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



March 2011



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Statistics Canada
Transportation Division

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

March 2011

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

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Highlights

- Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased 13.2% in March 2011 from March 2010. These airports reported 440,168 movements in March compared with 507,372 movements in March 2010.
- There were 316,839 itinerant movements (flights from one airport to another) reported in March 2011. This represents a 9.5% decrease (-33,177 movements) compared with the same month a year earlier.
- In March 2011, there were 123,329 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 21.6% (-34,027 movements) compared with the previous year.

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

	NAV CANADA towers		NAV CANADA Flight Service Stations		Total	
	number	Percentage change, March 2010 to March 2011	number	Percentage change, March 2010 to March 2011	number	Percentage change, March 2010 to March 2011
Grand total	354,452	-14.2	85,716	-9.3	440,168	-13.2
Itinerant movements						
Air carriers	207,470	-6.1	50,391	-0.7	257,861	-5.1
Other commercial movements	19,565	-33.8	2,810	-14.5	22,375	-31.9
Private movements	20,520	-19.1	6,632	-25.9	27,152	-20.9
Government civil movements	4,491	-14.5	1,853	-8.2	6,344	-12.8
Government military movements	2,187	-25.1	920	3.7	3,107	-18.3
Itinerant total	254,233	-10.5	62,606	-5.0	316,839	-9.5
Local movements						
Civil local movements	99,885	-21.4	22,917	-19.3	122,802	-21.0
Military local movements	334	-79.8	193	-6.3	527	-71.6
Local total	100,219	-22.2	23,110	-19.2	123,329	-21.6

Analysis

Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased 13.2% in March 2011 from March 2010. These airports reported 440,168 movements in March compared with 507,372 movements in March 2010. Year-over-year decreases were reported by 63 airports. Toronto/Lester B Pearson International, Ontario (36,797 movements) followed by Vancouver International, British Columbia (24,102 movements) were the most active sites in March 2011.

There were 316,839 itinerant movements (flights from one airport to another) reported in March 2011. This represents a 9.5% decrease (-33,177 movements) compared with the same month a year earlier. The year-over-year variations ranged from an increase of 1,566 movements (+4.5%) at Toronto/Lester B Pearson International, Ontario to a drop of 3,353 movements (-44.0%) at London, Ontario. Sixty three airports reported year-over-year decreases in the number of itinerant aircraft movements in March 2011.

In March 2011, there were 123,329 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 21.6% (-34,027 movements) compared with the previous year. Montréal/St-Hubert, Quebec (7,582 movements) followed by Winnipeg/St. Andrews, Manitoba (6,034 movements) recorded the largest number of local movements.

Itinerant movements: domestic, transborder and international

There were 259,881 domestic itinerant movements reported in March 2011, down 11.7% (-34,385 movements) from March 2010. Vancouver International, British Columbia (17,829 movements) followed by Calgary International, Alberta (15,286 movements) reported the greatest number of domestic itinerant movements.

Seventy-five airports reported 43,714 transborder itinerant movements (between Canada and the United States) in March 2011, up 3.6% (+1,523 movements) from the previous year. Toronto/Lester B Pearson International, Ontario (16,433 movements) reported the greatest number of transborder itinerant movements. This represents 37.6% of the total transborder itinerant movements.

In March 2011, thirty-nine airports reported 13,244 other international itinerant movements, down 2.3% (-315 movements) from the previous year. Toronto/Lester B Pearson International, Ontario (5,559 movements) recorded the greatest number of other international itinerant movements. This represents 42.0% of the total other international itinerant movements reported.

Related products

Selected publications from Statistics Canada

51-008-X	Aircraft Movement Statistics: Airports Without Air Traffic Control Towers (TP 141)
51-203-X	Air Carrier Traffic at Canadian Airports
51-206-X	Canadian Civil Aviation
51-209-X	Aircraft Movement Statistics: NAV CANADA Towers and Flight Service Stations: Annual Report (TP 577)
51-210-X	Aircraft Movement Statistics: Airports Without Air Traffic Control Towers: Annual Report (TP 577)

Selected CANSIM tables from Statistics Canada

401-0007	Aircraft movements, by class of operation and peak hour and peak day of movements, airports with NAV CANADA towers, monthly
401-0008	Aircraft movements, by civil and military movements, airports with NAV CANADA towers, monthly
401-0009	Itinerant movements, by type of operation, airports with NAV CANADA towers, monthly
401-0010	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA towers, monthly
401-0011	Itinerant movements, by type of power plant, airports with NAV CANADA towers, monthly
401-0012	Itinerant movements, by aircraft 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
401-0016	Itinerant movements, by type of operation, airports with NAV CANADA flight service stations, monthly
401-0017	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA flight service stations, monthly

401-0018	Itinerant movements, by type of power plant, airports with NAV CANADA flight service stations, monthly
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401-0036	Domestic and international itinerant movements, by type of operation, airports with NAV CANADA flight service stations, annual
401-0037	Annual aircraft movements, by class of operation and type of operation, airports without air traffic control towers

401-0038 Annual itinerant movements, by weight group and type of power plant, airports without air traffic control towers

Selected surveys from Statistics Canada

2715 Aircraft Movement Statistics

Selected summary tables from Statistics Canada

- *Aircraft movements by class of operation (monthly)*

Statistical tables

Table 1-1
Total aircraft movements by class of operation — NAV CANADA towers

	Total		Itinerant		Local	
	Rank of movements	Number of movements	Rank of movements	Number of movements	Rank of movements	Number of movements
Abbotsford	18	7,949	27	3,293	9	4,656
Boundary Bay	15	8,883	20	3,691	5	5,192
Calgary International	3	19,684	3	19,538	38	146
Calgary/Springbank	16	8,766	28	3,212	4	5,554
Chicoutimi/St-Honoré	24	6,132	38	1,666	10	4,466
Edmonton City Centre	32	4,034	22	3,616	34	418
Edmonton International	7	11,829	5	11,551	35	278
Edmonton/Villeneuve	31	4,407	42	507	11	3,900
Fort McMurray	33	3,786	25	3,360	33	426
Fredericton International	25	6,066	30	3,034	14	3,032
Gander International	40	2,252	39	1,600	32	652
Halifax/Robert L Stanfield International	19	7,383	9	7,145	36	238
Hamilton	38	3,265	31	2,361	29	904
Kelowna	26	5,860	19	3,978	21	1,882
Kitchener/Waterloo	13	9,185	21	3,625	3	5,560
Langley	27	5,267	33	2,283	15	2,984
London	12	9,368	17	4,264	6	5,104
Moncton/Greater Moncton International	22	6,847	16	4,459	18	2,388
Montréal/Pierre Elliott Trudeau International	4	19,141	4	19,077	40	64
Montréal/St-Hubert	5	14,179	10	6,597	1	7,582
Oshawa	36	3,490	36	1,812	22	1,678
Ottawa/Macdonald-Cartier International	6	14,031	6	11,345	17	2,686
Pitt Meadows	21	7,079	32	2,301	8	4,778
Prince George	37	3,309	35	1,923	26	1,386
Québec/Jean Lesage International	9	10,756	8	7,208	13	3,548
Regina International	29	4,438	26	3,358	28	1,080
Saskatoon/John G Diefenbaker International	20	7,153	13	4,975	20	2,178
Sault Ste. Marie	30	4,433	34	2,077	19	2,356
St. John's International	34	3,602	24	3,410	37	192
St-Jean	42	2,118	41	528	23	1,590
Thunder Bay	23	6,347	14	4,781	24	1,566
Toronto/Billy Bishop Toronto City	17	8,059	12	5,255	16	2,804
Toronto/Buttonville Municipal	11	9,495	15	4,691	7	4,804
Toronto/Lester B Pearson International	1	36,797	1	36,701	39	96
Vancouver Harbour	35	3,585	23	3,583	42	2
Vancouver International	2	24,102	2	24,080	41	22
Victoria International	10	10,404	11	6,538	12	3,866
Whitehorse International	39	3,139	37	1,721	25	1,418
Windsor	41	2,144	40	1,425	31	719
Winnipeg/James Armstrong Richardson International	8	11,525	7	10,413	27	1,112
Winnipeg/St. Andrews	14	9,070	29	3,036	2	6,034
Yellowknife	28	5,093	18	4,215	30	878
Total of NAV CANADA towers (42)	.	354,452	.	254,233	.	100,219

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	1,603	37	809	12	794
Campbell River	23	1,614	24	1,170	17	444
Castlegar	42	875	45	579	21	296
Charlottetown	38	953	34	885	38	68
Churchill	37	978	32	950	43	28
Cranbrook	40	925	38	799	31	126
Deer Lake	29	1,346	23	1,216	30	130
Fort Nelson	17	1,849	14	1,581	22	268
Fort St. John	5	3,155	10	1,708	5	1,447
Grande Prairie	3	3,326	5	2,188	7	1,138
High Level	45	706	40	674	42	32
Îles-de-la-Madeleine	50	408	50	408	0	0
Inuvik/Mike Zubko	35	1,050	33	932	32	118
Iqaluit	20	1,675	13	1,605	37	70
Kamloops	13	2,476	12	1,608	10	868
Kenora	33	1,162	36	824	20	338
Kingston	6	2,864	16	1,488	6	1,376
Kuujuuaq	31	1,197	27	1,059	29	138
La Grande Rivière	41	887	35	885	48	2
La Ronge	25	1,574	17	1,389	24	185
Lethbridge	26	1,515	26	1,065	16	450
Lloydminster	36	1,046	42	640	18	406
Medicine Hat	39	936	39	772	25	164
Mont-Joli	49	443	49	429	46	14
Montréal/Mirabel International	7	2,816	9	1,764	8	1,052
Nanaimo	16	2,097	15	1,511	14	586
Norman Wells	44	711	41	671	41	40
North Bay	1	4,359	8	1,985	2	2,374
Ottawa/Gatineau	2	3,794	19	1,322	1	2,472
Peace River	46	684	44	600	35	84
Penticton	12	2,544	31	980	4	1,564
Port Hardy	47	683	47	530	26	153
Prince Albert	21	1,665	11	1,649	45	16
Prince Rupert	51	289	51	275	47	14
Rankin Inlet	28	1,359	18	1,359	0	0
Red Deer Regional	18	1,809	25	1,143	13	666
Rouyn-Noranda	32	1,182	28	1,030	27	152
Saint John	22	1,653	21	1,261	19	392
Sept-Îles	14	2,386	6	2,174	23	212
Sioux Lookout	11	2,576	3	2,504	36	72
Smithers	48	612	46	564	40	48
St. Catharines	10	2,692	29	1,028	3	1,664
Sudbury	4	3,173	4	2,356	11	817
Terrace	34	1,092	30	984	33	108
Thompson	8	2,796	1	2,736	39	60
Timmins	15	2,307	7	2,165	28	142
Val-d'Or	19	1,754	20	1,278	15	476
Victoria Harbour	9	2,739	2	2,715	44	24
Wabush	30	1,260	22	1,260	0	0
Whitecourt	27	1,393	48	469	9	924
Williams Lake	43	728	43	630	34	98
Total of all flight service stations (51)	.	85,716	.	62,606	.	23,110

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

	Civil movements			Military movements				
	Total	Itinerant		Local	Total	Itinerant		Local
		Commercial	Private and government			Local	Local	
	number							
Abbotsford	7,887	2,590	641	4,656	62	62	0	
Boundary Bay	8,871	2,855	824	5,192	12	12	0	
Calgary International	19,648	18,088	1,416	144	36	34	2	
Calgary/Springbank	8,760	2,366	840	5,554	6	6	0	
Chicoutimi/St-Honoré	6,130	1,621	45	4,464	2	0	2	
Edmonton City Centre	4,022	2,695	909	418	12	12	0	
Edmonton International	11,796	10,760	760	276	33	31	2	
Edmonton/Villeneuve	4,407	349	158	3,900	0	0	0	
Fort McMurray	3,782	2,720	640	422	4	0	4	
Fredericton International	6,049	2,867	150	3,032	17	17	0	
Gander International	2,027	1,177	198	652	225	225	0	
Halifax/Robert L. Stanfield International	7,284	6,750	306	228	99	89	10	
Hamilton	3,245	1,980	371	894	20	10	10	
Kelowna	5,807	3,563	374	1,870	53	41	12	
Kitchener/Waterloo	9,177	2,841	776	5,560	8	8	0	
Langley	5,265	1,405	876	2,984	2	2	0	
London	9,348	3,663	583	5,102	20	18	2	
Moncton/Greater Moncton International	6,841	4,153	302	2,386	6	4	2	
Montréal/Pierre Elliott Trudeau International	19,130	17,822	1,244	64	11	11	0	
Montréal/St-Hubert	14,082	5,383	1,117	7,582	97	97	0	
Oshawa	3,473	1,185	610	1,678	17	17	0	
Ottawa/Macdonald-Cartier International	13,816	10,438	710	2,668	215	197	18	
Pitt Meadows	6,881	1,248	855	4,778	198	198	0	
Prince George	3,307	1,697	224	1,386	2	2	0	
Québec/Jean Lesage International	10,722	6,178	1,006	3,538	34	24	10	
Regina International	4,280	2,868	446	966	158	44	114	
Saskatoon/John G. Diefenbaker International	7,001	4,276	639	2,086	152	60	92	
Sault Ste. Marie	4,387	1,895	158	2,334	46	24	22	
St. John's International	3,398	2,995	211	192	204	204	0	
St-Jean	1,965	133	242	1,590	153	153	0	
Thunder Bay	6,302	4,386	358	1,558	45	37	8	
Toronto/Billy Bishop Toronto City	8,050	4,820	426	2,804	9	9	0	
Toronto/Buttonville Municipal	9,493	2,712	1,977	4,804	2	2	0	
Toronto/Lester B. Pearson International	36,789	35,521	1,172	96	8	8	0	
Vancouver Harbour	3,581	3,516	63	2	4	4	0	
Vancouver International	24,074	22,977	1,075	22	28	28	0	
Victoria International	10,211	5,473	886	3,852	193	179	14	
Whitehorse International	3,131	1,504	209	1,418	8	8	0	
Windsor	2,136	1,122	299	715	8	4	4	
Winnipeg/James Armstrong Richardson International	11,252	9,646	500	1,106	273	267	6	
Winnipeg/St. Andrews	9,070	2,801	235	6,034	0	0	0	
Yellowknife	5,054	3,996	180	878	39	39	0	
Total of NAV CANADA towers (42)	351,931	227,035	25,011	99,885	2,521	2,187	334	

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

	Civil movements			Military movements				
	Total	Itinerant		Local	Total	Itinerant		Local
		Commercial	Private and government					
	number							
Brandon Municipal	1,327	416	161	750	276	232	44	
Campbell River	1,606	900	262	444	8	8	0	
Castlegar	869	552	21	296	6	6	0	
Charlottetown	928	712	156	60	25	17	8	
Churchill	968	901	39	28	10	10	0	
Cranbrook	922	674	122	126	3	3	0	
Deer Lake	1,310	1,181	29	100	36	6	30	
Fort Nelson	1,828	1,480	80	268	21	21	0	
Fort St. John	3,151	1,538	166	1,447	4	4	0	
Grande Prairie	3,326	1,934	254	1,138	0	0	0	
High Level	706	633	41	32	0	0	0	
Îles-de-la-Madeleine	402	317	85	0	6	6	0	
Inuvik/Mike Zubko	930	826	32	72	120	74	46	
Iqaluit	1,663	1,469	124	70	12	12	0	
Kamloops	2,465	1,332	265	868	11	11	0	
Kenora	1,089	691	80	318	73	53	20	
Kingston	2,841	1,147	320	1,374	23	21	2	
Kuujuuaq	1,197	1,018	41	138	0	0	0	
La Grande Rivière	815	781	32	2	72	72	0	
La Ronge	1,572	1,294	93	185	2	2	0	
Lethbridge	1,501	769	282	450	14	14	0	
Lloydminster	1,042	432	204	406	4	4	0	
Medicine Hat	929	629	136	164	7	7	0	
Mont-Joli	443	384	45	14	0	0	0	
Montréal/Mirabel International	2,800	1,407	345	1,048	16	12	4	
Nanaimo	2,093	986	521	586	4	4	0	
Norman Wells	709	660	9	40	2	2	0	
North Bay	4,179	1,421	384	2,374	180	180	0	
Ottawa/Gatineau	3,778	715	591	2,472	16	16	0	
Peace River	684	550	50	84	0	0	0	
Penticton	2,515	773	178	1,564	29	29	0	
Port Hardy	642	454	58	130	41	18	23	
Prince Albert	1,653	1,405	234	14	12	10	2	
Prince Rupert	289	259	16	14	0	0	0	
Rankin Inlet	1,355	1,341	14	0	4	4	0	
Red Deer Regional	1,805	746	393	666	4	4	0	
Rouyn-Noranda	1,170	863	165	142	12	2	10	
Saint John	1,637	922	327	388	16	12	4	
Sept-Îles	2,376	1,939	225	212	10	10	0	
Sioux Lookout	2,574	2,400	102	72	2	2	0	
Smithers	612	519	45	48	0	0	0	
St. Catharines	2,686	738	284	1,664	6	6	0	
Sudbury	3,161	2,011	333	817	12	12	0	
Terrace	1,092	930	54	108	0	0	0	
Thompson	2,796	2,577	159	60	0	0	0	
Timmins	2,305	1,901	262	142	2	2	0	
Val-d'Or	1,754	937	341	476	0	0	0	
Victoria Harbour	2,727	2,560	143	24	12	12	0	
Wabush	1,260	1,179	81	0	0	0	0	
Whitecourt	1,393	436	33	924	0	0	0	
Williams Lake	728	562	68	98	0	0	0	
Total of all flight service stations (51)	84,603	53,201	8,485	22,917	1,113	920	193	

Table 3-1
Itinerant movements by type of operator — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Abbotsford	3,293	560	1,938	92	539	102	62
Boundary Bay	3,691	23	863	1,969	801	23	12
Calgary International	19,538	17,084	759	245	1,289	127	34
Calgary/Springbank	3,212	13	730	1,623	834	6	6
Chicoutimi/St-Honoré	1,666	385	79	1,157	43	2	0
Edmonton City Centre	3,616	1,466	507	722	554	355	12
Edmonton International	11,551	10,463	274	23	729	31	31
Edmonton/Villeneuve	507	2	95	252	155	3	0
Fort McMurray	3,360	1,670	1,016	34	610	30	0
Fredericton International	3,034	871	1,994	2	76	74	17
Gander International	1,600	495	665	17	146	52	225
Halifax/Robert L. Stanfield International	7,145	6,403	327	20	259	47	89
Hamilton	2,361	1,794	178	8	268	103	10
Kelowna	3,978	2,784	482	297	313	61	41
Kitchener/Waterloo	3,625	384	2,412	45	768	8	8
Langley	2,283	94	204	1,107	862	14	2
London	4,264	1,147	521	1,995	525	58	18
Moncton/Greater Moncton International	4,459	1,890	2,257	6	108	194	4
Montréal/Pierre Elliott Trudeau International	19,077	16,764	1,000	58	1,022	222	11
Montréal/St-Hubert	6,597	2,997	792	1,594	984	133	97
Oshawa	1,812	63	58	1,064	575	35	17
Ottawa/Macdonald-Cartier International	11,345	8,178	294	1,966	267	443	197
Pitt Meadows	2,301	8	658	582	784	71	198
Prince George	1,923	1,283	367	47	152	72	2
Québec/Jean Lesage International	7,208	3,976	1,929	273	679	327	24
Regina International	3,358	2,299	544	25	225	221	44
Saskatoon/John G. Diefenbaker International	4,975	3,072	859	345	340	299	60
Sault Ste. Marie	2,077	935	80	880	76	82	24
St. John's International	3,410	2,248	740	7	89	122	204
St-Jean	528	0	83	50	237	5	153
Thunder Bay	4,781	3,034	556	796	183	175	37
Toronto/Billy Bishop Toronto City	5,255	3,395	691	734	410	16	9
Toronto/Buttonville Municipal	4,691	213	2,408	91	1,923	54	2
Toronto/Lester B. Pearson International	36,701	34,769	715	37	1,124	48	8
Vancouver Harbour	3,583	3,259	244	13	63	0	4
Vancouver International	24,080	21,316	1,532	129	663	412	28
Victoria International	6,538	3,080	1,979	414	849	37	179
Whitehorse International	1,721	902	460	142	192	17	8
Windsor	1,425	524	568	30	281	18	4
Winnipeg/James Armstrong Richardson International	10,413	9,299	293	54	192	308	267
Winnipeg/St. Andrews	3,036	542	1,703	556	234	1	0
Yellowknife	4,215	3,392	540	64	97	83	39
Total of NAV CANADA towers (42)	254,233	173,076	34,394	19,565	20,520	4,491	2,187

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	809	111	283	22	111	50	232
Campbell River	1,170	593	161	146	243	19	8
Castlegar	579	235	88	229	15	6	6
Charlottetown	885	646	65	1	79	77	17
Churchill	950	863	20	18	8	31	10
Cranbrook	799	615	49	10	118	4	3
Deer Lake	1,216	981	193	7	7	22	6
Fort Nelson	1,581	530	940	10	80	0	21
Fort St. John	1,708	909	625	4	145	21	4
Grande Prairie	2,188	1,350	504	80	213	41	0
High Level	674	326	307	0	27	14	0
Îles-de-la-Madeleine	408	243	74	0	4	81	6
Inuvik/Mike Zubko	932	672	154	0	4	28	74
Iqaluit	1,605	1,324	93	52	88	36	12
Kamloops	1,608	1,079	220	33	257	8	11
Kenora	824	419	270	2	56	24	53
Kingston	1,488	500	321	326	300	20	21
Kuujuuaq	1,059	930	84	4	19	22	0
La Grande Rivière	885	654	119	8	16	16	72
La Ronge	1,389	1,271	23	0	40	53	2
Lethbridge	1,065	480	39	250	270	12	14
Lloydminster	640	238	182	12	165	39	4
Medicine Hat	772	452	165	12	132	4	7
Mont-Joli	429	347	21	16	16	29	0
Montréal/Mirabel International	1,764	892	425	90	337	8	12
Nanaimo	1,511	406	518	62	461	60	4
Norman Wells	671	607	52	1	2	7	2
North Bay	1,985	708	248	465	332	52	180
Ottawa/Gatineau	1,322	86	436	193	523	68	16
Peace River	600	458	92	0	34	16	0
Penticton	980	311	444	18	156	22	29
Port Hardy	530	432	20	2	18	40	18
Prince Albert	1,649	1,353	40	12	102	132	10
Prince Rupert	275	220	39	0	2	14	0
Rankin Inlet	1,359	1,099	184	58	8	6	4
Red Deer Regional	1,143	298	342	106	371	22	4
Rouyn-Noranda	1,030	643	174	46	131	34	2
Saint John	1,261	765	81	76	319	8	12
Sept-Îles	2,174	1,246	566	127	119	106	10
Sioux Lookout	2,504	1,875	518	7	25	77	2
Smithers	564	416	103	0	26	19	0
St. Catharines	1,028	10	663	65	260	24	6
Sudbury	2,356	1,522	391	98	275	58	12
Terrace	984	602	328	0	20	34	0
Thompson	2,736	2,380	187	10	15	144	0
Timmins	2,165	1,619	276	6	197	65	2
Val-d'Or	1,278	805	121	11	315	26	0
Victoria Harbour	2,715	2,544	14	2	11	132	12
Wabush	1,260	819	348	12	71	10	0
Whitecourt	469	8	331	97	27	6	0
Williams Lake	630	453	105	4	62	6	0
Total of all flight service stations (51)	62,606	38,345	12,046	2,810	6,632	1,853	920

Table 4-1
Itinerant movements by I.F.R. (Instrument flight rules) and V.F.R. (Visual flight rules) and runway 88 movements
— NAV CANADA towers

	Itinerant movements				Runway 88	
	Total of IFR and VFR flights ¹	Instrument flight rules	Percentage instrument flight rules	Visual flight rules		Percentage visual flight rules
	number		percent	number		percent
Abbotsford	3,293	782	23.7	2,511	76.2	1,315
Boundary Bay	3,691	303	8.2	3,388	91.7	577
Calgary International	19,538	18,864	96.5	674	3.4	418
Calgary/Springbank	3,212	261	8.1	2,951	91.8	106
Chicoutimi/St-Honoré	1,666	185	11.1	1,481	88.8	63
Edmonton City Centre	3,616	2,003	55.3	1,613	44.6	974
Edmonton International	11,551	11,233	97.2	318	2.7	422
Edmonton/Villeneuve	507	34	6.7	473	93.2	158
Fort McMurray	3,360	2,147	63.8	1,213	36.1	219
Fredericton International	3,034	1,056	34.8	1,978	65.1	78
Gander International	1,600	1,084	67.7	516	32.2	54
Halifax/Robert L Stanfield International	7,145	6,725	94.1	420	5.8	162
Hamilton	2,361	2,034	86.1	327	13.8	813
Kelowna	3,978	2,667	67.0	1,311	32.9	563
Kitchener/Waterloo	3,625	610	16.8	3,015	83.1	416
Langley	2,283	27	1.1	2,256	98.8	394
London	4,264	1,384	32.4	2,880	67.5	285
Moncton/Greater Moncton International	4,459	2,242	50.2	2,217	49.7	102
Montréal/Pierre Elliott Trudeau International	19,077	18,502	96.9	575	3.0	985
Montréal/St-Hubert	6,597	1,634	24.7	4,963	75.2	793
Oshawa	1,812	75	4.1	1,737	95.8	379
Ottawa/Macdonald-Cartier International	11,345	8,917	78.5	2,428	21.4	541
Pitt Meadows	2,301	14	0.6	2,287	99.3	1,512
Prince George	1,923	1,369	71.1	554	28.8	303
Québec/Jean Lesage International	7,208	4,927	68.3	2,281	31.6	623
Regina International	3,358	2,654	79.0	704	20.9	85
Saskatoon/John G Diefenbaker International	4,975	3,580	71.9	1,395	28.0	92
Sault Ste. Marie	2,077	1,072	51.6	1,005	48.3	99
St. John's International	3,410	3,014	88.3	396	11.6	79
St-Jean	528	15	2.8	513	97.1	254
Thunder Bay	4,781	3,453	72.2	1,328	27.7	116
Toronto/Billy Bishop Toronto City	5,255	3,663	69.7	1,592	30.2	1,583
Toronto/Buttonville Municipal	4,691	608	12.9	4,083	87.0	949
Toronto/Lester B Pearson International	36,701	36,610	99.7	91	0.2	180
Vancouver Harbour	3,583	37	1.0	3,546	98.9	1,301
Vancouver International	24,080	20,425	84.8	3,655	15.1	7,283
Victoria International	6,538	3,421	52.3	3,117	47.6	3,552
Whitehorse International	1,721	493	28.6	1,228	71.3	309
Windsor	1,425	685	48.0	740	51.9	61
Winnipeg/James Armstrong Richardson International	10,413	9,615	92.3	798	7.6	266
Winnipeg/St. Andrews	3,036	93	3.0	2,943	96.9	87
Yellowknife	4,215	2,119	50.2	2,096	49.7	484
Total of NAV CANADA towers (42)	254,233	180,636	71.1	73,597	28.9	29,035

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	809	198	24.4	611	75.5	5
Campbell River	1,170	552	47.1	618	52.8	231
Castlegar	579	254	43.8	325	56.1	76
Charlottetown	885	702	79.3	183	20.6	30
Churchill	950	895	94.2	55	5.7	66
Cranbrook	799	659	82.4	140	17.5	82
Deer Lake	1,216	1,142	93.9	74	6.0	16
Fort Nelson	1,581	554	35.0	1,027	64.9	161
Fort St. John	1,708	975	57.0	733	42.9	61
Grande Prairie	2,188	1,526	69.7	662	30.2	61
High Level	674	291	43.1	383	56.8	57
Îles-de-la-Madeleine	408	310	75.9	98	24.0	63
Inuvik/Mike Zubko	932	344	36.9	588	63.0	4
Iqaluit	1,605	1,188	74.0	417	25.9	1
Kamloops	1,608	1,199	74.5	409	25.4	344
Kenora	824	495	60.0	329	39.9	156
Kingston	1,488	621	41.7	867	58.2	184
Kuujuuaq	1,059	466	44.0	593	55.9	3
La Grande Rivière	885	668	75.4	217	24.5	217
La Ronge	1,389	700	50.3	689	49.6	306
Lethbridge	1,065	599	56.2	466	43.7	20
Lloydminster	640	254	39.6	386	60.3	42
Medicine Hat	772	471	61.0	301	38.9	98
Mont-Joli	429	387	90.2	42	9.7	13
Montréal/Mirabel International	1,764	1,145	64.9	619	35.0	479
Nanaimo	1,511	647	42.8	864	57.1	547
Norman Wells	671	204	30.4	467	69.5	17
North Bay	1,985	874	44.0	1,111	55.9	304
Ottawa/Gatineau	1,322	171	12.9	1,151	87.0	220
Peace River	600	405	67.5	195	32.5	5
Penticton	980	272	27.7	708	72.2	71
Port Hardy	530	236	44.5	294	55.4	241
Prince Albert	1,649	1,453	88.1	196	11.8	23
Prince Rupert	275	225	81.8	50	18.1	12
Rankin Inlet	1,359	1,157	85.1	202	14.8	0
Red Deer Regional	1,143	435	38.0	708	61.9	168
Rouyn-Noranda	1,030	880	85.4	150	14.5	37
Saint John	1,261	991	78.5	270	21.4	34
Sept-Îles	2,174	1,738	79.9	436	20.0	288
Sioux Lookout	2,504	1,923	76.7	581	23.2	209
Smithers	564	427	75.7	137	24.2	267
St. Catharines	1,028	96	9.3	932	90.6	204
Sudbury	2,356	1,715	72.7	641	27.2	79
Terrace	984	624	63.4	360	36.5	87
Thompson	2,736	1,694	61.9	1,042	38.0	9
Timmins	2,165	1,771	81.8	394	18.1	105
Val-d'Or	1,278	853	66.7	425	33.2	182
Victoria Harbour	2,715	55	2.0	2,660	97.9	891
Wabush	1,260	1,114	88.4	146	11.5	108
Whitecourt	469	18	3.8	451	96.1	30
Williams Lake	630	467	74.1	163	25.8	80
Total of all flight service stations (51)	62,606	37,040	59.2	25,566	40.8	6,994

1. Total excludes runway 88 flights.

Table 5-1
Itinerant movements by type of power plant — NAV CANADA towers

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Abbotsford	3,293	525	278	1,685	793	12
Boundary Bay	3,691	31	16	3,426	217	1
Calgary International	19,538	13,052	5,641	284	561	0
Calgary/Springbank	3,212	11	65	2,468	668	0
Chicoutimi/St-Honoré	1,666	2	75	1,253	336	0
Edmonton City Centre	3,616	268	1,639	1,020	689	0
Edmonton International	11,551	6,912	4,309	309	21	0
Edmonton/Villeneuve	507	7	16	366	118	0
Fort McMurray	3,360	1,208	1,152	413	587	0
Fredericton International	3,034	296	687	1,988	63	0
Gander International	1,600	421	587	437	155	0
Halifax/Robert L Stanfield International	7,145	4,030	2,635	266	214	0
Hamilton	2,361	1,270	796	156	139	0
Kelowna	3,978	1,193	1,509	890	386	0
Kitchener/Waterloo	3,625	170	396	2,806	253	0
Langley	2,283	0	94	1,689	499	1
London	4,264	454	984	2,682	143	1
Moncton/Greater Moncton International	4,459	1,190	883	2,330	56	0
Montréal/Pierre Elliott Trudeau International	19,077	12,765	5,676	414	222	0
Montréal/St-Hubert	6,597	219	1,005	5,082	291	0
Oshawa	1,812	5	15	1,698	94	0
Ottawa/Macdonald-Cartier International	11,345	5,994	2,975	2,118	258	0
Pitt Meadows	2,301	0	28	1,934	243	96
Prince George	1,923	403	1,009	226	285	0
Québec/Jean Lesage International	7,208	1,645	3,125	1,598	838	2
Regina International	3,358	1,820	732	773	33	0
Saskatoon/John G Diefenbaker International	4,975	1,707	1,802	1,439	27	0
Sault Ste. Marie	2,077	41	1,025	955	56	0
St. John's International	3,410	1,238	1,760	23	389	0
St-Jean	528	0	5	479	26	18
Thunder Bay	4,781	785	2,770	946	280	0
Toronto/Billy Bishop Toronto City	5,255	6	3,588	1,366	295	0
Toronto/Buttonville Municipal	4,691	50	261	4,128	252	0
Toronto/Lester B Pearson International	36,701	30,942	5,718	36	5	0
Vancouver Harbour	3,583	0	2,153	715	715	0
Vancouver International	24,080	11,928	9,251	2,104	797	0
Victoria International	6,538	1,051	2,255	2,851	381	0
Whitehorse International	1,721	318	587	552	264	0
Windsor	1,425	96	687	619	23	0
Winnipeg/James Armstrong Richardson International	10,413	5,360	4,309	596	148	0
Winnipeg/St. Andrews	3,036	2	472	2,355	207	0
Yellowknife	4,215	788	2,532	334	561	0
Total of NAV CANADA towers (42)	254,233	108,203	75,502	57,809	12,588	131

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	809	43	316	422	28	0
Campbell River	1,170	37	625	248	260	0
Castlegar	579	10	248	238	83	0
Charlottetown	885	303	385	100	97	0
Churchill	950	8	901	21	20	0
Cranbrook	799	23	593	161	22	0
Deer Lake	1,216	169	983	33	31	0
Fort Nelson	1,581	88	460	160	873	0
Fort St. John	1,708	289	677	198	544	0
Grande Prairie	2,188	247	1,171	394	376	0
High Level	674	5	359	228	82	0
Îles-de-la-Madeleine	408	21	294	62	31	0
Inuvik/Mike Zubko	932	137	615	63	117	0
Iqaluit	1,605	422	1,079	22	82	0
Kamloops	1,608	109	1,033	265	201	0
Kenora	824	12	540	182	90	0
Kingston	1,488	30	563	836	59	0
Kuujuuaq	1,059	146	841	6	66	0
La Grande Rivière	885	88	730	16	51	0
La Ronge	1,389	4	1,075	276	34	0
Lethbridge	1,065	80	504	453	28	0
Lloydminster	640	10	274	321	35	0
Medicine Hat	772	15	460	272	25	0
Mont-Joli	429	18	376	30	5	0
Montréal/Mirabel International	1,764	668	364	411	321	0
Nanaimo	1,511	32	434	972	73	0
Norman Wells	671	190	252	179	50	0
North Bay	1,985	133	891	348	613	0
Ottawa/Gatineau	1,322	7	106	945	264	0
Peace River	600	6	400	112	82	0
Penticton	980	17	306	329	328	0
Port Hardy	530	8	379	88	55	0
Prince Albert	1,649	2	1,439	168	40	0
Prince Rupert	275	15	217	2	41	0
Rankin Inlet	1,359	175	991	9	184	0
Red Deer Regional	1,143	41	410	663	29	0
Rouyn-Noranda	1,030	96	825	103	6	0
Saint John	1,261	298	572	333	58	0
Sept-Îles	2,174	71	1,587	273	243	0
Sioux Lookout	2,504	0	2,139	299	66	0
Smithers	564	19	462	15	68	0
St. Catharines	1,028	24	32	747	225	0
Sudbury	2,356	49	1,693	419	195	0
Terrace	984	16	626	16	326	0
Thompson	2,736	10	2,352	255	119	0
Timmins	2,165	53	1,884	175	53	0
Val-d'Or	1,278	155	739	232	152	0
Victoria Harbour	2,715	0	1,850	100	765	0
Wabush	1,260	21	1,049	126	64	0
Whitecourt	469	3	14	37	415	0
Williams Lake	630	16	449	84	81	0
Total of all flight service stations (51)	62,606	4,439	37,564	12,447	8,156	0

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	2,088	276	223	124	25	60	481	16	0	0
Boundary Bay	3,322	318	48	3	0	0	0	0	0	0
Calgary International	503	427	1,458	1,976	1,073	4,553	7,682	816	283	767
Calgary/Springbank	2,877	246	85	2	0	2	0	0	0	0
Chicoutimi/St-Honoré	1,404	185	75	2	0	0	0	0	0	0
Edmonton City Centre	1,324	440	1,438	278	119	17	0	0	0	0
Edmonton International	198	216	734	1,306	624	2,750	4,953	365	202	203
Edmonton/Villeneuve	421	53	30	3	0	0	0	0	0	0
Fort McMurray	872	317	431	442	71	807	416	4	0	0
Fredericton International	1,896	148	200	250	162	348	8	6	0	16
Gander International	368	20	31	482	263	227	40	128	17	24
Halifax/Robert L Stanfield International	95	244	420	1,245	698	1,833	1,979	255	200	176
Hamilton	197	466	177	361	172	44	257	4	539	144
Kelowna	1,128	165	224	585	59	795	971	41	10	0
Kitchener/Waterloo	2,975	99	367	48	54	17	59	6	0	0
Langley	2,123	117	36	0	7	0	0	0	0	0
London	2,709	230	199	102	482	332	200	6	4	0
Moncton/Greater Moncton International	2,237	147	293	473	107	723	183	0	296	0
Montréal/Pierre Elliott Trudeau International	510	130	615	847	2,989	5,666	4,955	1,821	109	1,435
Montréal/St-Hubert	4,679	600	818	310	162	17	9	2	0	0
Oshawa	1,703	75	22	3	7	2	0	0	0	0
Ottawa/Macdonald-Cartier International	2,152	162	977	273	650	3,233	3,162	394	97	245
Pitt Meadows	2,131	134	30	4	0	2	0	0	0	0
Prince George	411	103	146	649	16	413	185	0	0	0
Québec/Jean Lesage International	1,982	446	869	381	1,190	1,743	367	8	0	222
Regina International	643	163	355	404	46	928	717	4	90	8
Saskatoon/John G Diefenbaker International	1,207	296	648	813	184	1,078	707	7	31	4
Sault Ste. Marie	962	118	529	71	285	94	16	2	0	0
St. John's International	16	20	327	625	823	535	743	233	84	4
St-Jean	515	4	9	0	0	0	0	0	0	0
Thunder Bay	1,021	212	2,197	228	63	818	237	5	0	0
Toronto/Billy Bishop Toronto City	1,395	131	453	60	14	3,202	0	0	0	0
Toronto/Buttonville Municipal	4,041	421	173	33	12	11	0	0	0	0
Toronto/Lester B Pearson International	12	134	343	2,180	3,976	7,893	14,076	4,140	573	3,374
Vancouver Harbour	69	2,482	1,028	0	4	0	0	0	0	0
Vancouver International	606	3,088	927	2,588	1,763	5,193	6,008	1,280	479	2,148
Victoria International	2,362	965	194	392	699	1,301	561	26	38	0
Whitehorse International	668	388	156	107	15	263	124	0	0	0
Windsor	558	280	62	70	387	46	22	0	0	0
Winnipeg/James Armstrong Richardson International	414	441	2,900	388	794	2,104	2,361	231	713	67
Winnipeg/St. Andrews	2,233	694	109	0	0	0	0	0	0	0
Yellowknife	517	555	932	322	260	887	591	151	0	0
Total of NAV CANADA towers (42)	57,544	16,156	21,288	18,430	18,255	47,937	52,070	9,951	3,765	8,837

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	412	27	209	31	20	34	2	74	0	0
Campbell River	463	56	34	486	125	6	0	0	0	0
Castlegar	277	36	27	68	48	121	0	2	0	0
Charlottetown	70	195	59	204	62	243	48	2	2	0
Churchill	20	23	158	128	157	458	0	6	0	0
Cranbrook	128	54	60	183	172	202	0	0	0	0
Deer Lake	50	10	36	342	585	87	102	4	0	0
Fort Nelson	722	92	289	208	173	61	36	0	0	0
Fort St. John	703	33	174	350	147	301	0	0	0	0
Grande Prairie	568	201	503	280	84	357	195	0	0	0
High Level	190	177	177	130	0	0	0	0	0	0
Îles-de-la-Madeleine	0	85	124	16	130	49	4	0	0	0
Inuvik/Mike Zubko	140	13	526	18	4	82	99	50	0	0
Iqaluit	28	12	441	124	282	352	302	12	0	52
Kamloops	345	77	134	331	141	509	71	0	0	0
Kenora	137	63	592	8	20	2	0	2	0	0
Kingston	825	62	113	339	119	24	0	6	0	0
Kuujuuaq	66	6	631	6	107	119	102	0	0	22
La Grande Rivière	13	14	222	20	116	428	70	2	0	0
La Ronge	114	234	675	78	200	88	0	0	0	0
Lethbridge	391	104	145	365	50	8	2	0	0	0
Lloydminster	283	63	140	140	10	4	0	0	0	0
Medicine Hat	257	35	209	235	32	2	2	0	0	0
Mont-Joli	18	15	118	110	155	13	0	0	0	0
Montréal/Mirabel International	570	194	54	130	34	212	61	13	314	182
Nanaimo	577	447	77	32	51	327	0	0	0	0
Norman Wells	182	126	129	18	0	26	188	2	0	0
North Bay	862	208	388	165	180	158	8	14	0	2
Ottawa/Gatineau	1,107	89	29	84	7	0	0	6	0	0
Peace River	92	94	363	39	12	0	0	0	0	0
Penticton	631	22	22	118	29	157	1	0	0	0
Port Hardy	32	100	166	82	138	12	0	0	0	0
Prince Albert	126	73	334	474	273	369	0	0	0	0
Prince Rupert	2	39	22	36	45	131	0	0	0	0
Rankin Inlet	177	12	242	168	295	300	162	0	1	2
Red Deer Regional	570	112	229	187	35	10	0	0	0	0
Rouyn-Noranda	103	8	388	35	264	164	66	2	0	0
Saint John	139	244	146	252	204	264	12	0	0	0
Sept-Îles	265	249	493	556	451	137	19	4	0	0
Sioux Lookout	118	283	1,415	650	38	0	0	0	0	0
Smithers	77	23	97	214	34	119	0	0	0	0
St. Catharines	841	123	36	22	4	0	0	2	0	0
Sudbury	369	257	1,028	229	311	141	17	4	0	0
Terrace	261	81	131	192	112	207	0	0	0	0
Thompson	124	286	1,704	16	110	492	2	2	0	0
Timmins	153	217	1,005	96	464	228	0	2	0	0
Val-d'Or	347	22	212	115	316	161	53	0	0	52
Victoria Harbour	32	1,614	1,056	0	13	0	0	0	0	0
Wabush	59	123	284	383	403	8	0	0	0	0
Whitecourt	435	13	16	2	3	0	0	0	0	0
Williams Lake	158	5	12	450	5	0	0	0	0	0
Total of all flight service stations (51)	14,629	6,751	15,874	8,945	6,770	7,173	1,624	211	317	312

Table 7-1
Itinerant movements, domestic, transborder and international — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Abbotsford							
Domestic	3,217	526	1,921	88	518	102	62
Transborder	46	4	17	4	21	0	0
Other international	30	30	0	0	0	0	0
Total	3,293	560	1,938	92	539	102	62
Boundary Bay							
Domestic	3,619	21	861	1,954	748	23	12
Transborder	71	2	2	15	52	0	0
Other international	1	0	0	0	1	0	0
Total	3,691	23	863	1,969	801	23	12
Calgary International							
Domestic	15,286	13,249	646	240	996	127	28
Transborder	3,489	3,086	110	5	282	0	6
Other international	763	749	3	0	11	0	0
Total	19,538	17,084	759	245	1,289	127	34
Calgary/Springbank							
Domestic	3,166	12	729	1,619	794	6	6
Transborder	46	1	1	4	40	0	0
Other international	0	0	0	0	0	0	0
Total	3,212	13	730	1,623	834	6	6
Chicoutimi/St-Honoré							
Domestic	1,666	385	79	1,157	43	2	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,666	385	79	1,157	43	2	0
Edmonton City Centre							
Domestic	3,580	1,458	499	718	538	355	12
Transborder	36	8	8	4	16	0	0
Other international	0	0	0	0	0	0	0
Total	3,616	1,466	507	722	554	355	12
Edmonton International							
Domestic	9,829	8,834	254	20	664	29	28
Transborder	1,446	1,356	20	3	64	0	3
Other international	276	273	0	0	1	2	0
Total	11,551	10,463	274	23	729	31	31
Edmonton/Villeneuve							
Domestic	506	2	95	252	154	3	0
Transborder	0	0	0	0	0	0	0
Other international	1	0	0	0	1	0	0
Total	507	2	95	252	155	3	0
Fort McMurray							
Domestic	3,356	1,670	1,014	34	608	30	0
Transborder	4	0	2	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	3,360	1,670	1,016	34	610	30	0
Fredericton International							
Domestic	3,008	855	1,993	2	68	74	16
Transborder	17	8	0	0	8	0	1
Other international	9	8	1	0	0	0	0
Total	3,034	871	1,994	2	76	74	17
Gander International							
Domestic	1,210	383	663	3	9	52	100
Transborder	174	42	0	6	64	0	62
Other international	216	70	2	8	73	0	63
Total	1,600	495	665	17	146	52	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	5,513	4,924	316	20	151	46	56
Transborder	1,144	1,027	7	0	92	1	17
Other international	488	452	4	0	16	0	16
Total	7,145	6,403	327	20	259	47	89
Hamilton							
Domestic	1,611	1,203	143	7	149	99	10
Transborder	687	535	34	1	113	4	0
Other international	63	56	1	0	6	0	0
Total	2,361	1,794	178	8	268	103	10
Kelowna							
Domestic	3,634	2,510	477	297	252	61	37
Transborder	294	224	5	0	61	0	4
Other international	50	50	0	0	0	0	0
Total	3,978	2,784	482	297	313	61	41
Kitchener/Waterloo							
Domestic	3,450	349	2,378	44	663	8	8
Transborder	169	31	34	1	103	0	0
Other international	6	4	0	0	2	0	0
Total	3,625	384	2,412	45	768	8	8
Langley							
Domestic	2,280	94	203	1,107	860	14	2
Transborder	3	0	1	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,283	94	204	1,107	862	14	2
London							
Domestic	3,974	939	513	1,993	456	57	16
Transborder	272	192	8	2	67	1	2
Other international	18	16	0	0	2	0	0
Total	4,264	1,147	521	1,995	525	58	18
Moncton/Greater Moncton International							
Domestic	4,286	1,727	2,257	6	98	194	4
Transborder	136	126	0	0	10	0	0
Other international	37	37	0	0	0	0	0
Total	4,459	1,890	2,257	6	108	194	4
Montréal/Pierre Elliott Trudeau International							
Domestic	10,146	8,501	787	45	581	222	10
Transborder	6,365	5,763	178	5	418	0	1
Other international	2,566	2,500	35	8	23	0	0
Total	19,077	16,764	1,000	58	1,022	222	11
Montréal/St-Hubert							
Domestic	6,454	2,978	788	1,592	869	130	97
Transborder	143	19	4	2	115	3	0
Other international	0	0	0	0	0	0	0
Total	6,597	2,997	792	1,594	984	133	97
Oshawa							
Domestic	1,777	60	55	1,064	546	35	17
Transborder	33	3	3	0	27	0	0
Other international	2	0	0	0	2	0	0
Total	1,812	63	58	1,064	575	35	17
Ottawa/Macdonald-Cartier International							
Domestic	8,723	5,718	252	1,956	192	426	179
Transborder	2,170	2,023	42	10	73	17	5
Other international	452	437	0	0	2	0	13
Total	11,345	8,178	294	1,966	267	443	197

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	2,301	8	658	582	784	71	198
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,301	8	658	582	784	71	198
Prince George							
Domestic	1,903	1,273	367	47	142	72	2
Transborder	10	1	0	0	9	0	0
Other international	10	9	0	0	1	0	0
Total	1,923	1,283	367	47	152	72	2
Québec/Jean Lesage International							
Domestic	6,373	3,202	1,915	270	641	327	18
Transborder	514	460	13	3	36	0	2
Other international	321	314	1	0	2	0	4
Total	7,208	3,976	1,929	273	679	327	24
Regina International							
Domestic	2,886	1,892	539	22	170	220	43
Transborder	406	341	5	3	55	1	1
Other international	66	66	0	0	0	0	0
Total	3,358	2,299	544	25	225	221	44
Saskatoon/John G Diefenbaker International							
Domestic	4,638	2,780	854	345	306	295	58
Transborder	282	239	5	0	33	4	1
Other international	55	53	0	0	1	0	1
Total	4,975	3,072	859	345	340	299	60
Sault Ste. Marie							
Domestic	2,048	927	75	879	66	78	23
Transborder	13	1	1	1	9	0	1
Other international	16	7	4	0	1	4	0
Total	2,077	935	80	880	76	82	24
St. John's International							
Domestic	3,027	2,078	727	3	43	118	58
Transborder	189	79	1	2	30	1	76
Other international	194	91	12	2	16	3	70
Total	3,410	2,248	740	7	89	122	204
St-Jean							
Domestic	527	0	83	50	237	5	152
Transborder	1	0	0	0	0	0	1
Other international	0	0	0	0	0	0	0
Total	528	0	83	50	237	5	153
Thunder Bay							
Domestic	4,729	3,012	550	781	176	175	35
Transborder	32	2	6	15	7	0	2
Other international	20	20	0	0	0	0	0
Total	4,781	3,034	556	796	183	175	37
Toronto/Billy Bishop Toronto City							
Domestic	3,999	2,228	673	734	342	14	8
Transborder	1,256	1,167	18	0	68	2	1
Other international	0	0	0	0	0	0	0
Total	5,255	3,395	691	734	410	16	9
Toronto/Buttonville Municipal							
Domestic	4,490	196	2,385	83	1,770	54	2
Transborder	199	17	23	7	152	0	0
Other international	2	0	0	1	1	0	0
Total	4,691	213	2,408	91	1,923	54	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	14,709	13,949	351	12	341	48	8
Transborder	16,433	15,363	311	17	742	0	0
Other international	5,559	5,457	53	8	41	0	0
Total	36,701	34,769	715	37	1,124	48	8
Vancouver Harbour							
Domestic	3,580	3,259	244	13	60	0	4
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	3,583	3,259	244	13	63	0	4
Vancouver International							
Domestic	17,829	15,444	1,486	87	379	411	22
Transborder	4,634	4,277	42	40	272	1	2
Other international	1,617	1,595	4	2	12	0	4
Total	24,080	21,316	1,532	129	663	412	28
Victoria International							
Domestic	5,902	2,563	1,955	412	759	37	176
Transborder	595	476	24	2	90	0	3
Other international	41	41	0	0	0	0	0
Total	6,538	3,080	1,979	414	849	37	179
Whitehorse International							
Domestic	1,697	893	460	141	178	17	8
Transborder	23	8	0	1	14	0	0
Other international	1	1	0	0	0	0	0
Total	1,721	902	460	142	192	17	8
Windsor							
Domestic	1,278	454	558	30	214	18	4
Transborder	133	62	10	0	61	0	0
Other international	14	8	0	0	6	0	0
Total	1,425	524	568	30	281	18	4
Winnipeg/James Armstrong Richardson International							
Domestic	8,844	7,837	272	44	131	307	253
Transborder	1,302	1,199	21	10	60	1	11
Other international	267	263	0	0	1	0	3
Total	10,413	9,299	293	54	192	308	267
Winnipeg/St. Andrews							
Domestic	3,032	542	1,703	554	232	1	0
Transborder	4	0	0	2	2	0	0
Other international	0	0	0	0	0	0	0
Total	3,036	542	1,703	556	234	1	0
Yellowknife							
Domestic	4,203	3,390	539	63	90	83	38
Transborder	7	2	1	1	3	0	0
Other international	5	0	0	0	4	0	1
Total	4,215	3,392	540	64	97	83	39
Total of NAV CANADA towers (42)							
Domestic	198,286	122,325	33,317	19,370	17,018	4,446	1,810
Transborder	42,781	38,144	957	166	3,276	36	202
Other international	13,166	12,607	120	29	226	9	175
Total	254,233	173,076	34,394	19,565	20,520	4,491	2,187

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	800	109	282	22	105	50	232
Transborder	9	2	1	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	809	111	283	22	111	50	232
Campbell River							
Domestic	1,145	593	160	146	219	19	8
Transborder	25	0	1	0	24	0	0
Other international	0	0	0	0	0	0	0
Total	1,170	593	161	146	243	19	8
Castlegar							
Domestic	572	235	87	229	9	6	6
Transborder	7	0	1	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	579	235	88	229	15	6	6
Charlottetown							
Domestic	876	641	64	1	76	77	17
Transborder	6	2	1	0	3	0	0
Other international	3	3	0	0	0	0	0
Total	885	646	65	1	79	77	17
Churchill							
Domestic	950	863	20	18	8	31	10
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	950	863	20	18	8	31	10
Cranbrook							
Domestic	779	609	47	10	106	4	3
Transborder	20	6	2	0	12	0	0
Other international	0	0	0	0	0	0	0
Total	799	615	49	10	118	4	3
Deer Lake							
Domestic	1,209	974	193	7	7	22	6
Transborder	0	0	0	0	0	0	0
Other international	7	7	0	0	0	0	0
Total	1,216	981	193	7	7	22	6
Fort Nelson							
Domestic	1,580	530	940	9	80	0	21
Transborder	1	0	0	1	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,581	530	940	10	80	0	21
Fort St. John							
Domestic	1,708	909	625	4	145	21	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,708	909	625	4	145	21	4
Grande Prairie							
Domestic	2,186	1,350	504	80	211	41	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,188	1,350	504	80	213	41	0
High Level							
Domestic	674	326	307	0	27	14	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	674	326	307	0	27	14	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	408	243	74	0	4	81	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	408	243	74	0	4	81	6
Inuvik/Mike Zubko							
Domestic	932	672	154	0	4	28	74
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	932	672	154	0	4	28	74
Iqaluit							
Domestic	1,534	1,293	88	50	57	36	10
Transborder	24	6	3	1	14	0	0
Other international	47	25	2	1	17	0	2
Total	1,605	1,324	93	52	88	36	12
Kamloops							
Domestic	1,578	1,071	220	31	237	8	11
Transborder	30	8	0	2	20	0	0
Other international	0	0	0	0	0	0	0
Total	1,608	1,079	220	33	257	8	11
Kenora							
Domestic	822	419	270	2	55	24	52
Transborder	2	0	0	0	1	0	1
Other international	0	0	0	0	0	0	0
Total	824	419	270	2	56	24	53
Kingston							
Domestic	1,466	496	317	326	286	20	21
Transborder	22	4	4	0	14	0	0
Other international	0	0	0	0	0	0	0
Total	1,488	500	321	326	300	20	21
Kuujuuaq							
Domestic	1,058	930	84	4	18	22	0
Transborder	0	0	0	0	0	0	0
Other international	1	0	0	0	1	0	0
Total	1,059	930	84	4	19	22	0
La Grande Rivière							
Domestic	885	654	119	8	16	16	72
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	885	654	119	8	16	16	72
La Ronge							
Domestic	1,389	1,271	23	0	40	53	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,389	1,271	23	0	40	53	2
Lethbridge							
Domestic	1,000	472	34	250	219	12	13
Transborder	65	8	5	0	51	0	1
Other international	0	0	0	0	0	0	0
Total	1,065	480	39	250	270	12	14
Lloydminster							
Domestic	638	237	182	12	164	39	4
Transborder	2	1	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	640	238	182	12	165	39	4

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	764	449	165	12	130	4	4
Transborder	8	3	0	0	2	0	3
Other international	0	0	0	0	0	0	0
Total	772	452	165	12	132	4	7
Mont-Joli							
Domestic	429	347	21	16	16	29	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	429	347	21	16	16	29	0
Montréal/Mirabel International							
Domestic	1,530	677	425	89	321	8	10
Transborder	230	212	0	0	16	0	2
Other international	4	3	0	1	0	0	0
Total	1,764	892	425	90	337	8	12
Nanaimo							
Domestic	1,483	405	514	62	438	60	4
Transborder	28	1	4	0	23	0	0
Other international	0	0	0	0	0	0	0
Total	1,511	406	518	62	461	60	4
Norman Wells							
Domestic	671	607	52	1	2	7	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	671	607	52	1	2	7	2
North Bay							
Domestic	1,967	706	246	465	318	52	180
Transborder	18	2	2	0	14	0	0
Other international	0	0	0	0	0	0	0
Total	1,985	708	248	465	332	52	180
Ottawa/Gatineau							
Domestic	1,318	86	436	193	519	68	16
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	1,322	86	436	193	523	68	16
Peace River							
Domestic	600	458	92	0	34	16	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	600	458	92	0	34	16	0
Penticton							
Domestic	971	309	443	18	150	22	29
Transborder	8	1	1	0	6	0	0
Other international	1	1	0	0	0	0	0
Total	980	311	444	18	156	22	29
Port Hardy							
Domestic	527	432	20	2	15	40	18
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	530	432	20	2	18	40	18
Prince Albert							
Domestic	1,649	1,353	40	12	102	132	10
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,649	1,353	40	12	102	132	10

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	274	220	39	0	1	14	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	275	220	39	0	2	14	0
Rankin Inlet							
Domestic	1,359	1,099	184	58	8	6	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,359	1,099	184	58	8	6	4
Red Deer Regional							
Domestic	1,127	297	336	106	362	22	4
Transborder	16	1	6	0	9	0	0
Other international	0	0	0	0	0	0	0
Total	1,143	298	342	106	371	22	4
Rouyn-Noranda							
Domestic	1,029	643	174	46	131	33	2
Transborder	1	0	0	0	0	1	0
Other international	0	0	0	0	0	0	0
Total	1,030	643	174	46	131	34	2
Saint John							
Domestic	1,142	752	80	75	215	8	12
Transborder	105	3	1	1	100	0	0
Other international	14	10	0	0	4	0	0
Total	1,261	765	81	76	319	8	12
Sept-Îles							
Domestic	2,164	1,246	566	126	111	106	9
Transborder	10	0	0	1	8	0	1
Other international	0	0	0	0	0	0	0
Total	2,174	1,246	566	127	119	106	10
Sioux Lookout							
Domestic	2,502	1,874	518	7	24	77	2
Transborder	2	1	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,504	1,875	518	7	25	77	2
Smithers							
Domestic	560	416	103	0	22	19	0
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	564	416	103	0	26	19	0
St. Catharines							
Domestic	993	6	654	65	239	24	5
Transborder	35	4	9	0	21	0	1
Other international	0	0	0	0	0	0	0
Total	1,028	10	663	65	260	24	6
Sudbury							
Domestic	2,334	1,518	387	98	261	58	12
Transborder	22	4	4	0	14	0	0
Other international	0	0	0	0	0	0	0
Total	2,356	1,522	391	98	275	58	12
Terrace							
Domestic	983	602	328	0	19	34	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	984	602	328	0	20	34	0

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Thompson							
Domestic	2,735	2,379	187	10	15	144	0
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,736	2,380	187	10	15	144	0
Timmins							
Domestic	2,158	1,618	276	6	191	65	2
Transborder	7	1	0	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	2,165	1,619	276	6	197	65	2
Val-d'Or							
Domestic	1,277	804	121	11	315	26	0
Transborder	0	0	0	0	0	0	0
Other international	1	1	0	0	0	0	0
Total	1,278	805	121	11	315	26	0
Victoria Harbour							
Domestic	2,506	2,335	14	2	11	132	12
Transborder	209	209	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,715	2,544	14	2	11	132	12
Wabush							
Domestic	1,257	819	348	12	68	10	0
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,260	819	348	12	71	10	0
Whitecourt							
Domestic	468	8	331	97	26	6	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	469	8	331	97	27	6	0
Williams Lake							
Domestic	629	453	105	4	61	6	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	630	453	105	4	62	6	0
Total of all flight service stations (51)							
Domestic	61,595	37,815	11,999	2,802	6,218	1,852	909
Transborder	933	480	45	6	392	1	9
Other international	78	50	2	2	22	0	2
Total	62,606	38,345	12,046	2,810	6,632	1,853	920

Table 8-1
Total aircraft movements, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	18	7,949	28	12	92	7	542
Boundary Bay	15	8,883	5	13	95	7	641
Calgary International	3	19,684	17	18	63	29	754
Calgary/Springbank	16	8,766	3	15	109	29	682
Chicoutimi/St-Honoré	24	6,132	23	22	183	29	764
Edmonton City Centre	32	4,034	12	11	42	31	251
Edmonton International	7	11,829	31	16	43	30	488
Edmonton/Villeneuve	31	4,407	18	15	80	31	433
Fort McMurray	33	3,786	8	15	35	17	272
Fredericton International	25	6,066	20	16	57	9	477
Gander International	40	2,252	11	15	46	11	190
Halifax/Robert L Stanfield International	19	7,383	21	18	30	24	281
Hamilton	38	3,265	22	10	32	22	189
Kelowna	26	5,860	8	9	53	18	325
Kitchener/Waterloo	13	9,185	14	13	116	14	660
Langley	27	5,267	6	11	88	5	354
London	12	9,368	25	12	88	29	576
Moncton/Greater Moncton International	22	6,847	30	14	61	30	515
Montréal/Pierre Elliott Trudeau International	4	19,141	1	18	66	8	685
Montréal/St-Hubert	5	14,179	31	16	154	15	1,196
Oshawa	36	3,490	24	13	52	20	270
Ottawa/Macdonald-Cartier International	6	14,031	15	15	120	30	709
Pitt Meadows	21	7,079	17	12	87	7	549
Prince George	37	3,309	17	11	53	17	227
Québec/Jean Lesage International	9	10,756	13	15	81	15	658
Regina International	29	4,438	8	14	37	31	252
Saskatoon/John G Diefenbaker International	20	7,153	10	16	56	9	384
Sault Ste. Marie	30	4,433	10	16	66	11	333
St. John's International	34	3,602	8	9	19	22	153
St-Jean	42	2,118	25	11	53	31	238
Thunder Bay	23	6,347	15	13	60	25	365
Toronto/Billy Bishop Toronto City	17	8,059	13	11	82	13	502
Toronto/Buttonville Municipal	11	9,495	14	12	130	14	826
Toronto/Lester B Pearson International	1	36,797	7	15	99	11	1,312
Vancouver Harbour	35	3,585	9	8	22	16	151
Vancouver International	2	24,102	31	18	68	24	865
Victoria International	10	10,404	7	12	71	7	627
Whitehorse International	39	3,139	29	12	45	31	239
Windsor	41	2,144	29	15	31	14	156
Winnipeg/James Armstrong Richardson International	8	11,525	2	16	53	2	533
Winnipeg/St. Andrews	14	9,070	27	19	94	29	611
Yellowknife	28	5,093	17	13	45	25	333

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	1,603	25	13	51	25	165
Campbell River	23	1,614	11	9	43	20	127
Castlegar	42	875	5	15	44	6	71
Charlottetown	38	953	21	17	10	21	55
Churchill	37	978	16	15	20	16	59
Cranbrook	40	925	5	12	18	18	56
Deer Lake	29	1,346	31	10	26	31	95
Fort Nelson	17	1,849	23	16	32	23	101
Fort St. John	5	3,155	28	15	68	27	252
Grande Prairie	3	3,326	11	16	74	8	282
High Level	45	706	16	11	11	30	49
Îles-de-la-Madeleine	50	408	23	16	9	23	34
Inuvik/Mike Zubko	35	1,050	11	13	28	14	57
Iqaluit	20	1,675	4	11	20	14	97
Kamloops	13	2,476	31	9	52	17	139
Kenora	33	1,162	9	16	38	30	86
Kingston	6	2,864	13	16	49	19	201
Kuujuuaq	31	1,197	16	9	30	16	76
La Grande Rivière	41	887	7	14	10	3	49
La Ronge	25	1,574	4	14	26	3	101
Lethbridge	26	1,515	19	12	31	19	107
Lloydminster	36	1,046	17	10	29	17	96
Medicine Hat	39	936	13	10	19	19	88
Mont-Joli	49	443	9	11	7	8	36
Montréal/Mirabel International	7	2,816	14	11	43	15	198
Nanaimo	16	2,097	12	12	41	23	148
Norman Wells	44	711	26	13	13	24	39
North Bay	1	4,359	14	15	80	24	357
Ottawa/Gatineau	2	3,794	15	15	66	20	367
Peace River	46	684	1	14	15	9	44
Penticton	12	2,544	9	11	58	25	261
Port Hardy	47	683	29	11	17	7	45
Prince Albert	21	1,665	15	13	14	24	82
Prince Rupert	51	289	10	9	8	10	21
Rankin Inlet	28	1,359	16	13	13	7	73
Red Deer Regional	18	1,809	31	11	49	18	189
Rouyn-Noranda	32	1,182	15	14	20	31	84
Saint John	22	1,653	9	18	25	9	127
Sept-Îles	14	2,386	24	10	25	15	120
Sioux Lookout	11	2,576	16	20	21	22	122
Smithers	48	612	26	17	15	31	37
St. Catharines	10	2,692	22	17	70	22	241
Sudbury	4	3,173	29	19	50	30	215
Terrace	34	1,092	23	12	22	3	86
Thompson	8	2,796	1	15	19	3	121
Timmins	15	2,307	23	21	26	23	146
Val-d'Or	19	1,754	19	10	33	16	138
Victoria Harbour	9	2,739	3	8	24	14	128
Wabush	30	1,260	2	11	10	8	61
Whitecourt	27	1,393	8	10	51	1	154
Williams Lake	43	728	3	13	20	3	47

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	27	3,293	23	16	31	23	215
Boundary Bay	20	3,691	20	12	43	23	326
Calgary International	3	19,538	17	18	63	8	740
Calgary/Springbank	28	3,212	29	15	34	29	280
Chicoutimi/St-Honoré	38	1,666	23	14	18	30	125
Edmonton City Centre	22	3,616	7	15	24	31	239
Edmonton International	5	11,551	2	7	41	1	475
Edmonton/Villeneuve	42	507	12	15	10	12	43
Fort McMurray	25	3,360	8	15	21	8	172
Fredericton International	30	3,034	9	11	18	4	199
Gander International	39	1,600	10	14	12	10	101
Halifax/Robert L Stanfield International	9	7,145	15	11	25	24	273
Hamilton	31	2,361	10	7	14	30	125
Kelowna	19	3,978	18	12	19	18	177
Kitchener/Waterloo	21	3,625	27	13	30	8	247
Langley	33	2,283	6	13	28	20	155
London	17	4,264	3	16	28	7	254
Moncton/Greater Moncton International	16	4,459	15	16	26	15	302
Montréal/Pierre Elliott Trudeau International	4	19,077	1	18	66	22	680
Montréal/St-Hubert	10	6,597	20	12	55	15	486
Oshawa	36	1,812	20	13	29	15	180
Ottawa/Macdonald-Cartier International	6	11,345	1	16	42	15	475
Pitt Meadows	32	2,301	20	11	42	20	288
Prince George	35	1,923	25	16	16	17	81
Québec/Jean Lesage International	8	7,208	20	16	32	15	350
Regina International	26	3,358	25	14	19	24	147
Saskatoon/John G Diefenbaker International	13	4,975	9	16	28	9	236
Sault Ste. Marie	34	2,077	25	15	18	30	99
St. John's International	24	3,410	3	12	13	22	149
St-Jean	41	528	31	11	23	31	102
Thunder Bay	14	4,781	24	15	26	31	228
Toronto/Billy Bishop Toronto City	12	5,255	20	15	27	30	232
Toronto/Buttonville Municipal	15	4,691	15	15	44	14	318
Toronto/Lester B Pearson International	1	36,701	11	19	97	11	1,308
Vancouver Harbour	23	3,583	9	8	22	16	151
Vancouver International	2	24,080	31	18	68	24	863
Victoria International	11	6,538	19	13	33	7	293
Whitehorse International	37	1,721	21	15	11	31	83
Windsor	40	1,425	8	16	12	3	68
Winnipeg/James Armstrong Richardson International	7	10,413	25	17	38	23	419
Winnipeg/St. Andrews	29	3,036	4	13	33	24	198
Yellowknife	18	4,215	11	17	25	25	173

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	37	809	9	15	15	25	57
Campbell River	24	1,170	23	16	16	5	76
Castlegar	45	579	23	10	11	3	38
Charlottetown	34	885	21	16	8	21	45
Churchill	32	950	30	10	9	2	43
Cranbrook	38	799	25	10	7	24	39
Deer Lake	23	1,216	28	8	10	24	54
Fort Nelson	14	1,581	9	9	24	9	90
Fort St. John	10	1,708	31	10	16	17	94
Grande Prairie	5	2,188	8	16	15	9	117
High Level	40	674	24	11	10	30	49
Îles-de-la-Madeleine	50	408	23	16	9	23	34
Inuvik/Mike Zubko	33	932	6	16	13	14	51
Iqaluit	13	1,605	4	11	20	14	91
Kamloops	12	1,608	28	11	15	28	78
Kenora	36	824	22	12	11	30	47
Kingston	16	1,488	14	14	14	14	94
Kuujuuaq	27	1,059	14	17	10	21	52
La Grande Rivière	35	885	7	14	10	3	49
La Ronge	17	1,389	23	19	12	23	74
Lethbridge	26	1,065	19	12	11	18	67
Lloydminster	42	640	31	7	8	31	49
Medicine Hat	39	772	30	16	10	3	55
Mont-Joli	49	429	24	18	7	8	36
Montréal/Mirabel International	9	1,764	8	20	13	15	112
Nanaimo	15	1,511	23	15	20	23	114
Norman Wells	41	671	17	17	10	24	39
North Bay	8	1,985	29	15	23	24	127
Ottawa/Gatineau	19	1,322	20	13	17	20	117
Peace River	44	600	3	9	6	17	36
Penticton	31	980	29	13	14	29	69
Port Hardy	47	530	7	11	8	7	31
Prince Albert	11	1,649	1	13	11	23	81
Prince Rupert	51	275	12	13	6	16	17
Rankin Inlet	18	1,359	16	13	13	7	73
Red Deer Regional	25	1,143	9	14	17	18	85
Rouyn-Noranda	28	1,030	31	16	12	29	60
Saint John	21	1,261	15	17	9	9	59
Sept-Îles	6	2,174	29	16	16	29	103
Sioux Lookout	3	2,504	31	8	17	22	122
Smithers	46	564	26	17	7	31	29
St. Catharines	29	1,028	20	16	18	19	85
Sudbury	4	2,356	6	14	15	30	131
Terrace	30	984	17	15	10	17	54
Thompson	1	2,736	23	9	18	3	121
Timmins	7	2,165	9	10	23	24	113
Val-d'Or	20	1,278	15	10	19	15	85
Victoria Harbour	2	2,715	3	8	24	3	127
Wabush	22	1,260	2	11	10	8	61
Whitecourt	48	469	29	14	10	8	37
Williams Lake	43	630	26	10	10	25	36

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	9	4,656	28	12	82	7	356
Boundary Bay	5	5,192	5	13	70	7	390
Calgary International	38	146	21	21	6	24	20
Calgary/Springbank	4	5,554	31	9	88	29	402
Chicoutimi/St-Honoré	10	4,466	23	22	180	29	642
Edmonton City Centre	34	418	12	11	22	14	54
Edmonton International	35	278	31	16	16	31	38
Edmonton/Villeneuve	11	3,900	18	15	76	31	396
Fort McMurray	33	426	17	11	26	17	132
Fredericton International	14	3,032	20	16	48	20	312
Gander International	32	652	11	15	36	11	114
Halifax/Robert L Stanfield International	36	238	2	11	6	21	24
Hamilton	29	904	22	10	26	14	102
Kelowna	21	1,882	8	9	36	11	152
Kitchener/Waterloo	3	5,560	14	13	94	14	438
Langley	15	2,984	5	11	66	25	262
London	6	5,104	25	12	70	29	380
Moncton/Greater Moncton International	18	2,388	15	13	44	30	254
Montréal/Pierre Elliott Trudeau International	40	64	1	22	2	20	8
Montréal/St-Hubert	1	7,582	31	16	116	31	786
Oshawa	22	1,678	9	10	44	30	138
Ottawa/Macdonald-Cartier International	17	2,686	15	15	88	30	256
Pitt Meadows	8	4,778	17	12	80	7	408
Prince George	26	1,386	17	11	50	17	146
Québec/Jean Lesage International	13	3,548	15	11	58	15	308
Regina International	28	1,080	8	14	30	19	114
Saskatoon/John G Diefenbaker International	20	2,178	17	13	38	10	182
Sault Ste. Marie	19	2,356	10	16	56	11	250
St. John's International	37	192	8	9	14	6	26
St-Jean	23	1,590	25	11	48	25	148
Thunder Bay	24	1,566	19	9	52	25	140
Toronto/Billy Bishop Toronto City	16	2,804	13	11	62	13	310
Toronto/Buttonville Municipal	7	4,804	14	12	104	14	508
Toronto/Lester B Pearson International	39	96	26	11	10	26	20
Vancouver Harbour	42	2	5	13	2	5	2
Vancouver International	41	22	9	12	4	9	6
Victoria International	12	3,866	17	20	62	7	334
Whitehorse International	25	1,418	29	12	38	30	180
Windsor	31	719	29	15	25	14	94
Winnipeg/James Armstrong Richardson International	27	1,112	2	16	24	2	136
Winnipeg/St. Andrews	2	6,034	27	19	88	29	426
Yellowknife	30	878	25	14	34	25	160

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	12	794	25	13	40	25	108
Campbell River	17	444	11	9	40	11	62
Castlegar	21	296	5	15	42	6	50
Charlottetown	38	68	31	17	6	21	10
Churchill	43	28	16	15	20	16	28
Cranbrook	31	126	5	12	16	26	28
Deer Lake	30	130	11	11	24	31	48
Fort Nelson	22	268	23	16	30	19	46
Fort St. John	5	1,447	28	15	62	27	204
Grande Prairie	7	1,138	11	16	64	8	174
High Level	42	32	13	11	6	16	8
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	32	118	11	13	20	26	30
Iqaluit	37	70	16	19	16	16	18
Kamloops	10	868	31	9	42	10	82
Kenora	20	338	9	16	36	30	39
Kingston	6	1,376	13	16	44	19	132
Kuujuuaq	29	138	16	9	24	16	28
La Grande Rivière	48	2	25	8	2	25	2
La Ronge	24	185	4	14	22	4	50
Lethbridge	16	450	19	12	20	20	56
Lloydminster	18	406	17	10	26	17	58
Medicine Hat	25	164	13	10	14	19	36
Mont-Joli	46	14	21	11	6	9	8
Montréal/Mirabel International	8	1,052	14	11	36	14	92
Nanaimo	14	586	12	12	34	10	84
Norman Wells	41	40	25	9	8	16	8
North Bay	2	2,374	14	15	68	24	230
Ottawa/Gatineau	1	2,472	30	17	56	20	250
Peace River	35	84	1	14	12	21	16
Penticton	4	1,564	9	11	54	25	216
Port Hardy	26	153	29	11	15	3	18
Prince Albert	45	16	9	16	4	9	4
Prince Rupert	47	14	10	9	6	10	8
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	13	666	31	11	40	18	104
Rouyn-Noranda	27	152	15	14	12	31	32
Saint John	19	392	9	18	20	9	68
Sept-Îles	23	212	15	14	16	9	28
Sioux Lookout	36	72	16	20	14	16	24
Smithers	40	48	23	15	10	23	12
St. Catharines	3	1,664	22	17	68	26	168
Sudbury	11	817	29	19	40	31	98
Terrace	33	108	23	12	20	23	36
Thompson	39	60	1	15	10	1	12
Timmins	28	142	23	21	24	23	62
Val-d'Or	15	476	19	10	30	16	94
Victoria Harbour	44	24	22	10	8	22	8
Wabush	0	0	0	0	0	0	0
Whitecourt	9	924	8	10	44	1	132
Williams Lake	34	98	3	13	16	3	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	9	4,656	28	12	82	7	356
Boundary Bay	5	5,192	5	13	70	7	390
Calgary International	38	144	21	21	6	24	20
Calgary/Springbank	4	5,554	31	9	88	29	402
Chicoutimi/St-Honoré	10	4,464	23	22	180	29	642
Edmonton City Centre	34	418	12	11	22	14	54
Edmonton International	35	276	31	16	16	31	38
Edmonton/Villeneuve	11	3,900	18	15	76	31	396
Fort McMurray	33	422	17	11	26	17	132
Fredericton International	14	3,032	20	16	48	20	312
Gander International	32	652	11	15	36	11	114
Halifax/Robert L Stanfield International	36	228	2	11	6	21	24
Hamilton	29	894	22	10	26	14	102
Kelowna	21	1,870	8	9	36	11	152
Kitchener/Waterloo	3	5,560	14	13	94	14	438
Langley	15	2,984	5	11	66	25	262
London	6	5,102	25	12	70	29	380
Moncton/Greater Moncton International	18	2,386	15	13	44	30	254
Montréal/Pierre Elliott Trudeau International	40	64	1	22	2	20	8
Montréal/St-Hubert	1	7,582	31	16	116	31	786
Oshawa	22	1,678	9	10	44	30	138
Ottawa/Macdonald-Cartier International	17	2,668	15	15	88	30	256
Pitt Meadows	8	4,778	17	12	80	7	408
Prince George	26	1,386	17	11	50	17	146
Québec/Jean Lesage International	13	3,538	15	11	58	15	308
Regina International	28	966	8	14	28	19	114
Saskatoon/John G Diefenbaker International	20	2,086	17	13	38	10	176
Sault Ste. Marie	19	2,334	10	16	56	11	250
St. John's International	37	192	8	9	14	6	26
St-Jean	23	1,590	25	11	48	25	148
Thunder Bay	24	1,558	19	9	52	25	140
Toronto/Billy Bishop Toronto City	16	2,804	13	11	62	13	310
Toronto/Buttonville Municipal	7	4,804	14	12	104	14	508
Toronto/Lester B Pearson International	39	96	26	11	10	26	20
Vancouver Harbour	42	2	5	13	2	5	2
Vancouver International	41	22	9	12	4	9	6
Victoria International	12	3,852	17	20	62	7	334
Whitehorse International	25	1,418	29	12	38	30	180
Windsor	31	715	29	15	25	14	94
Winnipeg/James Armstrong Richardson International	27	1,106	2	16	24	2	136
Winnipeg/St. Andrews	2	6,034	27	19	88	29	426
Yellowknife	30	878	25	14	34	25	160

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	12	750	25	13	40	25	104
Campbell River	17	444	11	9	40	11	62
Castlegar	21	296	5	15	42	6	50
Charlottetown	38	60	31	17	6	21	10
Churchill	43	28	16	15	20	16	28
Cranbrook	30	126	5	12	16	26	28
Deer Lake	32	100	31	10	24	31	48
Fort Nelson	22	268	23	16	30	19	46
Fort St. John	5	1,447	28	15	62	27	204
Grande Prairie	7	1,138	11	16	64	8	174
High Level	42	32	13	11	6	16	8
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	35	72	26	12	14	26	30
Iqaluit	37	70	16	19	16	16	18
Kamloops	10	868	31	9	42	10	82
Kenora	20	318	9	16	36	30	39
Kingston	6	1,374	13	16	44	19	132
Kuuujuaq	28	138	16	9	24	16	28
La Grande Rivière	48	2	25	8	2	25	2
La Ronge	24	185	4	14	22	4	50
Lethbridge	16	450	19	12	20	20	56
Lloydminster	18	406	17	10	26	17	58
Medicine Hat	25	164	13	10	14	19	36
Mont-Joli	45	14	21	11	6	9	8
Montréal/Mirabel International	8	1,048	14	11	36	14	92
Nanaimo	14	586	12	12	34	10	84
Norman Wells	41	40	25	9	8	16	8
North Bay	2	2,374	14	15	68	24	230
Ottawa/Gatineau	1	2,472	30	17	56	20	250
Peace River	34	84	1	14	12	21	16
Penticton	4	1,564	9	11	54	25	216
Port Hardy	29	130	1	17	8	3	18
Prince Albert	47	14	9	16	4	9	4
Prince Rupert	46	14	10	9	6	10	8
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	13	666	31	11	40	18	104
Rouyn-Noranda	26	142	15	14	12	19	22
Saint John	19	388	9	18	20	9	68
Sept-Îles	23	212	15	14	16	9	28
Sioux Lookout	36	72	16	20	14	16	24
Smithers	40	48	23	15	10	23	12
St. Catharines	3	1,664	22	17	68	26	168
Sudbury	11	817	29	19	40	31	98
Terrace	31	108	23	12	20	23	36
Thompson	39	60	1	15	10	1	12
Timmins	27	142	23	21	24	23	62
Val-d'Or	15	476	19	10	30	16	94
Victoria Harbour	44	24	22	10	8	22	8
Wabush	0	0	0	0	0	0	0
Whitecourt	9	924	8	10	44	1	132
Williams Lake	33	98	3	13	16	3	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	0	0	0	0	0	0	0
Boundary Bay	0	0	0	0	0	0	0
Calgary International	14	2	25	16	2	25	2
Calgary/Springbank	0	0	0	0	0	0	0
Chicoutimi/St-Honoré	18	2	3	11	2	3	2
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	15	2	18	20	2	18	2
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	12	4	21	9	4	21	4
Fredericton International	0	0	0	0	0	0	0
Gander International	0	0	0	0	0	0	0
Halifax/Robert L Stanfield International	7	10	8	12	4	8	4
Hamilton	8	10	26	15	4	26	4
Kelowna	6	12	28	15	12	28	12
Kitchener/Waterloo	0	0	0	0	0	0	0
Langley	0	0	0	0	0	0	0
London	17	2	10	15	2	10	2
Moncton/Greater Moncton International	16	2	26	11	2	26	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	4	18	9	15	10	9	10
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	9	10	25	14	4	1	4
Regina International	1	114	24	9	10	24	18
Saskatoon/John G Diefenbaker International	2	92	11	17	26	11	42
Sault Ste. Marie	3	22	18	19	14	18	14
St. John's International	0	0	0	0	0	0	0
St-Jean	0	0	0	0	0	0	0
Thunder Bay	10	8	28	10	4	28	4
Toronto/Billy Bishop Toronto City	0	0	0	0	0	0	0
Toronto/Buttonville Municipal	0	0	0	0	0	0	0
Toronto/Lester B Pearson International	0	0	0	0	0	0	0
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	0	0	0	0	0	0	0
Victoria International	5	14	24	15	12	24	12
Whitehorse International	0	0	0	0	0	0	0
Windsor	13	4	18	19	4	18	4
Winnipeg/James Armstrong Richardson International	11	6	27	14	4	27	6
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	23	12	18	23	22
Campbell River	0	0	0	0	0	0	0
Castlegar	0	0	0	0	0	0	0
Charlottetown	7	8	15	16	4	15	4
Churchill	0	0	0	0	0	0	0
Cranbrook	0	0	0	0	0	0	0
Deer Lake	3	30	11	11	24	11	30
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	1	46	11	13	20	11	20
Iqaluit	0	0	0	0	0	0	0
Kamloops	0	0	0	0	0	0	0
Kenora	5	20	7	14	12	7	20
Kingston	10	2	3	15	2	3	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	8	4	29	12	4	29	4
Nanaimo	0	0	0	0	0	0	0
Norman Wells	0	0	0	0	0	0	0
North Bay	0	0	0	0	0	0	0
Ottawa/Gatineau	0	0	0	0	0	0	0
Peace River	0	0	0	0	0	0	0
Penticton	0	0	0	0	0	0	0
Port Hardy	4	23	29	11	15	29	15
Prince Albert	11	2	24	12	2	24	2
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	6	10	31	11	10	31	10
Saint John	9	4	14	10	2	14	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: Effective 2010, Canadian air carriers that, in each of the two calendar years immediately preceding the report year, realized annual gross revenues of \$2,000,000 or more for the air services for which the air carrier held a licence. Also includes foreign air carriers.

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

Aircraft movement

A take off, a landing, or a simulated approach by an aircraft. ATC Manops amendment 8-8-83. NC-703.

Class of operation

Aircraft movements are classified as either "Itinerant" or "Local".

Commercial

Flights by aircraft operators licensed by the Canadian Transportation Agency to perform commercial air services. Commercial operations are divided into two categories: **Air carrier** and **Other commercial**.

Domestic itinerant movements

Movements, at a Canadian airport, of aircraft departing to or arriving from another point in Canada.

FSS

Flight service station.

Government-Civil

Aircraft owned by federal, provincial and municipal bodies as well as foreign states, but excluding those owned by crown corporations, boards and commissions. Such aircraft are coded "3" under "Purpose" in the Canadian civil aircraft register.

Government-Military

Aircraft of any branch of the armed forces of any nation.

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.