborder	132	60	0	1	28	0	43
Other international	140	56	0	5	26	1	52
Total	2,755	1,893	579	8	80	72	123
St-Jean							
Domestic	261	0	76	62	101	0	22
Transborder	1	0	0	0	0	0	1
Other international	0	0	0	0	0	0	0
Total	262	0	76	62	101	0	23
Thunder Bay							
Domestic	4,339	2,819	464	772	177	91	16
Transborder	36	11	5	0	19	0	1
Other international	25	25	0	0	0	0	0
Total	4,400	2,855	469	772	196	91	17
Toronto/Billy Bishop Toronto City							
Domestic	3,044	1,879	436	494	202	18	15
Transborder	1,021	930	23	3	65	0	0
Other international	2	0	1	0	1	0	0
Total	4,067	2,809	460	497	268	18	15
Toronto/Buttonville Municipal							
Domestic	2,587	163	1,337	52	973	60	2
Transborder	127	23	20	8	76	0	0
Other international	4	1	2	0	1	0	0
Total	2,718	187	1,359	60	1,050	60	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	12,939	12,295	326	6	279	19	14
Transborder	13,982	13,097	282	6	597	0	0
Other international	5,048	4,946	59	2	41	0	0
Total	31,969	30,338	667	14	917	19	14
Vancouver Harbour							
Domestic	2,980	2,716	205	11	42	0	6
Transborder	5	4	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,985	2,720	205	11	43	0	6
Vancouver International							
Domestic	15,637	13,659	1,256	79	246	381	16
Transborder	4,012	3,723	28	17	241	1	2
Other international	1,451	1,436	6	6	3	0	0
Total	21,100	18,818	1,290	102	490	382	18
Victoria International							
Domestic	5,231	2,291	1,714	362	646	20	198
Transborder	570	415	15	0	137	0	3
Other international	38	38	0	0	0	0	0
Total	5,839	2,744	1,729	362	783	20	201
Whitehorse International							
Domestic	1,428	840	335	115	77	24	37
Transborder	22	9	3	0	8	0	2
Other international	1	0	0	0	1	0	0
Total	1,451	849	338	115	86	24	39
Windsor							
Domestic	876	396	402	10	60	8	0
Transborder	89	34	14	1	40	0	0
Other international	11	8	0	0	3	0	0
Total	976	438	416	11	103	8	0
Winnipeg/James Armstrong Richardson International							
Domestic	7,755	6,956	238	36	118	161	246
Transborder	1,102	1,001	17	9	60	0	15
Other international	235	234	1	0	0	0	0
Total	9,092	8,191	256	45	178	161	261
Winnipeg/St. Andrews							
Domestic	2,447	454	1,414	453	113	2	11
Transborder	4	2	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,451	456	1,414	453	115	2	11
Yellowknife							
Domestic	2,991	2,486	345	0	51	64	45
Transborder	1	0	0	0	1	0	0
Other international	2	1	0	0	1	0	0
Total	2,994	2,487	345	0	53	64	45
Total of NAV CANADA towers (42)							
Domestic	164,708	106,810	25,583	15,697	11,914	3,380	1,324
Transborder	36,531	32,593	854	141	2,764	16	163
Other international	11,988	11,507	107	42	229	1	102
Total	213,227	150,910	26,544	15,880	14,907	3,397	1,589

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	620	113	195	21	61	24	206
Transborder	6	0	0	0	4	0	2
Other international	0	0	0	0	0	0	0
Total	626	113	195	21	65	24	208
Campbell River							
Domestic	1,131	553	247	98	173	56	4
Transborder	16	0	1	0	15	0	0
Other international	0	0	0	0	0	0	0
Total	1,147	553	248	98	188	56	4
Castlegar							
Domestic	556	238	83	204	21	6	4
Transborder	14	1	0	0	13	0	0
Other international	0	0	0	0	0	0	0
Total	570	239	83	204	34	6	4
Charlottetown							
Domestic	618	503	17	2	25	59	12
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	621	503	17	2	28	59	12
Churchill							
Domestic	946	710	84	21	4	7	120
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	946	710	84	21	4	7	120
Cranbrook							
Domestic	685	523	30	13	100	12	7
Transborder	12	5	0	0	6	0	1
Other international	0	0	0	0	0	0	0
Total	697	528	30	13	106	12	8
Deer Lake							
Domestic	1,045	819	193	11	4	10	8
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,047	819	193	11	6	10	8
Fort Nelson							
Domestic	1,291	466	737	0	49	6	33
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,291	466	737	0	49	6	33
Fort St. John							
Domestic	1,432	806	449	8	136	27	6
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,433	806	449	8	137	27	6
Grande Prairie							
Domestic	1,955	1,165	473	79	204	26	8
Transborder	6	3	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,961	1,168	473	79	207	26	8
High Level							
Domestic	493	314	131	0	33	15	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	493	314	131	0	33	15	0

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
	number						
Îles-de-la-Madeleine							
Domestic	305	204	54	0	6	41	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	305	204	54	0	6	41	0
Inuvik/Mike Zubko							
Domestic	479	396	67	0	0	14	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	479	396	67	0	0	14	2
Iqaluit							
Domestic	1,144	1,000	46	38	24	36	0
Transborder	22	6	9	2	5	0	0
Other international	43	24	0	2	17	0	0
Total	1,209	1,030	55	42	46	36	0
Kamloops							
Domestic	1,394	942	203	28	179	35	7
Transborder	34	3	3	1	27	0	0
Other international	1	1	0	0	0	0	0
Total	1,429	946	206	29	206	35	7
Kenora							
Domestic	701	368	272	2	18	10	31
Transborder	2	0	0	0	1	0	1
Other international	0	0	0	0	0	0	0
Total	703	368	272	2	19	10	32
Kingston							
Domestic	1,003	430	218	168	157	12	18
Transborder	18	8	3	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	1,021	438	221	168	164	12	18
Kuujuuaq							
Domestic	793	724	47	0	2	20	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	793	724	47	0	2	20	0
La Grande Rivière							
Domestic	713	513	101	2	54	10	33
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	713	513	101	2	54	10	33
La Ronge							
Domestic	975	922	3	0	6	44	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	975	922	3	0	6	44	0
Lethbridge							
Domestic	674	388	13	136	109	25	3
Transborder	44	4	3	1	35	0	1
Other international	0	0	0	0	0	0	0
Total	718	392	16	137	144	25	4
Lloydminster							
Domestic	616	178	268	11	142	11	6
Transborder	3	0	1	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	619	178	269	11	144	11	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	743	477	145	16	75	12	18
Transborder	8	0	1	4	3	0	0
Other international	0	0	0	0	0	0	0
Total	751	477	146	20	78	12	18
Mont-Joli							
Domestic	401	298	20	18	43	18	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	401	298	20	18	43	18	4
Montréal/Mirabel International							
Domestic	1,238	602	334	46	243	4	9
Transborder	186	177	0	0	8	0	1
Other international	4	4	0	0	0	0	0
Total	1,428	783	334	46	251	4	10
Nanaimo							
Domestic	1,280	337	464	76	361	36	6
Transborder	17	1	6	0	10	0	0
Other international	4	2	0	2	0	0	0
Total	1,301	340	470	78	371	36	6
Norman Wells							
Domestic	553	477	70	0	2	4	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	553	477	70	0	2	4	0
North Bay							
Domestic	1,332	558	203	297	201	23	50
Transborder	16	4	4	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	1,348	562	207	297	209	23	50
Ottawa/Gatineau							
Domestic	1,010	91	282	152	415	59	11
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,013	91	282	152	418	59	11
Peace River							
Domestic	547	425	76	0	36	10	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	547	425	76	0	36	10	0
Penticton							
Domestic	880	284	398	22	102	16	58
Transborder	11	0	1	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	891	284	399	22	112	16	58
Port Hardy							
Domestic	423	290	19	14	26	57	17
Transborder	2	2	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	425	292	19	14	26	57	17
Prince Albert							
Domestic	1,302	1,129	32	2	59	72	8
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,303	1,129	32	2	60	72	8

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	299	209	54	2	2	32	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	301	209	54	2	4	32	0
Rankin Inlet							
Domestic	814	687	90	19	12	6	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	814	687	90	19	12	6	0
Red Deer Regional							
Domestic	1,149	294	329	105	380	41	0
Transborder	6	2	2	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,155	296	331	105	382	41	0
Rouyn-Noranda							
Domestic	843	603	136	4	66	24	10
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	843	603	136	4	66	24	10
Saint John							
Domestic	852	622	73	20	124	4	9
Transborder	51	3	0	0	48	0	0
Other international	2	0	0	0	2	0	0
Total	905	625	73	20	174	4	9
Sept-Îles							
Domestic	1,894	1,048	516	103	109	108	10
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,897	1,048	516	103	112	108	10
Sioux Lookout							
Domestic	2,114	1,652	396	2	15	49	0
Transborder	3	1	1	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,117	1,653	397	2	16	49	0
Smithers							
Domestic	443	359	62	0	10	10	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	443	359	62	0	10	10	2
St. Catharines							
Domestic	432	3	314	8	97	6	4
Transborder	21	2	6	0	13	0	0
Other international	0	0	0	0	0	0	0
Total	453	5	320	8	110	6	4
Sudbury							
Domestic	1,930	1,383	338	32	117	40	20
Transborder	20	6	4	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	1,950	1,389	342	32	127	40	20
Terrace							
Domestic	764	511	237	3	1	12	0
Transborder	2	1	0	0	1	0	0
Other international	1	1	0	0	0	0	0
Total	767	513	237	3	2	12	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	2,614	2,040	384	0	66	124	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,614	2,040	384	0	66	124	0
Timmins							
Domestic	1,677	1,339	187	2	103	42	4
Transborder	10	1	0	0	9	0	0
Other international	0	0	0	0	0	0	0
Total	1,687	1,340	187	2	112	42	4
Val-d'Or							
Domestic	929	717	79	8	98	25	2
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	930	717	79	8	99	25	2
Victoria Harbour							
Domestic	2,138	1,977	0	2	14	143	2
Transborder	142	141	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,280	2,118	0	2	15	143	2
Wabush							
Domestic	1,022	694	261	3	52	12	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,022	694	261	3	52	12	0
Whitecourt							
Domestic	486	32	278	101	57	16	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	486	32	278	101	57	16	2
Williams Lake							
Domestic	510	398	65	10	21	10	6
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	511	398	65	10	22	10	6
Total of all flight service stations (51)							
Domestic	50,188	31,811	9,773	1,909	4,414	1,521	760
Transborder	689	371	45	8	259	0	6
Other international	55	32	0	4	19	0	0
Total	50,932	32,214	9,818	1,921	4,692	1,521	766

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	14	7,064	21	11	102	2	608
Boundary Bay	12	8,221	18	13	109	1	665
Calgary International	3	17,655	23	18	59	3	758
Calgary/Springbank	11	8,387	2	13	98	2	644
Chicoutimi/St-Honoré	34	2,829	16	10	84	3	249
Edmonton City Centre	27	4,354	4	9	43	2	257
Edmonton International	6	10,436	9	14	48	9	489
Edmonton/Villeneuve	29	4,024	1	16	70	22	306
Fort McMurray	35	2,810	20	12	21	9	151
Fredericton International	24	4,774	27	14	67	27	454
Gander International	37	2,323	5	10	36	5	170
Halifax/Robert L Stanfield International	17	6,211	3	18	36	10	281
Hamilton	36	2,485	10	10	25	10	181
Kelowna	23	5,009	2	15	55	2	303
Kitchener/Waterloo	25	4,702	15	11	68	15	414
Langley	26	4,559	20	13	70	5	344
London	21	5,595	11	10	86	23	601
Moncton/Greater Moncton International	22	5,343	3	20	54	10	418
Montréal/Pierre Elliott Trudeau International	4	16,693	9	18	61	17	683
Montréal/St-Hubert	7	10,007	23	13	128	23	1,070
Oshawa	39	2,147	23	9	44	15	288
Ottawa/Macdonald-Cartier International	5	12,063	3	14	80	23	674
Pitt Meadows	18	6,133	20	14	91	2	528
Prince George	40	1,893	17	14	50	17	120
Québec/Jean Lesage International	10	8,436	13	11	75	23	523
Regina International	28	4,352	12	16	48	12	232
Saskatoon/John G Diefenbaker International	20	5,858	27	16	54	23	423
Sault Ste. Marie	33	2,869	12	16	69	16	314
St. John's International	32	2,943	24	8	27	24	167
St-Jean	41	1,466	5	11	37	5	182
Thunder Bay	15	6,705	9	13	85	9	410
Toronto/Billy Bishop Toronto City	19	5,885	17	19	70	20	366
Toronto/Buttonville Municipal	16	6,448	16	12	134	15	1,024
Toronto/Lester B Pearson International	1	32,059	10	18	96	18	1,335
Vancouver Harbour	31	3,005	2	12	23	25	155
Vancouver International	2	21,124	10	8	67	24	846
Victoria International	9	9,001	2	13	75	2	529
Whitehorse International	38	2,255	18	16	38	10	126
Windsor	42	1,390	7	17	40	7	112
Winnipeg/James Armstrong Richardson International	8	9,978	8	14	45	9	473
Winnipeg/St. Andrews	13	7,439	9	13	91	9	498
Yellowknife	30	3,784	10	11	40	10	211

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	24	1,100	22	19	54	22	156
Campbell River	10	2,047	17	15	40	22	171
Castlegar	39	764	1	11	26	25	62
Charlottetown	41	699	5	13	11	5	44
Churchill	31	946	25	11	10	25	63
Cranbrook	38	777	7	14	22	20	52
Deer Lake	22	1,281	9	14	26	7	102
Fort Nelson	19	1,367	24	11	21	24	89
Fort St. John	15	1,734	7	11	32	8	141
Grande Prairie	1	3,439	16	9	98	10	241
High Level	45	505	1	11	9	2	41
Îles-de-la-Madeleine	50	305	9	13	5	21	18
Inuvik/Mike Zubko	46	491	4	13	7	9	36
Iqaluit	21	1,288	5	10	15	18	81
Kamloops	11	1,997	10	15	37	10	188
Kenora	32	933	10	13	28	9	77
Kingston	13	1,825	22	14	39	22	181
Kuuujuaq	30	981	22	11	21	22	98
La Grande Rivière	40	727	1	12	9	24	41
La Ronge	25	1,095	18	18	19	18	91
Lethbridge	33	908	25	16	21	25	88
Lloydminster	23	1,169	1	14	30	14	97
Medicine Hat	36	821	2	18	14	11	69
Mont-Joli	49	401	15	15	13	15	42
Montréal/Mirabel International	4	2,578	16	11	85	16	354
Nanaimo	17	1,502	5	14	46	1	115
Norman Wells	42	645	28	17	16	21	52
North Bay	2	3,310	9	11	75	22	348
Ottawa/Gatineau	6	2,408	24	10	42	5	195
Peace River	44	571	1	18	10	10	40
Penticton	14	1,815	11	19	43	8	174
Port Hardy	48	433	19	13	8	9	26
Prince Albert	20	1,349	25	10	21	25	108
Prince Rupert	51	303	7	14	7	3	21
Rankin Inlet	37	818	17	13	12	25	75
Red Deer Regional	12	1,913	4	14	54	4	196
Rouyn-Noranda	34	877	1	15	13	22	56
Saint John	26	1,093	16	14	13	16	61
Sept-Îles	9	2,097	15	10	29	25	115
Sioux Lookout	8	2,148	14	17	16	2	121
Smithers	47	445	7	11	7	3	27
St. Catharines	29	1,035	3	16	44	27	128
Sudbury	5	2,554	26	15	48	23	210
Terrace	35	849	10	15	27	10	58
Thompson	3	2,812	6	15	32	6	171
Timmins	16	1,713	21	14	17	22	85
Val-d'Or	28	1,035	27	14	20	22	81
Victoria Harbour	7	2,300	14	8	23	25	138
Wabush	27	1,060	24	13	23	24	65
Whitecourt	18	1,466	2	10	52	1	124
Williams Lake	43	573	25	10	21	25	37

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	27	2,544	2	15	29	2	206
Boundary Bay	17	3,319	25	15	45	19	306
Calgary International	3	17,519	8	18	58	3	758
Calgary/Springbank	19	3,075	21	13	39	21	235
Chicoutimi/St-Honoré	40	939	3	14	16	23	82
Edmonton City Centre	15	3,794	18	14	25	3	209
Edmonton International	5	10,134	23	7	41	9	461
Edmonton/Villeneuve	41	552	6	14	11	12	49
Fort McMurray	25	2,742	3	17	19	9	149
Fredericton International	29	2,390	23	17	20	23	167
Gander International	36	1,497	27	12	18	28	107
Halifax/Robert L Stanfield International	8	5,913	3	18	26	17	264
Hamilton	32	2,011	10	1	13	10	129
Kelowna	16	3,427	2	15	21	2	157
Kitchener/Waterloo	30	2,182	15	10	30	15	238
Langley	33	1,987	9	15	33	9	168
London	23	2,757	23	11	26	23	243
Moncton/Greater Moncton International	18	3,261	11	9	23	4	237
Montréal/Pierre Elliott Trudeau International	4	16,631	9	18	61	17	679
Montréal/St-Hubert	11	4,737	23	15	52	23	424
Oshawa	39	951	15	15	19	15	134
Ottawa/Macdonald-Cartier International	6	9,661	3	14	48	3	460
Pitt Meadows	31	2,023	18	14	29	19	180
Prince George	35	1,537	8	9	12	2	70
Québec/Jean Lesage International	10	5,794	15	14	31	23	317
Regina International	20	3,068	9	15	16	18	148
Saskatoon/John G Diefenbaker International	13	4,140	9	15	27	23	237
Sault Ste. Marie	34	1,583	11	12	15	15	104
St. John's International	24	2,755	4	17	14	4	137
St-Jean	42	262	5	10	7	5	36
Thunder Bay	12	4,400	1	11	26	16	225
Toronto/Billy Bishop Toronto City	14	4,067	20	15	27	15	230
Toronto/Buttonville Municipal	26	2,718	20	15	37	23	331
Toronto/Lester B Pearson International	1	31,969	10	18	96	18	1,303
Vancouver Harbour	22	2,985	15	8	23	25	155
Vancouver International	2	21,100	10	8	67	24	846
Victoria International	9	5,839	20	14	38	9	306
Whitehorse International	37	1,451	5	15	11	25	74
Windsor	38	976	15	16	11	15	75
Winnipeg/James Armstrong Richardson International	7	9,092	9	15	30	9	405
Winnipeg/St. Andrews	28	2,451	10	10	20	24	151
Yellowknife	21	2,994	16	12	22	16	161

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	36	626	14	14	14	22	50
Campbell River	17	1,147	19	15	16	19	84
Castlegar	39	570	19	9	9	20	41
Charlottetown	37	621	11	9	6	16	33
Churchill	23	946	25	11	10	25	63
Cranbrook	35	697	20	15	7	20	44
Deer Lake	18	1,047	7	8	9	9	53
Fort Nelson	14	1,291	8	10	17	8	81
Fort St. John	8	1,433	24	17	15	1	84
Grande Prairie	4	1,961	11	15	16	10	113
High Level	43	493	1	11	9	2	41
Îles-de-la-Madeleine	50	305	9	13	5	21	18
Inuvik/Mike Zubko	45	479	4	13	7	9	36
Iqaluit	15	1,209	21	14	10	10	62
Kamloops	9	1,429	16	12	11	15	70
Kenora	34	703	15	11	10	22	44
Kingston	20	1,021	5	12	12	22	77
Kuujuuaq	29	793	18	17	7	21	45
La Grande Rivière	33	713	2	10	9	24	39
La Ronge	22	975	16	16	9	16	60
Lethbridge	32	718	14	16	8	2	45
Lloydminster	38	619	8	14	7	10	42
Medicine Hat	31	751	2	14	13	11	63
Mont-Joli	49	401	15	15	13	15	42
Montréal/Mirabel International	10	1,428	15	13	18	16	110
Nanaimo	13	1,301	1	14	17	1	105
Norman Wells	40	553	20	14	10	21	42
North Bay	11	1,348	11	14	24	22	106
Ottawa/Gatineau	21	1,013	5	13	16	26	94
Peace River	41	547	11	11	8	17	38
Penticton	26	891	1	11	11	2	64
Port Hardy	48	425	19	13	8	9	26
Prince Albert	12	1,303	3	17	14	23	75
Prince Rupert	51	301	8	15	7	3	21
Rankin Inlet	28	814	17	13	12	25	75
Red Deer Regional	16	1,155	4	14	20	12	89
Rouyn-Noranda	27	843	10	16	8	22	54
Saint John	25	905	22	17	7	17	51
Sept-Îles	6	1,897	24	11	15	24	102
Sioux Lookout	3	2,117	14	17	16	2	113
Smithers	47	443	7	11	7	3	27
St. Catharines	46	453	20	13	15	20	68
Sudbury	5	1,950	25	16	16	1	100
Terrace	30	767	16	10	9	23	45
Thompson	1	2,614	7	15	15	4	139
Timmins	7	1,687	10	10	11	10	84
Val-d'Or	24	930	22	16	10	22	71
Victoria Harbour	2	2,280	14	8	23	25	120
Wabush	19	1,022	22	10	9	16	52
Whitecourt	44	486	23	11	9	1	36
Williams Lake	42	511	14	9	8	22	32

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	5	4,520	21	11	90	2	402
Boundary Bay	4	4,902	18	13	86	1	392
Calgary International	37	136	12	9	16	12	26
Calgary/Springbank	1	5,312	11	9	74	2	450
Chicoutimi/St-Honoré	18	1,890	16	10	78	3	182
Edmonton City Centre	30	560	4	9	34	2	52
Edmonton International	34	302	14	11	24	14	42
Edmonton/Villeneuve	8	3,472	1	16	68	22	294
Fort McMurray	39	68	8	14	12	8	20
Fredericton International	15	2,384	27	14	50	27	316
Gander International	27	826	5	10	28	5	88
Halifax/Robert L Stanfield International	35	298	2	9	14	9	38
Hamilton	31	474	23	12	16	23	56
Kelowna	21	1,582	2	15	34	2	146
Kitchener/Waterloo	13	2,520	11	15	44	16	242
Langley	12	2,572	10	11	48	5	228
London	10	2,838	11	10	72	23	358
Moncton/Greater Moncton International	17	2,082	10	15	38	10	222
Montréal/Pierre Elliott Trudeau International	40	62	13	19	6	13	10
Montréal/St-Hubert	2	5,270	1	9	100	23	646
Oshawa	25	1,196	15	19	34	15	154
Ottawa/Macdonald-Cartier International	14	2,402	20	16	52	23	238
Pitt Meadows	6	4,110	20	14	70	2	380
Prince George	33	356	17	14	48	17	62
Québec/Jean Lesage International	11	2,642	13	11	60	3	220
Regina International	23	1,284	12	16	40	12	126
Saskatoon/John G Diefenbaker International	20	1,718	9	19	42	23	186
Sault Ste. Marie	22	1,286	12	16	62	16	232
St. John's International	36	188	24	8	18	24	34
St-Jean	24	1,204	5	11	34	5	146
Thunder Bay	16	2,305	5	9	66	5	240
Toronto/Billy Bishop Toronto City	19	1,818	17	19	50	5	198
Toronto/Buttonville Municipal	7	3,730	16	12	120	15	694
Toronto/Lester B Pearson International	38	90	18	20	10	18	32
Vancouver Harbour	42	20	2	12	16	2	16
Vancouver International	41	24	27	8	4	18	4
Victoria International	9	3,162	7	10	54	2	258
Whitehorse International	28	804	18	16	32	19	74
Windsor	32	414	7	17	36	7	74
Winnipeg/James Armstrong Richardson International	26	886	27	14	22	9	68
Winnipeg/St. Andrews	3	4,988	9	13	72	9	352
Yellowknife	29	790	6	10	26	10	72

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	14	474	22	19	46	22	106
Campbell River	7	900	22	15	32	22	122
Castlegar	21	194	1	11	22	25	30
Charlottetown	31	78	27	10	10	5	18
Churchill	0	0	0	0	0	0	0
Cranbrook	29	80	7	14	20	7	20
Deer Lake	16	234	7	11	22	7	52
Fort Nelson	32	76	11	12	12	20	20
Fort St. John	15	301	7	11	24	8	59
Grande Prairie	2	1,478	16	9	90	11	148
High Level	43	12	19	10	4	19	4
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	44	12	13	19	6	13	8
Iqaluit	30	79	5	10	14	5	26
Kamloops	12	568	10	15	32	10	120
Kenora	17	230	10	13	28	9	38
Kingston	8	804	22	14	30	22	104
Kuuujuaq	24	188	22	11	18	22	56
La Grande Rivière	42	14	1	12	8	1	8
La Ronge	25	120	18	18	16	18	38
Lethbridge	22	190	8	13	18	8	50
Lloydminster	13	550	1	14	26	14	60
Medicine Hat	33	70	2	18	12	8	20
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	4	1,150	16	11	72	16	244
Nanaimo	18	201	5	14	34	5	50
Norman Wells	27	92	28	17	12	22	18
North Bay	1	1,962	9	11	62	22	242
Ottawa/Gatineau	3	1,395	24	10	34	5	112
Peace River	40	24	1	18	8	3	10
Penticton	6	924	11	19	40	8	120
Port Hardy	45	8	27	14	4	27	4
Prince Albert	35	46	25	10	16	25	40
Prince Rupert	48	2	7	14	2	7	2
Rankin Inlet	46	4	12	20	4	12	4
Red Deer Regional	9	758	4	14	34	4	112
Rouyn-Noranda	37	34	1	15	8	1	8
Saint John	23	188	27	10	10	5	28
Sept-Îles	19	200	15	10	22	15	26
Sioux Lookout	38	31	24	21	10	24	12
Smithers	47	2	7	15	2	7	2
St. Catharines	11	582	3	16	36	27	106
Sudbury	10	604	26	15	42	23	114
Terrace	28	82	10	15	22	10	22
Thompson	20	198	6	13	20	6	94
Timmins	39	26	21	14	10	23	12
Val-d'Or	26	105	27	14	16	27	42
Victoria Harbour	41	20	25	9	8	25	18
Wabush	36	38	24	13	22	24	22
Whitecourt	5	980	2	10	48	1	88
Williams Lake	34	62	25	10	18	25	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	5	4,520	21	11	90	2	402
Boundary Bay	4	4,902	18	13	86	1	392
Calgary International	37	136	12	9	16	12	26
Calgary/Springbank	1	5,312	11	9	74	2	450
Chicoutimi/St-Honoré	18	1,882	16	10	78	3	182
Edmonton City Centre	30	560	4	9	34	2	52
Edmonton International	35	298	14	11	24	14	42
Edmonton/Villeneuve	8	3,472	1	16	68	22	294
Fort McMurray	39	64	8	14	12	8	20
Fredericton International	15	2,384	27	14	50	27	316
Gander International	27	826	5	10	28	5	88
Halifax/Robert L Stanfield International	34	298	2	9	14	9	38
Hamilton	31	474	23	12	16	23	56
Kelowna	21	1,582	2	15	34	2	146
Kitchener/Waterloo	13	2,520	11	15	44	16	242
Langley	12	2,572	10	11	48	5	228
London	10	2,836	11	10	72	23	358
Moncton/Greater Moncton International	17	2,080	10	15	38	10	222
Montréal/Pierre Elliott Trudeau International	40	62	13	19	6	13	10
Montréal/St-Hubert	2	5,270	1	9	100	23	646
Oshawa	24	1,196	15	19	34	15	154
Ottawa/Macdonald-Cartier International	14	2,400	20	16	52	23	238
Pitt Meadows	6	4,110	20	14	70	2	380
Prince George	33	356	17	14	48	17	62
Québec/Jean Lesage International	11	2,636	13	11	60	3	220
Regina International	25	1,056	12	16	40	12	126
Saskatoon/John G Diefenbaker International	20	1,658	9	19	42	23	186
Sault Ste. Marie	22	1,286	12	16	62	16	232
St. John's International	36	188	24	8	18	24	34
St-Jean	23	1,204	5	11	34	5	146
Thunder Bay	16	2,305	5	9	66	5	240
Toronto/Billy Bishop Toronto City	19	1,818	17	19	50	5	198
Toronto/Buttonville Municipal	7	3,730	16	12	120	15	694
Toronto/Lester B Pearson International	38	90	18	20	10	18	32
Vancouver Harbour	42	20	2	12	16	2	16
Vancouver International	41	24	27	8	4	18	4
Victoria International	9	3,126	7	10	54	2	258
Whitehorse International	28	794	18	16	32	19	74
Windsor	32	414	7	17	36	7	74
Winnipeg/James Armstrong Richardson International	26	884	27	14	22	9	68
Winnipeg/St. Andrews	3	4,988	9	13	72	9	352
Yellowknife	29	790	6	10	26	10	72

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	14	430	22	19	46	22	106
Campbell River	7	899	22	15	32	22	122
Castlegar	20	194	1	11	22	25	30
Charlottetown	31	78	27	10	10	5	18
Churchill	0	0	0	0	0	0	0
Cranbrook	29	80	7	14	20	7	20
Deer Lake	16	234	7	11	22	7	52
Fort Nelson	32	76	11	12	12	20	20
Fort St. John	15	301	7	11	24	8	59
Grande Prairie	2	1,478	16	9	90	11	148
High Level	44	12	19	10	4	19	4
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	43	12	13	19	6	13	8
Iqaluit	30	79	5	10	14	5	26
Kamloops	13	542	10	15	32	10	120
Kenora	26	104	2	13	16	14	30
Kingston	8	802	22	14	30	22	104
Kuuujuaq	22	188	22	11	18	22	56
La Grande Rivière	42	14	1	12	8	1	8
La Ronge	24	120	18	18	16	18	38
Lethbridge	21	190	8	13	18	8	50
Lloydminster	12	550	1	14	26	14	60
Medicine Hat	33	70	2	18	12	8	20
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	4	1,144	16	11	72	16	244
Nanaimo	17	201	5	14	34	5	50
Norman Wells	27	92	28	17	12	22	18
North Bay	1	1,960	9	11	62	22	242
Ottawa/Gatineau	3	1,395	24	10	34	5	112
Peace River	40	24	1	18	8	3	10
Penticton	6	924	11	19	40	8	120
Port Hardy	45	8	27	14	4	27	4
Prince Albert	35	46	25	10	16	25	40
Prince Rupert	48	2	7	14	2	7	2
Rankin Inlet	46	4	12	20	4	12	4
Red Deer Regional	9	758	4	14	34	4	112
Rouyn-Noranda	37	34	1	15	8	1	8
Saint John	23	186	27	10	10	5	28
Sept-Îles	18	200	15	10	22	15	26
Sioux Lookout	38	31	24	21	10	24	12
Smithers	47	2	7	15	2	7	2
St. Catharines	11	582	3	16	36	27	106
Sudbury	10	604	26	15	42	23	114
Terrace	28	82	10	15	22	10	22
Thompson	19	198	6	13	20	6	94
Timmins	39	26	21	14	10	23	12
Val-d'Or	25	105	27	14	16	27	42
Victoria Harbour	41	20	25	9	8	25	18
Wabush	36	38	24	13	22	24	22
Whitecourt	5	980	2	10	48	1	88
Williams Lake	34	62	25	10	18	25	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	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	5	8	22	11	8	22	8
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	8	4	8	14	2	8	2
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	7	4	9	10	2	9	2
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	11	2	20	15	2	20	2
Moncton/Greater Moncton International	10	2	23	11	2	23	2
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	9	2	24	18	2	24	2
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	6	6	1	14	2	1	4
Regina International	1	228	4	13	10	8	28
Saskatoon/John G Diefenbaker International	2	60	7	11	6	14	12
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	3	36	11	15	16	11	24
Whitehorse International	4	10	25	15	4	25	8
Windsor	0	0	0	0	0	0	0
Winnipeg/James Armstrong Richardson International	12	2	10	16	2	10	2
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	0	0	0	0	0	0	0

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	2	44	21	15	10	7	12
Campbell River	8	1	11	12	1	11	1
Castlegar	0	0	0	0	0	0	0
Charlottetown	0	0	0	0	0	0	0
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	3	26	15	11	12	15	20
Kenora	1	126	10	13	24	9	38
Kingston	6	2	11	9	2	11	2
Kuujuuaq	0	0	0	0	0	0	0
La Grande Rivière	0	0	0	0	0	0	0
La Ronge	0	0	0	0	0	0	0
Lethbridge	0	0	0	0	0	0	0
Lloydminster	0	0	0	0	0	0	0
Medicine Hat	0	0	0	0	0	0	0
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	4	6	10	12	6	10	6
Nanaimo	0	0	0	0	0	0	0
Norman Wells	0	0	0	0	0	0	0
North Bay	5	2	2	11	2	2	2
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	7	2	23	10	2	23	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, 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

Significant winter storms continued to affect the northeastern United States and eastern Canada in February forcing flight delays and cancellations.

Significant winter storms struck the northeastern United States, Atlantic Canada and Britain in both December and January forcing flight delays and cancellations.

Effective November 1, 2010 Jazz Air LP (Jazz), partnering with Thomas Cook Canada Inc., will operate flights to various sun destinations in the Caribbean, Mexico and Central America from Toronto, Ottawa, Montreal and Halifax between November to April.

Effective September 2010, the Calgary Airport Authority no longer permits anyone with a student pilot permit to take off or land at the Calgary International Airport. This has resulted in increased training flights at the nearby Calgary/Springbank airport.

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.

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.