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



December 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 decreased 3.1% in December 2010 from December 2009. These airports reported 346,380 movements in December compared with 357,642 movements in December 2009.
- There were 263,789 itinerant movements (flights from one airport to another) reported in December 2010. This represents a 3.6% decrease (-9,800 movements) compared with the same month a year earlier.
- In December 2010, there were 82,591 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 1.7% (-1,462 movements) compared with the previous year.

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

	NAV CANADA towers	Percentage change, December 2009 to December 2010	NAV CANADA Flight Service Stations	Percentage change, December 2009 to December 2010	Total	Percentage change, December 2009 to December 2010
	number	percent	number	percent	number	percent
Grand total	277,694	-3.0	68,686	-3.8	346,380	-3.1
Itinerant movements						
Air carriers	182,966	-0.2	42,707	-4.5	225,673	-1.0
Other commercial movements	11,171	-27.8	1,554	-11.0	12,725	-26.1
Private movements	14,607	-12.4	4,839	-1.6	19,446	-9.9
Government civil movements	3,167	-6.8	1,201	-6.1	4,368	-6.6
Government military movements	1,206	-23.1	371	-31.2	1,577	-25.2
Itinerant total	213,117	-3.3	50,672	-4.7	263,789	-3.6
Local movements						
Civil local movements	64,369	-1.2	17,880	-0.6	82,249	-1.1
Military local movements	208	-71.6	134	-32.3	342	-63.3
Local total	64,577	-1.9	18,014	-1.0	82,591	-1.7

Analysis

Aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased 3.1% in December 2010 from December 2009. These airports reported 346,380 movements in December compared with 357,642 movements in December 2009. Toronto/Lester B Pearson International, Ontario (34,305 movements) followed by Vancouver International, British Columbia (23,191 movements) were the most active sites in December 2010. Year-over-year increases were reported by 49 airports.

There were 263,789 itinerant movements (flights from one airport to another) reported in December 2010. This represents a 3.6% decrease (-9,800 movements) compared with the same month a year earlier. The year-over-year variations ranged from an increase of 1,809 movements (+5.6%) at Toronto/Lester B Pearson International, Ontario to a decline of 2,010 movements (-47.9%) at London, Ontario. Year-over-year increases in the number of itinerant aircraft movements were reported by 42 airports in December 2010.

In December 2010, there were 82,591 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 1.7% (-1,462 movements) compared with the previous year. Calgary/Springbank, Alberta recorded the largest gain, increasing by 1,501 local movements (+36.2%).

Itinerant movements: domestic, transborder and international

There were 212,974 domestic itinerant movements reported in December 2010, down 5.3% (-11,976 movements) from December 2009. Vancouver International, British Columbia (17,024) followed by Calgary International, Alberta (14,748) reported the greatest number of domestic itinerant movements.

Sixty-six airports reported 39,600 transborder itinerant movements (between Canada and the United States) in December 2010, up 4.6% (+1,726 movements) from the previous year. Toronto/Lester B Pearson International, Ontario (14,924) reported the greatest number of transborder itinerant movements. This represents 37.7% of the total transborder itinerant movements.

In December 2010, thirty-four airports reported 11,215 other international itinerant movements, up 4.2% (+450 movements) from the previous year. Toronto/Lester B Pearson International, Ontario (5,013) recorded the greatest number of other international itinerant movements. This represents 44.7% of the total other international itinerant movements reported.

Related products

Selected publications from Statistics Canada

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

Selected CANSIM tables from Statistics Canada

401-0007	Aircraft movements, by class of operation and peak hour and peak day of movements, airports with NAV CANADA towers, monthly
401-0008	Aircraft movements, by civil and military movements, airports with NAV CANADA towers, monthly
401-0009	Itinerant movements, by type of operation, airports with NAV CANADA towers, monthly
401-0010	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA towers, monthly
401-0011	Itinerant movements, by type of power plant, airports with NAV CANADA towers, monthly
401-0012	Itinerant movements, by aircraft gross take-off weight, airports with NAV CANADA towers, monthly
401-0013	Domestic and international itinerant movements, by type of operation, airports with NAV CANADA towers, monthly
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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401-0018	Itinerant movements, by type of power plant, airports with NAV CANADA flight service stations, monthly

401-0019	Itinerant movements, by aircraft gross take-off weight, 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
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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	16	5,732	30	2,181	4	3,551
Boundary Bay	11	7,979	15	3,239	3	4,740
Calgary International	3	18,872	3	18,785	38	87
Calgary/Springbank	9	8,656	19	3,009	2	5,647
Chicoutimi/St-Honoré	39	1,374	41	416	22	958
Edmonton City Centre	28	3,655	18	3,072	28	583
Edmonton International	6	10,933	5	10,627	32	306
Edmonton/Villeneuve	31	3,422	40	610	9	2,812
Fort McMurray	35	2,665	24	2,518	37	147
Fredericton International	26	3,876	27	2,250	16	1,626
Gander International	37	1,897	35	1,369	30	528
Halifax/Robert L Stanfield International	13	6,771	8	6,583	36	188
Hamilton	32	3,017	26	2,340	27	677
Kelowna	24	4,043	16	3,239	25	804
Kitchener/Waterloo	20	4,663	33	1,638	7	3,025
Langley	23	4,298	31	1,869	12	2,429
London	25	3,932	29	2,184	15	1,748
Moncton/Greater Moncton International	15	6,031	14	3,568	11	2,463
Montréal/Pierre Elliott Trudeau International	4	17,074	4	17,012	40	62
Montréal/St-Hubert	17	5,504	25	2,484	8	3,020
Oshawa	34	2,707	36	1,311	18	1,396
Ottawa/Macdonald-Cartier International	5	11,520	7	9,385	13	2,135
Pitt Meadows	21	4,610	34	1,474	6	3,136
Prince George	33	2,707	32	1,708	20	999
Québec/Jean Lesage International	12	6,825	10	5,391	17	1,434
Regina International	27	3,775	21	2,929	23	846
Saskatoon/John G Diefenbaker International	18	5,039	12	3,951	19	1,088
Sault Ste. Marie	38	1,812	37	1,274	29	538
St. John's International	29	3,498	17	3,230	35	268
St-Jean	42	971	42	243	26	728
Thunder Bay	22	4,488	13	3,644	24	844
Toronto/Billy Bishop Toronto City	14	6,070	11	4,188	14	1,882
Toronto/Buttonville Municipal	19	4,686	28	2,202	10	2,484
Toronto/Lester B Pearson International	1	34,305	1	34,229	39	76
Vancouver Harbour	36	2,543	23	2,543	0	0
Vancouver International	2	23,191	2	23,135	41	56
Victoria International	8	9,291	9	5,749	5	3,542
Whitehorse International	41	1,197	39	921	34	276
Windsor	40	1,296	38	1,019	33	277
Winnipeg/James Armstrong Richardson International	7	10,858	6	9,882	21	976
Winnipeg/St. Andrews	10	8,482	22	2,716	1	5,766
Yellowknife	30	3,429	20	3,000	31	429
Total of NAV CANADA towers (42)	.	277,694	.	213,117	.	64,577

Table 1-2
Total aircraft movements by class of operation — NAV CANADA flight service stations

	Total		Itinerant		Local	
	Rank of movements	Number of movements	Rank of movements	Number of movements	Rank of movements	Number of movements
Brandon Municipal	31	928	43	496	14	432
Campbell River	16	1,705	16	1,093	10	612
Castlegar	49	325	50	273	32	52
Charlottetown	28	976	32	771	19	205
Churchill	38	824	29	818	44	6
Cranbrook	33	888	31	792	25	96
Deer Lake	26	1,084	17	1,082	46	2
Fort Nelson	24	1,151	18	1,079	27	72
Fort St. John	21	1,380	13	1,236	23	144
Grande Prairie	5	2,659	5	1,917	9	742
High Level	43	618	39	524	26	94
Îles-de-la-Madeleine	50	312	49	312	0	0
Inuvik/Mike Zubko	36	848	27	836	42	12
Iqaluit	23	1,255	14	1,197	30	58
Kamloops	3	2,969	10	1,454	4	1,515
Kenora	40	812	38	636	21	176
Kingston	1	3,501	12	1,323	1	2,178
Kuujuuaq	30	955	25	907	35	48
La Grande Rivière	42	686	36	684	47	2
La Ronge	25	1,112	19	1,078	38	34
Lethbridge	18	1,573	22	975	12	598
Lloydminster	39	823	41	501	16	322
Medicine Hat	27	981	33	741	18	240
Mont-Joli	48	391	47	387	45	4
Montréal/Mirabel International	9	2,098	9	1,488	11	610
Nanaimo	13	1,898	8	1,573	15	325
Norman Wells	17	1,590	37	678	8	912
North Bay	4	2,801	20	1,057	3	1,744
Ottawa/Gatineau	2	2,983	23	961	2	2,022
Peace River	45	493	45	443	34	50
Penticton	14	1,853	34	729	5	1,124
Port Hardy	47	428	46	420	43	8
Prince Albert	20	1,402	11	1,384	40	18
Prince Rupert	51	268	51	252	41	16
Rankin Inlet	35	848	26	848	0	0
Red Deer Regional	8	2,138	15	1,104	6	1,034
Rouyn-Noranda	34	855	28	821	39	34
Saint John	22	1,269	21	1,025	17	244
Sept-Îles	10	2,073	6	1,877	20	196
Sioux Lookout	7	2,446	2	2,386	29	60
Smithers	46	450	44	450	0	0
St. Catharines	19	1,479	42	499	7	980
Sudbury	11	2,040	3	1,922	24	118
Terrace	41	782	35	710	28	72
Thompson	6	2,617	1	2,573	36	44
Timmins	15	1,847	7	1,809	37	38
Val-d'Or	29	975	30	817	22	158
Victoria Harbour	12	1,969	4	1,918	33	51
Wabush	32	927	24	927	0	0
Whitecourt	37	833	48	379	13	454
Williams Lake	44	568	40	510	31	58
Total of all flight service stations (51)	.	68,686	.	50,672	.	18,014

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	5,719	1,688	480	3,551	13	13	0	
Boundary Bay	7,979	2,528	711	4,740	0	0	0	
Calgary International	18,846	17,671	1,089	86	26	25	1	
Calgary/Springbank	8,634	2,172	825	5,637	22	12	10	
Chicoutimi/St-Honoré	1,342	374	42	926	32	0	32	
Edmonton City Centre	3,652	2,336	733	583	3	3	0	
Edmonton International	10,894	10,160	434	300	39	33	6	
Edmonton/Villeneuve	3,422	448	162	2,812	0	0	0	
Fort McMurray	2,663	2,281	235	147	2	2	0	
Fredericton International	3,860	2,148	96	1,616	16	6	10	
Gander International	1,781	1,053	201	527	116	115	1	
Halifax/Robert L. Stanfield International	6,682	6,294	209	179	89	80	9	
Hamilton	3,011	2,051	283	677	6	6	0	
Kelowna	4,035	2,912	319	804	8	8	0	
Kitchener/Waterloo	4,652	1,304	324	3,024	11	10	1	
Langley	4,298	1,126	743	2,429	0	0	0	
London	3,904	1,898	259	1,747	28	27	1	
Moncton/Greater Moncton International	6,025	3,342	226	2,457	6	0	6	
Montréal/Pierre Elliott Trudeau International	17,057	15,938	1,061	58	17	13	4	
Montréal/St-Hubert	5,475	1,809	652	3,014	29	23	6	
Oshawa	2,701	843	462	1,396	6	6	0	
Ottawa/Macdonald-Cartier International	11,362	8,739	496	2,127	158	150	8	
Pitt Meadows	4,610	736	738	3,136	0	0	0	
Prince George	2,707	1,546	162	999	0	0	0	
Québec/Jean Lesage International	6,779	4,787	570	1,422	46	34	12	
Regina International	3,731	2,588	333	810	44	8	36	
Saskatoon/John G. Diefenbaker International	4,986	3,444	479	1,063	53	28	25	
Sault Ste. Marie	1,795	1,175	89	531	17	10	7	
St. John's International	3,379	2,912	205	262	119	113	6	
St-Jean	952	110	119	723	19	14	5	
Thunder Bay	4,451	3,333	283	835	37	28	9	
Toronto/Billy Bishop Toronto City	6,062	3,928	252	1,882	8	8	0	
Toronto/Buttonville Municipal	4,686	1,333	869	2,484	0	0	0	
Toronto/Lester B. Pearson International	34,289	33,278	935	76	16	16	0	
Vancouver Harbour	2,543	2,511	32	0	0	0	0	
Vancouver International	23,175	22,238	881	56	16	16	0	
Victoria International	9,155	4,790	827	3,538	136	132	4	
Whitehorse International	1,195	857	62	276	2	2	0	
Windsor	1,291	843	171	277	5	5	0	
Winnipeg/James Armstrong Richardson International	10,650	9,170	513	967	208	199	9	
Winnipeg/St. Andrews	8,482	2,582	134	5,766	0	0	0	
Yellowknife	3,368	2,861	78	429	61	61	0	
Total of NAV CANADA towers (42)	276,280	194,137	17,774	64,369	1,414	1,206	208	

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

	Civil movements			Military movements				
	Total	Itinerant		Local	Total	Itinerant		Local
		Commercial	Private and government			Commercial	Private and government	
	number							
Brandon Municipal	779	260	115	404	149	121	28	
Campbell River	1,703	849	242	612	2	2	0	
Castlegar	321	255	14	52	4	4	0	
Charlottetown	960	678	81	201	16	12	4	
Churchill	822	805	11	6	2	2	0	
Cranbrook	872	676	106	90	16	10	6	
Deer Lake	1,078	1,036	40	2	6	6	0	
Fort Nelson	1,145	1,048	25	72	6	6	0	
Fort St. John	1,380	1,145	91	144	0	0	0	
Grande Prairie	2,659	1,695	222	742	0	0	0	
High Level	618	482	42	94	0	0	0	
Îles-de-la-Madeleine	310	264	46	0	2	2	0	
Inuvik/Mike Zubko	843	811	20	12	5	5	0	
Iqaluit	1,251	1,116	77	58	4	4	0	
Kamloops	2,963	1,144	304	1,515	6	6	0	
Kenora	760	572	38	150	52	26	26	
Kingston	3,478	1,092	214	2,172	23	17	6	
Kuujuuaq	953	860	45	48	2	2	0	
La Grande Rivière	686	658	26	2	0	0	0	
La Ronge	1,112	1,010	68	34	0	0	0	
Lethbridge	1,567	692	277	598	6	6	0	
Lloydminster	809	334	161	314	14	6	8	
Medicine Hat	977	632	105	240	4	4	0	
Mont-Joli	391	363	24	4	0	0	0	
Montréal/Mirabel International	2,076	1,201	267	608	22	20	2	
Nanaimo	1,872	1,096	463	313	26	14	12	
Norman Wells	1,584	666	6	912	6	6	0	
North Bay	2,772	932	96	1,744	29	29	0	
Ottawa/Gatineau	2,975	522	431	2,022	8	8	0	
Peace River	493	425	18	50	0	0	0	
Penticton	1,823	573	146	1,104	30	10	20	
Port Hardy	426	361	57	8	2	2	0	
Prince Albert	1,386	1,231	145	10	16	8	8	
Prince Rupert	268	232	20	16	0	0	0	
Rankin Inlet	848	836	12	0	0	0	0	
Red Deer Regional	2,132	610	488	1,034	6	6	0	
Rouyn-Noranda	855	721	100	34	0	0	0	
Saint John	1,267	814	211	242	2	0	2	
Sept-Îles	2,073	1,754	123	196	0	0	0	
Sioux Lookout	2,442	2,335	47	60	4	4	0	
Smithers	450	438	12	0	0	0	0	
St. Catharines	1,477	335	162	980	2	2	0	
Sudbury	2,036	1,772	146	118	4	4	0	
Terrace	782	690	20	72	0	0	0	
Thompson	2,617	2,458	115	44	0	0	0	
Timmins	1,847	1,751	58	38	0	0	0	
Val-d'Or	975	745	72	158	0	0	0	
Victoria Harbour	1,956	1,634	271	51	13	13	0	
Wabush	927	859	68	0	0	0	0	
Whitecourt	831	347	30	454	2	2	0	
Williams Lake	554	446	62	46	14	2	12	
Total of all flight service stations (51)	68,181	44,261	6,040	17,880	505	371	134	

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
	number						
Abbotsford	2,181	500	1,161	27	430	50	13
Boundary Bay	3,239	4	779	1,745	671	40	0
Calgary International	18,785	16,663	666	342	985	104	25
Calgary/Springbank	3,009	24	278	1,870	821	4	12
Chicoutimi/St-Honoré	416	179	50	145	42	0	0
Edmonton City Centre	3,072	1,313	363	660	434	299	3
Edmonton International	10,627	9,744	286	130	426	8	33
Edmonton/Villeneuve	610	0	107	341	162	0	0
Fort McMurray	2,518	1,505	632	144	211	24	2
Fredericton International	2,250	793	1,355	0	70	26	6
Gander International	1,369	503	526	24	183	18	115
Halifax/Robert L. Stanfield International	6,583	5,979	306	9	189	20	80
Hamilton	2,340	1,901	143	7	205	78	6
Kelowna	3,239	2,486	321	105	264	55	8
Kitchener/Waterloo	1,638	349	940	15	324	0	10
Langley	1,869	68	230	828	739	4	0
London	2,184	1,161	249	488	220	39	27
Moncton/Greater Moncton International	3,568	1,672	1,670	0	98	128	0
Montréal/Pierre Elliott Trudeau International	17,012	15,254	659	25	877	184	13
Montréal/St-Hubert	2,484	1,232	243	334	596	56	23
Oshawa	1,311	39	46	758	416	46	6
Ottawa/Macdonald-Cartier International	9,385	7,501	255	983	249	247	150
Pitt Meadows	1,474	4	430	302	703	35	0
Prince George	1,708	1,217	300	29	102	60	0
Québec/Jean Lesage International	5,391	3,640	1,038	109	309	261	34
Regina International	2,929	2,209	348	31	175	158	8
Saskatoon/John G. Diefenbaker International	3,951	2,776	531	137	236	243	28
Sault Ste. Marie	1,274	987	70	118	80	9	10
St. John's International	3,230	2,183	717	12	96	109	113
St-Jean	243	0	88	22	116	3	14
Thunder Bay	3,644	2,820	379	134	198	85	28
Toronto/Billy Bishop Toronto City	4,188	2,973	504	451	238	14	8
Toronto/Buttonville Municipal	2,202	220	1,079	34	834	35	0
Toronto/Lester B. Pearson International	34,229	32,673	570	35	921	14	16
Vancouver Harbour	2,543	2,294	215	2	31	1	0
Vancouver International	23,135	20,703	1,471	64	543	338	16
Victoria International	5,749	2,972	1,574	244	787	40	132
Whitehorse International	921	663	163	31	36	26	2
Windsor	1,019	543	296	4	167	4	5
Winnipeg/James Armstrong Richardson International	9,882	8,944	176	50	266	247	199
Winnipeg/St. Andrews	2,716	612	1,588	382	134	0	0
Yellowknife	3,000	2,609	252	0	23	55	61
Total of NAV CANADA towers (42)	213,117	159,912	23,054	11,171	14,607	3,167	1,206

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	496	87	157	16	97	18	121
Campbell River	1,093	601	146	102	218	24	2
Castlegar	273	193	35	27	14	0	4
Charlottetown	771	566	38	74	55	26	12
Churchill	818	757	24	24	7	4	2
Cranbrook	792	647	17	12	100	6	10
Deer Lake	1,082	875	161	0	12	28	6
Fort Nelson	1,079	460	588	0	25	0	6
Fort St. John	1,236	833	311	1	83	8	0
Grande Prairie	1,917	1,293	319	83	208	14	0
High Level	524	286	196	0	38	4	0
Îles-de-la-Madeleine	312	246	18	0	0	46	2
Inuvik/Mike Zubko	836	764	47	0	1	19	5
Iqaluit	1,197	1,050	31	35	34	43	4
Kamloops	1,454	988	150	6	286	18	6
Kenora	636	373	199	0	20	18	26
Kingston	1,323	478	378	236	196	18	17
Kuujuuaq	907	783	75	2	13	32	2
La Grande Rivière	684	543	112	3	18	8	0
La Ronge	1,078	1,010	0	0	12	56	0
Lethbridge	975	434	33	225	257	20	6
Lloydminster	501	166	160	8	143	18	6
Medicine Hat	741	477	134	21	99	6	4
Mont-Joli	387	274	82	7	6	18	0
Montréal/Mirabel International	1,488	828	328	45	264	3	20
Nanaimo	1,573	482	549	65	427	36	14
Norman Wells	678	534	132	0	0	6	6
North Bay	1,057	619	184	129	76	20	29
Ottawa/Gatineau	961	76	309	137	399	32	8
Peace River	443	366	59	0	12	6	0
Penticton	729	285	274	14	141	5	10
Port Hardy	420	333	28	0	10	47	2
Prince Albert	1,384	1,207	22	2	68	77	8
Prince Rupert	252	200	32	0	6	14	0
Rankin Inlet	848	818	0	18	0	12	0
Red Deer Regional	1,104	244	291	75	474	14	6
Rouyn-Noranda	821	572	149	0	65	35	0
Saint John	1,025	711	57	46	207	4	0
Sept-Îles	1,877	1,181	542	31	57	66	0
Sioux Lookout	2,386	1,932	401	2	37	10	4
Smithers	450	398	40	0	2	10	0
St. Catharines	499	0	328	7	150	12	2
Sudbury	1,922	1,388	374	10	112	34	4
Terrace	710	548	142	0	4	16	0
Thompson	2,573	2,279	177	2	4	111	0
Timmins	1,809	1,569	176	6	43	15	0
Val-d'Or	817	695	50	0	56	16	0
Victoria Harbour	1,918	1,630	4	0	144	127	13
Wabush	927	638	221	0	60	8	0
Whitecourt	379	13	255	79	18	12	2
Williams Lake	510	412	30	4	61	1	2
Total of all flight service stations (51)	50,672	34,142	8,565	1,554	4,839	1,201	371

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

	Itinerant movements				Runway 88	
	Total of IFR and VFR flights ¹	Instrument flight rules	Percentage instrument flight rules	Visual flight rules		Percentage visual flight rules
	number		percent	number		percent
Abbotsford	2,181	637	29.2	1,544	70.7	1,046
Boundary Bay	3,239	329	10.1	2,910	89.8	367
Calgary International	18,785	18,070	96.1	715	3.8	510
Calgary/Springbank	3,009	172	5.7	2,837	94.2	95
Chicoutimi/St-Honoré	416	99	23.7	317	76.2	41
Edmonton City Centre	3,072	1,681	54.7	1,391	45.2	905
Edmonton International	10,627	10,321	97.1	306	2.8	462
Edmonton/Villeneuve	610	45	7.3	565	92.6	73
Fort McMurray	2,518	1,830	72.6	688	27.3	57
Fredericton International	2,250	1,000	44.4	1,250	55.5	70
Gander International	1,369	1,043	76.1	326	23.8	55
Halifax/Robert L. Stanfield International	6,583	6,302	95.7	281	4.2	157
Hamilton	2,340	2,057	87.9	283	12.0	419
Kelowna	3,239	2,523	77.8	716	22.1	376
Kitchener/Waterloo	1,638	512	31.2	1,126	68.7	220
Langley	1,869	10	0.5	1,859	99.4	371
London	2,184	1,317	60.3	867	39.6	125
Moncton/Greater Moncton International	3,568	2,084	58.4	1,484	41.5	79
Montréal/Pierre Elliott Trudeau International	17,012	16,751	98.4	261	1.5	462
Montréal/St-Hubert	2,484	1,148	46.2	1,336	53.7	326
Oshawa	1,311	62	4.7	1,249	95.2	395
Ottawa/Macdonald-Cartier International	9,385	8,175	87.1	1,210	12.8	318
Pitt Meadows	1,474	7	0.4	1,467	99.5	1,059
Prince George	1,708	1,297	75.9	411	24.0	191
Québec/Jean Lesage International	5,391	4,384	81.3	1,007	18.6	285
Regina International	2,929	2,493	85.1	436	14.8	44
Saskatoon/John G. Diefenbaker International	3,951	3,159	79.9	792	20.0	64
Sault Ste. Marie	1,274	1,092	85.7	182	14.2	29
St. John's International	3,230	2,944	91.1	286	8.8	62
St-Jean	243	0	0.0	243	100.0	148
Thunder Bay	3,644	3,200	87.8	444	12.1	110
Toronto/Billy Bishop Toronto City	4,188	3,204	76.5	984	23.4	954
Toronto/Buttonville Municipal	2,202	460	20.8	1,742	79.1	588
Toronto/Lester B. Pearson International	34,229	34,216	99.9	13	0.0	2
Vancouver Harbour	2,543	66	2.5	2,477	97.4	1,064
Vancouver International	23,135	20,090	86.8	3,045	13.1	5,442
Victoria International	5,749	3,283	57.1	2,466	42.8	2,583
Whitehorse International	921	537	58.3	384	41.6	59
Windsor	1,019	701	68.7	318	31.2	49
Winnipeg/James Armstrong Richardson International	9,882	9,362	94.7	520	5.2	187
Winnipeg/St. Andrews	2,716	157	5.7	2,559	94.2	52
Yellowknife	3,000	1,982	66.0	1,018	33.9	55
Total of NAV CANADA towers (42)	213,117	168,802	79.2	44,315	20.8	19,956

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	496	171	34.4	325	65.5	4
Campbell River	1,093	545	49.8	548	50.1	152
Castlegar	273	194	71.0	79	28.9	30
Charlottetown	771	628	81.4	143	18.5	7
Churchill	818	791	96.6	27	3.3	11
Cranbrook	792	687	86.7	105	13.2	67
Deer Lake	1,082	1,067	98.6	15	1.3	10
Fort Nelson	1,079	483	44.7	596	55.2	112
Fort St. John	1,236	879	71.1	357	28.8	44
Grande Prairie	1,917	1,427	74.4	490	25.5	54
High Level	524	259	49.4	265	50.5	51
Îles-de-la-Madeleine	312	310	99.3	2	0.6	0
Inuvik/Mike Zubko	836	296	35.4	540	64.5	2
Iqaluit	1,197	1,084	90.5	113	9.4	0
Kamloops	1,454	1,089	74.8	365	25.1	232
Kenora	636	431	67.7	205	32.2	100
Kingston	1,323	578	43.6	745	56.3	171
Kuujuuaq	907	422	46.5	485	53.4	0
La Grande Rivière	684	533	77.9	151	22.0	148
La Ronge	1,078	628	58.2	450	41.7	224
Lethbridge	975	523	53.6	452	46.3	24
Lloydminster	501	230	45.9	271	54.0	14
Medicine Hat	741	393	53.0	348	46.9	97
Mont-Joli	387	367	94.8	20	5.1	4
Montréal/Mirabel International	1,488	1,045	70.2	443	29.7	341
Nanaimo	1,573	671	42.6	902	57.3	419
Norman Wells	678	217	32.0	461	67.9	400
North Bay	1,057	686	64.9	371	35.0	284
Ottawa/Gatineau	961	152	15.8	809	84.1	115
Peace River	443	329	74.2	114	25.7	0
Penticton	729	266	36.4	463	63.5	49
Port Hardy	420	211	50.2	209	49.7	139
Prince Albert	1,384	1,289	93.1	95	6.8	24
Prince Rupert	252	205	81.3	47	18.6	7
Rankin Inlet	848	848	100.0	0	0.0	4
Red Deer Regional	1,104	293	26.5	811	73.4	186
Rouyn-Noranda	821	792	96.4	29	3.5	3
Saint John	1,025	899	87.7	126	12.2	20
Sept-Îles	1,877	1,480	78.8	397	21.1	346
Sioux Lookout	2,386	1,906	79.8	480	20.1	92
Smithers	450	402	89.3	48	10.6	127
St. Catharines	499	60	12.0	439	87.9	85
Sudbury	1,922	1,641	85.3	281	14.6	31
Terrace	710	561	79.0	149	20.9	76
Thompson	2,573	1,951	75.8	622	24.1	23
Timmins	1,809	1,737	96.0	72	3.9	38
Val-d'Or	817	730	89.3	87	10.6	114
Victoria Harbour	1,918	110	5.7	1,808	94.2	524
Wabush	927	905	97.6	22	2.3	28
Whitecourt	379	40	10.5	339	89.4	55
Williams Lake	510	422	82.7	88	17.2	53
Total of all flight service stations (51)	50,672	33,863	66.8	16,809	33.2	5,141

1. Total excludes runway 88 flights.

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Abbotsford	2,181	498	101	1,145	437	0
Boundary Bay	3,239	2	52	3,061	122	2
Calgary International	18,785	12,708	5,229	241	607	0
Calgary/Springbank	3,009	16	63	2,600	330	0
Chicoutimi/St-Honoré	416	0	75	209	132	0
Edmonton City Centre	3,072	275	1,343	957	497	0
Edmonton International	10,627	6,646	3,637	316	28	0
Edmonton/Villeneuve	610	14	25	467	104	0
Fort McMurray	2,518	1,009	1,018	216	275	0
Fredericton International	2,250	254	575	1,385	36	0
Gander International	1,369	459	557	277	76	0
Halifax/Robert L. Stanfield International	6,583	3,598	2,552	201	232	0
Hamilton	2,340	1,292	799	148	101	0
Kelowna	3,239	1,138	1,398	456	247	0
Kitchener/Waterloo	1,638	154	304	1,025	155	0
Langley	1,869	1	66	1,320	482	0
London	2,184	470	879	749	86	0
Moncton/Greater Moncton International	3,568	981	870	1,680	37	0
Montréal/Pierre Elliott Trudeau International	17,012	11,677	5,056	140	139	0
Montréal/St-Hubert	2,484	174	765	1,414	131	0
Oshawa	1,311	10	30	1,186	85	0
Ottawa/Macdonald-Cartier International	9,385	5,587	2,616	1,015	167	0
Pitt Meadows	1,474	0	6	1,298	170	0
Prince George	1,708	415	909	121	263	0
Québec/Jean Lesage International	5,391	1,441	2,795	749	406	0
Regina International	2,929	1,798	572	541	18	0
Saskatoon/John G. Diefenbaker International	3,951	1,653	1,417	850	31	0
Sault Ste. Marie	1,274	27	1,046	190	11	0
St. John's International	3,230	1,247	1,606	31	346	0
St-Jean	243	0	0	178	63	2
Thunder Bay	3,644	708	2,492	268	176	0
Toronto/Billy Bishop Toronto City	4,188	2	3,159	777	250	0
Toronto/Buttonville Municipal	2,202	60	256	1,690	196	0
Toronto/Lester B. Pearson International	34,229	28,773	5,431	24	1	0
Vancouver Harbour	2,543	0	1,442	558	543	0
Vancouver International	23,135	11,815	8,769	1,875	676	0
Victoria International	5,749	1,037	2,109	2,361	242	0
Whitehorse International	921	308	369	116	128	0
Windsor	1,019	130	598	276	15	0
Winnipeg/James Armstrong Richardson International	9,882	5,098	4,286	393	105	0
Winnipeg/St. Andrews	2,716	0	582	2,060	74	0
Yellowknife	3,000	677	1,853	276	194	0
Total of NAV CANADA towers (42)	213,117	102,152	67,707	34,840	8,414	4

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	496	27	185	254	30	0
Campbell River	1,093	16	613	299	165	0
Castlegar	273	2	205	33	33	0
Charlottetown	771	272	332	139	28	0
Churchill	818	12	783	3	20	0
Cranbrook	792	22	633	120	17	0
Deer Lake	1,082	205	862	4	11	0
Fort Nelson	1,079	46	427	74	532	0
Fort St. John	1,236	278	599	121	238	0
Grande Prairie	1,917	231	1,099	382	205	0
High Level	524	26	341	101	56	0
Îles-de-la-Madeleine	312	12	284	16	0	0
Inuvik/Mike Zubko	836	94	621	76	45	0
Iqaluit	1,197	360	819	5	13	0
Kamloops	1,454	114	934	234	172	0
Kenora	636	8	427	123	78	0
Kingston	1,323	14	544	698	67	0
Kuujuuaq	907	151	689	19	48	0
La Grande Rivière	684	56	612	16	0	0
La Ronge	1,078	0	884	168	26	0
Lethbridge	975	49	462	427	37	0
Lloydminster	501	5	180	310	6	0
Medicine Hat	741	27	485	194	35	0
Mont-Joli	387	10	343	23	11	0
Montréal/Mirabel International	1,488	655	403	242	188	0
Nanaimo	1,573	8	482	1,033	50	0
Norman Wells	678	190	212	145	131	0
North Bay	1,057	46	663	77	271	0
Ottawa/Gatineau	961	2	106	707	146	0
Peace River	443	6	323	73	41	0
Penticton	729	12	298	195	224	0
Port Hardy	420	4	311	44	61	0
Prince Albert	1,384	0	1,240	131	13	0
Prince Rupert	252	6	205	11	30	0
Rankin Inlet	848	136	712	0	0	0
Red Deer Regional	1,104	53	242	765	44	0
Rouyn-Noranda	821	95	711	9	6	0
Saint John	1,025	276	515	211	23	0
Sept-Îles	1,877	46	1,368	179	284	0
Sioux Lookout	2,386	0	1,984	388	14	0
Smithers	450	6	413	4	27	0
St. Catharines	499	7	15	442	35	0
Sudbury	1,922	43	1,568	96	215	0
Terrace	710	8	560	6	136	0
Thompson	2,573	10	2,227	211	125	0
Timmins	1,809	2	1,739	51	17	0
Val-d'Or	817	76	647	55	39	0
Victoria Harbour	1,918	0	1,158	90	670	0
Wabush	927	16	846	46	19	0
Whitecourt	379	4	26	49	300	0
Williams Lake	510	15	410	66	19	0
Total of all flight service stations (51)	50,672	3,759	32,747	9,165	5,001	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	1,293	239	119	33	19	4	462	12	0	0
Boundary Bay	2,789	400	28	19	2	1	0	0	0	0
Calgary International	531	381	1,322	1,850	886	4,384	7,762	764	199	706
Calgary/Springbank	2,764	174	57	12	2	0	0	0	0	0
Chicoutimi/St-Honoré	278	63	75	0	0	0	0	0	0	0
Edmonton City Centre	1,160	312	1,229	268	93	9	0	1	0	0
Edmonton International	209	199	586	1,094	543	2,631	4,744	323	169	129
Edmonton/Villeneuve	474	45	81	10	0	0	0	0	0	0
Fort McMurray	407	351	287	279	39	765	390	0	0	0
Fredericton International	1,304	113	118	234	138	327	6	2	0	8
Gander International	261	4	43	476	208	242	16	46	8	65
Halifax/Robert L Stanfield International	91	184	283	1,186	677	1,915	1,661	265	216	105
Hamilton	155	448	185	326	161	44	253	4	586	178
Kelowna	606	113	189	570	45	732	943	30	11	0
Kitchener/Waterloo	1,114	73	287	46	20	31	61	6	0	0
Langley	1,767	94	7	0	0	0	0	0	1	0
London	786	134	177	27	460	420	171	7	2	0
Moncton/Greater Moncton International	1,617	97	249	458	68	654	154	0	271	0
Montréal/Pierre Elliott Trudeau International	194	60	516	733	2,692	5,307	4,700	1,517	50	1,243
Montréal/St-Hubert	1,159	354	577	277	108	3	2	3	1	0
Oshawa	1,211	51	35	8	4	2	0	0	0	0
Ottawa/Macdonald-Cartier International	1,083	88	862	178	592	2,979	2,941	335	65	262
Pitt Meadows	1,382	84	8	0	0	0	0	0	0	0
Prince George	267	107	153	598	8	386	189	0	0	0
Québec/Jean Lesage International	922	255	748	309	997	1,737	317	2	0	104
Regina International	432	122	353	240	38	959	675	0	80	30
Saskatoon/John G Diefenbaker International	611	284	600	466	171	1,113	658	4	27	17
Sault Ste. Marie	179	112	532	80	309	53	9	0	0	0
St. John's International	28	28	267	642	650	648	619	199	111	38
St-Jean	243	0	0	0	0	0	0	0	0	0
Thunder Bay	259	196	1,936	260	20	744	227	2	0	0
Toronto/Billy Bishop Toronto City	793	80	506	35	6	2,768	0	0	0	0
Toronto/Buttonville Municipal	1,666	287	164	65	13	7	0	0	0	0
Toronto/Lester B Pearson International	6	121	377	1,761	3,708	7,135	13,781	3,629	469	3,242
Vancouver Harbour	35	1,683	825	0	0	0	0	0	0	0
Vancouver International	516	2,680	879	2,481	1,746	5,156	5,965	1,299	410	2,003
Victoria International	1,841	854	137	342	739	1,213	561	28	34	0
Whitehorse International	224	98	119	56	0	287	135	2	0	0
Windsor	225	186	72	75	366	55	28	8	4	0
Winnipeg/James Armstrong Richardson International	271	295	2,953	361	743	2,007	2,256	209	681	106
Winnipeg/St. Andrews	1,788	800	128	0	0	0	0	0	0	0
Yellowknife	222	441	654	155	210	719	488	111	0	0
Total of NAV CANADA towers (42)	33,163	12,690	18,723	16,010	16,481	45,437	50,174	8,808	3,395	8,236

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	248	17	143	22	24	0	0	42	0	0
Campbell River	396	52	31	483	129	2	0	0	0	0
Castlegar	54	10	10	46	49	102	0	2	0	0
Charlottetown	105	129	43	168	54	232	32	8	0	0
Churchill	21	2	137	100	123	433	2	0	0	0
Cranbrook	101	34	71	200	166	216	0	4	0	0
Deer Lake	6	5	34	361	481	96	95	4	0	0
Fort Nelson	428	68	189	183	141	56	14	0	0	0
Fort St. John	341	20	142	288	157	288	0	0	0	0
Grande Prairie	370	212	422	279	58	397	179	0	0	0
High Level	114	108	153	147	2	0	0	0	0	0
Îles-de-la-Madeleine	0	16	109	20	139	28	0	0	0	0
Inuvik/Mike Zubko	73	38	581	2	0	46	94	2	0	0
Iqaluit	3	8	321	56	160	330	253	17	2	47
Kamloops	306	81	65	319	144	471	68	0	0	0
Kenora	120	32	461	7	12	0	0	4	0	0
Kingston	689	39	148	255	177	13	0	2	0	0
Kuujuuaq	59	10	545	2	96	78	98	2	3	14
La Grande Rivière	2	14	200	5	66	351	46	0	0	0
La Ronge	78	122	555	55	157	111	0	0	0	0
Lethbridge	400	62	103	397	12	1	0	0	0	0
Lloydminster	261	53	72	105	10	0	0	0	0	0
Medicine Hat	208	17	197	313	0	6	0	0	0	0
Mont-Joli	10	18	119	104	119	13	4	0	0	0
Montréal/Mirabel International	328	201	45	111	27	216	72	10	313	165
Nanaimo	590	463	82	58	34	344	0	2	0	0
Norman Wells	125	76	232	25	0	32	186	2	0	0
North Bay	333	161	252	34	198	57	12	8	0	2
Ottawa/Gatineau	800	57	96	6	0	0	0	2	0	0
Peace River	49	67	277	36	12	2	0	0	0	0
Penticton	412	5	27	101	9	173	0	2	0	0
Port Hardy	27	58	130	78	122	5	0	0	0	0
Prince Albert	56	80	264	334	224	426	0	0	0	0
Prince Rupert	6	37	14	16	52	127	0	0	0	0
Rankin Inlet	0	0	169	69	237	239	133	0	1	0
Red Deer Regional	701	104	95	185	12	4	1	2	0	0
Rouyn-Noranda	13	4	273	58	253	160	60	0	0	0
Saint John	85	149	120	246	144	275	6	0	0	0
Sept-Îles	317	148	408	502	341	149	12	0	0	0
Stouffville	150	289	1,204	739	0	0	0	4	0	0
Smithers	31	10	56	209	45	99	0	0	0	0
St. Catharines	411	60	19	6	1	2	0	0	0	0
Sudbury	140	146	1,043	166	206	213	6	2	0	0
Terrace	125	17	104	142	134	188	0	0	0	0
Thompson	127	254	1,411	14	112	650	0	5	0	0
Timmins	50	134	966	57	475	127	0	0	0	0
Val-d'Or	86	14	154	96	297	112	20	0	0	38
Victoria Harbour	9	1,011	881	4	13	0	0	0	0	0
Wabush	11	54	215	325	306	16	0	0	0	0
Whitecourt	323	14	34	4	2	0	2	0	0	0
Williams Lake	75	10	21	389	13	0	0	2	0	0
Total of all flight service stations (51)	9,773	4,790	13,443	7,927	5,745	6,886	1,395	128	319	266

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Abbotsford							
Domestic	2,127	484	1,157	27	396	50	13
Transborder	41	3	4	0	34	0	0
Other international	13	13	0	0	0	0	0
Total	2,181	500	1,161	27	430	50	13
Boundary Bay							
Domestic	3,193	2	772	1,737	642	40	0
Transborder	46	2	7	8	29	0	0
Other international	0	0	0	0	0	0	0
Total	3,239	4	779	1,745	671	40	0
Calgary International							
Domestic	14,748	12,987	599	340	694	104	24
Transborder	3,341	2,991	65	2	282	0	1
Other international	696	685	2	0	9	0	0
Total	18,785	16,663	666	342	985	104	25
Calgary/Springbank							
Domestic	2,987	22	278	1,870	801	4	12
Transborder	22	2	0	0	20	0	0
Other international	0	0	0	0	0	0	0
Total	3,009	24	278	1,870	821	4	12
Chicoutimi/St-Honoré							
Domestic	415	179	50	145	41	0	0
Transborder	0	0	0	0	0	0	0
Other international	1	0	0	0	1	0	0
Total	416	179	50	145	42	0	0
Edmonton City Centre							
Domestic	3,051	1,307	362	656	424	299	3
Transborder	21	6	1	4	10	0	0
Other international	0	0	0	0	0	0	0
Total	3,072	1,313	363	660	434	299	3
Edmonton International							
Domestic	9,033	8,223	282	128	360	8	32
Transborder	1,370	1,305	4	2	58	0	1
Other international	224	216	0	0	8	0	0
Total	10,627	9,744	286	130	426	8	33
Edmonton/Villeneuve							
Domestic	610	0	107	341	162	0	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	610	0	107	341	162	0	0
Fort McMurray							
Domestic	2,514	1,504	632	143	209	24	2
Transborder	4	1	0	1	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,518	1,505	632	144	211	24	2
Fredericton International							
Domestic	2,234	786	1,355	0	62	26	5
Transborder	13	4	0	0	8	0	1
Other international	3	3	0	0	0	0	0
Total	2,250	793	1,355	0	70	26	6
Gander International							
Domestic	1,005	388	524	2	32	14	45
Transborder	154	38	0	9	73	2	32
Other international	210	77	2	13	78	2	38
Total	1,369	503	526	24	183	18	115

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	5,535	5,042	299	6	111	20	57
Transborder	881	801	5	1	61	0	13
Other international	167	136	2	2	17	0	10
Total	6,583	5,979	306	9	189	20	80
Hamilton							
Domestic	1,718	1,383	114	4	137	74	6
Transborder	567	473	27	2	61	4	0
Other international	55	45	2	1	7	0	0
Total	2,340	1,901	143	7	205	78	6
Kelowna							
Domestic	2,966	2,246	315	104	238	55	8
Transborder	235	202	6	1	26	0	0
Other international	38	38	0	0	0	0	0
Total	3,239	2,486	321	105	264	55	8
Kitchener/Waterloo							
Domestic	1,507	302	929	14	252	0	10
Transborder	125	41	11	1	72	0	0
Other international	6	6	0	0	0	0	0
Total	1,638	349	940	15	324	0	10
Langley							
Domestic	1,867	68	230	828	737	4	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,869	68	230	828	739	4	0
London							
Domestic	1,856	871	248	488	183	39	27
Transborder	321	283	1	0	37	0	0
Other international	7	7	0	0	0	0	0
Total	2,184	1,161	249	488	220	39	27
Moncton/Greater Moncton International							
Domestic	3,477	1,593	1,670	0	86	128	0
Transborder	91	79	0	0	12	0	0
Other international	0	0	0	0	0	0	0
Total	3,568	1,672	1,670	0	98	128	0
Montréal/Pierre Elliott Trudeau International							
Domestic	9,061	7,916	489	13	454	182	7
Transborder	5,828	5,311	142	3	367	0	5
Other international	2,123	2,027	28	9	56	2	1
Total	17,012	15,254	659	25	877	184	13
Montréal/St-Hubert							
Domestic	2,369	1,218	234	334	504	56	23
Transborder	114	14	9	0	91	0	0
Other international	1	0	0	0	1	0	0
Total	2,484	1,232	243	334	596	56	23
Oshawa							
Domestic	1,276	37	43	757	387	46	6
Transborder	33	2	3	1	27	0	0
Other international	2	0	0	0	2	0	0
Total	1,311	39	46	758	416	46	6
Ottawa/Macdonald-Cartier International							
Domestic	7,160	5,437	229	978	151	243	122
Transborder	1,908	1,771	22	5	94	4	12
Other international	317	293	4	0	4	0	16
Total	9,385	7,501	255	983	249	247	150

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	1,471	4	430	302	700	35	0
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,474	4	430	302	703	35	0
Prince George							
Domestic	1,694	1,208	298	29	99	60	0
Transborder	6	2	1	0	3	0	0
Other international	8	7	1	0	0	0	0
Total	1,708	1,217	300	29	102	60	0
Québec/Jean Lesage International							
Domestic	4,736	3,026	1,037	106	280	259	28
Transborder	452	418	1	2	28	2	1
Other international	203	196	0	1	1	0	5
Total	5,391	3,640	1,038	109	309	261	34
Regina International							
Domestic	2,421	1,745	346	30	138	154	8
Transborder	430	386	2	1	37	4	0
Other international	78	78	0	0	0	0	0
Total	2,929	2,209	348	31	175	158	8
Saskatoon/John G Diefenbaker International							
Domestic	3,637	2,506	522	136	202	243	28
Transborder	263	220	9	0	34	0	0
Other international	51	50	0	1	0	0	0
Total	3,951	2,776	531	137	236	243	28
Sault Ste. Marie							
Domestic	1,259	983	68	118	71	9	10
Transborder	11	0	2	0	9	0	0
Other international	4	4	0	0	0	0	0
Total	1,274	987	70	118	80	9	10
St. John's International							
Domestic	2,981	2,081	714	3	55	103	25
Transborder	117	47	0	3	21	0	46
Other international	132	55	3	6	20	6	42
Total	3,230	2,183	717	12	96	109	113
St-Jean							
Domestic	243	0	88	22	116	3	14
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	243	0	88	22	116	3	14
Thunder Bay							
Domestic	3,598	2,798	376	132	179	85	28
Transborder	29	6	2	2	19	0	0
Other international	17	16	1	0	0	0	0
Total	3,644	2,820	379	134	198	85	28
Toronto/Billy Bishop Toronto City							
Domestic	3,182	2,049	492	450	169	14	8
Transborder	1,003	924	10	1	68	0	0
Other international	3	0	2	0	1	0	0
Total	4,188	2,973	504	451	238	14	8
Toronto/Buttonville Municipal							
Domestic	2,039	191	1,052	30	732	34	0
Transborder	157	28	25	4	99	1	0
Other international	6	1	2	0	3	0	0
Total	2,202	220	1,079	34	834	35	0

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	14,292	13,676	291	14	283	14	14
Transborder	14,924	14,067	230	18	607	0	2
Other international	5,013	4,930	49	3	31	0	0
Total	34,229	32,673	570	35	921	14	16
Vancouver Harbour							
Domestic	2,539	2,294	215	2	27	1	0
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	2,543	2,294	215	2	31	1	0
Vancouver International							
Domestic	17,024	14,916	1,445	46	263	338	16
Transborder	4,552	4,249	20	14	269	0	0
Other international	1,559	1,538	6	4	11	0	0
Total	23,135	20,703	1,471	64	543	338	16
Victoria International							
Domestic	5,182	2,490	1,570	242	711	40	129
Transborder	534	450	4	1	76	0	3
Other international	33	32	0	1	0	0	0
Total	5,749	2,972	1,574	244	787	40	132
Whitehorse International							
Domestic	908	658	162	31	29	26	2
Transborder	12	4	1	0	7	0	0
Other international	1	1	0	0	0	0	0
Total	921	663	163	31	36	26	2
Windsor							
Domestic	861	461	280	3	108	4	5
Transborder	145	70	16	1	58	0	0
Other international	13	12	0	0	1	0	0
Total	1,019	543	296	4	167	4	5
Winnipeg/James Armstrong Richardson International							
Domestic	8,547	7,705	168	41	198	246	189
Transborder	1,160	1,069	7	9	66	1	8
Other international	175	170	1	0	2	0	2
Total	9,882	8,944	176	50	266	247	199
Winnipeg/St. Andrews							
Domestic	2,709	612	1,587	382	128	0	0
Transborder	7	0	1	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	2,716	612	1,588	382	134	0	0
Yellowknife							
Domestic	2,999	2,609	252	0	22	55	61
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	3,000	2,609	252	0	23	55	61
Total of NAV CANADA towers (42)							
Domestic	163,031	114,007	22,311	11,034	11,573	3,139	967
Transborder	38,927	35,269	638	96	2,781	18	125
Other international	11,159	10,636	105	41	253	10	114
Total	213,117	159,912	23,054	11,171	14,607	3,167	1,206

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	486	87	157	16	87	18	121
Transborder	10	0	0	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	496	87	157	16	97	18	121
Campbell River							
Domestic	1,080	601	141	102	210	24	2
Transborder	13	0	5	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	1,093	601	146	102	218	24	2
Castlegar							
Domestic	265	193	35	27	6	0	4
Transborder	8	0	0	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	273	193	35	27	14	0	4
Charlottetown							
Domestic	764	564	38	74	50	26	12
Transborder	7	2	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	771	566	38	74	55	26	12
Churchill							
Domestic	818	757	24	24	7	4	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	818	757	24	24	7	4	2
Cranbrook							
Domestic	778	643	15	12	92	6	10
Transborder	14	4	2	0	8	0	0
Other international	0	0	0	0	0	0	0
Total	792	647	17	12	100	6	10
Deer Lake							
Domestic	1,077	874	159	0	11	28	5
Transborder	3	1	1	0	1	0	0
Other international	2	0	1	0	0	0	1
Total	1,082	875	161	0	12	28	6
Fort Nelson							
Domestic	1,079	460	588	0	25	0	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,079	460	588	0	25	0	6
Fort St. John							
Domestic	1,236	833	311	1	83	8	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,236	833	311	1	83	8	0
Grande Prairie							
Domestic	1,915	1,293	319	83	206	14	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,917	1,293	319	83	208	14	0
High Level							
Domestic	524	286	196	0	38	4	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	524	286	196	0	38	4	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	312	246	18	0	0	46	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	312	246	18	0	0	46	2
Inuvik/Mike Zubko							
Domestic	836	764	47	0	1	19	5
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	836	764	47	0	1	19	5
Iqaluit							
Domestic	1,143	1,026	26	34	13	43	1
Transborder	20	7	3	0	9	0	1
Other international	34	17	2	1	12	0	2
Total	1,197	1,050	31	35	34	43	4
Kamloops							
Domestic	1,443	988	150	6	275	18	6
Transborder	11	0	0	0	11	0	0
Other international	0	0	0	0	0	0	0
Total	1,454	988	150	6	286	18	6
Kenora							
Domestic	634	372	199	0	19	18	26
Transborder	2	1	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	636	373	199	0	20	18	26
Kingston							
Domestic	1,313	478	377	236	188	18	16
Transborder	10	0	1	0	8	0	1
Other international	0	0	0	0	0	0	0
Total	1,323	478	378	236	196	18	17
Kuujuuaq							
Domestic	906	783	75	2	13	32	1
Transborder	0	0	0	0	0	0	0
Other international	1	0	0	0	0	0	1
Total	907	783	75	2	13	32	2
La Grande Rivière							
Domestic	684	543	112	3	18	8	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	684	543	112	3	18	8	0
La Ronge							
Domestic	1,078	1,010	0	0	12	56	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,078	1,010	0	0	12	56	0
Lethbridge							
Domestic	921	431	30	222	214	20	4
Transborder	54	3	3	3	43	0	2
Other international	0	0	0	0	0	0	0
Total	975	434	33	225	257	20	6
Lloydminster							
Domestic	500	166	160	8	142	18	6
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	501	166	160	8	143	18	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	738	477	134	21	96	6	4
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	741	477	134	21	99	6	4
Mont-Joli							
Domestic	387	274	82	7	6	18	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	387	274	82	7	6	18	0
Montréal/Mirabel International							
Domestic	1,264	621	326	44	251	3	19
Transborder	213	198	2	1	11	0	1
Other international	11	9	0	0	2	0	0
Total	1,488	828	328	45	264	3	20
Nanaimo							
Domestic	1,547	482	546	65	405	36	13
Transborder	26	0	3	0	22	0	1
Other international	0	0	0	0	0	0	0
Total	1,573	482	549	65	427	36	14
Norman Wells							
Domestic	678	534	132	0	0	6	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	678	534	132	0	0	6	6
North Bay							
Domestic	1,051	616	183	129	75	20	28
Transborder	6	3	1	0	1	0	1
Other international	0	0	0	0	0	0	0
Total	1,057	619	184	129	76	20	29
Ottawa/Gatineau							
Domestic	960	76	308	137	399	32	8
Transborder	1	0	1	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	961	76	309	137	399	32	8
Peace River							
Domestic	443	366	59	0	12	6	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	443	366	59	0	12	6	0
Penticton							
Domestic	724	283	274	14	138	5	10
Transborder	5	2	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	729	285	274	14	141	5	10
Port Hardy							
Domestic	417	332	26	0	10	47	2
Transborder	2	0	2	0	0	0	0
Other international	1	1	0	0	0	0	0
Total	420	333	28	0	10	47	2
Prince Albert							
Domestic	1,383	1,207	22	2	67	77	8
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,384	1,207	22	2	68	77	8

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Prince Rupert							
Domestic	247	200	30	0	3	14	0
Transborder	3	0	2	0	1	0	0
Other international	2	0	0	0	2	0	0
Total	252	200	32	0	6	14	0
Rankin Inlet							
Domestic	848	818	0	18	0	12	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	848	818	0	18	0	12	0
Red Deer Regional							
Domestic	1,093	240	290	75	468	14	6
Transborder	11	4	1	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	1,104	244	291	75	474	14	6
Rouyn-Noranda							
Domestic	821	572	149	0	65	35	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	821	572	149	0	65	35	0
Saint John							
Domestic	946	702	56	46	138	4	0
Transborder	76	8	1	0	67	0	0
Other international	3	1	0	0	2	0	0
Total	1,025	711	57	46	207	4	0
Sept-Îles							
Domestic	1,871	1,179	541	31	54	66	0
Transborder	4	1	0	0	3	0	0
Other international	2	1	1	0	0	0	0
Total	1,877	1,181	542	31	57	66	0
Sioux Lookout							
Domestic	2,385	1,931	401	2	37	10	4
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,386	1,932	401	2	37	10	4
Smithers							
Domestic	449	398	39	0	2	10	0
Transborder	1	0	1	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	450	398	40	0	2	10	0
St. Catharines							
Domestic	481	0	317	7	143	12	2
Transborder	18	0	11	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	499	0	328	7	150	12	2
Sudbury							
Domestic	1,911	1,384	371	10	108	34	4
Transborder	11	4	3	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	1,922	1,388	374	10	112	34	4
Terrace							
Domestic	710	548	142	0	4	16	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	710	548	142	0	4	16	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	2,573	2,279	177	2	4	111	0	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	2,573	2,279	177	2	4	111	0	
Timmins								
Domestic	1,808	1,569	176	6	42	15	0	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,809	1,569	176	6	43	15	0	
Val-d'Or								
Domestic	817	695	50	0	56	16	0	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	817	695	50	0	56	16	0	
Victoria Harbour								
Domestic	1,784	1,630	4	0	10	127	13	
Transborder	134	0	0	0	134	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,918	1,630	4	0	144	127	13	
Wabush								
Domestic	926	638	221	0	59	8	0	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	927	638	221	0	60	8	0	
Whitecourt								
Domestic	379	13	255	79	18	12	2	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	379	13	255	79	18	12	2	
Williams Lake								
Domestic	510	412	30	4	61	1	2	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	510	412	30	4	61	1	2	
Total of all flight service stations (51)								
Domestic	49,943	33,874	8,518	1,549	4,441	1,201	360	
Transborder	673	239	43	4	380	0	7	
Other international	56	29	4	1	18	0	4	
Total	50,672	34,142	8,565	1,554	4,839	1,201	371	

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	16	5,732	15	14	100	15	503
Boundary Bay	11	7,979	19	15	117	30	565
Calgary International	3	18,872	6	18	62	8	755
Calgary/Springbank	9	8,656	3	15	110	3	619
Chicoutimi/St-Honoré	39	1,374	2	9	65	3	177
Edmonton City Centre	28	3,655	23	15	40	4	222
Edmonton International	6	10,933	20	13	41	1	458
Edmonton/Villeneuve	31	3,422	7	15	84	1	361
Fort McMurray	35	2,665	7	15	26	6	154
Fredericton International	26	3,876	10	10	48	10	372
Gander International	37	1,897	11	10	36	12	152
Halifax/Robert L. Stanfield International	13	6,771	8	11	31	22	272
Hamilton	32	3,017	23	10	31	15	208
Kelowna	24	4,043	14	14	44	16	215
Kitchener/Waterloo	20	4,663	21	20	69	21	685
Langley	23	4,298	4	15	74	4	332
London	25	3,932	21	13	69	21	487
Moncton/Greater Moncton International	15	6,031	17	11	71	17	611
Montréal/Pierre Elliott Trudeau International	4	17,074	2	18	61	16	659
Montréal/St-Hubert	17	5,504	3	10	142	3	1,038
Oshawa	34	2,707	18	11	54	18	282
Ottawa/Macdonald-Cartier International	5	11,520	9	15	75	9	695
Pitt Meadows	21	4,610	5	14	110	5	404
Prince George	33	2,707	11	15	96	11	412
Québec/Jean Lesage International	12	6,825	9	13	73	3	525
Regina International	27	3,775	21	14	42	21	318
Saskatoon/John G. Diefenbaker International	18	5,039	22	11	52	6	296
Sault Ste. Marie	38	1,812	16	12	42	4	147
St. John's International	29	3,498	12	9	32	8	168
St-Jean	42	971	2	11	29	2	121
Thunder Bay	22	4,488	3	18	77	3	425
Toronto/Billy Bishop Toronto City	14	6,070	15	10	65	9	426
Toronto/Buttonville Municipal	19	4,686	8	9	82	9	500
Toronto/Lester B. Pearson International	1	34,305	16	19	100	17	1,246
Vancouver Harbour	36	2,543	9	15	22	9	130
Vancouver International	2	23,191	15	8	73	15	854
Victoria International	8	9,291	10	13	82	30	506
Whitehorse International	41	1,197	13	14	27	13	79
Windsor	40	1,296	23	11	23	16	78
Winnipeg/James Armstrong Richardson International	7	10,858	3	15	48	7	503
Winnipeg/St. Andrews	10	8,482	6	15	99	1	702
Yellowknife	30	3,429	28	15	32	3	182

Table 8-2
Total aircraft movements, peak hour and peak day — NAV CANADA flight service stations

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	31	928	16	14	41	1	145
Campbell River	16	1,705	10	12	44	1	134
Castlegar	49	325	5	11	29	5	73
Charlottetown	28	976	12	17	19	17	81
Churchill	38	824	11	13	8	22	47
Cranbrook	33	888	11	10	16	11	61
Deer Lake	26	1,084	14	18	9	17	58
Fort Nelson	24	1,151	19	15	21	1	88
Fort St. John	21	1,380	29	17	22	1	89
Grande Prairie	5	2,659	4	17	53	4	183
High Level	43	618	18	11	31	18	76
Îles-de-la-Madeleine	50	312	3	11	4	22	17
Inuvik/Mike Zubko	36	848	7	18	12	8	60
Iqaluit	23	1,255	3	13	13	16	69
Kamloops	3	2,969	11	11	46	11	227
Kenora	40	812	15	13	26	16	97
Kingston	1	3,501	11	15	59	9	325
Kuujuuaq	30	955	12	11	17	29	51
La Grande Rivière	42	686	2	12	7	2	38
La Ronge	25	1,112	2	16	11	1	63
Lethbridge	18	1,573	11	13	33	22	181
Lloydminster	39	823	1	12	54	1	99
Medicine Hat	27	981	14	13	27	7	91
Mont-Joli	48	391	9	11	8	16	40
Montréal/Mirabel International	9	2,098	9	14	54	9	211
Nanaimo	13	1,898	6	11	39	6	138
Norman Wells	17	1,590	21	22	23	21	115
North Bay	4	2,801	9	14	78	9	428
Ottawa/Gatineau	2	2,983	21	10	66	20	214
Peace River	45	493	3	13	11	17	33
Penticton	14	1,853	15	14	71	15	273
Port Hardy	47	428	9	11	9	9	27
Prince Albert	20	1,402	20	16	12	20	70
Prince Rupert	51	268	4	11	17	4	20
Rankin Inlet	35	848	1	14	10	17	51
Red Deer Regional	8	2,138	10	15	54	1	145
Rouyn-Noranda	34	855	3	13	13	9	58
Saint John	22	1,269	12	11	22	18	92
Sept-Îles	10	2,073	22	15	23	1	110
Sioux Lookout	7	2,446	13	12	21	15	124
Smithers	46	450	30	11	8	30	33
St. Catharines	19	1,479	9	18	57	9	171
Sudbury	11	2,040	11	13	25	2	114
Terrace	41	782	29	14	27	29	55
Thompson	6	2,617	6	10	17	7	138
Timmins	15	1,847	1	15	27	1	115
Val-d'Or	29	975	9	11	28	9	96
Victoria Harbour	12	1,969	31	20	45	2	115
Wabush	32	927	10	10	11	14	50
Whitecourt	37	833	6	16	41	6	131
Williams Lake	44	568	1	16	15	13	46

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	30	2,181	15	10	21	15	133
Boundary Bay	15	3,239	4	13	53	4	315
Calgary International	3	18,785	6	18	60	8	745
Calgary/Springbank	19	3,009	4	15	30	4	226
Chicoutimi/St-Honoré	41	416	3	12	12	3	59
Edmonton City Centre	18	3,072	1	11	23	4	165
Edmonton International	5	10,627	1	7	38	15	442
Edmonton/Villeneuve	40	610	4	13	17	4	55
Fort McMurray	24	2,518	17	15	17	6	144
Fredericton International	27	2,250	17	12	24	10	204
Gander International	35	1,369	13	9	13	13	96
Halifax/Robert L. Stanfield International	8	6,583	7	11	22	22	266
Hamilton	26	2,340	23	10	25	15	143
Kelowna	16	3,239	18	12	19	15	148
Kitchener/Waterloo	33	1,638	4	13	26	9	208
Langley	31	1,869	30	15	32	4	149
London	29	2,184	21	13	30	21	225
Moncton/Greater Moncton International	14	3,568	17	10	27	10	298
Montréal/Pierre Elliott Trudeau International	4	17,012	2	18	61	16	657
Montréal/St-Hubert	25	2,484	3	12	35	3	324
Oshawa	36	1,311	18	11	48	18	194
Ottawa/Macdonald-Cartier International	7	9,385	9	13	43	9	479
Pitt Meadows	34	1,474	4	14	40	4	186
Prince George	32	1,708	11	11	18	8	90
Québec/Jean Lesage International	10	5,391	3	15	32	3	315
Regina International	21	2,929	15	15	23	21	159
Saskatoon/John G. Diefenbaker International	12	3,951	22	13	26	22	201
Sault Ste. Marie	37	1,274	4	11	11	9	82
St. John's International	17	3,230	14	14	14	8	138
St-Jean	42	243	3	10	9	3	34
Thunder Bay	13	3,644	13	16	19	2	176
Toronto/Billy Bishop Toronto City	11	4,188	11	15	26	9	235
Toronto/Buttonville Municipal	28	2,202	9	16	37	9	258
Toronto/Lester B. Pearson International	1	34,229	16	19	100	17	1,244
Vancouver Harbour	23	2,543	9	15	22	9	130
Vancouver International	2	23,135	15	8	73	15	854
Victoria International	9	5,749	4	15	40	30	298
Whitehorse International	39	921	1	9	10	1	57
Windsor	38	1,019	28	16	9	15	60
Winnipeg/James Armstrong Richardson International	6	9,882	1	17	32	7	421
Winnipeg/St. Andrews	22	2,716	8	10	24	8	180
Yellowknife	20	3,000	8	12	21	3	156

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	43	496	1	11	20	1	59
Campbell River	16	1,093	5	14	16	30	72
Castlegar	50	273	5	14	7	5	25
Charlottetown	32	771	17	14	9	17	49
Churchill	29	818	17	21	7	22	47
Cranbrook	31	792	17	16	9	17	41
Deer Lake	17	1,082	14	18	9	17	56
Fort Nelson	18	1,079	16	10	14	1	78
Fort St. John	13	1,236	7	11	12	1	71
Grande Prairie	5	1,917	6	16	20	1	94
High Level	39	524	10	14	7	13	32
Îles-de-la-Madeleine	49	312	3	11	4	22	17
Inuvik/Mike Zubko	27	836	8	14	9	8	56
Iqaluit	14	1,197	16	14	12	16	61
Kamloops	10	1,454	11	11	12	1	74
Kenora	38	636	13	15	10	16	45
Kingston	12	1,323	16	14	16	9	97
Kuujuuaq	25	907	29	14	10	29	51
La Grande Rivière	36	684	2	12	7	2	38
La Ronge	19	1,078	14	9	11	20	61
Lethbridge	22	975	13	15	12	22	77
Lloydminster	41	501	6	11	6	9	36
Medicine Hat	33	741	1	16	11	14	45
Mont-Joli	47	387	9	11	8	16	40
Montréal/Mirabel International	9	1,488	16	11	14	9	105
Nanaimo	8	1,573	4	15	18	17	112
Norman Wells	37	678	13	15	9	15	37
North Bay	20	1,057	9	14	18	9	104
Ottawa/Gatineau	23	961	11	15	12	17	62
Peace River	45	443	1	8	6	17	31
Penticton	34	729	2	15	9	15	55
Port Hardy	46	420	13	15	8	15	26
Prince Albert	11	1,384	20	16	12	20	70
Prince Rupert	51	252	14	10	6	14	19
Rankin Inlet	26	848	1	14	10	17	51
Red Deer Regional	15	1,104	6	14	14	4	83
Rouyn-Noranda	28	821	15	10	8	16	47
Saint John	21	1,025	12	11	8	17	49
Sept-Îles	6	1,877	1	11	15	1	102
Sioux Lookout	2	2,386	8	12	16	15	124
Smithers	44	450	30	11	8	30	33
St. Catharines	42	499	28	11	12	3	53
Sudbury	3	1,922	16	18	16	15	104
Terrace	35	710	15	15	8	1	35
Thompson	1	2,573	3	15	16	21	125
Timmins	7	1,809	9	16	14	9	91
Val-d'Or	30	817	9	10	8	29	48
Victoria Harbour	4	1,918	2	9	25	2	115
Wabush	24	927	10	10	11	14	50
Whitecourt	48	379	5	15	8	7	33
Williams Lake	40	510	13	9	7	13	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	3,551	15	14	83	15	370
Boundary Bay	3	4,740	19	15	88	30	300
Calgary International	38	87	3	17	8	8	10
Calgary/Springbank	2	5,647	3	15	92	3	480
Chicoutimi/St-Honoré	22	958	1	10	58	9	138
Edmonton City Centre	28	583	23	15	32	4	57
Edmonton International	32	306	18	11	26	18	70
Edmonton/Villeneuve	9	2,812	7	15	76	1	328
Fort McMurray	37	147	4	15	16	4	28
Fredericton International	16	1,626	10	10	32	10	168
Gander International	30	528	8	12	24	12	88
Halifax/Robert L. Stanfield International	36	188	2	13	12	1	30
Hamilton	27	677	19	15	27	21	86
Kelowna	25	804	14	14	30	16	72
Kitchener/Waterloo	7	3,025	21	20	64	21	513
Langley	12	2,429	11	11	61	4	183
London	15	1,748	4	11	48	21	262
Moncton/Greater Moncton International	11	2,463	17	11	52	17	316
Montréal/Pierre Elliott Trudeau International	40	62	2	9	4	6	10
Montréal/St-Hubert	8	3,020	3	10	112	3	714
Oshawa	18	1,396	11	13	37	11	167
Ottawa/Macdonald-Cartier International	13	2,135	11	18	40	9	216
Pitt Meadows	6	3,136	5	14	92	5	300
Prince George	20	999	11	15	90	11	330
Québec/Jean Lesage International	17	1,434	9	13	44	3	210
Regina International	23	846	21	14	32	21	159
Saskatoon/John G. Diefenbaker International	19	1,088	6	15	32	5	107
Sault Ste. Marie	29	538	16	12	34	4	84
St. John's International	35	268	12	9	22	12	42
St-Jean	26	728	2	11	24	2	106
Thunder Bay	24	844	3	18	66	3	250
Toronto/Billy Bishop Toronto City	14	1,882	15	10	48	9	191
Toronto/Buttonville Municipal	10	2,484	8	9	62	3	284
Toronto/Lester B. Pearson International	39	76	3	10	10	3	12
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	41	56	4	8	18	4	24
Victoria International	5	3,542	10	13	56	5	236
Whitehorse International	34	276	13	14	22	14	44
Windsor	33	277	23	11	20	28	29
Winnipeg/James Armstrong Richardson International	21	976	8	12	26	7	82
Winnipeg/St. Andrews	1	5,766	6	15	78	1	543
Yellowknife	31	429	28	15	24	28	68

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	14	432	16	14	36	1	86
Campbell River	10	612	10	12	38	10	88
Castlegar	32	52	5	11	24	5	48
Charlottetown	19	205	18	10	16	17	32
Churchill	44	6	11	13	6	11	6
Cranbrook	25	96	11	11	12	11	30
Deer Lake	46	2	17	14	2	17	2
Fort Nelson	27	72	19	15	16	29	28
Fort St. John	23	144	29	17	18	30	30
Grande Prairie	9	742	4	17	44	4	122
High Level	26	94	18	11	30	18	56
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	42	12	4	19	4	4	4
Iqaluit	30	58	3	13	8	15	10
Kamloops	4	1,515	16	13	38	11	156
Kenora	21	176	15	13	24	16	52
Kingston	1	2,178	11	15	46	9	228
Kuujuuaq	35	48	12	11	14	12	14
La Grande Rivière	47	2	21	13	2	21	2
La Ronge	38	34	1	13	6	1	10
Lethbridge	12	598	22	12	28	22	104
Lloydminster	16	322	1	12	50	1	74
Medicine Hat	18	240	14	13	22	7	52
Mont-Joli	45	4	18	9	4	18	4
Montréal/Mirabel International	11	610	9	14	42	9	106
Nanaimo	15	325	6	11	30	6	58
Norman Wells	8	912	21	22	22	21	90
North Bay	3	1,744	3	11	66	9	324
Ottawa/Gatineau	2	2,022	21	10	54	20	154
Peace River	34	50	3	13	8	3	12
Penticton	5	1,124	15	14	64	15	218
Port Hardy	43	8	9	11	4	9	4
Prince Albert	40	18	30	18	8	11	8
Prince Rupert	41	16	4	11	16	4	16
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	6	1,034	10	15	48	11	108
Rouyn-Noranda	39	34	9	13	12	3	18
Saint John	17	244	12	11	14	18	54
Sept-Îles	20	196	22	15	16	22	28
Sioux Lookout	29	60	21	15	10	21	18
Smithers	0	0	0	0	0	0	0
St. Catharines	7	980	9	18	52	9	132
Sudbury	24	118	27	14	20	27	30
Terrace	28	72	29	14	24	5	26
Thompson	36	44	7	13	8	7	18
Timmins	37	38	1	15	18	1	26
Val-d'Or	22	158	9	11	26	9	58
Victoria Harbour	33	51	31	20	45	31	45
Wabush	0	0	0	0	0	0	0
Whitecourt	13	454	6	16	38	6	108
Williams Lake	31	58	1	16	12	1	20

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	3,551	15	14	83	15	370
Boundary Bay	3	4,740	19	15	88	30	300
Calgary International	38	86	3	17	8	8	10
Calgary/Springbank	2	5,637	3	15	92	3	477
Chicoutimi/St-Honoré	22	926	1	10	58	9	138
Edmonton City Centre	28	583	23	15	32	4	57
Edmonton International	32	300	18	11	26	18	70
Edmonton/Villeneuve	9	2,812	7	15	76	1	328
Fort McMurray	37	147	4	15	16	4	28
Fredericton International	16	1,616	10	10	32	10	168
Gander International	30	527	8	12	24	12	88
Halifax/Robert L. Stanfield International	36	179	2	13	12	1	30
Hamilton	27	677	19	15	27	21	86
Kelowna	25	804	14	14	30	16	72
Kitchener/Waterloo	7	3,024	21	20	64	21	513
Langley	12	2,429	11	11	61	4	183
London	15	1,747	4	11	48	21	262
Moncton/Greater Moncton International	11	2,457	17	11	52	17	316
Montréal/Pierre Elliott Trudeau International	40	58	2	9	4	6	10
Montréal/St-Hubert	8	3,014	3	10	112	3	714
Oshawa	18	1,396	11	13	37	11	167
Ottawa/Macdonald-Cartier International	13	2,127	11	18	40	9	216
Pitt Meadows	6	3,136	5	14	92	5	300
Prince George	20	999	11	15	90	11	330
Québec/Jean Lesage International	17	1,422	9	13	44	3	210
Regina International	24	810	21	14	32	21	159
Saskatoon/John G. Diefenbaker International	19	1,063	6	15	32	5	107
Sault Ste. Marie	29	531	16	12	34	4	84
St. John's International	35	262	12	9	22	12	40
St-Jean	26	723	2	11	24	2	106
Thunder Bay	23	835	3	18	66	3	248
Toronto/Billy Bishop Toronto City	14	1,882	15	10	48	9	191
Toronto/Buttonville Municipal	10	2,484	8	9	62	3	284
Toronto/Lester B. Pearson International	39	76	3	10	10	3	12
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	41	56	4	8	18	4	24
Victoria International	5	3,538	10	13	56	5	235
Whitehorse International	34	276	13	14	22	14	44
Windsor	33	277	23	11	20	28	29
Winnipeg/James Armstrong Richardson International	21	967	8	12	26	7	82
Winnipeg/St. Andrews	1	5,766	6	15	78	1	543
Yellowknife	31	429	28	15	24	28	68

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	14	404	16	14	36	16	80
Campbell River	10	612	10	12	38	10	88
Castlegar	31	52	5	11	24	5	48
Charlottetown	19	201	18	10	16	17	32
Churchill	44	6	11	13	6	11	6
Cranbrook	26	90	11	11	12	11	24
Deer Lake	46	2	17	14	2	17	2
Fort Nelson	27	72	19	15	16	29	28
Fort St. John	23	144	29	17	18	30	30
Grande Prairie	9	742	4	17	44	4	122
High Level	25	94	18	11	30	18	56
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	41	12	4	19	4	4	4
Iqaluit	30	58	3	13	8	15	10
Kamloops	4	1,515	16	13	38	11	156
Kenora	22	150	16	12	16	16	52
Kingston	1	2,172	11	15	46	9	224
Kuujuuaq	34	48	12	11	14	12	14
La Grande Rivière	47	2	21	13	2	21	2
La Ronge	38	34	1	13	6	1	10
Lethbridge	12	598	22	12	28	22	104
Lloydminster	15	314	1	12	50	1	74
Medicine Hat	18	240	14	13	22	7	52
Mont-Joli	45	4	18	9	4	18	4
Montréal/Mirabel International	11	608	9	14	42	9	106
Nanaimo	16	313	6	11	30	6	58
Norman Wells	8	912	21	22	22	21	90
North Bay	3	1,744	3	11	66	9	324
Ottawa/Gatineau	2	2,022	21	10	54	20	154
Peace River	33	50	3	13	8	3	12
Penticton	5	1,104	15	14	64	15	218
Port Hardy	43	8	9	11	4	9	4
Prince Albert	42	10	30	18	8	30	8
Prince Rupert	40	16	4	11	16	4	16
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	6	1,034	10	15	48	11	108
Rouyn-Noranda	39	34	9	13	12	3	18
Saint John	17	242	12	11	14	18	54
Sept-Îles	20	196	22	15	16	22	28
Sioux Lookout	29	60	21	15	10	21	18
Smithers	0	0	0	0	0	0	0
St. Catharines	7	980	9	18	52	9	132
Sudbury	24	118	27	14	20	27	30
Terrace	28	72	29	14	24	5	26
Thompson	36	44	7	13	8	7	18
Timmins	37	38	1	15	18	1	26
Val-d'Or	21	158	9	11	26	9	58
Victoria Harbour	32	51	31	20	45	31	45
Wabush	0	0	0	0	0	0	0
Whitecourt	13	454	6	16	38	6	108
Williams Lake	35	46	1	16	12	1	20

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	19	1	7	17	1	7	1
Calgary/Springbank	6	10	3	14	2	10	4
Chicoutimi/St-Honoré	2	32	22	11	10	22	10
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	12	6	13	12	2	13	4
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	0	0	0	0	0	0	0
Fredericton International	5	10	11	19	4	11	4
Gander International	20	1	7	15	1	7	1
Halifax/Robert L. Stanfield International	7	9	7	9	4	7	4
Hamilton	0	0	0	0	0	0	0
Kelowna	0	0	0	0	0	0	0
Kitchener/Waterloo	22	1	5	8	1	5	1
Langley	0	0	0	0	0	0	0
London	21	1	5	8	1	5	1
Moncton/Greater Moncton International	13	6	11	15	2	11	2
Montréal/Pierre Elliott Trudeau International	17	4	11	19	2	11	2
Montréal/St-Hubert	15	6	10	18	6	10	6
Oshawa	0	0	0	0	0	0	0
Ottawa/Macdonald-Cartier International	10	8	11	14	4	11	4
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	4	12	10	18	6	10	6
Regina International	1	36	3	13	4	6	12
Saskatoon/John G. Diefenbaker International	3	25	12	15	8	6	8
Sault Ste. Marie	11	7	14	12	2	5	2
St. John's International	14	6	4	11	2	4	3
St-Jean	16	5	9	13	5	9	5
Thunder Bay	9	9	14	13	6	14	6
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	18	4	4	16	1	4	1
Whitehorse International	0	0	0	0	0	0	0
Windsor	0	0	0	0	0	0	0
Winnipeg/James Armstrong Richardson International	8	9	5	11	2	10	4
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	1	28	1	12	14	1	20
Campbell River	0	0	0	0	0	0	0
Castlegar	0	0	0	0	0	0	0
Charlottetown	10	4	7	10	2	7	2
Churchill	0	0	0	0	0	0	0
Cranbrook	8	6	11	17	6	11	6
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	2	26	15	13	24	15	24
Kingston	9	6	9	12	4	9	4
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	7	8	7	15	8	7	8
Medicine Hat	0	0	0	0	0	0	0
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	11	2	16	12	2	16	2
Nanaimo	4	12	8	10	10	8	10
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	3	20	1	11	14	1	20
Port Hardy	0	0	0	0	0	0	0
Prince Albert	6	8	11	15	4	11	8
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	12	2	29	10	2	29	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	5	12	12	14	12	12	12

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 struck the northeastern United States, Atlantic Canada and Britain in December 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.

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

Appendix II

Glossary of terms

Air carrier

Aircraft operators, licensed by the Canadian Transportation Agency to transport persons, mail and/or goods by air.

Level I-III air carriers: Canadian air carriers that, in the calendar year immediately preceding the report year, realized annual gross revenues of \$2,000,000 or more for the air services for which the air carrier held a licence. Also includes foreign air carriers.

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

Aircraft movement

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

Class of operation

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

Commercial

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

Domestic itinerant movements

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

FSS

Flight service station.

Government-Civil

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

Government-Military

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

Gross take-off weight

The maximum weight for which the aircraft is licensed to operate. For operational purposes, all weights are rounded upwards to the next 1,000 kilograms. Thus 3,200 kilograms becomes 4,000 kilograms.

I.F.R. flight

A flight conducted in accordance with Instrument flight rules.

International movements

Movements, at a Canadian airport, of aircraft arriving from or departing to a point outside Canada. International movements are subclassified into "transborder" (to or from a point in the United States including Alaska, Hawaii, and Puerto Rico), and "other international" (to or from points in countries other than Canada and the United States). Since aircraft movements are reported on the basis of place "arrived from" or "departed to", an arrival at Halifax airport from London, England would appear under "other international". If the same aircraft moved on to Toronto, both the departure at Halifax and the arrival at Toronto would be shown as "domestic".

Itinerant movements

At airports **with** control towers and/or flight service stations: for the purpose of completing air traffic records, itinerant movements are considered as movements in which aircraft proceed to or arrive from another location; or where aircraft leave the circuit but return without landing at another airport. At airports **without** control towers: an aircraft movement in which the aircraft arrives from or departs to a point other than the reporting airport; or a movement by an aircraft that leaves the close proximity of an airport and returns without landing at another airport.

Local movements

At airports **with** control towers and/or flight service stations: for the purpose of completing air traffic records, local movements are considered as movements in which the aircraft remains in the circuit. At airports **without** control towers: an aircraft movement in which the aircraft remains in the close proximity of the airport. Local movements are often carried out during training flights (touch-and-go), equipment tests etc.

Other commercial

Flights performed by **Commercial** aircraft operators not included in the **Air carrier** categories. Flying schools, agricultural sprayers, water-bombers, aerial photography and survey, etc.

Power plant

The source of propulsion. For example, piston engines, turbo-propellers and jet engines. "Helicopters", in this report, include both piston and turboshaft-driven engines.

Private aircraft

Aircraft used solely for private purposes, not for hire and compensation, which are classified as "Private" or "Private Restricted" in the Canadian civil aircraft register or similar registries of other countries. Owners include individuals, groups and business firms.

Runway 88

Through control zone flights, i.e. flights which communicate with the tower while transiting the tower control zone to another destination without landing at the reporting airport.

Data for these runways are not included in the grand total.

Simulated approaches

Movements that are either missed instrument or practice instrument approaches without landing.

TC

Transport Canada.

Tower control zone

A controlled airspace within the proximity of an air traffic control tower, usually within a radius of less than 24 kilometres of the tower.

V.F.R. flight

A flight conducted in accordance with Visual flight rules.

Weight group

The classification of weight classes in groups for statistical purposes.