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



January 2010



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Statistics Canada
Transportation Division

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

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

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Highlights

- Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations increased by 7.2% in January compared with January 2009. These airports reported 388,346 movements in January 2010 compared with 362,228 movements in January 2009.
- Itinerant movements (flights from one airport to another) increased 5.0% (+13,661 movements) in January 2010 compared with the same month a year earlier.
- Local movements (flights that remain in the vicinity of the airport) increased by 14.0% (+12,457 movements) in January 2010 over the previous year.

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

	NAV CANADA towers		NAV CANADA Flight Service Stations		Total	
	number	Change from January 2010/ January 2009	number	Change from January 2010/ January 2009	number	Change from January 2010/ January 2009
Grand total	319,773	10.5	68,573	-5.8	388,346	7.2
Itinerant movements						
Air carriers	191,035	4.9	40,680	-8.6	231,715	2.2
Other commercial movements	20,729	22.8	2,620	19.3	23,349	22.4
Private movements	18,347	28.4	5,386	19.8	23,733	26.4
Government civil movements	3,582	0.0	1,496	4.2	5,078	1.2
Government military movements	2,193	-11.0	584	-43.1	2,777	-20.5
Itinerant total	235,886	7.6	50,766	-5.4	286,652	5.0
Local movements						
Civil local movements	82,752	19.6	17,579	-6.6	100,331	14.0
Military local movements	1,135	21.7	228	-25.7	1,363	9.9
Local total	83,887	19.6	17,807	-6.9	101,694	14.0

Analysis

Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations increased by 7.2% in January 2010 compared with January 2009. These airports reported 388,346 movements in January 2010 compared with 362,228 movements in January 2009.

Itinerant movements (flights from one airport to another) increased 5.0% (+13,661 movements) in January 2010 compared with the same month a year earlier.

Local movements (flights that remain in the vicinity of the airport) increased by 14.0% (+12,457 movements) in January 2010 over the previous year.

Airports with NAV CANADA air traffic control towers

The 42 Canadian airports with NAV CANADA air traffic control towers reported 319,773 aircraft take-offs and landings in January 2010 up 10.5% (+30,346 movements) compared with January 2009. Year-over-year increases in aircraft movements were reported by 29 of these airports in January 2010. The variations ranged from an increase of 145.4% at Pitt Meadows, British Columbia to a decline of 28.0% at Oshawa, Ontario.

Itinerant movements (flights from one airport to another) increased 7.6% (+16,576 movements) in January 2010 compared with the same month a year earlier. Year-over-year variations in itinerant movements ranged from a 200.4% increase (+2,233 movements) at Pitt Meadows, British Columbia to a decline of 20.2% (-270 movements) at Windsor, Ontario.

Local movements (flights that remain in the vicinity of the airport) rose by 13,770 movements (+19.6%) in January 2010 compared with January 2009. Thunder Bay, Ontario recorded the largest gain in local movements, increasing by 2,740 movements (+115.3%) while London, Ontario reported the largest decline with 2,106 fewer movements (-34.6%) compared with the previous year.

The Flight Service Station at Fredericton International, New Brunswick closed effective January 2010 and re-opened as an Air Traffic Control Tower. Fredericton reported 8,898 movements in January 2010 compared with 6,308 movements reported for the Flight Service Station in January 2009, up 41.1%.

Airports with NAV CANADA flight service stations

The 51 Canadian airports with NAV CANADA flight service stations reported 68,573 aircraft take-offs and landings in January 2010 down 5.8% (-4,228 movements) compared with January 2009. Year-over-year increases in aircraft movements were reported by 26 of these airports in January 2010. The variations ranged from a 90.3% increase (+353 movements) at Castlegar, British Columbia to a decline of 30.8% (-1,061 movements) at North Bay, Ontario.

Itinerant movements (flights from one airport to another) decreased by 5.4% (-2,915 movements) in January 2010 compared with the same month a year earlier. Year-over-year variations in itinerant movements ranged from a 74.1% increase (+700 movements) at Nanaimo, British Columbia to a decline of 22.8% (-143 movements) at Peace River, Alberta.

Local movements (flights that remain in the vicinity of the airport) recorded in January 2010 decreased by 6.9% (-1,313 movements) compared with the same month a year earlier. Penticton, British Columbia recorded the largest gain in local movements, increasing by 960 movements (+110.9%) compared with January 2009. North Bay, Ontario recorded the largest decline in local movements, dropping 894 movements (-44.3%) compared with January 2009.

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
401-0014	Aircraft movements, by class of operation and peak hour and peak day of movements, airports with NAV CANADA flight service stations, monthly
401-0015	Aircraft movements, by civil and military movements, airports with NAV CANADA flight service stations, monthly
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401-0038	Annual itinerant movements, by weight group and type of power plant, airports without air traffic control towers

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	12	9,477	16	4,325	4	5,152
Boundary Bay	13	9,434	19	4,195	3	5,239
Calgary International	3	18,452	3	18,389	38	63
Calgary/Springbank	7	10,852	15	4,566	1	6,286
Chicoutimi/St-Honoré	40	1,446	42	572	25	874
Edmonton City Centre	25	5,099	17	4,243	26	856
Edmonton International	8	10,838	5	10,623	37	215
Edmonton/Villeneuve	29	3,973	38	1,199	13	2,774
Fort McMurray	32	3,572	26	3,119	29	453
Fredericton International	14	8,898	20	4,142	6	4,756
Gander International	36	2,795	34	1,823	24	972
Halifax/Robert L Stanfield International	21	6,315	9	6,081	36	234
Hamilton	37	2,733	32	2,437	34	296
Kelowna	24	5,606	22	3,742	18	1,864
Kitchener/Waterloo	26	4,928	31	2,478	14	2,450
Langley	27	4,619	33	2,312	15	2,307
London	16	8,018	21	4,038	10	3,980
Moncton/Greater Moncton International	9	10,513	10	5,794	7	4,719
Montréal/Pierre Elliott Trudeau International	4	17,119	4	17,119	0	0
Montréal/St-Hubert	15	8,535	12	5,330	11	3,205
Oshawa	35	2,805	37	1,226	21	1,579
Ottawa/Macdonald-Cartier International	6	11,243	6	9,656	20	1,587
Pitt Meadows	17	7,514	23	3,347	9	4,167
Prince George	38	1,815	36	1,531	35	284
Québec/Jean Lesage International	19	6,806	11	5,504	22	1,302
Regina International	28	4,241	24	3,151	23	1,090
Saskatoon/John G Diefenbaker International	20	6,745	14	4,817	17	1,928
Sault Ste. Marie	30	3,688	35	1,551	16	2,137
St. John's International	33	3,362	27	2,987	31	375
St-Jean	42	918	41	582	32	336
Thunder Bay	10	10,192	13	5,076	5	5,116
Toronto/Buttonville Municipal	22	6,071	25	3,132	12	2,939
Toronto/City Centre	23	5,936	18	4,230	19	1,706
Toronto/Lester B Pearson International	1	33,586	1	33,586	0	0
Vancouver Harbour	34	2,951	29	2,951	0	0
Vancouver International	2	22,702	2	22,702	0	0
Victoria International	5	12,706	8	6,438	2	6,268
Whitehorse International	41	1,071	40	751	33	320
Windsor	39	1,540	39	1,066	28	474
Winnipeg/James Armstrong Richardson International	11	9,962	7	9,587	30	375
Winnipeg/St. Andrews	18	7,121	30	2,525	8	4,596
Yellowknife	31	3,576	28	2,963	27	613
Total of NAV CANADA towers (42)	.	319,773	.	235,886	.	83,887

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	25	1,088	36	632	16	456
Campbell River	21	1,343	21	933	17	410
Castlegar	38	744	47	444	19	300
Charlottetown	26	1,032	26	864	23	168
Churchill	42	640	37	632	47	8
Cranbrook	27	1,032	28	832	21	200
Deer Lake	16	1,678	17	1,144	12	534
Fort Nelson	30	952	22	932	40	20
Fort St John	14	1,864	10	1,390	15	474
Grande Prairie	2	2,807	5	1,985	8	822
High Level	48	442	48	424	41	18
Îles-de-la-Madeleine	49	350	49	336	43	14
Inuvik/Mike Zubko	43	595	39	585	45	10
Iqaluit	29	969	19	941	36	28
Kamloops	11	2,213	9	1,477	9	736
Kenora	34	814	34	674	24	140
Kingston	5	2,656	11	1,384	4	1,272
Kuujuuaq	37	747	32	723	37	24
La Grande Rivière	41	673	35	669	48	4
La Ronge	28	977	23	929	31	48
Lethbridge	20	1,453	24	923	13	530
Lloydminster	33	861	43	491	18	370
Medicine Hat	22	1,337	29	821	14	516
Mont-Joli	50	336	50	318	42	18
Montréal/Mirabel International	7	2,588	12	1,360	5	1,228
Nanaimo	12	2,179	7	1,645	11	534
Norman Wells	44	594	40	556	33	38
North Bay	8	2,381	15	1,259	6	1,122
Ottawa/Gatineau	4	2,693	20	933	2	1,760
Peace River	46	506	44	484	39	22
Penticton	1	2,931	18	1,105	1	1,826
Port Hardy	45	521	45	479	32	42
Prince Albert	23	1,286	16	1,222	28	64
Prince Rupert	51	247	51	233	44	14
Rankin Inlet	35	775	30	773	49	2
Red Deer Regional	3	2,779	13	1,357	3	1,422
Rouyn-Noranda	32	914	27	846	27	68
Saint John	19	1,458	14	1,264	22	194
Sept-Îles	17	1,603	8	1,581	38	22
Sioux Lookout	13	2,069	4	2,021	30	48
Smithers	47	480	46	470	46	10
St Catharines	24	1,238	42	522	10	716
Sudbury	9	2,339	3	2,122	20	217
Terrace	36	765	33	691	26	74
Thompson	6	2,627	1	2,593	34	34
Timmins	15	1,785	6	1,751	35	34
Val-d'Or	31	951	25	887	29	64
Victoria Harbour	10	2,253	2	2,253	0	0
Wabush	39	741	31	741	0	0
Whitecourt	18	1,589	41	537	7	1,052
Williams Lake	40	678	38	598	25	80
Total of all flight service stations (51)	.	68,573	.	50,766	.	17,807

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

	Civil movements			Military movements			
	Total	Itinerant		Civil	Total	Itinerant	Military
		Commercial	Private and government				
	number						
Abbotsford	9,405	3,401	858	5,146	72	66	6
Boundary Bay	9,430	3,220	971	5,239	4	4	0
Calgary International	18,419	16,928	1,429	62	33	32	1
Calgary/Springbank	10,846	3,519	1,045	6,282	6	2	4
Chicoutimi/St-Honoré	1,446	520	52	874	0	0	0
Edmonton City Centre	5,095	3,104	1,135	856	4	4	0
Edmonton International	10,794	10,102	487	205	44	34	10
Edmonton/Villeneuve	3,973	987	212	2,774	0	0	0
Fort McMurray	3,571	2,624	494	453	1	1	0
Fredericton International	8,754	3,982	104	4,668	144	56	88
Gander International	2,468	1,427	171	870	327	225	102
Halifax/Robert L Stanfield International	6,137	5,691	256	190	178	134	44
Hamilton	2,733	2,075	362	296	0	0	0
Kelowna	5,598	3,334	400	1,864	8	8	0
Kitchener/Waterloo	4,925	1,957	521	2,447	3	0	3
Langley	4,619	1,454	858	2,307	0	0	0
London	8,010	3,421	609	3,980	8	8	0
Moncton/Greater Moncton International	10,475	5,495	265	4,715	38	34	4
Montréal/Pierre Elliott Trudeau International	17,020	15,971	1,049	0	99	99	0
Montréal/St-Hubert	8,515	4,480	830	3,205	20	20	0
Oshawa	2,796	872	345	1,579	9	9	0
Ottawa/Macdonald-Cartier International	11,107	8,983	542	1,582	136	131	5
Pitt Meadows	7,506	2,369	970	4,167	8	8	0
Prince George	1,807	1,313	210	284	8	8	0
Québec/Jean Lesage International	6,704	4,701	701	1,302	102	102	0
Regina International	4,136	2,753	315	1,068	105	83	22
Saskatoon/John G Diefenbaker International	6,658	4,136	614	1,908	87	67	20
Sault Ste. Marie	3,682	1,444	101	2,137	6	6	0
St. John's International	3,148	2,607	168	373	214	212	2
St-Jean	918	389	193	336	0	0	0
Thunder Bay	10,143	4,818	231	5,094	49	27	22
Toronto/Buttonville Municipal	6,070	2,100	1,032	2,938	1	0	1
Toronto/City Centre	5,921	3,952	263	1,706	15	15	0
Toronto/Lester B Pearson International	33,576	32,523	1,053	0	10	10	0
Vancouver Harbour	2,938	2,915	23	0	13	13	0
Vancouver International	22,572	21,510	1,062	0	130	130	0
Victoria International	11,942	5,163	1,052	5,727	764	223	541
Whitehorse International	1,065	664	81	320	6	6	0
Windsor	1,538	917	147	474	2	2	0
Winnipeg/James Armstrong Richardson International	9,562	8,839	418	305	400	330	70
Winnipeg/St. Andrews	7,115	2,351	168	4,596	6	6	0
Yellowknife	3,308	2,753	132	423	268	78	190
Total of NAV CANADA towers (42)	316,445	211,764	21,929	82,752	3,328	2,193	1,135

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

	Civil movements				Military movements		
	Total	Itinerant		Civil	Total	Itinerant	Military
		Commercial	Private and government				
	number						
Brandon Municipal	904	323	155	426	184	154	30
Campbell River	1,335	757	168	410	8	8	0
Castlegar	743	419	24	300	1	1	0
Charlottetown	982	711	127	144	50	26	24
Churchill	624	610	14	0	16	8	8
Cranbrook	1,024	667	157	200	8	8	0
Deer Lake	1,670	1,112	24	534	8	8	0
Fort Nelson	928	846	62	20	24	24	0
Fort St John	1,864	1,249	141	474	0	0	0
Grande Prairie	2,807	1,708	277	822	0	0	0
High Level	442	402	22	18	0	0	0
Îles-de-la-Madeleine	346	290	42	14	4	4	0
Inuvik/Mike Zubko	593	551	32	10	2	2	0
Iqaluit	953	867	58	28	16	16	0
Kamloops	2,190	1,193	261	736	23	23	0
Kenora	712	622	32	58	102	20	82
Kingston	2,644	1,045	327	1,272	12	12	0
Kuujuuaq	743	699	20	24	4	4	0
La Grande Rivière	673	640	29	4	0	0	0
La Ronge	977	863	66	48	0	0	0
Lethbridge	1,441	682	229	530	12	12	0
Lloydminster	855	337	148	370	6	6	0
Medicine Hat	1,321	680	131	510	16	10	6
Mont-Joli	334	279	37	18	2	2	0
Montréal/Mirabel International	2,509	1,029	302	1,178	79	29	50
Nanaimo	2,177	1,085	558	534	2	2	0
Norman Wells	590	532	20	38	4	4	0
North Bay	2,349	1,001	226	1,122	32	32	0
Ottawa/Gatineau	2,687	523	404	1,760	6	6	0
Peace River	504	451	31	22	2	2	0
Penticton	2,869	821	222	1,826	62	62	0
Port Hardy	480	371	91	18	41	17	24
Prince Albert	1,280	1,091	129	60	6	2	4
Prince Rupert	247	223	10	14	0	0	0
Rankin Inlet	769	765	2	2	6	6	0
Red Deer Regional	2,775	826	527	1,422	4	4	0
Rouyn-Noranda	914	732	114	68	0	0	0
Saint John	1,432	1,015	223	194	26	26	0
Sept-Îles	1,593	1,418	153	22	10	10	0
Sioux Lookout	2,069	1,983	38	48	0	0	0
Smithers	480	446	24	10	0	0	0
St Catharines	1,228	377	135	716	10	10	0
Sudbury	2,337	1,883	237	217	2	2	0
Terrace	765	678	13	74	0	0	0
Thompson	2,622	2,387	201	34	5	5	0
Timmins	1,783	1,628	121	34	2	2	0
Val-d'Or	949	784	101	64	2	2	0
Victoria Harbour	2,244	1,967	277	0	9	9	0
Wabush	739	729	10	0	2	2	0
Whitecourt	1,589	499	38	1,052	0	0	0
Williams Lake	676	504	92	80	2	2	0
Total of all flight service stations (51)	67,761	43,300	6,882	17,579	812	584	228

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	4,325	586	2,281	534	723	135	66
Boundary Bay	4,195	19	948	2,253	932	39	4
Calgary International	18,389	15,749	952	227	1,301	128	32
Calgary/Springbank	4,566	16	498	3,005	1,033	12	2
Chicoutimi/St-Honoré	572	13	372	135	47	5	0
Edmonton City Centre	4,243	1,251	469	1,384	823	312	4
Edmonton International	10,623	9,513	412	177	456	31	34
Edmonton/Villeneuve	1,199	4	197	786	204	8	0
Fort McMurray	3,119	2,115	417	92	464	30	1
Fredericton International	4,142	749	3,231	2	63	41	56
Gander International	1,823	604	785	38	150	21	225
Halifax/Robert L. Stanfield International	6,081	5,246	426	19	224	32	134
Hamilton	2,437	1,734	287	54	300	62	0
Kelowna	3,742	2,657	419	258	349	51	8
Kitchener/Waterloo	2,478	277	1,562	118	504	17	0
Langley	2,312	77	347	1,030	837	21	0
London	4,038	1,252	623	1,546	570	39	8
Moncton/Greater Moncton International	5,794	1,521	3,974	0	110	155	34
Montréal/Pierre Elliott Trudeau International	17,119	15,213	631	127	925	124	99
Montréal/St-Hubert	5,330	2,559	744	1,177	767	63	20
Oshawa	1,226	7	99	766	289	56	9
Ottawa/Macdonald-Cartier International	9,656	7,275	424	1,284	205	337	131
Pitt Meadows	3,347	19	1,562	788	940	30	8
Prince George	1,531	1,150	161	2	157	53	8
Québec/Jean Lesage International	5,504	3,693	866	142	463	238	102
Regina International	3,151	2,170	550	33	190	125	83
Saskatoon/John G. Diefenbaker International	4,817	3,095	771	270	328	286	67
Sault Ste. Marie	1,551	834	113	497	79	22	6
St. John's International	2,987	1,861	668	78	85	83	212
St-Jean	582	148	130	111	183	10	0
Thunder Bay	5,076	2,715	869	1,234	135	96	27
Toronto/Buttonville Municipal	3,132	278	1,752	70	996	36	0
Toronto/City Centre	4,230	2,430	808	714	241	22	15
Toronto/Lester B. Pearson International	33,586	31,973	450	100	1,043	10	10
Vancouver Harbour	2,951	2,420	332	163	20	3	13
Vancouver International	22,702	20,009	1,284	217	643	419	130
Victoria International	6,438	2,884	1,741	538	991	61	223
Whitehorse International	751	554	90	20	53	28	6
Windsor	1,066	446	442	29	147	0	2
Winnipeg/James Armstrong Richardson International	9,587	8,231	582	26	181	237	330
Winnipeg/St. Andrews	2,525	396	1,272	683	165	3	6
Yellowknife	2,963	2,636	115	2	31	101	78
Total of NAV CANADA towers (42)	235,886	156,379	34,656	20,729	18,347	3,582	2,193

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	632	112	177	34	132	23	154
Campbell River	933	543	164	50	139	29	8
Castlegar	444	199	121	99	24	0	1
Charlottetown	864	572	67	72	69	58	26
Churchill	632	604	4	2	0	14	8
Cranbrook	832	601	57	9	153	4	8
Deer Lake	1,144	913	197	2	7	17	8
Fort Nelson	932	422	208	216	58	4	24
Fort St John	1,390	787	356	106	133	8	0
Grande Prairie	1,985	1,115	469	124	198	79	0
High Level	424	171	229	2	22	0	0
Îles-de-la-Madeleine	336	208	78	4	10	32	4
Inuvik/Mike Zubko	585	491	30	30	2	30	2
Iqaluit	941	805	38	24	26	32	16
Kamloops	1,477	1,036	152	5	199	62	23
Kenora	674	323	295	4	24	8	20
Kingston	1,384	473	273	299	303	24	12
Kuujuuaq	723	670	12	17	2	18	4
La Grande Rivière	669	474	155	11	17	12	0
La Ronge	929	811	40	12	11	55	0
Lethbridge	923	403	32	247	220	9	12
Lloydminster	491	120	193	24	133	15	6
Medicine Hat	821	547	107	26	123	8	10
Mont-Joli	318	261	10	8	25	12	2
Montréal/Mirabel International	1,360	733	230	66	300	2	29
Nanaimo	1,645	405	555	125	510	48	2
Norman Wells	556	496	36	0	6	14	4
North Bay	1,259	504	410	87	191	35	32
Ottawa/Gatineau	933	90	239	194	337	67	6
Peace River	484	331	114	6	19	12	2
Penticton	1,105	290	497	34	211	11	62
Port Hardy	479	353	16	2	23	68	17
Prince Albert	1,222	1,011	47	33	57	72	2
Prince Rupert	233	195	4	24	2	8	0
Rankin Inlet	773	763	0	2	0	2	6
Red Deer Regional	1,357	206	484	136	508	19	4
Rouyn-Noranda	846	590	140	2	86	28	0
Saint John	1,264	693	292	30	217	6	26
Sept-Îles	1,581	1,127	287	4	77	76	10
Sioux Lookout	2,021	1,380	601	2	12	26	0
Smithers	470	409	37	0	12	12	0
St Catharines	522	6	278	93	127	8	10
Sudbury	2,122	1,329	456	98	177	60	2
Terrace	691	530	143	5	1	12	0
Thompson	2,593	2,136	208	43	36	165	5
Timmins	1,751	1,228	390	10	84	37	2
Val-d'Or	887	730	53	1	79	22	2
Victoria Harbour	2,253	1,896	58	13	176	101	9
Wabush	741	608	119	2	6	4	2
Whitecourt	537	16	306	177	28	10	0
Williams Lake	598	445	55	4	74	18	2
Total of all flight service stations (51)	50,766	31,161	9,519	2,620	5,386	1,496	584

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	4,325	1,213	28.0	3,112	71.9	1,038
Boundary Bay	4,195	545	12.9	3,650	87.0	392
Calgary International	18,389	17,541	95.3	848	4.6	552
Calgary/Springbank	4,566	304	6.6	4,262	93.3	1,766
Chicoutimi/St-Honoré	572	89	15.5	483	84.4	23
Edmonton City Centre	4,243	2,089	49.2	2,154	50.7	908
Edmonton International	10,623	10,205	96.0	418	3.9	542
Edmonton/Villeneuve	1,199	31	2.5	1,168	97.4	112
Fort McMurray	3,119	2,140	68.6	979	31.3	66
Fredericton International	4,142	1,122	27.0	3,020	72.9	76
Gander International	1,823	1,172	64.2	651	35.7	52
Halifax/Robert L. Stanfield International	6,081	5,691	93.5	390	6.4	151
Hamilton	2,437	2,059	84.4	378	15.5	357
Kelowna	3,742	2,609	69.7	1,133	30.2	442
Kitchener/Waterloo	2,478	636	25.6	1,842	74.3	208
Langley	2,312	50	2.1	2,262	97.8	475
London	4,038	1,581	39.1	2,457	60.8	285
Moncton/Greater Moncton International	5,794	2,363	40.7	3,431	59.2	103
Montréal/Pierre Elliott Trudeau International	17,119	16,857	98.4	262	1.5	479
Montréal/St-Hubert	5,330	1,068	20.0	4,262	79.9	378
Oshawa	1,226	63	5.1	1,163	94.8	320
Ottawa/Macdonald-Cartier International	9,656	7,954	82.3	1,702	17.6	304
Pitt Meadows	3,347	51	1.5	3,296	98.4	1,071
Prince George	1,531	1,250	81.6	281	18.3	79
Québec/Jean Lesage International	5,504	4,279	77.7	1,225	22.2	438
Regina International	3,151	2,490	79.0	661	20.9	49
Saskatoon/John G. Diefenbaker International	4,817	3,631	75.3	1,186	24.6	91
Sault Ste. Marie	1,551	998	64.3	553	35.6	62
St. John's International	2,987	2,779	93.0	208	6.9	13
St-Jean	582	237	40.7	345	59.2	149
Thunder Bay	5,076	3,336	65.7	1,740	34.2	119
Toronto/Buttonville Municipal	3,132	486	15.5	2,646	84.4	385
Toronto/City Centre	4,230	2,774	65.5	1,456	34.4	758
Toronto/Lester B. Pearson International	33,586	33,547	99.8	39	0.1	20
Vancouver Harbour	2,951	184	6.2	2,767	93.7	1,146
Vancouver International	22,702	18,858	83.0	3,844	16.9	6,557
Victoria International	6,438	3,544	55.0	2,894	44.9	2,776
Whitehorse International	751	494	65.7	257	34.2	52
Windsor	1,066	642	60.2	424	39.7	20
Winnipeg/James Armstrong Richardson International	9,587	8,799	91.7	788	8.2	129
Winnipeg/St. Andrews	2,525	142	5.6	2,383	94.3	18
Yellowknife	2,963	2,066	69.7	897	30.2	50
Total of NAV CANADA towers (42)	235,886	167,969	71.2	67,917	28.8	23,011

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	632	201	31.8	431	68.1	8
Campbell River	933	537	57.5	396	42.4	86
Castlegar	444	192	43.2	252	56.7	47
Charlottetown	864	661	76.5	203	23.4	12
Churchill	632	619	97.9	13	2.0	0
Cranbrook	832	664	79.8	168	20.1	63
Deer Lake	1,144	1,080	94.4	64	5.5	5
Fort Nelson	932	501	53.7	431	46.2	69
Fort St John	1,390	859	61.7	531	38.2	46
Grande Prairie	1,985	1,331	67.0	654	32.9	67
High Level	424	258	60.8	166	39.1	38
Îles-de-la-Madeleine	336	272	80.9	64	19.0	62
Inuvik/Mike Zubko	585	262	44.7	323	55.2	5
Iqaluit	941	852	90.5	89	9.4	0
Kamloops	1,477	1,133	76.7	344	23.2	153
Kenora	674	403	59.7	271	40.2	186
Kingston	1,384	602	43.4	782	56.5	117
Kuujuuaq	723	378	52.2	345	47.7	0
La Grande Rivière	669	464	69.3	205	30.6	142
La Ronge	929	576	62.0	353	37.9	159
Lethbridge	923	510	55.2	413	44.7	15
Lloydminster	491	195	39.7	296	60.2	28
Medicine Hat	821	373	45.4	448	54.5	159
Mont-Joli	318	280	88.0	38	11.9	14
Montréal/Mirabel International	1,360	982	72.2	378	27.7	361
Nanaimo	1,645	689	41.8	956	58.1	445
Norman Wells	556	147	26.4	409	73.5	14
North Bay	1,259	668	53.0	591	46.9	204
Ottawa/Gatineau	933	152	16.2	781	83.7	48
Peace River	484	334	69.0	150	30.9	37
Penticton	1,105	251	22.7	854	77.2	67
Port Hardy	479	213	44.4	266	55.5	107
Prince Albert	1,222	1,110	90.8	112	9.1	20
Prince Rupert	233	198	84.9	35	15.0	7
Rankin Inlet	773	738	95.4	35	4.5	0
Red Deer Regional	1,357	344	25.3	1,013	74.6	292
Rouyn-Noranda	846	780	92.1	66	7.8	4
Saint John	1,264	895	70.8	369	29.1	20
Sept-Îles	1,581	1,342	84.8	239	15.1	157
Sioux Lookout	2,021	1,629	80.6	392	19.3	167
Smithers	470	401	85.3	69	14.6	140
St Catharines	522	32	6.1	490	93.8	93
Sudbury	2,122	1,742	82.0	380	17.9	32
Terrace	691	535	77.4	156	22.5	73
Thompson	2,593	1,815	69.9	778	30.0	57
Timmins	1,751	1,621	92.5	130	7.4	32
Val-d'Or	887	785	88.5	102	11.4	63
Victoria Harbour	2,253	191	8.4	2,062	91.5	532
Wabush	741	652	87.9	89	12.0	66
Whitecourt	537	42	7.8	495	92.1	37
Williams Lake	598	499	83.4	99	16.5	115
Total of all flight service stations (51)	50,766	31,990	63.0	18,776	37.0	4,671

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	4,325	525	169	2,731	900	0
Boundary Bay	4,195	4	67	3,832	290	2
Calgary International	18,389	12,722	4,585	592	489	1
Calgary/Springbank	4,566	30	49	3,954	533	0
Chicoutimi/St-Honoré	572	7	62	314	189	0
Edmonton City Centre	4,243	438	1,586	1,769	450	0
Edmonton International	10,623	6,720	3,400	483	19	1
Edmonton/Villeneuve	1,199	13	28	962	196	0
Fort McMurray	3,119	1,150	1,111	531	327	0
Fredericton International	4,142	255	664	3,145	78	0
Gander International	1,823	616	478	565	164	0
Halifax/Robert L. Stanfield International	6,081	3,393	2,080	360	248	0
Hamilton	2,437	1,206	778	376	77	0
Kelowna	3,742	1,751	860	811	319	1
Kitchener/Waterloo	2,478	143	293	1,904	138	0
Langley	2,312	0	18	1,716	577	1
London	4,038	481	1,035	2,440	82	0
Moncton/Greater Moncton International	5,794	869	908	3,972	45	0
Montréal/Pierre Elliott Trudeau International	17,119	11,848	4,825	334	112	0
Montréal/St-Hubert	5,330	184	689	4,215	241	1
Oshawa	1,226	4	21	1,112	89	0
Ottawa/Macdonald-Cartier International	9,656	5,605	2,377	1,487	187	0
Pitt Meadows	3,347	0	43	3,006	297	1
Prince George	1,531	522	763	125	121	0
Québec/Jean Lesage International	5,504	1,514	2,621	876	493	0
Regina International	3,151	1,746	563	822	20	0
Saskatoon/John G. Diefenbaker International	4,817	2,038	1,508	1,262	9	0
Sault Ste. Marie	1,551	26	971	548	6	0
St. John's International	2,987	1,102	1,490	33	362	0
St-Jean	582	8	54	489	25	6
Thunder Bay	5,076	763	2,623	1,375	315	0
Toronto/Buttonville Municipal	3,132	85	327	2,332	388	0
Toronto/City Centre	4,230	6	2,733	1,176	315	0
Toronto/Lester B. Pearson International	33,586	28,162	5,309	105	10	0
Vancouver Harbour	2,951	0	1,013	1,223	715	0
Vancouver International	22,702	11,697	7,275	2,701	1,029	0
Victoria International	6,438	1,096	2,003	2,976	362	1
Whitehorse International	751	295	280	128	48	0
Windsor	1,066	68	592	386	20	0
Winnipeg/James Armstrong Richardson International	9,587	4,853	3,875	829	28	2
Winnipeg/St. Andrews	2,525	0	337	2,100	84	4
Yellowknife	2,963	826	1,826	236	75	0
Total of NAV CANADA towers (42)	235,886	102,771	62,289	60,333	10,472	21

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	632	14	251	336	31	0
Campbell River	933	5	555	192	181	0
Castlegar	444	6	203	95	140	0
Charlottetown	864	237	331	242	54	0
Churchill	632	4	620	4	4	0
Cranbrook	832	73	555	181	23	0
Deer Lake	1,144	214	862	12	56	0
Fort Nelson	932	66	417	92	357	0
Fort St John	1,390	239	625	235	291	0
Grande Prairie	1,985	212	1,023	405	345	0
High Level	424	3	281	80	60	0
Îles-de-la-Madeleine	336	5	224	107	0	0
Inuvik/Mike Zubko	585	96	426	3	60	0
Iqaluit	941	290	633	0	18	0
Kamloops	1,477	191	950	170	166	0
Kenora	674	2	408	127	137	0
Kingston	1,384	29	566	736	53	0
Kuujuuaq	723	128	569	16	10	0
La Grande Rivière	669	16	555	92	6	0
La Ronge	929	2	747	165	15	0
Lethbridge	923	38	445	418	22	0
Lloydminster	491	10	145	310	26	0
Medicine Hat	821	18	458	270	75	0
Mont-Joli	318	8	263	38	9	0
Montréal/Mirabel International	1,360	566	332	251	211	0
Nanaimo	1,645	20	433	1,156	36	0
Norman Wells	556	124	284	113	35	0
North Bay	1,259	10	619	160	470	0
Ottawa/Gatineau	933	2	134	645	152	0
Peace River	484	2	316	102	64	0
Penticton	1,105	8	311	441	345	0
Port Hardy	479	4	353	62	60	0
Prince Albert	1,222	8	1,099	110	5	0
Prince Rupert	233	8	195	0	30	0
Rankin Inlet	773	136	635	2	0	0
Red Deer Regional	1,357	34	303	977	43	0
Rouyn-Noranda	846	80	726	32	6	2
Saint John	1,264	302	495	431	36	0
Sept-Îles	1,581	51	1,175	232	120	3
Sioux Lookout	2,021	0	1,804	188	29	0
Smithers	470	14	413	12	31	0
St Catharines	522	4	12	450	56	0
Sudbury	2,122	32	1,659	201	230	0
Terrace	691	18	527	2	144	0
Thompson	2,593	20	2,127	237	209	0
Timmins	1,751	6	1,590	112	43	0
Val-d'Or	887	98	683	84	22	0
Victoria Harbour	2,253	0	1,067	456	730	0
Wabush	741	8	639	19	75	0
Whitecourt	537	6	24	74	433	0
Williams Lake	598	26	469	62	41	0
Total of all flight service stations (51)	50,766	3,493	30,536	10,937	5,795	5

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	2,987	546	214	25	29	11	451	30	14	18
Boundary Bay	3,581	536	73	1	4	0	0	0	0	0
Calgary International	736	421	1,206	1,819	1,074	3,946	7,475	673	221	818
Calgary/Springbank	4,146	286	107	23	4	0	0	0	0	0
Chicoutimi/St-Honoré	424	79	62	5	2	0	0	0	0	0
Edmonton City Centre	1,971	317	1,241	561	118	35	0	0	0	0
Edmonton International	313	273	583	1,020	501	2,433	4,814	300	172	214
Edmonton/Villeneuve	1,091	66	42	0	0	0	0	0	0	0
Fort McMurray	635	391	299	503	81	681	527	0	2	0
Fredericton International	3,078	108	284	20	358	248	38	4	2	2
Gander International	561	3	69	366	236	248	63	74	19	184
Halifax/Robert L Stanfield International	172	199	287	888	782	1,487	1,692	254	202	118
Hamilton	360	426	196	292	126	38	408	5	503	83
Kelowna	1,000	131	307	425	50	720	1,092	3	12	2
Kitchener/Waterloo	1,850	212	275	31	28	11	71	0	0	0
Langley	2,183	122	4	1	2	0	0	0	0	0
London	2,439	188	222	49	510	441	171	18	0	0
Moncton/Greater Moncton International	3,845	157	391	359	80	328	368	0	266	0
Montréal/Pierre Elliott Trudeau International	255	136	426	698	2,605	5,135	4,842	1,809	8	1,205
Montréal/St-Hubert	4,002	437	574	167	137	7	6	0	0	0
Oshawa	1,113	65	44	2	0	0	0	0	2	0
Ottawa/Macdonald-Cartier International	1,537	144	809	152	551	2,818	2,862	489	40	254
Pitt Meadows	3,157	106	72	0	12	0	0	0	0	0
Prince George	210	66	215	501	8	343	188	0	0	0
Québec/Jean Lesage International	1,062	262	636	292	1,011	1,330	798	10	0	103
Regina International	663	202	285	292	25	775	766	2	124	17
Saskatoon/John G Diefenbaker International	1,022	305	650	563	152	1,257	728	2	122	16
Sault Ste. Marie	524	102	504	67	211	133	10	0	0	0
St. John's International	25	15	250	561	748	346	756	183	76	27
St-Jean	400	120	58	4	0	0	0	0	0	0
Thunder Bay	1,430	209	2,152	318	24	464	470	5	4	0
Toronto/Buttonville Municipal	2,583	199	230	59	40	19	2	0	0	0
Toronto/City Centre	1,172	98	578	37	3	2,342	0	0	0	0
Toronto/Lester B Pearson International	61	131	309	2,123	3,181	7,118	12,825	4,077	640	3,121
Vancouver Harbour	56	1,886	888	3	116	0	0	2	0	0
Vancouver International	860	2,938	1,096	2,238	1,398	4,865	5,783	877	461	2,186
Victoria International	2,349	972	221	293	712	1,208	608	41	32	2
Whitehorse International	150	72	105	53	8	230	131	2	0	0
Windsor	340	248	57	55	289	61	10	4	2	0
Winnipeg/James Armstrong Richardson International	561	344	2,683	388	708	1,521	2,376	203	741	62
Winnipeg/St. Andrews	1,972	456	81	14	2	0	0	0	0	0
Yellowknife	107	401	699	162	168	770	605	51	0	0
Total of NAV CANADA towers (42)	56,983	14,375	19,484	15,430	16,094	41,369	50,936	9,118	3,665	8,432

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	320	39	195	14	22	0	0	42	0	0
Campbell River	260	61	55	450	97	8	2	0	0	0
Castlegar	198	36	37	36	45	92	0	0	0	0
Charlottetown	154	142	40	150	106	208	62	2	0	0
Churchill	4	4	92	120	160	240	4	8	0	0
Cranbrook	151	53	59	332	87	148	2	0	0	0
Deer Lake	58	2	27	309	539	140	69	0	0	0
Fort Nelson	383	66	120	221	117	7	18	0	0	0
Fort St John	480	49	249	280	132	198	2	0	0	0
Grande Prairie	550	205	412	226	173	243	176	0	0	0
High Level	74	71	147	130	2	0	0	0	0	0
Îles-de-la-Madeleine	2	105	58	2	154	11	4	0	0	0
Inuvik/Mike Zubko	33	20	404	0	0	30	96	2	0	0
Iqaluit	0	2	190	50	156	295	186	12	0	50
Kamloops	229	63	190	233	149	491	122	0	0	0
Kenora	135	27	492	7	6	1	0	6	0	0
Kingston	740	28	131	374	94	15	0	2	0	0
Kuujuuaq	7	17	433	2	95	55	95	3	1	15
La Grande Rivière	15	87	127	6	90	332	12	0	0	0
La Ronge	51	129	385	123	165	76	0	0	0	0
Lethbridge	387	57	109	306	57	5	2	0	0	0
Lloydminster	294	44	70	83	0	0	0	0	0	0
Medicine Hat	266	87	173	285	8	2	0	0	0	0
Mont-Joli	21	24	62	69	132	10	0	0	0	0
Montréal/Mirabel International	346	167	54	99	28	227	51	0	271	117
Nanaimo	673	503	90	25	53	299	2	0	0	0
Norman Wells	74	131	189	6	0	32	122	2	0	0
North Bay	555	155	277	40	167	63	2	0	0	0
Ottawa/Gatineau	755	34	74	70	0	0	0	0	0	0
Peace River	73	87	282	32	10	0	0	0	0	0
Penticton	740	44	49	102	4	166	0	0	0	0
Port Hardy	15	98	154	62	137	3	10	0	0	0
Prince Albert	47	70	193	367	220	325	0	0	0	0
Prince Rupert	0	30	10	18	56	119	0	0	0	0
Rankin Inlet	2	0	212	155	171	89	136	8	0	0
Red Deer Regional	904	119	137	171	3	23	0	0	0	0
Rouyn-Noranda	40	2	378	12	192	172	50	0	0	0
Saint John	330	122	107	230	185	274	14	2	0	0
Sept-Îles	163	191	409	277	374	147	16	4	0	0
Stouffville	71	164	1,208	578	0	0	0	0	0	0
Smithers	37	10	55	190	73	103	2	0	0	0
St Catharines	468	37	13	0	0	4	0	0	0	0
Sudbury	235	236	1,190	92	169	188	12	0	0	0
Terrace	133	13	99	147	130	169	0	0	0	0
Thompson	245	375	1,305	29	175	463	0	1	0	0
Timmins	87	181	867	76	402	138	0	0	0	0
Vai-d'Or	100	17	278	4	298	116	33	0	2	39
Victoria Harbour	17	1,249	886	2	99	0	0	0	0	0
Wabush	75	17	173	184	286	6	0	0	0	0
Whitecourt	470	28	25	10	4	0	0	0	0	0
Williams Lake	84	17	53	438	4	2	0	0	0	0
Total of all flight service stations (51)	11,551	5,515	13,024	7,224	5,826	5,735	1,302	94	274	221

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	4,250	567	2,271	533	688	131	60
Transborder	46	2	6	1	34	0	3
Other international	29	17	4	0	1	4	3
Total	4,325	586	2,281	534	723	135	66
Boundary Bay							
Domestic	4,157	19	942	2,240	914	38	4
Transborder	33	0	5	11	17	0	0
Other international	5	0	1	2	1	1	0
Total	4,195	19	948	2,253	932	39	4
Calgary International							
Domestic	14,339	12,105	827	220	1,033	128	26
Transborder	3,318	2,945	108	7	258	0	0
Other international	732	699	17	0	10	0	6
Total	18,389	15,749	952	227	1,301	128	32
Calgary/Springbank							
Domestic	4,521	16	495	2,999	997	12	2
Transborder	29	0	1	0	28	0	0
Other international	16	0	2	6	8	0	0
Total	4,566	16	498	3,005	1,033	12	2
Chicoutimi/St-Honoré							
Domestic	571	13	371	135	47	5	0
Transborder	1	0	1	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	572	13	372	135	47	5	0
Edmonton City Centre							
Domestic	4,151	1,221	456	1,374	785	311	4
Transborder	58	28	7	0	23	0	0
Other international	34	2	6	10	15	1	0
Total	4,243	1,251	469	1,384	823	312	4
Edmonton International							
Domestic	8,879	7,873	383	170	388	31	34
Transborder	1,439	1,365	15	4	55	0	0
Other international	305	275	14	3	13	0	0
Total	10,623	9,513	412	177	456	31	34
Edmonton/Villeneuve							
Domestic	1,194	4	197	784	201	8	0
Transborder	2	0	0	0	2	0	0
Other international	3	0	0	2	1	0	0
Total	1,199	4	197	786	204	8	0
Fort McMurray							
Domestic	3,011	2,063	371	87	459	30	1
Transborder	1	1	0	0	0	0	0
Other international	107	51	46	5	5	0	0
Total	3,119	2,115	417	92	464	30	1
Fredericton International							
Domestic	4,136	747	3,230	2	60	41	56
Transborder	3	2	0	0	1	0	0
Other international	3	0	1	0	2	0	0
Total	4,142	749	3,231	2	63	41	56
Gander International							
Domestic	1,275	350	781	2	12	21	109
Transborder	175	45	0	12	64	0	54
Other international	373	209	4	24	74	0	62
Total	1,823	604	785	38	150	21	225

Table 7-1 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Halifax/Robert L Stanfield International							
Domestic	5,196	4,481	410	18	143	32	112
Transborder	674	599	5	1	59	0	10
Other international	211	166	11	0	22	0	12
Total	6,081	5,246	426	19	224	32	134
Hamilton							
Domestic	1,871	1,276	270	50	221	54	0
Transborder	522	422	14	2	76	8	0
Other international	44	36	3	2	3	0	0
Total	2,437	1,734	287	54	300	62	0
Kelowna							
Domestic	3,403	2,401	405	257	281	51	8
Transborder	283	206	8	1	68	0	0
Other international	56	50	6	0	0	0	0
Total	3,742	2,657	419	258	349	51	8
Kitchener/Waterloo							
Domestic	2,333	252	1,528	116	421	16	0
Transborder	134	16	34	2	81	1	0
Other international	11	9	0	0	2	0	0
Total	2,478	277	1,562	118	504	17	0
Langley							
Domestic	2,307	77	346	1,029	834	21	0
Transborder	4	0	1	1	2	0	0
Other international	1	0	0	0	1	0	0
Total	2,312	77	347	1,030	837	21	0
London							
Domestic	3,642	916	615	1,542	524	37	8
Transborder	361	310	5	3	41	2	0
Other international	35	26	3	1	5	0	0
Total	4,038	1,252	623	1,546	570	39	8
Moncton/Greater Moncton International							
Domestic	5,704	1,446	3,973	0	100	155	30
Transborder	82	67	1	0	10	0	4
Other international	8	8	0	0	0	0	0
Total	5,794	1,521	3,974	0	110	155	34
Montréal/Pierre Elliott Trudeau International							
Domestic	8,756	7,485	483	66	541	124	57
Transborder	5,851	5,337	117	41	349	0	7
Other international	2,512	2,391	31	20	35	0	35
Total	17,119	15,213	631	127	925	124	99
Montréal/St-Hubert							
Domestic	5,203	2,547	738	1,172	663	63	20
Transborder	114	11	4	1	98	0	0
Other international	13	1	2	4	6	0	0
Total	5,330	2,559	744	1,177	767	63	20
Oshawa							
Domestic	1,214	7	98	762	282	56	9
Transborder	8	0	0	3	5	0	0
Other international	4	0	1	1	2	0	0
Total	1,226	7	99	766	289	56	9
Ottawa/Macdonald-Cartier International							
Domestic	7,246	4,989	386	1,282	146	329	114
Transborder	1,908	1,805	30	2	56	8	7
Other international	502	481	8	0	3	0	10
Total	9,656	7,275	424	1,284	205	337	131

Table 7-1 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Pitt Meadows							
Domestic	3,339	19	1,560	788	936	28	8
Transborder	4	0	1	0	3	0	0
Other international	4	0	1	0	1	2	0
Total	3,347	19	1,562	788	940	30	8
Prince George							
Domestic	1,514	1,140	161	2	150	53	8
Transborder	7	0	0	0	7	0	0
Other international	10	10	0	0	0	0	0
Total	1,531	1,150	161	2	157	53	8
Québec/Jean Lesage International							
Domestic	4,717	3,043	794	140	422	238	80
Transborder	436	378	8	2	41	0	7
Other international	351	272	64	0	0	0	15
Total	5,504	3,693	866	142	463	238	102
Regina International							
Domestic	2,669	1,763	517	33	151	123	82
Transborder	312	264	7	0	38	2	1
Other international	170	143	26	0	1	0	0
Total	3,151	2,170	550	33	190	125	83
Saskatoon/John G Diefenbaker International							
Domestic	4,333	2,649	759	270	302	286	67
Transborder	356	323	7	0	26	0	0
Other international	128	123	5	0	0	0	0
Total	4,817	3,095	771	270	328	286	67
Sault Ste. Marie							
Domestic	1,531	828	113	497	65	22	6
Transborder	14	0	0	0	14	0	0
Other international	6	6	0	0	0	0	0
Total	1,551	834	113	497	79	22	6
St. John's International							
Domestic	2,616	1,729	662	72	35	80	38
Transborder	196	82	0	2	23	0	89
Other international	175	50	6	4	27	3	85
Total	2,987	1,861	668	78	85	83	212
St-Jean							
Domestic	580	147	130	111	182	10	0
Transborder	2	1	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	582	148	130	111	183	10	0
Thunder Bay							
Domestic	4,967	2,635	865	1,230	116	96	25
Transborder	92	66	1	4	19	0	2
Other international	17	14	3	0	0	0	0
Total	5,076	2,715	869	1,234	135	96	27
Toronto/Buttonville Municipal							
Domestic	2,975	243	1,740	64	892	36	0
Transborder	156	34	12	6	104	0	0
Other international	1	1	0	0	0	0	0
Total	3,132	278	1,752	70	996	36	0
Toronto/City Centre							
Domestic	3,338	1,634	795	711	163	22	13
Transborder	882	793	10	2	77	0	0
Other international	10	3	3	1	1	0	2
Total	4,230	2,430	808	714	241	22	15

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	13,720	13,068	245	52	337	10	8
Transborder	14,621	13,769	151	45	655	0	1
Other international	5,245	5,136	54	3	51	0	1
Total	33,586	31,973	450	100	1,043	10	10
Vancouver Harbour							
Domestic	2,943	2,419	330	163	18	3	10
Transborder	2	0	0	0	2	0	0
Other international	6	1	2	0	0	0	3
Total	2,951	2,420	332	163	20	3	13
Vancouver International							
Domestic	16,891	14,535	1,259	201	397	385	114
Transborder	4,305	4,058	17	11	216	2	1
Other international	1,506	1,416	8	5	30	32	15
Total	22,702	20,009	1,284	217	643	419	130
Victoria International							
Domestic	5,807	2,386	1,718	538	890	61	214
Transborder	578	465	16	0	95	0	2
Other international	53	33	7	0	6	0	7
Total	6,438	2,884	1,741	538	991	61	223
Whitehorse International							
Domestic	741	552	90	20	47	28	4
Transborder	7	1	0	0	4	0	2
Other international	3	1	0	0	2	0	0
Total	751	554	90	20	53	28	6
Windsor							
Domestic	996	423	420	25	128	0	0
Transborder	54	9	20	4	19	0	2
Other international	16	14	2	0	0	0	0
Total	1,066	446	442	29	147	0	2
Winnipeg/James Armstrong Richardson International							
Domestic	8,251	6,994	569	19	114	235	320
Transborder	1,067	968	13	7	67	2	10
Other international	269	269	0	0	0	0	0
Total	9,587	8,231	582	26	181	237	330
Winnipeg/St. Andrews							
Domestic	2,518	396	1,269	682	162	3	6
Transborder	5	0	2	0	3	0	0
Other international	2	0	1	1	0	0	0
Total	2,525	396	1,272	683	165	3	6
Yellowknife							
Domestic	2,874	2,573	98	2	27	101	73
Transborder	5	4	0	0	1	0	0
Other international	84	59	17	0	3	0	5
Total	2,963	2,636	115	2	31	101	78
Total of NAV CANADA towers (42)							
Domestic	184,679	110,031	33,670	20,460	15,274	3,514	1,730
Transborder	38,147	34,376	627	175	2,742	25	202
Other international	13,060	11,972	359	94	331	43	261
Total	235,886	156,379	34,656	20,729	18,347	3,582	2,193

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	626	112	177	34	130	23	150
Transborder	6	0	0	0	2	0	4
Other international	0	0	0	0	0	0	0
Total	632	112	177	34	132	23	154
Campbell River							
Domestic	928	543	163	50	135	29	8
Transborder	5	0	1	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	933	543	164	50	139	29	8
Castlegar							
Domestic	438	195	121	99	22	0	1
Transborder	6	4	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	444	199	121	99	24	0	1
Charlottetown							
Domestic	856	571	67	72	62	58	26
Transborder	7	0	0	0	7	0	0
Other international	1	1	0	0	0	0	0
Total	864	572	67	72	69	58	26
Churchill							
Domestic	632	604	4	2	0	14	8
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	632	604	4	2	0	14	8
Cranbrook							
Domestic	787	572	55	9	139	4	8
Transborder	45	29	2	0	14	0	0
Other international	0	0	0	0	0	0	0
Total	832	601	57	9	153	4	8
Deer Lake							
Domestic	1,143	912	197	2	7	17	8
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,144	913	197	2	7	17	8
Fort Nelson							
Domestic	932	422	208	216	58	4	24
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	932	422	208	216	58	4	24
Fort St John							
Domestic	1,390	787	356	106	133	8	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,390	787	356	106	133	8	0
Grande Prairie							
Domestic	1,984	1,115	469	124	197	79	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,985	1,115	469	124	198	79	0
High Level							
Domestic	424	171	229	2	22	0	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	424	171	229	2	22	0	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	336	208	78	4	10	32	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	336	208	78	4	10	32	4
Inuvik/Mike Zubko							
Domestic	585	491	30	30	2	30	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	585	491	30	30	2	30	2
Iqaluit							
Domestic	911	796	36	17	14	32	16
Transborder	9	3	0	4	2	0	0
Other international	21	6	2	3	10	0	0
Total	941	805	38	24	26	32	16
Kamloops							
Domestic	1,432	1,032	148	5	163	62	22
Transborder	45	4	4	0	36	0	1
Other international	0	0	0	0	0	0	0
Total	1,477	1,036	152	5	199	62	23
Kenora							
Domestic	667	323	295	4	20	8	17
Transborder	7	0	0	0	4	0	3
Other international	0	0	0	0	0	0	0
Total	674	323	295	4	24	8	20
Kingston							
Domestic	1,371	473	269	299	294	24	12
Transborder	13	0	4	0	9	0	0
Other international	0	0	0	0	0	0	0
Total	1,384	473	273	299	303	24	12
Kuujuuaq							
Domestic	720	668	12	16	2	18	4
Transborder	1	1	0	0	0	0	0
Other international	2	1	0	1	0	0	0
Total	723	670	12	17	2	18	4
La Grande Rivière							
Domestic	669	474	155	11	17	12	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	669	474	155	11	17	12	0
La Ronge							
Domestic	929	811	40	12	11	55	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	929	811	40	12	11	55	0
Lethbridge							
Domestic	881	402	32	246	181	9	11
Transborder	42	1	0	1	39	0	1
Other international	0	0	0	0	0	0	0
Total	923	403	32	247	220	9	12
Lloydminster							
Domestic	488	120	193	24	130	15	6
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	491	120	193	24	133	15	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	816	547	107	26	118	8	10
Transborder	5	0	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	821	547	107	26	123	8	10
Mont-Joli							
Domestic	318	261	10	8	25	12	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	318	261	10	8	25	12	2
Montréal/Mirabel International							
Domestic	1,205	592	230	64	288	2	29
Transborder	151	139	0	0	12	0	0
Other international	4	2	0	2	0	0	0
Total	1,360	733	230	66	300	2	29
Nanaimo							
Domestic	1,636	405	552	125	504	48	2
Transborder	9	0	3	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	1,645	405	555	125	510	48	2
Norman Wells							
Domestic	556	496	36	0	6	14	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	556	496	36	0	6	14	4
North Bay							
Domestic	1,247	504	408	87	181	35	32
Transborder	12	0	2	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	1,259	504	410	87	191	35	32
Ottawa/Gatineau							
Domestic	931	90	238	194	336	67	6
Transborder	2	0	1	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	933	90	239	194	337	67	6
Peace River							
Domestic	483	330	114	6	19	12	2
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	484	331	114	6	19	12	2
Penticton							
Domestic	1,102	290	497	34	208	11	62
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,105	290	497	34	211	11	62
Port Hardy							
Domestic	475	353	16	2	20	68	16
Transborder	4	0	0	0	3	0	1
Other international	0	0	0	0	0	0	0
Total	479	353	16	2	23	68	17
Prince Albert							
Domestic	1,222	1,011	47	33	57	72	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,222	1,011	47	33	57	72	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								
Prince Rupert								
Domestic	233	195	4	24	2	8	0	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	233	195	4	24	2	8	0	
Rankin Inlet								
Domestic	773	763	0	2	0	2	6	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	773	763	0	2	0	2	6	
Red Deer Regional								
Domestic	1,353	206	482	136	506	19	4	
Transborder	4	0	2	0	2	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,357	206	484	136	508	19	4	
Rouyn-Noranda								
Domestic	846	590	140	2	86	28	0	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	846	590	140	2	86	28	0	
Saint John								
Domestic	1,190	691	290	30	147	6	26	
Transborder	64	1	2	0	61	0	0	
Other international	10	1	0	0	9	0	0	
Total	1,264	693	292	30	217	6	26	
Sept-Îles								
Domestic	1,578	1,127	287	3	75	76	10	
Transborder	3	0	0	1	2	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,581	1,127	287	4	77	76	10	
Sioux Lookout								
Domestic	2,019	1,380	600	2	11	26	0	
Transborder	2	0	1	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,021	1,380	601	2	12	26	0	
Smithers								
Domestic	470	409	37	0	12	12	0	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	470	409	37	0	12	12	0	
St Catharines								
Domestic	507	6	276	93	114	8	10	
Transborder	15	0	2	0	13	0	0	
Other international	0	0	0	0	0	0	0	
Total	522	6	278	93	127	8	10	
Sudbury								
Domestic	2,115	1,329	454	98	172	60	2	
Transborder	7	0	2	0	5	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,122	1,329	456	98	177	60	2	
Terrace								
Domestic	691	530	143	5	1	12	0	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	691	530	143	5	1	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	2,593	2,136	208	43	36	165	5	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,593	2,136	208	43	36	165	5	
Timmins								
Domestic	1,747	1,228	390	10	80	37	2	
Transborder	4	0	0	0	4	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,751	1,228	390	10	84	37	2	
Val-d'Or								
Domestic	887	730	53	1	79	22	2	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	887	730	53	1	79	22	2	
Victoria Harbour								
Domestic	2,083	1,894	58	13	8	101	9	
Transborder	170	2	0	0	168	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,253	1,896	58	13	176	101	9	
Wabush								
Domestic	741	608	119	2	6	4	2	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	741	608	119	2	6	4	2	
Whitecourt								
Domestic	537	16	306	177	28	10	0	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	537	16	306	177	28	10	0	
Williams Lake								
Domestic	598	445	55	4	74	18	2	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	598	445	55	4	74	18	2	
Total of all flight service stations (51)								
Domestic	50,081	30,964	9,491	2,608	4,948	1,496	574	
Transborder	647	186	26	6	419	0	10	
Other international	38	11	2	6	19	0	0	
Total	50,766	31,161	9,519	2,620	5,386	1,496	584	

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	12	9,477	28	9	100	21	614
Boundary Bay	13	9,434	16	13	106	27	644
Calgary International	3	18,452	28	17	63	14	752
Calgary/Springbank	7	10,852	8	13	118	16	706
Chicoutimi/St-Honoré	40	1,446	19	14	54	19	211
Edmonton City Centre	25	5,099	15	15	51	7	302
Edmonton International	8	10,838	20	8	48	28	487
Edmonton/Villeneuve	29	3,973	15	15	72	9	303
Fort McMurray	32	3,572	21	13	28	12	184
Fredericton International	14	8,898	11	11	62	11	612
Gander International	36	2,795	21	15	56	25	296
Halifax/Robert L. Stanfield International	21	6,315	8	15	44	4	265
Hamilton	37	2,733	12	12	35	21	183
Kelowna	24	5,606	20	9	57	20	312
Kitchener/Waterloo	26	4,928	20	16	76	20	569
Langley	27	4,619	27	14	75	27	350
London	16	8,018	20	12	86	20	720
Moncton/Greater Moncton International	9	10,513	27	13	71	27	736
Montréal/Pierre Elliott Trudeau International	4	17,119	14	18	58	21	669
Montréal/St-Hubert	15	8,535	20	15	178	23	885
Oshawa	35	2,805	7	11	78	7	356
Ottawa/Macdonald-Cartier International	6	11,243	31	14	76	22	536
Pitt Meadows	17	7,514	21	12	166	16	587
Prince George	38	1,815	26	10	43	7	148
Québec/Jean Lesage International	19	6,806	21	13	68	21	444
Regina International	28	4,241	10	15	47	30	245
Saskatoon/John G. Diefenbaker International	20	6,745	12	16	61	12	419
Sault Ste. Marie	30	3,688	30	9	109	30	522
St. John's International	33	3,362	18	14	30	25	196
St-Jean	42	918	23	15	37	23	141
Thunder Bay	10	10,192	10	14	88	22	745
Toronto/Buttonville Municipal	22	6,071	12	16	92	12	644
Toronto/City Centre	23	5,936	30	16	61	30	412
Toronto/Lester B. Pearson International	1	33,586	18	16	94	29	1,219
Vancouver Harbour	34	2,951	20	15	25	20	149
Vancouver International	2	22,702	28	8	71	27	880
Victoria International	5	12,706	7	12	132	7	770
Whitehorse International	41	1,071	26	15	29	15	69
Windsor	39	1,540	3	13	37	20	95
Winnipeg/James Armstrong Richardson International	11	9,962	12	18	41	12	412
Winnipeg/St. Andrews	18	7,121	21	16	77	13	510
Yellowknife	31	3,576	6	14	44	6	197

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	25	1,088	19	16	33	12	113
Campbell River	21	1,343	7	12	28	21	148
Castlegar	38	744	30	14	41	30	84
Charlottetown	26	1,032	18	14	19	31	81
Churchill	42	640	27	16	12	27	43
Cranbrook	27	1,032	23	13	20	23	102
Deer Lake	16	1,678	23	16	38	13	131
Fort Nelson	30	952	19	14	13	14	72
Fort St John	14	1,864	26	9	25	26	127
Grande Prairie	2	2,807	8	16	51	8	199
High Level	48	442	25	16	8	25	35
Îles-de-la-Madeleine	49	350	19	13	16	19	32
Inuvik/Mike Zubko	43	595	30	18	12	29	35
Iqaluit	29	969	22	15	12	22	62
Kamloops	11	2,213	13	11	34	26	189
Kenora	34	814	5	12	27	5	80
Kingston	5	2,656	23	18	43	23	257
Kuujuuaq	37	747	23	11	9	14	37
La Grande Rivière	41	673	2	14	7	19	47
La Ronge	28	977	4	17	12	27	76
Lethbridge	20	1,453	29	13	37	13	152
Lloydminster	33	861	31	12	22	31	79
Medicine Hat	22	1,337	30	16	24	30	113
Mont-Joli	50	336	7	15	15	7	31
Montréal/Mirabel International	7	2,588	15	14	50	23	181
Nanaimo	12	2,179	5	11	45	6	155
Norman Wells	44	594	27	14	14	27	34
North Bay	8	2,381	20	14	55	20	231
Ottawa/Gatineau	4	2,693	9	13	64	10	268
Peace River	46	506	18	16	10	19	34
Penticton	1	2,931	20	14	69	25	248
Port Hardy	45	521	26	14	19	26	53
Prince Albert	23	1,286	29	15	20	18	98
Prince Rupert	51	247	18	14	10	18	18
Rankin Inlet	35	775	8	13	11	4	48
Red Deer Regional	3	2,779	29	16	48	13	267
Rouyn-Noranda	32	914	8	14	22	8	78
Saint John	19	1,458	21	23	29	24	99
Sept-Îles	17	1,603	21	11	11	20	86
Sioux Lookout	13	2,069	30	15	17	26	116
Smithers	47	480	29	12	9	29	29
St Catharines	24	1,238	15	14	43	21	208
Sudbury	9	2,339	15	16	56	15	163
Terrace	36	765	7	13	15	26	47
Thompson	6	2,627	8	16	16	26	129
Timmins	15	1,785	29	19	27	29	98
Val-d'Or	31	951	20	15	14	23	55
Victoria Harbour	10	2,253	15	9	17	20	112
Wabush	39	741	1	11	7	26	42
Whitecourt	18	1,589	28	14	52	14	159
Williams Lake	40	678	15	11	26	15	52

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	16	4,325	27	14	40	28	255
Boundary Bay	19	4,195	16	12	57	16	310
Calgary International	3	18,389	28	17	63	14	752
Calgary/Springbank	15	4,566	27	15	39	16	291
Chicoutimi/St-Honoré	42	572	15	13	12	19	51
Edmonton City Centre	17	4,243	28	16	28	7	252
Edmonton International	5	10,623	20	8	48	28	473
Edmonton/Villeneuve	38	1,199	9	11	23	9	112
Fort McMurray	26	3,119	21	15	20	27	157
Fredericton International	20	4,142	8	12	27	11	272
Gander International	34	1,823	21	14	16	20	146
Halifax/Robert L. Stanfield International	9	6,081	8	15	23	4	265
Hamilton	32	2,437	9	18	24	12	151
Kelowna	22	3,742	6	12	22	22	173
Kitchener/Waterloo	31	2,478	21	13	42	20	266
Langley	33	2,312	16	14	31	7	156
London	21	4,038	20	15	39	20	319
Moncton/Greater Moncton International	10	5,794	27	12	35	22	379
Montréal/Pierre Elliott Trudeau International	4	17,119	14	18	58	21	669
Montréal/St-Hubert	12	5,330	20	15	96	23	573
Oshawa	37	1,226	22	14	22	22	140
Ottawa/Macdonald-Cartier International	6	9,656	22	11	45	22	488
Pitt Meadows	23	3,347	16	12	50	16	285
Prince George	36	1,531	29	16	15	29	77
Québec/Jean Lesage International	11	5,504	8	10	29	22	324
Regina International	24	3,151	15	16	19	12	153
Saskatoon/John G. Diefenbaker International	14	4,817	12	15	28	12	233
Sault Ste. Marie	35	1,551	29	12	14	20	109
St. John's International	27	2,987	26	9	16	26	131
St-Jean	41	582	22	11	15	23	87
Thunder Bay	13	5,076	11	15	26	19	281
Toronto/Buttonville Municipal	25	3,132	12	16	36	22	294
Toronto/City Centre	18	4,230	22	16	31	22	238
Toronto/Lester B. Pearson International	1	33,586	18	16	94	29	1,219
Vancouver Harbour	29	2,951	20	15	25	20	149
Vancouver International	2	22,702	28	8	71	27	880
Victoria International	8	6,438	7	14	45	7	370
Whitehorse International	40	751	20	10	8	21	42
Windsor	39	1,066	14	14	10	14	60
Winnipeg/James Armstrong Richardson International	7	9,587	20	13	39	29	402
Winnipeg/St. Andrews	30	2,525	15	11	23	15	185
Yellowknife	28	2,963	6	8	16	13	128

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	632	19	13	15	12	77
Campbell River	21	933	21	13	15	21	76
Castlegar	47	444	12	13	9	29	34
Charlottetown	26	864	19	19	9	24	51
Churchill	37	632	11	10	8	27	35
Cranbrook	28	832	8	10	10	23	52
Deer Lake	17	1,144	13	8	9	22	55
Fort Nelson	22	932	19	14	13	14	72
Fort St John	10	1,390	28	11	18	28	87
Grande Prairie	5	1,985	8	16	15	19	112
High Level	48	424	27	10	7	27	30
Îles-de-la-Madeleine	49	336	5	11	4	15	20
Inuvik/Mike Zubko	39	585	30	18	12	27	34
Iqaluit	19	941	8	14	8	22	50
Kamloops	9	1,477	11	13	16	20	69
Kenora	34	674	14	18	6	7	42
Kingston	11	1,384	9	14	15	23	87
Kuujuuaq	32	723	3	14	7	20	36
La Grande Rivière	35	669	4	11	7	19	47
La Ronge	23	929	27	9	11	27	72
Lethbridge	24	923	30	14	14	16	66
Lloydminster	43	491	6	14	7	6	33
Medicine Hat	29	821	16	15	9	20	46
Mont-Joli	50	318	7	15	15	7	31
Montréal/Mirabel International	12	1,360	7	12	11	21	84
Nanaimo	7	1,645	7	14	28	7	129
Norman Wells	40	556	18	12	10	28	32
North Bay	15	1,259	6	14	15	20	103
Ottawa/Gatineau	20	933	9	13	18	9	84
Peace River	44	484	19	16	8	19	34
Penticton	18	1,105	16	14	12	27	66
Port Hardy	45	479	15	11	6	27	34
Prince Albert	16	1,222	29	15	12	18	74
Prince Rupert	51	233	23	15	6	12	13
Rankin Inlet	30	773	8	13	11	22	48
Red Deer Regional	13	1,357	9	13	18	9	106
Rouyn-Noranda	27	846	19	17	7	21	55
Saint John	14	1,264	21	23	17	11	85
Sept-Îles	8	1,581	21	11	11	20	86
Sioux Lookout	4	2,021	26	17	15	26	116
Smithers	46	470	11	11	5	11	26
St Catharines	42	522	23	11	21	23	77
Sudbury	3	2,122	28	18	15	28	122
Terrace	33	691	23	9	9	21	38
Thompson	1	2,593	25	15	16	26	129
Timmins	6	1,751	28	9	13	28	96
Val-d'Or	25	887	20	15	8	20	48
Victoria Harbour	2	2,253	15	9	17	20	112
Wabush	31	741	1	11	7	26	42
Whitecourt	41	537	15	14	9	28	42
Williams Lake	38	598	24	15	9	4	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	4	5,152	19	11	72	21	366
Boundary Bay	3	5,239	6	11	60	27	356
Calgary International	38	63	26	13	8	6	12
Calgary/Springbank	1	6,286	8	13	82	29	434
Chicoutimi/St-Honoré	25	874	19	14	48	19	160
Edmonton City Centre	26	856	15	15	28	15	78
Edmonton International	37	215	19	11	20	15	52
Edmonton/Villeneuve	13	2,774	15	15	60	28	211
Fort McMurray	29	453	21	13	20	30	56
Fredericton International	6	4,756	9	15	46	11	340
Gander International	24	972	21	15	46	25	174
Halifax/Robert L. Stanfield International	36	234	8	15	21	23	32
Hamilton	34	296	21	13	15	21	45
Kelowna	18	1,864	20	9	40	20	158
Kitchener/Waterloo	14	2,450	20	12	50	20	303
Langley	15	2,307	28	16	52	27	200
London	10	3,980	15	15	62	20	401
Moncton/Greater Moncton International	7	4,719	12	16	52	27	382
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	11	3,205	20	15	82	17	346
Oshawa	21	1,579	7	11	64	7	254
Ottawa/Macdonald-Cartier International	20	1,587	16	11	40	31	144
Pitt Meadows	9	4,167	21	12	146	21	354
Prince George	35	284	26	10	38	7	82
Québec/Jean Lesage International	22	1,302	21	13	48	21	189
Regina International	23	1,090	10	15	36	10	126
Saskatoon/John G. Diefenbaker International	17	1,928	17	18	42	12	186
Sault Ste. Marie	16	2,137	30	9	106	30	454
St. John's International	31	375	18	14	20	25	85
St-Jean	32	336	23	15	22	23	54
Thunder Bay	5	5,116	10	14	76	22	494
Toronto/Buttonville Municipal	12	2,939	12	16	56	12	362
Toronto/City Centre	19	1,706	30	16	42	30	192
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	2	6,268	7	12	98	7	400
Whitehorse International	33	320	26	15	26	26	38
Windsor	28	474	3	13	32	3	50
Winnipeg/James Armstrong Richardson International	30	375	11	18	16	3	42
Winnipeg/St. Andrews	8	4,596	21	16	58	13	382
Yellowknife	27	613	6	14	34	6	74

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	16	456	19	16	26	13	48
Campbell River	17	410	18	10	24	21	72
Castlegar	19	300	30	14	38	30	60
Charlottetown	23	168	18	14	16	31	30
Churchill	47	8	27	16	8	27	8
Cranbrook	21	200	21	16	14	23	50
Deer Lake	12	534	23	16	36	23	82
Fort Nelson	40	20	7	14	6	7	18
Fort St John	15	474	27	19	18	26	58
Grande Prairie	8	822	8	16	36	8	90
High Level	41	18	25	16	6	25	10
Îles-de-la-Madeleine	43	14	19	13	14	19	14
Inuvik/Mike Zubko	45	10	30	16	6	30	6
Iqaluit	36	28	22	15	10	22	12
Kamloops	9	736	13	11	28	26	120
Kenora	24	140	5	12	22	5	58
Kingston	4	1,272	23	18	40	23	170
Kuujuuaq	37	24	10	16	4	10	6
La Grande Rivière	48	4	2	14	4	2	4
La Ronge	31	48	1	11	6	4	12
Lethbridge	13	530	29	13	30	13	96
Lloydminster	18	370	28	12	18	31	56
Medicine Hat	14	516	30	16	20	30	72
Mont-Joli	42	18	24	15	8	8	8
Montréal/Mirabel International	5	1,228	15	14	40	23	122
Nanaimo	11	534	5	11	44	2	82
Norman Wells	33	38	27	14	8	15	8
North Bay	6	1,122	21	17	46	20	128
Ottawa/Gatineau	2	1,760	9	13	46	10	192
Peace River	39	22	24	16	8	24	8
Penticton	1	1,826	20	14	62	25	190
Port Hardy	32	42	26	14	16	26	24
Prince Albert	28	64	12	19	10	18	24
Prince Rupert	44	14	18	14	8	18	8
Rankin Inlet	49	2	4	10	2	4	2
Red Deer Regional	3	1,422	13	19	44	13	184
Rouyn-Noranda	27	68	8	14	18	8	42
Saint John	22	194	13	22	16	24	30
Sept-Îles	38	22	3	12	4	3	4
Sioux Lookout	30	48	30	15	12	30	20
Smithers	46	10	29	12	6	29	6
St Catharines	10	716	15	14	36	21	140
Sudbury	20	217	15	16	52	15	64
Terrace	26	74	7	13	14	7	18
Thompson	34	34	17	18	8	17	20
Timmins	35	34	29	19	20	29	20
Val-d'Or	29	64	23	13	12	23	30
Victoria Harbour	0	0	0	0	0	0	0
Wabush	0	0	0	0	0	0	0
Whitecourt	7	1,052	28	14	48	14	122
Williams Lake	25	80	15	11	24	15	24

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	4	5,146	19	11	72	21	366
Boundary Bay	3	5,239	6	11	60	27	356
Calgary International	38	62	26	13	8	6	12
Calgary/Springbank	1	6,282	8	13	82	29	434
Chicoutimi/St-Honoré	24	874	19	14	48	19	160
Edmonton City Centre	26	856	15	15	28	15	78
Edmonton International	36	205	19	11	20	15	52
Edmonton/Villeneuve	13	2,774	15	15	60	28	211
Fort McMurray	28	453	21	13	20	30	56
Fredericton International	7	4,668	9	15	46	11	340
Gander International	25	870	21	15	40	25	166
Halifax/Robert L. Stanfield International	37	190	8	15	21	23	32
Hamilton	34	296	21	13	15	21	45
Kelowna	18	1,864	20	9	40	20	158
Kitchener/Waterloo	14	2,447	20	12	50	20	303
Langley	15	2,307	28	16	52	27	200
London	10	3,980	15	15	62	20	401
Moncton/Greater Moncton International	6	4,715	12	16	52	27	382
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	11	3,205	20	15	82	17	346
Oshawa	21	1,579	7	11	64	7	254
Ottawa/Macdonald-Cartier International	20	1,582	16	11	40	31	144
Pitt Meadows	9	4,167	21	12	146	21	354
Prince George	35	284	26	10	38	7	82
Québec/Jean Lesage International	22	1,302	21	13	48	21	189
Regina International	23	1,068	10	15	36	10	126
Saskatoon/John G. Diefenbaker International	17	1,908	17	18	42	12	182
Sault Ste. Marie	16	2,137	30	9	106	30	454
St. John's International	30	373	18	14	20	25	85
St-Jean	31	336	23	15	22	23	54
Thunder Bay	5	5,094	10	14	76	22	494
Toronto/Buttonville Municipal	12	2,938	12	16	56	12	362
Toronto/City Centre	19	1,706	30	16	42	30	192
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	2	5,727	7	12	84	22	358
Whitehorse International	32	320	26	15	26	26	38
Windsor	27	474	3	13	32	3	50
Winnipeg/James Armstrong Richardson International	33	305	11	18	16	3	42
Winnipeg/St. Andrews	8	4,596	21	16	58	13	382
Yellowknife	29	423	2	11	28	2	42

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	16	426	19	16	26	13	48
Campbell River	17	410	18	10	24	21	72
Castlegar	19	300	30	14	38	30	60
Charlottetown	23	144	31	14	14	31	30
Churchill	0	0	0	0	0	0	0
Cranbrook	21	200	21	16	14	23	50
Deer Lake	11	534	23	16	36	23	82
Fort Nelson	39	20	7	14	6	7	18
Fort St John	15	474	27	19	18	26	58
Grande Prairie	8	822	8	16	36	8	90
High Level	40	18	25	16	6	25	10
Îles-de-la-Madeleine	43	14	19	13	14	19	14
Inuvik/Mike Zubko	45	10	30	16	6	30	6
Iqaluit	35	28	22	15	10	22	12
Kamloops	9	736	13	11	28	26	120
Kenora	29	58	16	16	12	16	18
Kingston	4	1,272	23	18	40	23	170
Kuujuuaq	36	24	10	16	4	10	6
La Grande Rivière	47	4	2	14	4	2	4
La Ronge	30	48	1	11	6	4	12
Lethbridge	13	530	29	13	30	13	96
Lloydminster	18	370	28	12	18	31	56
Medicine Hat	14	510	30	16	20	30	72
Mont-Joli	41	18	24	15	8	8	8
Montréal/Mirabel International	5	1,178	15	14	40	23	122
Nanaimo	12	534	5	11	44	2	82
Norman Wells	32	38	27	14	8	15	8
North Bay	6	1,122	21	17	46	20	128
Ottawa/Gatineau	2	1,760	9	13	46	10	192
Peace River	37	22	24	16	8	24	8
Penticton	1	1,826	20	14	62	25	190
Port Hardy	42	18	4	10	8	4	8
Prince Albert	28	60	12	19	10	18	24
Prince Rupert	44	14	18	14	8	18	8
Rankin Inlet	48	2	4	10	2	4	2
Red Deer Regional	3	1,422	13	19	44	13	184
Rouyn-Noranda	26	68	8	14	18	8	42
Saint John	22	194	13	22	16	24	30
Sept-Îles	38	22	3	12	4	3	4
Sioux Lookout	31	48	30	15	12	30	20
Smithers	46	10	29	12	6	29	6
St Catharines	10	716	15	14	36	21	140
Sudbury	20	217	15	16	52	15	64
Terrace	25	74	7	13	14	7	18
Thompson	33	34	17	18	8	17	20
Timmins	34	34	29	19	20	29	20
Val-d'Or	27	64	23	13	12	23	30
Victoria Harbour	0	0	0	0	0	0	0
Wabush	0	0	0	0	0	0	0
Whitecourt	7	1,052	28	14	48	14	122
Williams Lake	24	80	15	11	24	15	24

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	11	6	5	14	2	5	2
Boundary Bay	0	0	0	0	0	0	0
Calgary International	18	1	19	14	1	19	1
Calgary/Springbank	14	4	2	13	2	2	2
Chicoutimi/St-Honoré	0	0	0	0	0	0	0
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	10	10	14	14	8	14	8
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	0	0	0	0	0	0	0
Fredericton International	4	88	5	9	22	5	44
Gander International	3	102	8	8	8	21	18
Halifax/Robert L. Stanfield International	6	44	6	12	12	6	12
Hamilton	0	0	0	0	0	0	0
Kelowna	0	0	0	0	0	0	0
Kitchener/Waterloo	15	3	12	12	3	12	3
Langley	0	0	0	0	0	0	0
London	0	0	0	0	0	0	0
Moncton/Greater Moncton International	13	4	8	10	2	8	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	12	5	30	11	3	30	3
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	7	22	19	11	6	18	8
Saskatoon/John G. Diefenbaker International	9	20	28	11	6	28	8
Sault Ste. Marie	0	0	0	0	0	0	0
St. John's International	16	2	4	16	2	4	2
St-Jean	0	0	0	0	0	0	0
Thunder Bay	8	22	11	13	6	11	6
Toronto/Buttonville Municipal	17	1	21	13	1	21	1
Toronto/City Centre	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	1	541	7	16	26	7	82
Whitehorse International	0	0	0	0	0	0	0
Windsor	0	0	0	0	0	0	0
Winnipeg/James Armstrong Richardson International	5	70	14	14	12	4	16
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	2	190	6	14	34	6	74

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	3	30	7	17	14	7	14
Campbell River	0	0	0	0	0	0	0
Castlegar	0	0	0	0	0	0	0
Charlottetown	4	24	18	14	16	18	24
Churchill	6	8	27	16	8	27	8
Cranbrook	0	0	0	0	0	0	0
Deer Lake	0	0	0	0	0	0	0
Fort Nelson	0	0	0	0	0	0	0
Fort St John	0	0	0	0	0	0	0
Grande Prairie	0	0	0	0	0	0	0
High Level	0	0	0	0	0	0	0
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	0	0	0	0	0	0	0
Iqaluit	0	0	0	0	0	0	0
Kamloops	0	0	0	0	0	0	0
Kenora	1	82	5	12	22	5	58
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	0	0	0	0	0	0	0
Lloydminster	0	0	0	0	0	0	0
Medicine Hat	7	6	29	17	6	29	6
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	2	50	21	11	12	12	20
Nanaimo	0	0	0	0	0	0	0
Norman Wells	0	0	0	0	0	0	0
North Bay	0	0	0	0	0	0	0
Ottawa/Gatineau	0	0	0	0	0	0	0
Peace River	0	0	0	0	0	0	0
Penticton	0	0	0	0	0	0	0
Port Hardy	5	24	26	14	16	26	24
Prince Albert	8	4	29	15	4	29	4
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	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

Gander International saw an influx of international flights as aircraft from around the world stopped on their way to deliver aid to Haiti in January 2010.

Emergency measures put in place in response to the attempted terror attack on December 25, 2009 resulted in numerous flight delays and cancellations.

A major winter storm in the eastern United States and Atlantic Canada resulted in the cancellation of flights between Canadian airports and cities on the American eastern seaboard.

Beginning in early November 2009, WestJet has initiated seasonal flights to new sunny destinations as well as increased the frequency to others from cities throughout the country.

From mid-October 2009 until the end of April 2010, WestJet will fly five times weekly between Toronto and Miami and four times weekly between Toronto and Atlantic City.

Porter Airlines introduced St. John's, Newfoundland and Labrador as its newest destination in Atlantic Canada on October 5, 2009. As part of its expanded service to the region, the airline added four daily non-stop round trip flights between St. John's and Halifax, with ongoing direct flights also connecting Ottawa and Toronto.

Effective September 14, 2009, Porter Airlines added three daily roundtrip flights between Boston Logan International and Toronto City/Centre.

Porter Airlines has added three daily round trip flights on weekdays and two daily round trip flights on weekends between Toronto City Centre Airport and Thunder Bay International Airport effective June 26, 2009.

In June 2009, Air Canada has added daily non-stop service between Calgary and Portland, Oregon as well as between Calgary and London, United Kingdom. Year-round daily non-stop service between Montreal and Geneva commenced on June 1, 2009.

Effective May 4, 2009, Air France added another daily flight out of Montreal/Trudeau to Paris/CDG.

On May 15, 2009 Air Canada launched a new daily non-stop service between Calgary and San Diego, CA.

Porter Airlines has added five daily round trip flights between Toronto City Centre Airport and Montreal's Pierre Elliott Trudeau International Airport as well as four daily roundtrip flights between Toronto City Centre Airport and Ottawa's MacDonald-Cartier International Airport effective April 15, 2009.

Air India increased the scheduled number of flights between Toronto and Amritsar (via London) from three weekly flights to seven flights per week effective March 29, 2009.

Effective March 2009 Unaalik Aviation, on behalf of First Air, operates five scheduled flights between Rankin Inlet and Baker Lake.

AeroMexico began new daily service between Toronto and Mexico City on March 2, 2009.

Fredericton International, New Brunswick – As of January 2010, data for Fredericton International are 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 each of the two calendar years immediately preceding the report year, realized annual gross revenues of \$1,000,000 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 each of the two calendar years immediately preceding the report year, realized annual gross revenues of less than \$1,000,000 for the air services for which the air carrier held a licence. Since 2000, levels IV and VI are no longer 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.