

Catalogue no. 51-007-X

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



November 2011



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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
- * significantly different from reference category ($p < 0.05$)

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Highlights

There were 431,472 aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in November 2011 compared with 431,462 movements in November 2010.

Itinerant movements (flights from one airport to another) increased 1.9% (+5,745 movements) in November 2011 from the same month the previous year. These airports reported 305,319 movements compared with 299,574 movements in November 2010.

In November 2011, there were 126,153 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 4.3% (-5,735 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, November 2010 to November 2011	number	Percentage change, November 2010 to November 2011	number	Percentage change, November 2010 to November 2011
Grand total	347,451	-0.2	84,021	0.8	431,472	0.0
Itinerant movements						
Air carriers	195,424	2.1	49,109	2.9	244,533	2.3
Other commercial movements	20,727	0.9	2,307	-0.8	23,034	0.7
Private movements	21,741	-0.2	7,025	-5.3	28,766	-1.5
Government civil movements	4,382	5.7	1,527	2.5	5,909	4.9
Government military movements	2,239	8.3	838	16.6	3,077	10.4
Itinerant total	244,513	1.9	60,806	1.9	305,319	1.9
Local movements						
Civil local movements	102,552	-4.5	22,987	-2.3	125,539	-4.1
Military local movements	386	-52.2	228	24.6	614	-38.0
Local total	102,938	-4.8	23,215	-2.1	126,153	-4.3

Analysis

There were 431,472 aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in November 2011 compared with 431,462 movements in November 2010. Year-over-year increases were reported by 52 airports. Toronto/Lester B. Pearson International, Ontario (33,357 movements) followed by Vancouver International, British Columbia (22,358 movements) were the most active sites in November 2011.

Itinerant movements (flights from one airport to another) increased 1.9% (+5,745 movements) in November 2011 from the same month the previous year. These airports reported 305,319 movements compared with 299,574 movements in November 2010. Year-over-year variations ranged from an increase of 1,464 movements (+26.1%) at Toronto/Billy Bishop Toronto City, Ontario to a drop of 1,457 movements (-30.2%) at London, Ontario. Fifty-five airports reported year-over-year increases in the number of itinerant aircraft movements in November 2011.

In November 2011, there were 126,153 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 4.3% (-5,735 movements) compared with the previous year. Toronto/Butterville Municipal, Ontario (7,268 movements) followed by Thunder Bay, Ontario (7,216 movements) recorded the largest number of local movements.

Itinerant movements: domestic, transborder and international

There were 256,602 domestic itinerant movements reported by 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in November 2011, up 2.6% (+6,473 movements) from November 2010. Vancouver International, British Columbia (16,779 movements) followed by Calgary International, Alberta (15,242 movements) reported the greatest number of domestic itinerant movements. Fifty-four airports reported year-over-year increases in the number of domestic movements in November 2011.

Sixty-nine airports recorded 39,194 transborder itinerant movements (between Canada and the United States) in November 2011. Toronto/Lester B. Pearson International, Ontario (14,702 movements) reported the greatest number of transborder itinerant movements. This represents a decrease of 2.6% (-397 movements) compared with the previous year.

In November 2011, thirty-eight airports reported 9,523 other international itinerant movements. Toronto/Lester B. Pearson International, Ontario, recorded 4,338 other international itinerant movements. This represents 45.6% 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 maximum 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
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401-0038	Annual itinerant movements, by weight group and type of power plant, airports without air traffic control towers

Selected surveys from Statistics Canada

2715	Aircraft Movement Statistics
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Selected summary tables from Statistics Canada

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

Statistical tables

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

	Total		Itinerant		Local	
	Rank of movements	Number of movements	Rank of movements	Number of movements	Rank of movements	Number of movements
Abbotsford	18	7,376	29	2,662	9	4,714
Boundary Bay	15	8,792	19	3,692	5	5,100
Calgary International	3	19,128	3	18,990	38	138
Calgary/Springbank	11	10,170	18	3,732	4	6,438
Chicoutimi/St-Honoré	24	5,566	38	1,560	11	4,006
Edmonton City Centre	29	4,438	16	3,964	32	474
Edmonton International	9	11,223	6	10,827	34	396
Edmonton/Villeneuve	35	3,701	42	625	14	3,076
Fort McMurray	33	3,914	21	3,544	35	370
Fredericton International	25	5,185	30	2,623	17	2,562
Gander International	38	2,804	37	1,852	29	952
Halifax/Robert L. Stanfield International	20	6,822	10	6,424	33	398
Hamilton	39	2,509	35	1,977	31	532
Kelowna	26	5,158	23	3,484	24	1,674
Kitchener/Waterloo	16	8,364	25	3,350	6	5,014
Langley	30	4,434	33	2,110	20	2,324
London	21	6,670	24	3,362	13	3,308
Moncton/Greater Moncton International	22	6,665	17	3,941	16	2,724
Montréal/Pierre Elliott Trudeau International	4	18,631	4	18,519	39	112
Montréal/St-Hubert	7	12,856	12	6,242	3	6,614
Oshawa	32	4,354	32	2,136	21	2,218
Ottawa/Macdonald-Cartier International	5	16,182	5	11,310	7	4,872
Pitt Meadows	23	6,608	31	2,456	10	4,152
Prince George	36	3,543	36	1,855	23	1,688
Québec/Jean Lesage International	13	10,112	8	7,372	15	2,740
Regina International	27	4,520	27	3,226	26	1,294
Saskatoon/John G. Diefenbaker International	19	7,052	15	4,990	22	2,062
Sault Ste. Marie	28	4,520	34	1,998	18	2,522
St. John's International	34	3,849	20	3,561	36	288
St-Jean	40	2,277	41	703	25	1,574
Thunder Bay	6	12,883	13	5,667	2	7,216
Toronto/Billy Bishop Toronto City	14	9,506	9	7,078	19	2,428
Toronto/Buttonville Municipal	8	12,425	14	5,157	1	7,268
Toronto/Lester B. Pearson International	1	33,357	1	33,261	40	96
Vancouver Harbour	37	3,512	22	3,512	0	0
Vancouver International	2	22,358	2	22,322	41	36
Victoria International	12	10,153	11	6,325	12	3,828
Whitehorse International	42	1,297	40	1,031	37	266
Windsor	41	1,778	39	1,208	30	570
Winnipeg/James Armstrong Richardson International	10	10,835	7	9,843	28	992
Winnipeg/St. Andrews	17	7,497	28	2,749	8	4,748
Yellowknife	31	4,427	26	3,273	27	1,154
Total of NAV CANADA towers (42)	.	347,451	.	244,513	.	102,938

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	21	1,664	33	910	12	754
Campbell River	16	1,921	25	1,127	11	794
Castlegar	48	527	49	383	24	144
Charlottetown	38	846	36	760	29	86
Churchill	39	837	35	820	43	17
Cranbrook	41	795	39	743	32	52
Deer Lake	31	1,256	22	1,230	38	26
Fort Nelson	18	1,830	9	1,740	27	90
Fort St. John	17	1,837	14	1,543	17	294
Grande Prairie	3	3,705	5	2,271	5	1,434
High Level	42	760	40	732	37	28
Îles-de-la-Madeleine	50	364	50	364	0	0
Inuvik/Mike Zubko	29	1,282	21	1,248	36	34
Iqaluit	28	1,325	19	1,291	35	34
Kamloops	23	1,618	18	1,334	19	284
Kenora	36	1,046	38	757	18	289
Kingston	7	2,705	12	1,559	8	1,146
Kuujuuaq	33	1,205	27	1,037	23	168
La Grande Rivière	44	636	43	632	49	4
La Ronge	30	1,257	23	1,171	28	86
Lethbridge	26	1,513	31	1,002	13	511
Lloydminster	40	832	44	610	22	222
Medicine Hat	27	1,479	29	1,009	15	470
Mont-Joli	43	721	41	715	48	6
Montréal/Mirabel International	6	3,194	7	1,919	6	1,275
Nanaimo	13	2,105	10	1,597	14	508
Norman Wells	14	2,000	37	758	7	1,242
North Bay	1	4,539	17	1,379	1	3,160
Ottawa/Gatineau	4	3,605	20	1,259	3	2,346
Peace River	45	575	45	551	41	24
Penticton	20	1,695	34	867	10	828
Port Hardy	46	575	46	549	39	26
Prince Albert	25	1,564	13	1,557	47	7
Prince Rupert	51	302	51	292	46	10
Rankin Inlet	37	972	32	970	50	2
Red Deer Regional	2	4,020	15	1,480	2	2,540
Rouyn-Noranda	34	1,081	26	1,057	40	24
Saint John	24	1,608	24	1,164	16	444
Sept-Îles	11	2,342	6	2,246	26	96
Sioux Lookout	10	2,420	3	2,357	30	63
Smithers	49	441	48	431	45	10
St. Catharines	5	3,214	16	1,402	4	1,812
Sudbury	9	2,623	2	2,384	20	239
Terrace	35	1,054	30	1,006	33	48
Thompson	8	2,651	1	2,617	34	34
Timmins	15	1,946	8	1,832	25	114
Val-d'Or	32	1,251	28	1,029	21	222
Victoria Harbour	12	2,313	4	2,297	44	16
Wabush	22	1,642	11	1,586	31	56
Whitecourt	19	1,767	42	691	9	1,076
Williams Lake	47	561	47	541	42	20
Total of all flight service stations (51)	.	84,021	.	60,806	.	23,215

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

	Civil movements			Military movements				
	Total	Itinerant		Local	Total	Itinerant		Local
		Commercial	Private and government					
	number							
Abbotsford	7,354	2,082	562	4,710	22	18	4	
Boundary Bay	8,790	2,795	895	5,100	2	2	0	
Calgary International	19,096	17,528	1,430	138	32	32	0	
Calgary/Springbank	10,162	2,618	1,110	6,434	8	4	4	
Chicoutimi/St-Honoré	5,558	1,405	155	3,998	8	0	8	
Edmonton City Centre	4,430	2,803	1,153	474	8	8	0	
Edmonton International	11,202	10,179	631	392	21	17	4	
Edmonton/Villeneuve	3,701	405	220	3,076	0	0	0	
Fort McMurray	3,909	2,968	571	370	5	5	0	
Fredericton International	5,178	2,420	196	2,562	7	7	0	
Gander International	2,563	1,334	277	952	241	241	0	
Halifax/Robert L. Stanfield International	6,655	5,934	327	394	167	163	4	
Hamilton	2,499	1,637	332	530	10	8	2	
Kelowna	5,120	3,099	349	1,672	38	36	2	
Kitchener/Waterloo	8,360	2,591	755	5,014	4	4	0	
Langley	4,427	1,202	901	2,324	7	7	0	
London	6,650	2,781	561	3,308	20	20	0	
Moncton/Greater Moncton International	6,655	3,647	284	2,724	10	10	0	
Montréal/Pierre Elliott Trudeau International	18,615	17,213	1,290	112	16	16	0	
Montréal/St-Hubert	12,728	5,148	970	6,610	128	124	4	
Oshawa	4,350	1,492	640	2,218	4	4	0	
Ottawa/Macdonald-Cartier International	15,960	10,545	559	4,856	222	206	16	
Pitt Meadows	6,608	1,465	991	4,152	0	0	0	
Prince George	3,539	1,597	254	1,688	4	4	0	
Québec/Jean Lesage International	10,041	6,195	1,110	2,736	71	67	4	
Regina International	4,290	2,767	417	1,106	230	42	188	
Saskatoon/John G. Diefenbaker International	6,877	4,222	697	1,958	175	71	104	
Sault Ste. Marie	4,507	1,913	76	2,518	13	9	4	
St. John's International	3,639	2,933	422	284	210	206	4	
St-Jean	2,058	200	288	1,570	219	215	4	
Thunder Bay	12,827	5,295	326	7,206	56	46	10	
Toronto/Billy Bishop Toronto City	9,497	6,572	497	2,428	9	9	0	
Toronto/Buttonville Municipal	12,421	2,702	2,451	7,268	4	4	0	
Toronto/Lester B. Pearson International	33,348	32,069	1,183	96	9	9	0	
Vancouver Harbour	3,504	3,477	27	0	8	8	0	
Vancouver International	22,330	21,451	843	36	28	28	0	
Victoria International	9,971	5,286	877	3,808	182	162	20	
Whitehorse International	1,295	922	107	266	2	2	0	
Windsor	1,773	938	265	570	5	5	0	
Winnipeg/James Armstrong Richardson International	10,483	8,733	758	992	352	352	0	
Winnipeg/St. Andrews	7,496	2,497	251	4,748	1	1	0	
Yellowknife	4,360	3,091	115	1,154	67	67	0	
Total of NAV CANADA towers (42)	344,826	216,151	26,123	102,552	2,625	2,239	386	

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	1,370	424	252	694	294	234	60	
Campbell River	1,871	883	194	794	50	50	0	
Castlegar	511	341	26	144	16	16	0	
Charlottetown	835	604	149	82	11	7	4	
Churchill	835	757	61	17	2	2	0	
Cranbrook	773	634	87	52	22	22	0	
Deer Lake	1,256	1,159	71	26	0	0	0	
Fort Nelson	1,830	1,650	90	90	0	0	0	
Fort St. John	1,833	1,335	204	294	4	4	0	
Grande Prairie	3,705	1,943	328	1,434	0	0	0	
High Level	760	706	26	28	0	0	0	
Îles-de-la-Madeleine	362	313	49	0	2	2	0	
Inuvik/Mike Zubko	1,276	1,216	26	34	6	6	0	
Iqaluit	1,311	1,205	72	34	14	14	0	
Kamloops	1,603	1,090	229	284	15	15	0	
Kenora	896	661	38	197	150	58	92	
Kingston	2,663	1,066	451	1,146	42	42	0	
Kuujuuaq	1,205	989	48	168	0	0	0	
La Grande Rivière	636	595	37	4	0	0	0	
La Ronge	1,257	1,106	65	86	0	0	0	
Lethbridge	1,465	685	297	483	48	20	28	
Lloydminster	806	414	178	214	26	18	8	
Medicine Hat	1,465	799	196	470	14	14	0	
Mont-Joli	715	660	55	0	6	0	6	
Montréal/Mirabel International	3,141	1,316	564	1,261	53	39	14	
Nanaimo	2,070	931	633	506	35	33	2	
Norman Wells	1,994	737	15	1,242	6	6	0	
North Bay	4,483	1,106	217	3,160	56	56	0	
Ottawa/Gatineau	3,597	658	593	2,346	8	8	0	
Peace River	573	525	24	24	2	2	0	
Penticton	1,620	652	140	828	75	75	0	
Port Hardy	545	433	86	26	30	30	0	
Prince Albert	1,556	1,375	174	7	8	8	0	
Prince Rupert	302	268	24	10	0	0	0	
Rankin Inlet	970	960	8	2	2	2	0	
Red Deer Regional	4,015	994	481	2,540	5	5	0	
Rouyn-Noranda	1,081	912	145	24	0	0	0	
Saint John	1,606	834	328	444	2	2	0	
Sept-Îles	2,342	2,123	123	96	0	0	0	
Sioux Lookout	2,414	2,297	56	61	6	4	2	
Smithers	437	405	22	10	4	4	0	
St. Catharines	3,212	784	616	1,812	2	2	0	
Sudbury	2,601	2,092	274	235	22	18	4	
Terrace	1,054	977	29	48	0	0	0	
Thompson	2,651	2,473	144	34	0	0	0	
Timmins	1,944	1,681	149	114	2	2	0	
Val-d'Or	1,243	903	120	220	8	6	2	
Victoria Harbour	2,297	2,156	131	10	16	10	6	
Wabush	1,642	1,469	117	56	0	0	0	
Whitecourt	1,765	637	52	1,076	2	2	0	
Williams Lake	561	483	58	20	0	0	0	
Total of all flight service stations (51)	82,955	51,416	8,552	22,987	1,066	838	228	

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Abbotsford	2,662	457	1,546	79	488	74	18
Boundary Bay	3,692	11	737	2,047	856	39	2
Calgary International	18,990	16,267	839	422	1,290	140	32
Calgary/Springbank	3,732	24	662	1,932	1,094	16	4
Chicoutimi/St-Honoré	1,560	367	75	963	153	2	0
Edmonton City Centre	3,964	1,171	576	1,056	552	601	8
Edmonton International	10,827	9,890	242	47	620	11	17
Edmonton/Villeneuve	625	0	37	368	218	2	0
Fort McMurray	3,544	1,631	1,300	37	525	46	5
Fredericton International	2,623	601	1,615	204	136	60	7
Gander International	1,852	1,229	88	17	251	26	241
Halifax/Robert L. Stanfield International	6,424	5,526	404	4	261	66	163
Hamilton	1,977	1,502	126	9	244	88	8
Kelowna	3,484	2,527	394	178	272	77	36
Kitchener/Waterloo	3,350	406	2,153	32	745	10	4
Langley	2,110	4	55	1,143	890	11	7
London	3,362	1,047	495	1,239	498	63	20
Moncton/Greater Moncton International	3,941	1,655	1,980	12	116	168	10
Montréal/Pierre Elliott Trudeau International	18,519	16,156	1,020	37	1,125	165	16
Montréal/St-Hubert	6,242	2,526	912	1,710	910	60	124
Oshawa	2,136	33	74	1,385	557	83	4
Ottawa/Macdonald-Cartier International	11,310	7,848	316	2,381	282	277	206
Pitt Meadows	2,456	11	1,165	289	959	32	0
Prince George	1,855	1,179	379	39	164	90	4
Québec/Jean Lesage International	7,372	4,037	1,970	188	859	251	67
Regina International	3,226	2,111	625	31	264	153	42
Saskatoon/John G. Diefenbaker International	4,990	3,219	787	216	424	273	71
Sault Ste. Marie	1,998	1,038	62	813	61	15	9
St. John's International	3,561	2,567	359	7	174	248	206
St-Jean	703	0	122	78	288	0	215
Thunder Bay	5,667	3,316	251	1,728	216	110	46
Toronto/Billy Bishop Toronto City	7,078	5,004	565	1,003	471	26	9
Toronto/Buttonville Municipal	5,157	186	2,452	64	2,365	86	4
Toronto/Lester B. Pearson International	33,261	31,371	668	30	1,163	20	9
Vancouver Harbour	3,512	3,175	298	4	27	0	8
Vancouver International	22,322	20,045	1,316	90	539	304	28
Victoria International	6,325	3,003	1,982	301	826	51	162
Whitehorse International	1,031	619	303	0	67	40	2
Windsor	1,208	550	384	4	252	13	5
Winnipeg/James Armstrong Richardson International	9,843	8,348	323	62	236	522	352
Winnipeg/St. Andrews	2,749	589	1,438	470	251	0	1
Yellowknife	3,273	2,758	325	8	52	63	67
Total of NAV CANADA towers (42)	244,513	164,004	31,420	20,727	21,741	4,382	2,239

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	910	115	288	21	224	28	234
Campbell River	1,127	609	143	131	177	17	50
Castlegar	383	213	14	114	18	8	16
Charlottetown	760	577	21	6	127	22	7
Churchill	820	674	51	32	51	10	2
Cranbrook	743	593	35	6	75	12	22
Deer Lake	1,230	1,100	59	0	14	57	0
Fort Nelson	1,740	527	1,123	0	82	8	0
Fort St. John	1,543	874	458	3	190	14	4
Grande Prairie	2,271	1,171	690	82	288	40	0
High Level	732	308	397	1	18	8	0
Îles-de-la-Madeleine	364	288	21	4	4	45	2
Inuvik/Mike Zubko	1,248	966	249	1	6	20	6
Iqaluit	1,291	1,149	46	10	36	36	14
Kamloops	1,334	883	178	29	166	63	15
Kenora	757	550	101	10	32	6	58
Kingston	1,559	493	274	299	433	18	42
Kuujuuaq	1,037	849	136	4	17	31	0
La Grande Rivière	632	491	104	0	21	16	0
La Ronge	1,171	1,093	13	0	12	53	0
Lethbridge	1,002	390	33	262	274	23	20
Lloydminster	610	218	182	14	163	15	18
Medicine Hat	1,009	539	188	72	179	17	14
Mont-Joli	715	491	158	11	45	10	0
Montréal/Mirabel International	1,919	831	378	107	560	4	39
Nanaimo	1,597	363	495	73	582	51	33
Norman Wells	758	549	188	0	1	14	6
North Bay	1,379	589	322	195	182	35	56
Ottawa/Gatineau	1,259	120	357	181	551	42	8
Peace River	551	400	102	23	14	10	2
Penticton	867	300	340	12	110	30	75
Port Hardy	549	403	28	2	29	57	30
Prince Albert	1,557	1,347	26	2	89	85	8
Prince Rupert	292	260	6	2	0	24	0
Rankin Inlet	970	735	223	2	4	4	2
Red Deer Regional	1,480	192	691	111	453	28	5
Rouyn-Noranda	1,057	716	174	22	125	20	0
Saint John	1,164	679	107	48	316	12	2
Sept-Îles	2,246	1,365	749	9	63	60	0
Sioux Lookout	2,357	2,024	186	87	26	30	4
Smithers	431	343	62	0	9	13	4
St. Catharines	1,402	10	712	62	610	6	2
Sudbury	2,384	1,743	322	27	214	60	18
Terrace	1,006	610	363	4	14	15	0
Thompson	2,617	2,057	411	5	20	124	0
Timmins	1,832	1,612	59	10	101	48	2
Val-d'Or	1,029	783	114	6	92	28	6
Victoria Harbour	2,297	2,139	14	3	14	117	10
Wabush	1,586	1,121	322	26	94	23	0
Whitecourt	691	31	442	164	48	4	2
Williams Lake	541	408	63	12	52	6	0
Total of all flight service stations (51)	60,806	36,891	12,218	2,307	7,025	1,527	838

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	2,662	649	24.3	2,013	75.6	1,183
Boundary Bay	3,692	180	4.8	3,512	95.1	522
Calgary International	18,990	18,113	95.3	877	4.6	474
Calgary/Springbank	3,732	266	7.1	3,466	92.8	80
Chicoutimi/St-Honoré	1,560	327	20.9	1,233	79.0	61
Edmonton City Centre	3,964	1,885	47.5	2,079	52.4	1,261
Edmonton International	10,827	10,492	96.9	335	3.0	550
Edmonton/Villeneuve	625	42	6.7	583	93.2	120
Fort McMurray	3,544	2,118	59.7	1,426	40.2	116
Fredericton International	2,623	747	28.4	1,876	71.5	104
Gander International	1,852	1,151	62.1	701	37.8	140
Halifax/Robert L. Stanfield International	6,424	6,096	94.8	328	5.1	259
Hamilton	1,977	1,693	85.6	284	14.3	750
Kelowna	3,484	2,493	71.5	991	28.4	353
Kitchener/Waterloo	3,350	641	19.1	2,709	80.8	464
Langley	2,110	33	1.5	2,077	98.4	449
London	3,362	1,250	37.1	2,112	62.8	391
Moncton/Greater Moncton International	3,941	1,937	49.1	2,004	50.8	126
Montréal/Pierre Elliott Trudeau International	18,519	17,951	96.9	568	3.0	1,008
Montréal/St-Hubert	6,242	1,934	30.9	4,308	69.0	733
Oshawa	2,136	124	5.8	2,012	94.1	568
Ottawa/Macdonald-Cartier International	11,310	8,537	75.4	2,773	24.5	525
Pitt Meadows	2,456	44	1.7	2,412	98.2	1,506
Prince George	1,855	1,288	69.4	567	30.5	278
Québec/Jean Lesage International	7,372	5,104	69.2	2,268	30.7	500
Regina International	3,226	2,436	75.5	790	24.4	85
Saskatoon/John G. Diefenbaker International	4,990	3,763	75.4	1,227	24.5	123
Sault Ste. Marie	1,998	1,105	55.3	893	44.6	89
St. John's International	3,561	3,097	86.9	464	13.0	141
St-Jean	703	5	0.7	698	99.2	303
Thunder Bay	5,667	3,513	61.9	2,154	38.0	74
Toronto/Billy Bishop Toronto City	7,078	5,322	75.1	1,756	24.8	1,466
Toronto/Buttonville Municipal	5,157	686	13.3	4,471	86.6	1,104
Toronto/Lester B. Pearson International	33,261	33,214	99.8	47	0.1	192
Vancouver Harbour	3,512	72	2.0	3,440	97.9	1,241
Vancouver International	22,322	19,284	86.3	3,038	13.6	7,029
Victoria International	6,325	3,422	54.1	2,903	45.8	2,871
Whitehorse International	1,031	519	50.3	512	49.6	77
Windsor	1,208	623	51.5	585	48.4	76
Winnipeg/James Armstrong Richardson International	9,843	8,929	90.7	914	9.2	271
Winnipeg/St. Andrews	2,749	94	3.4	2,655	96.5	73
Yellowknife	3,273	2,197	67.1	1,076	32.8	147
Total of NAV CANADA towers (42)	244,513	173,376	70.9	71,137	29.1	27,883

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	910	257	28.2	653	71.7	11
Campbell River	1,127	519	46.0	608	53.9	184
Castlegar	383	225	58.7	158	41.2	48
Charlottetown	760	659	86.7	101	13.2	44
Churchill	820	731	89.1	89	10.8	542
Cranbrook	743	632	85.0	111	14.9	158
Deer Lake	1,230	1,159	94.2	71	5.7	24
Fort Nelson	1,740	575	33.0	1,165	66.9	61
Fort St. John	1,543	946	61.3	597	38.6	61
Grande Prairie	2,271	1,385	60.9	886	39.0	84
High Level	732	223	30.4	509	69.5	127
Îles-de-la-Madeleine	364	363	99.7	1	0.2	2
Inuvik/Mike Zubko	1,248	351	28.1	897	71.8	18
Iqaluit	1,291	1,183	91.6	108	8.3	5
Kamloops	1,334	1,002	75.1	332	24.8	284
Kenora	757	489	64.5	268	35.4	104
Kingston	1,559	623	39.9	936	60.0	128
Kuujuuaq	1,037	390	37.6	647	62.3	26
La Grande Rivière	632	570	90.1	62	9.8	143
La Ronge	1,171	762	65.0	409	34.9	171
Lethbridge	1,002	522	52.0	480	47.9	19
Lloydminster	610	242	39.6	368	60.3	16
Medicine Hat	1,009	489	48.4	520	51.5	122
Mont-Joli	715	676	94.5	39	5.4	5
Montréal/Mirabel International	1,919	1,092	56.9	827	43.0	667
Nanaimo	1,597	557	34.8	1,040	65.1	387
Norman Wells	758	188	24.8	570	75.1	549
North Bay	1,379	707	51.2	672	48.7	326
Ottawa/Gatineau	1,259	213	16.9	1,046	83.0	238
Peace River	551	381	69.1	170	30.8	5
Penticton	867	263	30.3	604	69.6	70
Port Hardy	549	246	44.8	303	55.1	204
Prince Albert	1,557	1,451	93.1	106	6.8	24
Prince Rupert	292	232	79.4	60	20.5	2
Rankin Inlet	970	741	76.3	229	23.6	1
Red Deer Regional	1,480	332	22.4	1,148	77.5	228
Rouyn-Noranda	1,057	966	91.3	91	8.6	28
Saint John	1,164	911	78.2	253	21.7	30
Sept-Îles	2,246	1,804	80.3	442	19.6	284
Sioux Lookout	2,357	1,910	81.0	447	18.9	143
Smithers	431	350	81.2	81	18.7	225
St. Catharines	1,402	77	5.4	1,325	94.5	290
Sudbury	2,384	1,896	79.5	488	20.4	64
Terrace	1,006	625	62.1	381	37.8	125
Thompson	2,617	1,915	73.1	702	26.8	18
Timmins	1,832	1,665	90.8	167	9.1	59
Val-d'Or	1,029	882	85.7	147	14.2	106
Victoria Harbour	2,297	110	4.7	2,187	95.2	579
Wabush	1,586	1,341	84.5	245	15.4	44
Whitecourt	691	54	7.8	637	92.1	85
Williams Lake	541	423	78.1	118	21.8	69
Total of all flight service stations (51)	60,806	36,305	59.7	24,501	40.3	7,237

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	2,662	448	129	1,409	675	1
Boundary Bay	3,692	3	78	3,441	170	0
Calgary International	18,990	12,587	5,382	266	755	0
Calgary/Springbank	3,732	53	84	2,843	751	1
Chicoutimi/St-Honoré	1,560	2	135	1,082	341	0
Edmonton City Centre	3,964	336	1,557	1,279	792	0
Edmonton International	10,827	6,622	3,901	291	13	0
Edmonton/Villeneuve	625	10	16	540	59	0
Fort McMurray	3,544	1,117	1,382	501	544	0
Fredericton International	2,623	53	705	1,754	111	0
Gander International	1,852	525	534	647	146	0
Halifax/Robert L. Stanfield International	6,424	3,294	2,691	180	259	0
Hamilton	1,977	1,057	653	155	112	0
Kelowna	3,484	1,073	1,463	604	344	0
Kitchener/Waterloo	3,350	168	391	2,560	231	0
Langley	2,110	0	4	1,811	295	0
London	3,362	310	956	1,970	126	0
Moncton/Greater Moncton International	3,941	1,058	755	2,064	64	0
Montréal/Pierre Elliott Trudeau International	18,519	11,376	6,531	376	236	0
Montréal/St-Hubert	6,242	216	1,136	4,649	241	0
Oshawa	2,136	16	33	1,999	88	0
Ottawa/Macdonald-Cartier International	11,310	5,423	3,107	2,544	236	0
Pitt Meadows	2,456	0	13	2,188	255	0
Prince George	1,855	462	877	154	362	0
Québec/Jean Lesage International	7,372	1,053	3,897	1,756	666	0
Regina International	3,226	1,608	706	865	47	0
Saskatoon/John G. Diefenbaker International	4,990	1,803	1,870	1,271	46	0
Sault Ste. Marie	1,998	17	1,075	867	39	0
St. John's International	3,561	1,230	1,809	67	455	0
St-Jean	703	0	1	585	26	91
Thunder Bay	5,667	405	3,096	1,907	259	0
Toronto/Billy Bishop Toronto City	7,078	4	5,249	1,606	219	0
Toronto/Buttonville Municipal	5,157	74	288	4,530	265	0
Toronto/Lester B. Pearson International	33,261	27,145	6,058	40	18	0
Vancouver Harbour	3,512	0	1,994	851	667	0
Vancouver International	22,322	11,098	8,620	1,884	720	0
Victoria International	6,325	1,093	2,168	2,665	399	0
Whitehorse International	1,031	288	351	146	246	0
Windsor	1,208	52	560	577	19	0
Winnipeg/James Armstrong Richardson International	9,843	4,926	4,158	539	220	0
Winnipeg/St. Andrews	2,749	0	606	2,012	131	0
Yellowknife	3,273	646	2,053	259	315	0
Total of NAV CANADA towers (42)	244,513	97,651	77,072	57,734	11,963	93

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	910	30	302	532	46	0
Campbell River	1,127	4	654	250	219	0
Castlegar	383	4	237	128	14	0
Charlottetown	760	273	348	130	9	0
Churchill	820	45	697	70	8	0
Cranbrook	743	20	582	110	31	0
Deer Lake	1,230	157	1,006	24	43	0
Fort Nelson	1,740	107	475	119	1,039	0
Fort St. John	1,543	300	666	184	393	0
Grande Prairie	2,271	284	965	477	545	0
High Level	732	5	412	195	120	0
Îles-de-la-Madeleine	364	15	330	19	0	0
Inuvik/Mike Zubko	1,248	95	745	159	249	0
Iqaluit	1,291	341	912	10	28	0
Kamloops	1,334	115	840	245	134	0
Kenora	757	4	554	111	88	0
Kingston	1,559	67	544	849	99	0
Kuujuuaq	1,037	141	767	19	110	0
La Grande Rivière	632	82	533	13	4	0
La Ronge	1,171	0	1,012	141	18	0
Lethbridge	1,002	57	435	481	29	0
Lloydminster	610	23	251	292	44	0
Medicine Hat	1,009	34	569	354	52	0
Mont-Joli	715	10	632	67	6	0
Montréal/Mirabel International	1,919	634	327	560	397	1
Nanaimo	1,597	34	385	1,068	110	0
Norman Wells	758	167	291	118	182	0
North Bay	1,379	28	684	228	438	1
Ottawa/Gatineau	1,259	4	150	910	195	0
Peace River	551	16	362	75	98	0
Penticton	867	12	306	127	422	0
Port Hardy	549	12	358	80	99	0
Prince Albert	1,557	10	1,409	120	18	0
Prince Rupert	292	16	222	3	51	0
Rankin Inlet	970	158	589	0	223	0
Red Deer Regional	1,480	55	258	923	244	0
Rouyn-Noranda	1,057	75	893	79	10	0
Saint John	1,164	264	625	210	65	0
Sept-Îles	2,246	26	1,640	265	315	0
Sioux Lookout	2,357	2	1,996	354	5	0
Smithers	431	6	356	14	55	0
St. Catharines	1,402	5	23	1,002	286	86
Sudbury	2,384	44	1,790	236	314	0
Terrace	1,006	22	615	8	361	0
Thompson	2,617	14	2,142	261	200	0
Timmins	1,832	6	1,698	85	43	0
Val-d'Or	1,029	83	804	93	49	0
Victoria Harbour	2,297	0	1,442	55	800	0
Wabush	1,586	20	1,266	89	211	0
Whitecourt	691	8	55	48	580	0
Williams Lake	541	14	414	51	62	0
Total of all flight service stations (51)	60,806	3,948	35,568	12,041	9,161	88

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

	Maximum take-off weight in kilograms									
	2,000	2,001	4,001	5,671	9,001	18,001	35,001	70,001	90,001	136,001
	and under	to 4,000	to 5,670	to 9,000	to 18,000	to 35,000	to 70,000	to 90,000	to 136,000	and over
	number									
Abbotsford	1,776	279	112	32	4	28	416	15	0	0
Boundary Bay	3,423	245	18	2	4	0	0	0	0	0
Calgary International	654	478	1,542	1,908	963	4,267	7,812	569	197	600
Calgary/Springbank	3,287	300	102	43	0	0	0	0	0	0
Chicoutimi/St-Honoré	1,166	262	130	2	0	0	0	0	0	0
Edmonton City Centre	1,734	376	1,393	309	113	37	2	0	0	0
Edmonton International	211	167	683	1,054	540	2,685	4,995	226	164	102
Edmonton/Villeneuve	547	55	15	8	0	0	0	0	0	0
Fort McMurray	945	505	478	348	51	827	390	0	0	0
Fredericton International	1,804	137	151	208	97	221	5	0	0	0
Gander International	605	19	30	442	280	264	35	122	17	38
Halifax/Robert L. Stanfield International	131	242	331	1,102	845	1,513	1,835	177	171	77
Hamilton	152	407	134	298	148	30	197	7	466	138
Kelowna	830	117	228	517	40	884	858	3	7	0
Kitchener/Waterloo	2,715	80	386	57	30	30	52	0	0	0
Langley	1,977	107	11	1	14	0	0	0	0	0
London	1,853	306	143	142	411	378	121	2	6	0
Moncton/Greater Moncton International	2,109	102	131	445	52	641	195	8	258	0
Montréal/Pierre Elliott Trudeau International	482	123	860	730	2,997	6,245	4,763	1,244	0	1,075
Montréal/St-Hubert	4,132	678	872	385	155	10	4	6	0	0
Oshawa	1,972	107	40	17	0	0	0	0	0	0
Ottawa/Macdonald-Cartier International	2,548	155	972	296	597	3,358	2,805	285	50	244
Pitt Meadows	2,293	139	24	0	0	0	0	0	0	0
Prince George	349	160	186	552	11	399	198	0	0	0
Québec/Jean Lesage International	2,040	393	975	627	1,320	1,722	216	18	0	61
Regina International	706	202	334	339	77	845	638	0	85	0
Saskatoon/John G. Diefenbaker International	1,006	343	747	718	249	1,053	828	4	42	0
Sault Ste. Marie	885	98	423	60	266	264	0	2	0	0
St. John's International	62	60	303	684	798	613	788	152	93	8
St-Jean	695	7	1	0	0	0	0	0	0	0
Thunder Bay	1,935	246	2,085	221	133	857	186	4	0	0
Toronto/Billy Bishop Toronto City	1,571	139	345	205	15	4,801	0	2	0	0
Toronto/Buttonville Municipal	4,423	459	175	73	18	9	0	0	0	0
Toronto/Lester B. Pearson International	15	181	417	1,900	3,459	7,724	13,134	3,337	309	2,785
Vancouver Harbour	56	2,621	827	0	8	0	0	0	0	0
Vancouver International	489	2,791	804	2,518	1,709	4,846	5,964	974	392	1,835
Victoria International	2,284	891	144	441	834	1,139	518	32	34	8
Whitehorse International	344	86	154	69	8	226	144	0	0	0
Windsor	540	104	37	84	299	142	2	0	0	0
Winnipeg/James Armstrong Richardson International	428	433	2,709	321	1,020	1,804	2,149	239	672	68
Winnipeg/St. Andrews	1,925	741	81	0	0	2	0	0	0	0
Yellowknife	329	350	817	197	187	772	545	76	0	0
Total of NAV CANADA towers (42)	57,428	15,691	20,350	17,355	17,752	48,636	49,795	7,504	2,963	7,039

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

	Maximum 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	481	79	248	18	42	2	0	40	0	0
Campbell River	427	24	45	437	160	34	0	0	0	0
Castlegar	136	4	26	66	46	105	0	0	0	0
Charlottetown	91	128	39	176	55	172	94	5	0	0
Churchill	25	64	90	8	123	484	26	0	0	0
Cranbrook	98	39	72	285	74	175	0	0	0	0
Deer Lake	55	8	56	387	491	151	82	0	0	0
Fort Nelson	635	79	529	229	129	84	55	0	0	0
Fort St. John	501	69	166	358	156	277	16	0	0	0
Grande Prairie	702	324	397	218	40	395	195	0	0	0
High Level	273	187	161	107	4	0	0	0	0	0
Îles-de-la-Madeleine	5	14	114	66	149	14	2	0	0	0
Inuvik/Mike Zubko	343	133	621	2	0	52	95	2	0	0
Iqaluit	12	11	344	75	212	342	211	14	18	52
Kamloops	256	88	91	257	129	441	72	0	0	0
Kenora	107	22	572	7	24	1	0	24	0	0
Kingston	833	74	145	367	90	42	0	8	0	0
Kuujuuaq	114	11	615	4	107	70	94	0	2	20
La Grande Rivière	8	9	123	10	81	327	74	0	0	0
La Ronge	23	136	571	107	230	104	0	0	0	0
Lethbridge	392	108	160	278	44	12	2	6	0	0
Lloydminster	295	39	121	151	4	0	0	0	0	0
Medicine Hat	368	34	297	291	6	6	7	0	0	0
Mont-Joli	37	36	219	257	115	51	0	0	0	0
Montréal/Mirabel International	736	258	70	104	48	140	87	15	265	196
Nanaimo	733	435	16	29	42	338	4	0	0	0
Norman Wells	149	144	266	0	2	30	167	0	0	0
North Bay	633	144	255	51	214	42	10	30	0	0
Ottawa/Gatineau	1,004	90	56	104	2	1	0	2	0	0
Peace River	125	54	318	42	8	2	0	2	0	0
Penticton	471	73	26	116	16	165	0	0	0	0
Port Hardy	35	117	161	67	150	13	6	0	0	0
Prince Albert	75	60	281	373	322	446	0	0	0	0
Prince Rupert	4	13	67	34	42	132	0	0	0	0
Rankin Inlet	121	102	84	12	201	330	118	2	0	0
Red Deer Regional	1,000	127	212	104	33	4	0	0	0	0
Rouyn-Noranda	85	7	444	9	295	158	59	0	0	0
Saint John	161	201	143	217	192	250	0	0	0	0
Sept-Îles	321	261	563	475	489	137	0	0	0	0
Sioux Lookout	124	273	1,187	655	112	2	2	2	0	0
Smithers	55	18	57	184	33	84	0	0	0	0
St. Catharines	1,299	73	21	5	3	1	0	0	0	0
Sudbury	326	262	1,030	238	254	260	6	8	0	0
Terrace	265	104	110	217	97	213	0	0	0	0
Thompson	210	250	1,350	20	222	565	0	0	0	0
Timmins	92	201	889	83	379	186	0	2	0	0
Val-d'Or	130	16	298	42	329	174	22	0	18	0
Victoria Harbour	22	1,354	911	0	10	0	0	0	0	0
Wabush	193	127	473	340	363	88	2	0	0	0
Whitecourt	628	4	41	16	2	0	0	0	0	0
Williams Lake	98	8	31	396	8	0	0	0	0	0
Total of all flight service stations (51)	15,312	6,496	15,182	8,094	6,379	7,102	1,508	162	303	268

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	2,610	444	1,536	79	459	74	18
Transborder	44	5	10	0	29	0	0
Other international	8	8	0	0	0	0	0
Total	2,662	457	1,546	79	488	74	18
Boundary Bay							
Domestic	3,635	11	736	2,015	833	39	1
Transborder	57	0	1	32	23	0	1
Other international	0	0	0	0	0	0	0
Total	3,692	11	737	2,047	856	39	2
Calgary International							
Domestic	15,242	12,911	739	413	1,009	140	30
Transborder	3,129	2,747	94	7	279	0	2
Other international	619	609	6	2	2	0	0
Total	18,990	16,267	839	422	1,290	140	32
Calgary/Springbank							
Domestic	3,676	23	651	1,926	1,056	16	4
Transborder	56	1	11	6	38	0	0
Other international	0	0	0	0	0	0	0
Total	3,732	24	662	1,932	1,094	16	4
Chicoutimi/St-Honoré							
Domestic	1,558	367	75	963	151	2	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,560	367	75	963	153	2	0
Edmonton City Centre							
Domestic	3,923	1,162	566	1,048	538	601	8
Transborder	41	9	10	8	14	0	0
Other international	0	0	0	0	0	0	0
Total	3,964	1,171	576	1,056	552	601	8
Edmonton International							
Domestic	9,237	8,385	229	35	566	11	11
Transborder	1,388	1,308	13	11	51	0	5
Other international	202	197	0	1	3	0	1
Total	10,827	9,890	242	47	620	11	17
Edmonton/Villeneuve							
Domestic	625	0	37	368	218	2	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	625	0	37	368	218	2	0
Fort McMurray							
Domestic	3,538	1,631	1,300	37	519	46	5
Transborder	6	0	0	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	3,544	1,631	1,300	37	525	46	5
Fredericton International							
Domestic	2,612	597	1,612	204	133	59	7
Transborder	10	4	2	0	3	1	0
Other international	1	0	1	0	0	0	0
Total	2,623	601	1,615	204	136	60	7
Gander International							
Domestic	1,345	1,105	86	2	44	22	86
Transborder	238	54	0	7	99	3	75
Other international	269	70	2	8	108	1	80
Total	1,852	1,229	88	17	251	26	241

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	5,449	4,677	398	2	193	66	113
Transborder	807	712	6	0	59	0	30
Other international	168	137	0	2	9	0	20
Total	6,424	5,526	404	4	261	66	163
Hamilton							
Domestic	1,451	1,101	101	9	146	86	8
Transborder	483	368	18	0	95	2	0
Other international	43	33	7	0	3	0	0
Total	1,977	1,502	126	9	244	88	8
Kelowna							
Domestic	3,201	2,287	385	178	238	77	36
Transborder	252	211	7	0	34	0	0
Other international	31	29	2	0	0	0	0
Total	3,484	2,527	394	178	272	77	36
Kitchener/Waterloo							
Domestic	3,204	380	2,120	30	660	10	4
Transborder	144	26	33	2	83	0	0
Other international	2	0	0	0	2	0	0
Total	3,350	406	2,153	32	745	10	4
Langley							
Domestic	2,108	4	55	1,143	888	11	7
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,110	4	55	1,143	890	11	7
London							
Domestic	3,132	896	476	1,239	443	63	15
Transborder	217	141	19	0	52	0	5
Other international	13	10	0	0	3	0	0
Total	3,362	1,047	495	1,239	498	63	20
Moncton/Greater Moncton International							
Domestic	3,868	1,591	1,980	12	107	168	10
Transborder	71	62	0	0	9	0	0
Other international	2	2	0	0	0	0	0
Total	3,941	1,655	1,980	12	116	168	10
Montréal/Pierre Elliott Trudeau International							
Domestic	11,177	9,468	803	24	704	165	13
Transborder	5,699	5,107	184	10	398	0	0
Other international	1,643	1,581	33	3	23	0	3
Total	18,519	16,156	1,020	37	1,125	165	16
Montréal/St-Hubert							
Domestic	6,095	2,510	904	1,709	791	59	122
Transborder	144	16	8	1	116	1	2
Other international	3	0	0	0	3	0	0
Total	6,242	2,526	912	1,710	910	60	124
Oshawa							
Domestic	2,104	28	73	1,385	531	83	4
Transborder	29	4	0	0	25	0	0
Other international	3	1	1	0	1	0	0
Total	2,136	33	74	1,385	557	83	4
Ottawa/Macdonald-Cartier International							
Domestic	9,216	5,889	298	2,364	215	268	182
Transborder	1,893	1,771	17	16	66	9	14
Other international	201	188	1	1	1	0	10
Total	11,310	7,848	316	2,381	282	277	206

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	2,448	10	1,165	289	952	32	0
Transborder	8	1	0	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	2,456	11	1,165	289	959	32	0
Prince George							
Domestic	1,828	1,153	379	39	163	90	4
Transborder	19	18	0	0	1	0	0
Other international	8	8	0	0	0	0	0
Total	1,855	1,179	379	39	164	90	4
Québec/Jean Lesage International							
Domestic	6,650	3,356	1,957	188	839	247	63
Transborder	605	569	12	0	19	4	1
Other international	117	112	1	0	1	0	3
Total	7,372	4,037	1,970	188	859	251	67
Regina International							
Domestic	2,801	1,743	613	31	224	152	38
Transborder	373	316	12	0	40	1	4
Other international	52	52	0	0	0	0	0
Total	3,226	2,111	625	31	264	153	42
Saskatoon/John G. Diefenbaker International							
Domestic	4,624	2,913	768	216	383	273	71
Transborder	327	269	17	0	41	0	0
Other international	39	37	2	0	0	0	0
Total	4,990	3,219	787	216	424	273	71
Sault Ste. Marie							
Domestic	1,989	1,038	58	813	56	15	9
Transborder	9	0	4	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	1,998	1,038	62	813	61	15	9
St. John's International							
Domestic	3,177	2,421	353	4	84	244	71
Transborder	195	76	1	1	53	0	64
Other international	189	70	5	2	37	4	71
Total	3,561	2,567	359	7	174	248	206
St-Jean							
Domestic	703	0	122	78	288	0	215
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	703	0	122	78	288	0	215
Thunder Bay							
Domestic	5,633	3,296	250	1,727	204	110	46
Transborder	26	12	1	1	12	0	0
Other international	8	8	0	0	0	0	0
Total	5,667	3,316	251	1,728	216	110	46
Toronto/Billy Bishop Toronto City							
Domestic	5,715	3,759	555	994	372	26	9
Transborder	1,363	1,245	10	9	99	0	0
Other international	0	0	0	0	0	0	0
Total	7,078	5,004	565	1,003	471	26	9
Toronto/Buttonville Municipal							
Domestic	4,962	164	2,425	62	2,222	85	4
Transborder	193	22	27	2	141	1	0
Other international	2	0	0	0	2	0	0
Total	5,157	186	2,452	64	2,365	86	4

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	14,221	13,435	345	15	400	20	6
Transborder	14,702	13,696	273	12	720	0	1
Other international	4,338	4,240	50	3	43	0	2
Total	33,261	31,371	668	30	1,163	20	9
Vancouver Harbour							
Domestic	3,506	3,169	298	4	27	0	8
Transborder	6	6	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	3,512	3,175	298	4	27	0	8
Vancouver International							
Domestic	16,779	14,788	1,274	62	330	304	21
Transborder	4,170	3,899	34	27	208	0	2
Other international	1,373	1,358	8	1	1	0	5
Total	22,322	20,045	1,316	90	539	304	28
Victoria International							
Domestic	5,731	2,501	1,964	301	753	51	161
Transborder	570	478	18	0	73	0	1
Other international	24	24	0	0	0	0	0
Total	6,325	3,003	1,982	301	826	51	162
Whitehorse International							
Domestic	1,017	613	302	0	60	40	2
Transborder	13	6	0	0	7	0	0
Other international	1	0	1	0	0	0	0
Total	1,031	619	303	0	67	40	2
Windsor							
Domestic	1,136	536	367	4	213	13	3
Transborder	68	13	17	0	36	0	2
Other international	4	1	0	0	3	0	0
Total	1,208	550	384	4	252	13	5
Winnipeg/James Armstrong Richardson International							
Domestic	8,617	7,234	310	47	163	522	341
Transborder	1,130	1,023	12	15	70	0	10
Other international	96	91	1	0	3	0	1
Total	9,843	8,348	323	62	236	522	352
Winnipeg/St. Andrews							
Domestic	2,745	587	1,437	470	250	0	1
Transborder	4	2	1	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,749	589	1,438	470	251	0	1
Yellowknife							
Domestic	3,270	2,757	325	8	50	63	67
Transborder	3	1	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	3,273	2,758	325	8	52	63	67
Total of NAV CANADA towers (42)							
Domestic	196,558	120,940	30,427	20,537	18,475	4,355	1,824
Transborder	38,496	34,198	872	167	3,018	22	219
Other international	9,459	8,866	121	23	248	5	196
Total	244,513	164,004	31,420	20,727	21,741	4,382	2,239

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	892	114	288	21	209	28	232
Transborder	18	1	0	0	15	0	2
Other international	0	0	0	0	0	0	0
Total	910	115	288	21	224	28	234
Campbell River							
Domestic	1,122	609	143	131	172	17	50
Transborder	5	0	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	1,127	609	143	131	177	17	50
Castlegar							
Domestic	383	213	14	114	18	8	16
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	383	213	14	114	18	8	16
Charlottetown							
Domestic	753	575	21	6	122	22	7
Transborder	5	0	0	0	5	0	0
Other international	2	2	0	0	0	0	0
Total	760	577	21	6	127	22	7
Churchill							
Domestic	815	674	51	32	46	10	2
Transborder	5	0	0	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	820	674	51	32	51	10	2
Cranbrook							
Domestic	732	592	35	6	65	12	22
Transborder	11	1	0	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	743	593	35	6	75	12	22
Deer Lake							
Domestic	1,230	1,100	59	0	14	57	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,230	1,100	59	0	14	57	0
Fort Nelson							
Domestic	1,740	527	1,123	0	82	8	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,740	527	1,123	0	82	8	0
Fort St. John							
Domestic	1,542	874	458	3	189	14	4
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,543	874	458	3	190	14	4
Grande Prairie							
Domestic	2,269	1,171	690	82	286	40	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,271	1,171	690	82	288	40	0
High Level							
Domestic	732	308	397	1	18	8	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	732	308	397	1	18	8	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	362	286	21	4	4	45	2
Transborder	0	0	0	0	0	0	0
Other international	2	2	0	0	0	0	0
Total	364	288	21	4	4	45	2
Inuvik/Mike Zubko							
Domestic	1,248	966	249	1	6	20	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,248	966	249	1	6	20	6
Iqaluit							
Domestic	1,234	1,125	42	4	16	36	11
Transborder	12	7	0	1	4	0	0
Other international	45	17	4	5	16	0	3
Total	1,291	1,149	46	10	36	36	14
Kamloops							
Domestic	1,334	883	178	29	166	63	15
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,334	883	178	29	166	63	15
Kenora							
Domestic	757	550	101	10	32	6	58
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	757	550	101	10	32	6	58
Kingston							
Domestic	1,531	491	271	299	411	18	41
Transborder	28	2	3	0	22	0	1
Other international	0	0	0	0	0	0	0
Total	1,559	493	274	299	433	18	42
Kuujuuaq							
Domestic	1,037	849	136	4	17	31	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,037	849	136	4	17	31	0
La Grande Rivière							
Domestic	632	491	104	0	21	16	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	632	491	104	0	21	16	0
La Ronge							
Domestic	1,171	1,093	13	0	12	53	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,171	1,093	13	0	12	53	0
Lethbridge							
Domestic	951	389	33	260	228	23	18
Transborder	50	1	0	1	46	0	2
Other international	1	0	0	1	0	0	0
Total	1,002	390	33	262	274	23	20
Lloydminster							
Domestic	606	218	182	14	159	15	18
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	610	218	182	14	163	15	18

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Medicine Hat							
Domestic	1,002	537	187	71	176	17	14
Transborder	7	2	1	1	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,009	539	188	72	179	17	14
Mont-Joli							
Domestic	713	491	158	11	43	10	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	715	491	158	11	45	10	0
Montréal/Mirabel International							
Domestic	1,696	628	377	105	543	4	39
Transborder	214	195	1	1	17	0	0
Other international	9	8	0	1	0	0	0
Total	1,919	831	378	107	560	4	39
Nanaimo							
Domestic	1,579	363	493	72	567	51	33
Transborder	17	0	2	1	14	0	0
Other international	1	0	0	0	1	0	0
Total	1,597	363	495	73	582	51	33
Norman Wells							
Domestic	758	549	188	0	1	14	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	758	549	188	0	1	14	6
North Bay							
Domestic	1,372	588	322	195	176	35	56
Transborder	7	1	0	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	1,379	589	322	195	182	35	56
Ottawa/Gatineau							
Domestic	1,255	120	357	181	547	42	8
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	1,259	120	357	181	551	42	8
Peace River							
Domestic	551	400	102	23	14	10	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	551	400	102	23	14	10	2
Penticton							
Domestic	863	300	340	12	106	30	75
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	867	300	340	12	110	30	75
Port Hardy							
Domestic	543	403	28	2	25	57	28
Transborder	6	0	0	0	4	0	2
Other international	0	0	0	0	0	0	0
Total	549	403	28	2	29	57	30
Prince Albert							
Domestic	1,555	1,347	26	2	87	85	8
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,557	1,347	26	2	89	85	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	292	260	6	2	0	24	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	292	260	6	2	0	24	0
Rankin Inlet							
Domestic	969	735	223	2	4	4	1
Transborder	0	0	0	0	0	0	0
Other international	1	0	0	0	0	0	1
Total	970	735	223	2	4	4	2
Red Deer Regional							
Domestic	1,473	192	689	111	448	28	5
Transborder	7	0	2	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	1,480	192	691	111	453	28	5
Rouyn-Noranda							
Domestic	1,057	716	174	22	125	20	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,057	716	174	22	125	20	0
Saint John							
Domestic	1,099	679	102	48	256	12	2
Transborder	64	0	5	0	59	0	0
Other international	1	0	0	0	1	0	0
Total	1,164	679	107	48	316	12	2
Sept-Îles							
Domestic	2,239	1,362	749	7	61	60	0
Transborder	6	2	0	2	2	0	0
Other international	1	1	0	0	0	0	0
Total	2,246	1,365	749	9	63	60	0
Sioux Lookout							
Domestic	2,356	2,024	186	87	25	30	4
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,357	2,024	186	87	26	30	4
Smithers							
Domestic	431	343	62	0	9	13	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	431	343	62	0	9	13	4
St. Catharines							
Domestic	1,371	8	705	62	588	6	2
Transborder	30	2	7	0	21	0	0
Other international	1	0	0	0	1	0	0
Total	1,402	10	712	62	610	6	2
Sudbury							
Domestic	2,370	1,740	322	27	203	60	18
Transborder	14	3	0	0	11	0	0
Other international	0	0	0	0	0	0	0
Total	2,384	1,743	322	27	214	60	18
Terrace							
Domestic	1,006	610	363	4	14	15	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,006	610	363	4	14	15	0

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Thompson							
Domestic	2,617	2,057	411	5	20	124	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,617	2,057	411	5	20	124	0
Timmins							
Domestic	1,831	1,611	59	10	101	48	2
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,832	1,612	59	10	101	48	2
Val-d'Or							
Domestic	1,028	783	114	6	91	28	6
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,029	783	114	6	92	28	6
Victoria Harbour							
Domestic	2,127	1,969	14	3	14	117	10
Transborder	170	170	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,297	2,139	14	3	14	117	10
Wabush							
Domestic	1,586	1,121	322	26	94	23	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,586	1,121	322	26	94	23	0
Whitecourt							
Domestic	691	31	442	164	48	4	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	691	31	442	164	48	4	2
Williams Lake							
Domestic	541	408	63	12	52	6	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	541	408	63	12	52	6	0
Total of all flight service stations (51)							
Domestic	60,044	36,473	12,193	2,293	6,731	1,527	827
Transborder	698	388	21	7	275	0	7
Other international	64	30	4	7	19	0	4
Total	60,806	36,891	12,218	2,307	7,025	1,527	838

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	7,376	25	13	119	25	532
Boundary Bay	15	8,792	1	17	99	15	582
Calgary International	3	19,128	30	18	63	16	753
Calgary/Springbank	11	10,170	9	13	104	9	734
Chicoutimi/St-Honoré	24	5,566	16	13	124	16	411
Edmonton City Centre	29	4,438	10	17	40	2	230
Edmonton International	9	11,223	29	12	66	29	505
Edmonton/Villeneuve	35	3,701	3	11	68	5	285
Fort McMurray	33	3,914	1	10	26	29	194
Fredericton International	25	5,185	7	9	44	9	336
Gander International	38	2,804	9	10	36	9	221
Halifax/Robert L. Stanfield International	20	6,822	25	11	37	2	307
Hamilton	39	2,509	5	12	19	1	121
Kelowna	26	5,158	3	14	51	1	301
Kitchener/Waterloo	16	8,364	1	20	92	1	580
Langley	30	4,434	19	12	70	30	307
London	21	6,670	28	13	66	4	505
Moncton/Greater Moncton International	22	6,665	9	10	54	1	434
Montréal/Pierre Elliott Trudeau International	4	18,631	15	16	87	15	720
Montréal/St-Hubert	7	12,856	26	13	119	9	1,037
Oshawa	32	4,354	21	18	82	5	284
Ottawa/Macdonald-Cartier International	5	16,182	4	9	112	1	882
Pitt Meadows	23	6,608	4	16	109	6	512
Prince George	36	3,543	4	16	89	4	357
Québec/Jean Lesage International	13	10,112	26	15	75	8	568
Regina International	27	4,520	29	16	41	23	227
Saskatoon/John G. Diefenbaker International	19	7,052	29	13	53	29	394
Sault Ste. Marie	28	4,520	20	18	73	3	367
St. John's International	34	3,849	5	14	33	2	188
St-Jean	40	2,277	5	14	49	5	301
Thunder Bay	6	12,883	29	11	100	25	780
Toronto/Billy Bishop Toronto City	14	9,506	6	16	75	1	486
Toronto/Buttonville Municipal	8	12,425	19	9	119	2	785
Toronto/Lester B. Pearson International	1	33,357	11	18	99	3	1,213
Vancouver Harbour	37	3,512	10	15	27	4	173
Vancouver International	2	22,358	29	8	71	10	857
Victoria International	12	10,153	30	12	77	30	554
Whitehorse International	42	1,297	10	12	27	29	98
Windsor	41	1,778	5	13	28	5	131
Winnipeg/James Armstrong Richardson International	10	10,835	1	9	44	24	462
Winnipeg/St. Andrews	17	7,497	1	19	82	1	527
Yellowknife	31	4,427	13	11	48	13	232

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	21	1,664	14	14	60	21	165
Campbell River	16	1,921	14	14	43	15	190
Castlegar	48	527	5	9	31	5	54
Charlottetown	38	846	2	19	12	9	52
Churchill	39	837	13	16	11	1	45
Cranbrook	41	795	2	13	14	7	38
Deer Lake	31	1,256	2	10	21	2	67
Fort Nelson	18	1,830	16	14	33	1	124
Fort St. John	17	1,837	14	13	25	29	120
Grande Prairie	3	3,705	29	15	52	23	279
High Level	42	760	15	20	11	4	65
Îles-de-la-Madeleine	50	364	15	16	5	15	20
Inuvik/Mike Zubko	29	1,282	12	16	18	9	86
Iqaluit	28	1,325	25	8	14	25	69
Kamloops	23	1,618	3	12	32	21	100
Kenora	36	1,046	16	15	25	2	102
Kingston	7	2,705	5	16	62	5	269
Kuujuuaq	33	1,205	20	9	16	18	66
La Grande Rivière	44	636	3	11	9	15	34
La Ronge	30	1,257	23	11	16	23	83
Lethbridge	26	1,513	16	15	34	28	105
Lloydminster	40	832	10	14	20	4	65
Medicine Hat	27	1,479	28	10	22	7	106
Mont-Joli	43	721	1	17	8	3	38
Montréal/Mirabel International	6	3,194	11	13	45	1	212
Nanaimo	13	2,105	1	14	54	1	233
Norman Wells	14	2,000	16	15	25	16	102
North Bay	1	4,539	2	9	76	23	495
Ottawa/Gatineau	4	3,605	13	12	57	15	264
Peace River	45	575	9	10	14	9	47
Penticton	20	1,695	28	14	43	28	166
Port Hardy	46	575	1	14	24	1	48
Prince Albert	25	1,564	22	15	17	22	83
Prince Rupert	51	302	18	14	9	18	22
Rankin Inlet	37	972	5	12	15	11	70
Red Deer Regional	2	4,020	24	12	60	5	247
Rouyn-Noranda	34	1,081	8	19	12	8	61
Saint John	24	1,608	9	14	23	9	116
Sept-Îles	11	2,342	29	10	23	9	126
Sioux Lookout	10	2,420	12	14	24	21	122
Smithers	49	441	3	10	10	17	34
St. Catharines	5	3,214	23	19	68	5	361
Sudbury	9	2,623	3	16	35	3	188
Terrace	35	1,054	4	13	20	18	93
Thompson	8	2,651	10	8	14	10	133
Timmins	15	1,946	24	14	24	24	109
Val-d'Or	32	1,251	8	10	27	8	106
Victoria Harbour	12	2,313	30	14	20	3	120
Wabush	22	1,642	3	11	35	3	109
Whitecourt	19	1,767	18	10	46	18	188
Williams Lake	47	561	5	16	15	14	35

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	29	2,662	4	13	20	30	179
Boundary Bay	19	3,692	19	15	52	19	291
Calgary International	3	18,990	30	18	63	9	745
Calgary/Springbank	18	3,732	26	11	32	5	263
Chicoutimi/St-Honoré	38	1,560	8	10	20	1	116
Edmonton City Centre	16	3,964	2	15	23	2	184
Edmonton International	6	10,827	14	7	43	29	453
Edmonton/Villeneuve	42	625	6	15	14	6	60
Fort McMurray	21	3,544	2	8	22	2	182
Fredericton International	30	2,623	9	14	20	2	163
Gander International	37	1,852	13	13	12	9	105
Halifax/Robert L. Stanfield International	10	6,424	25	11	25	25	258
Hamilton	35	1,977	2	1	11	2	97
Kelowna	23	3,484	30	11	20	1	179
Kitchener/Waterloo	25	3,350	15	15	36	4	228
Langley	33	2,110	10	15	31	10	162
London	24	3,362	23	15	26	4	213
Moncton/Greater Moncton International	17	3,941	2	11	20	2	216
Montréal/Pierre Elliott Trudeau International	4	18,519	15	16	87	15	720
Montréal/St-Hubert	12	6,242	5	14	53	21	420
Oshawa	32	2,136	5	12	25	6	165
Ottawa/Macdonald-Cartier International	5	11,310	7	9	45	4	469
Pitt Meadows	31	2,456	19	15	43	19	226
Prince George	36	1,855	4	9	17	4	119
Québec/Jean Lesage International	8	7,372	26	15	37	1	358
Regina International	27	3,226	29	16	19	29	153
Saskatoon/John G. Diefenbaker International	15	4,990	9	15	29	29	236
Sault Ste. Marie	34	1,998	4	15	16	3	119
St. John's International	20	3,561	23	10	16	2	160
St-Jean	41	703	5	13	35	5	215
Thunder Bay	13	5,667	8	9	30	3	268
Toronto/Billy Bishop Toronto City	9	7,078	26	13	36	2	296
Toronto/Buttonville Municipal	14	5,157	4	11	39	4	362
Toronto/Lester B. Pearson International	1	33,261	11	18	99	3	1,207
Vancouver Harbour	22	3,512	10	15	27	4	173
Vancouver International	2	22,322	29	8	71	10	857
Victoria International	11	6,325	10	14	35	10	317
Whitehorse International	40	1,031	7	14	11	3	58
Windsor	39	1,208	5	13	12	5	71
Winnipeg/James Armstrong Richardson International	7	9,843	8	15	35	2	417
Winnipeg/St. Andrews	28	2,749	3	16	31	23	176
Yellowknife	26	3,273	15	11	23	9	154

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	33	910	2	10	14	4	85
Campbell River	25	1,127	15	14	14	15	74
Castlegar	49	383	5	10	8	5	28
Charlottetown	36	760	9	12	8	9	38
Churchill	35	820	3	11	8	1	45
Cranbrook	39	743	20	15	7	7	38
Deer Lake	22	1,230	7	8	12	7	53
Fort Nelson	9	1,740	15	10	21	1	124
Fort St. John	14	1,543	30	11	17	30	91
Grande Prairie	5	2,271	2	13	18	23	117
High Level	40	732	22	11	9	4	65
Îles-de-la-Madeleine	50	364	15	16	5	15	20
Inuvik/Mike Zubko	21	1,248	3	13	12	9	80
Iqaluit	19	1,291	18	17	10	1	60
Kamloops	18	1,334	15	15	13	15	65
Kenora	38	757	17	12	8	17	48
Kingston	12	1,559	4	12	23	4	115
Kuujuuaq	27	1,037	7	16	9	14	49
La Grande Rivière	43	632	21	11	7	15	34
La Ronge	23	1,171	1	13	10	21	64
Lethbridge	31	1,002	28	16	13	28	85
Lloydminster	44	610	15	16	8	3	39
Medicine Hat	29	1,009	6	10	12	7	62
Mont-Joli	41	715	1	17	8	3	38
Montréal/Mirabel International	7	1,919	26	13	15	1	96
Nanaimo	10	1,597	10	12	18	10	124
Norman Wells	37	758	1	15	8	17	39
North Bay	17	1,379	2	12	18	4	105
Ottawa/Gatineau	20	1,259	5	13	20	5	99
Peace River	45	551	4	14	7	8	35
Penticton	34	867	6	14	11	1	47
Port Hardy	46	549	8	12	8	15	36
Prince Albert	13	1,557	22	15	17	22	83
Prince Rupert	51	292	18	14	9	18	22
Rankin Inlet	32	970	5	12	15	11	70
Red Deer Regional	15	1,480	24	12	20	8	97
Rouyn-Noranda	26	1,057	3	16	8	3	54
Saint John	24	1,164	2	18	8	3	58
Sept-Îles	6	2,246	4	11	15	9	104
Sioux Lookout	3	2,357	3	13	14	21	116
Smithers	48	431	3	10	10	17	26
St. Catharines	16	1,402	5	13	40	5	265
Sudbury	2	2,384	17	9	17	22	117
Terrace	30	1,006	18	9	10	18	75
Thompson	1	2,617	10	8	14	10	133
Timmins	8	1,832	11	16	12	23	92
Val-d'Or	28	1,029	9	7	8	8	58
Victoria Harbour	4	2,297	30	14	20	3	116
Wabush	11	1,586	22	10	15	22	80
Whitecourt	42	691	9	15	10	9	53
Williams Lake	47	541	1	9	6	14	29

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	4,714	25	13	102	25	386
Boundary Bay	5	5,100	1	17	70	15	348
Calgary International	38	138	27	12	12	27	20
Calgary/Springbank	4	6,438	9	13	78	9	516
Chicoutimi/St-Honoré	11	4,006	16	13	114	16	324
Edmonton City Centre	32	474	10	17	24	5	54
Edmonton International	34	396	29	12	30	29	52
Edmonton/Villeneuve	14	3,076	3	11	64	26	234
Fort McMurray	35	370	6	19	22	11	54
Fredericton International	17	2,562	7	9	34	9	180
Gander International	29	952	9	10	26	9	116
Halifax/Robert L. Stanfield International	33	398	1	17	24	2	52
Hamilton	31	532	1	13	14	15	48
Kelowna	24	1,674	3	14	32	3	144
Kitchener/Waterloo	6	5,014	1	20	84	1	402
Langley	20	2,324	6	12	44	30	178
London	13	3,308	28	13	48	4	292
Moncton/Greater Moncton International	16	2,724	9	10	34	1	238
Montréal/Pierre Elliott Trudeau International	39	112	30	10	20	30	48
Montréal/St-Hubert	3	6,614	26	13	92	9	656
Oshawa	21	2,218	21	18	70	21	168
Ottawa/Macdonald-Cartier International	7	4,872	4	9	72	1	422
Pitt Meadows	10	4,152	4	16	84	25	312
Prince George	23	1,688	4	16	78	4	238
Québec/Jean Lesage International	15	2,740	17	14	54	8	236
Regina International	26	1,294	13	11	26	20	96
Saskatoon/John G. Diefenbaker International	22	2,062	23	16	38	29	158
Sault Ste. Marie	18	2,522	3	20	64	3	248
St. John's International	36	288	5	14	28	5	42
St-Jean	25	1,574	6	11	34	19	142
Thunder Bay	2	7,216	29	11	84	25	530
Toronto/Billy Bishop Toronto City	19	2,428	6	16	48	12	236
Toronto/Buttonville Municipal	1	7,268	16	21	98	16	446
Toronto/Lester B. Pearson International	40	96	19	12	18	19	36
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	41	36	24	14	8	24	8
Victoria International	12	3,828	29	14	48	30	246
Whitehorse International	37	266	8	17	18	29	56
Windsor	30	570	30	18	18	23	62
Winnipeg/James Armstrong Richardson International	28	992	24	9	22	24	104
Winnipeg/St. Andrews	8	4,748	1	19	72	1	368
Yellowknife	27	1,154	13	11	36	13	132

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	754	14	14	50	21	102
Campbell River	11	794	14	14	34	15	116
Castlegar	24	144	5	9	26	5	26
Charlottetown	29	86	9	10	10	9	14
Churchill	43	17	13	16	7	13	12
Cranbrook	32	52	2	13	12	2	12
Deer Lake	38	26	2	10	20	2	20
Fort Nelson	27	90	16	14	24	27	32
Fort St. John	17	294	4	13	18	29	46
Grande Prairie	5	1,434	27	15	44	27	164
High Level	37	28	15	20	10	15	10
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	36	34	12	16	14	12	18
Iqaluit	35	34	25	8	10	25	18
Kamloops	19	284	21	11	24	21	46
Kenora	18	289	2	18	20	2	62
Kingston	8	1,146	4	16	52	5	154
Kuujuuaq	23	168	20	9	12	18	22
La Grande Rivière	49	4	3	11	4	3	4
La Ronge	28	86	3	11	8	23	20
Lethbridge	13	511	16	15	30	19	66
Lloydminster	22	222	10	14	16	2	28
Medicine Hat	15	470	7	14	18	16	56
Mont-Joli	48	6	15	9	6	15	6
Montréal/Mirabel International	6	1,275	11	13	34	5	124
Nanaimo	14	508	1	15	41	1	133
Norman Wells	7	1,242	16	15	18	16	66
North Bay	1	3,160	2	9	68	23	408
Ottawa/Gatineau	3	2,346	13	12	48	26	208
Peace River	41	24	9	9	8	9	16
Penticton	10	828	28	14	36	30	122
Port Hardy	39	26	1	14	22	1	24
Prince Albert	47	7	7	18	6	7	6
Prince Rupert	46	10	29	18	8	29	10
Rankin Inlet	50	2	15	11	2	15	2
Red Deer Regional	2	2,540	5	15	42	5	172
Rouyn-Noranda	40	24	8	19	10	8	10
Saint John	16	444	9	14	18	9	62
Sept-Îles	26	96	29	10	12	29	26
Sioux Lookout	30	63	12	14	16	12	26
Smithers	45	10	17	11	4	17	8
St. Catharines	4	1,812	23	19	60	1	174
Sudbury	20	239	3	16	30	3	80
Terrace	33	48	4	13	14	18	18
Thompson	34	34	18	22	6	26	12
Timmins	25	114	24	14	18	24	28
Val-d'Or	21	222	1	15	24	8	48
Victoria Harbour	44	16	10	17	6	10	6
Wabush	31	56	3	11	26	3	46
Whitecourt	9	1,076	18	10	42	18	146
Williams Lake	42	20	5	16	12	5	12

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	4,710	25	13	102	25	386
Boundary Bay	5	5,100	1	17	70	15	348
Calgary International	38	138	27	12	12	27	20
Calgary/Springbank	4	6,434	9	13	78	9	516
Chicoutimi/St-Honoré	11	3,998	16	13	114	16	324
Edmonton City Centre	32	474	10	17	24	5	54
Edmonton International	34	392	29	12	30	29	52
Edmonton/Villeneuve	14	3,076	3	11	64	26	234
Fort McMurray	35	370	6	19	22	11	54
Fredericton International	17	2,562	7	9	34	9	180
Gander International	29	952	9	10	26	9	116
Halifax/Robert L. Stanfield International	33	394	1	17	24	2	52
Hamilton	31	530	1	13	14	15	48
Kelowna	24	1,672	3	14	32	3	144
Kitchener/Waterloo	6	5,014	1	20	84	1	402
Langley	20	2,324	6	12	44	30	178
London	13	3,308	28	13	48	4	292
Moncton/Greater Moncton International	16	2,724	9	10	34	1	238
Montréal/Pierre Elliott Trudeau International	39	112	30	10	20	30	48
Montréal/St-Hubert	3	6,610	26	13	92	9	656
Oshawa	21	2,218	21	18	70	21	168
Ottawa/Macdonald-Cartier International	7	4,856	4	9	72	1	420
Pitt Meadows	10	4,152	4	16	84	25	312
Prince George	23	1,688	4	16	78	4	238
Québec/Jean Lesage International	15	2,736	17	14	54	8	236
Regina International	27	1,106	13	11	26	20	96
Saskatoon/John G. Diefenbaker International	22	1,958	23	16	38	29	148
Sault Ste. Marie	18	2,518	3	20	64	3	248
St. John's International	36	284	5	14	28	5	42
St-Jean	25	1,570	6	11	34	19	142
Thunder Bay	2	7,206	29	11	84	25	528
Toronto/Billy Bishop Toronto City	19	2,428	6	16	48	12	236
Toronto/Buttonville Municipal	1	7,268	16	21	98	16	446
Toronto/Lester B. Pearson International	40	96	19	12	18	19	36
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	41	36	24	14	8	24	8
Victoria International	12	3,808	29	14	48	30	246
Whitehorse International	37	266	8	17	18	29	56
Windsor	30	570	30	18	18	23	62
Winnipeg/James Armstrong Richardson International	28	992	24	9	22	24	104
Winnipeg/St. Andrews	8	4,748	1	19	72	1	368
Yellowknife	26	1,154	13	11	36	13	132

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	694	14	14	46	21	82
Campbell River	11	794	14	14	34	15	116
Castlegar	24	144	5	9	26	5	26
Charlottetown	29	82	9	10	10	9	14
Churchill	43	17	13	16	7	13	12
Cranbrook	32	52	2	13	12	2	12
Deer Lake	38	26	2	10	20	2	20
Fort Nelson	27	90	16	14	24	27	32
Fort St. John	17	294	4	13	18	29	46
Grande Prairie	5	1,434	27	15	44	27	164
High Level	37	28	15	20	10	15	10
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	34	34	12	16	14	12	18
Iqaluit	35	34	25	8	10	25	18
Kamloops	18	284	21	11	24	21	46
Kenora	22	197	2	18	20	2	42
Kingston	8	1,146	4	16	52	5	154
Kuujuuaq	23	168	20	9	12	18	22
La Grande Rivière	48	4	3	11	4	3	4
La Ronge	28	86	3	11	8	23	20
Lethbridge	14	483	16	15	30	19	66
Lloydminster	21	214	10	14	16	2	28
Medicine Hat	15	470	7	14	18	16	56
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	6	1,261	11	13	34	5	124
Nanaimo	13	506	1	15	41	1	133
Norman Wells	7	1,242	16	15	18	16	66
North Bay	1	3,160	2	9	68	23	408
Ottawa/Gatineau	3	2,346	13	12	48	26	208
Peace River	40	24	9	9	8	9	16
Penticton	10	828	28	14	36	30	122
Port Hardy	39	26	1	14	22	1	24
Prince Albert	47	7	7	18	6	7	6
Prince Rupert	45	10	29	18	8	29	10
Rankin Inlet	49	2	15	11	2	15	2
Red Deer Regional	2	2,540	5	15	42	5	172
Rouyn-Noranda	41	24	8	19	10	8	10
Saint John	16	444	9	14	18	9	62
Sept-Îles	26	96	29	10	12	29	26
Sioux Lookout	30	61	12	14	16	12	26
Smithers	44	10	17	11	4	17	8
St. Catharines	4	1,812	23	19	60	1	174
Sudbury	19	235	3	16	30	3	80
Terrace	33	48	4	13	14	18	18
Thompson	36	34	18	22	6	26	12
Timmins	25	114	24	14	18	24	28
Val-d'Or	20	220	1	15	24	8	48
Victoria Harbour	46	10	3	9	2	3	4
Wabush	31	56	3	11	26	3	46
Whitecourt	9	1,076	18	10	42	18	146
Williams Lake	42	20	5	16	12	5	12

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	7	4	18	10	4	18	4
Boundary Bay	0	0	0	0	0	0	0
Calgary International	0	0	0	0	0	0	0
Calgary/Springbank	15	4	25	15	4	25	4
Chicoutimi/St-Honoré	6	8	18	16	8	18	8
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	9	4	21	10	2	21	2
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	0	0	0	0	0	0	0
Fredericton International	0	0	0	0	0	0	0
Gander International	0	0	0	0	0	0	0
Halifax/Robert L. Stanfield International	8	4	8	15	2	8	2
Hamilton	16	2	25	18	2	25	2
Kelowna	17	2	28	18	2	28	2
Kitchener/Waterloo	0	0	0	0	0	0	0
Langley	0	0	0	0	0	0	0
London	0	0	0	0	0	0	0
Moncton/Greater Moncton International	0	0	0	0	0	0	0
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	13	4	21	13	4	21	4
Oshawa	0	0	0	0	0	0	0
Ottawa/Macdonald-Cartier International	4	16	24	8	4	24	8
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	12	4	11	11	2	11	2
Regina International	1	188	5	9	8	8	20
Saskatoon/John G. Diefenbaker International	2	104	22	18	18	23	28
Sault Ste. Marie	11	4	25	12	4	25	4
St. John's International	10	4	17	16	4	17	4
St-Jean	14	4	3	13	4	3	4
Thunder Bay	5	10	30	14	6	30	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	3	20	14	10	8	14	8
Whitehorse International	0	0	0	0	0	0	0
Windsor	0	0	0	0	0	0	0
Winnipeg/James Armstrong Richardson International	0	0	0	0	0	0	0
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	0	0	0	0	0	0	0

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	2	60	14	13	16	14	20
Campbell River	0	0	0	0	0	0	0
Castlegar	0	0	0	0	0	0	0
Charlottetown	8	4	8	15	2	8	2
Churchill	0	0	0	0	0	0	0
Cranbrook	0	0	0	0	0	0	0
Deer Lake	0	0	0	0	0	0	0
Fort Nelson	0	0	0	0	0	0	0
Fort St. John	0	0	0	0	0	0	0
Grande Prairie	0	0	0	0	0	0	0
High Level	0	0	0	0	0	0	0
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	0	0	0	0	0	0	0
Iqaluit	0	0	0	0	0	0	0
Kamloops	0	0	0	0	0	0	0
Kenora	1	92	16	15	18	16	24
Kingston	0	0	0	0	0	0	0
Kuujuuaq	0	0	0	0	0	0	0
La Grande Rivière	0	0	0	0	0	0	0
La Ronge	0	0	0	0	0	0	0
Lethbridge	3	28	21	17	14	21	22
Lloydminster	5	8	22	15	4	22	4
Medicine Hat	0	0	0	0	0	0	0
Mont-Joli	6	6	15	9	6	15	6
Montréal/Mirabel International	4	14	1	11	6	1	6
Nanaimo	10	2	17	13	2	17	2
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	0	0	0	0	0	0	0
Prince Albert	0	0	0	0	0	0	0
Prince Rupert	0	0	0	0	0	0	0
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	0	0	0	0	0	0	0
Rouyn-Noranda	0	0	0	0	0	0	0
Saint John	0	0	0	0	0	0	0
Sept-Îles	0	0	0	0	0	0	0
Sioux Lookout	11	2	24	11	2	24	2
Smithers	0	0	0	0	0	0	0
St. Catharines	0	0	0	0	0	0	0
Sudbury	9	4	6	11	4	6	4
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	12	2	13	17	2	13	2
Victoria Harbour	7	6	10	17	6	10	6
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, maximum 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 Aviation Statistics Centre 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

Starting in November, Westjet launched its new twice-weekly seasonal service from Toronto to San Juan, Puerto Rico, two new flights flying out of London to Las Vegas and Cancun, Mexico. It has also increased service between Edmonton and Calgary from five to seven flights daily, and increased service between Vancouver and Toronto for the winter from five to six flights daily.

Starting in October 2011, Porter Airlines increased weekday roundtrip flights between Billy Bishop Toronto City and Boston's Logan International Airport.

Beginning in September 2011, Porter Airlines has added an additional daily roundtrip flight between Billy Bishop Toronto City Airport and Sudbury as well as Myrtle Beach, S.C.

Westjet launched twice-weekly service from both Hamilton, Ontario and Prince George, British Columbia to Las Vegas, Nevada.

Bearskin Airlines has initiated daily non-stop flights between the Waterloo Region International Airport and Montreal's Pierre Elliott Trudeau International Airport in May 2011.

In May 2011 WestJet has begun the reintroduction of flights from Munro Hamilton International Airport, the addition of non-stop service from Vancouver and Calgary to Orange County, California and between Toronto and Montreal as well as between Toronto and Ottawa.

Effective in May 2011 Porter Airlines runs daily non-stop round trips from Billy Bishop Toronto City Airport to Windsor Airport and Sault Ste. Marie.

Starting May 1, 2011 Air Canada started cutting the following routes: Ottawa to Thunder Bay; Ottawa to Dulles International in Washington; Montreal to Dulles International in Washington; Calgary to London, Ontario; and Calgary to San Francisco.

Starting May 1, 2011 Air Canada began daily service between Billy Bishop Toronto City Airport and Montreal/Pierre Elliott Trudeau International.

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: Effective 2010, this includes every Canadian air carrier that, in the calendar year immediately preceding the reporting year, transported at least 2 million revenue passengers or at least 400 thousand tonnes of cargo.

Level II: Effective 2010, this includes every Canadian air carrier that, in the calendar year immediately preceding the reporting year, transported at least 100 thousand, but fewer than 2 million revenue passengers, or at least 50 thousand but less than 400 thousand tonnes of cargo.

Level III. Effective 2010, this includes every Canadian air carrier not classified in reporting level I or II that, in the calendar year immediately preceding the reporting year, realized gross revenues of at least 2 million dollars for the provision of air services for which the air carrier held a licence.

Level IV. Effective 2010, this includes every Canadian air carrier not classified in reporting level I, II or III that, in the calendar year immediately preceding the reporting year, realized gross revenues of less than 2 million dollars for the provision of air services for which the air carrier held a licence.

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.

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.

Maximum 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.

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.