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



February 2009



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Statistics Canada
Transportation Division

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

February 2009

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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 Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased (-3.7%) in February 2009 compared with February 2008. These 93 airports reported 419,281 movements in February 2009 compared with 435,196 movements at 95 airports in February 2008.
- Itinerant movements (flights from one airport to another) fell 4.3% (-13,351 movements) in February 2009 compared with the same month a year earlier.
- Local movements (flights that remain in the vicinity of the airport) declined by 2.0% (-2,564 movements) in February 2009 over the previous year.

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

	NAV CANADA towers		NAV CANADA Flight Service Stations		Total	
	number	Change from February 2009/February 2008 percent	number	Change from February 2009/February 2008 percent	number	Change from February 2009/February 2008 percent
Grand total	338,686	-2.3	80,595	-8.9	419,281	-3.7
Itinerant movements						
Air carriers	178,668	-5.2	44,811	-10.4	223,479	-6.3
Other commercial movements	32,068	8.2	3,879	-12.0	35,947	5.6
Private movements	18,450	-2.0	6,086	3.8	24,536	-0.6
Government civil movements	4,158	-5.5	1,640	-9.0	5,798	-6.5
Government military movements	3,092	15.3	909	-10.0	4,001	8.4
Itinerant total	236,436	-3.1	57,325	-9.2	293,761	-4.3
Local movements						
Civil local movements	101,039	-0.5	23,148	-8.2	124,187	-2.0
Military local movements	1,211	1.4	122	10.9	1,333	2.2
Local total	102,250	-0.5	23,270	-8.2	125,520	-2.0

Analysis

Aircraft take-offs and landings at Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased (-3.7%) in February 2009 compared with February 2008. These 93 airports reported 419,281 movements in February 2009 compared with 435,196 movements at 95 airports in February 2008.

Itinerant movements (flights from one airport to another) fell 4.3% (-13,351 movements) in February 2009 compared with the same month a year earlier.

Local movements (flights that remain in the vicinity of the airport) declined by 2.0% (-2,564 movements) in February 2009 over the previous year.

Airports with NAV CANADA air traffic control towers

The 41 Canadian airports with NAV CANADA air traffic control towers reported 338,686 aircraft take-offs and landings in February down 2.3% (-8,062 movements) compared with February 2008. Year-over-year increases in aircraft movements were reported by 13 of these airports in February 2009. The variations ranged from an increase of 80.5% at St-Jean, Quebec to a decline of 56.0% at Hamilton, Ontario.

Itinerant movements (flights from one airport to another) declined 3.1% in February compared with the same month a year earlier. Year-over-year variations in itinerant movements ranged from a 65.8% increase (+287 movements) at St-Jean, Quebec to a decline of 40.6% (-910 movements) at Gander International, Newfoundland and Labrador.

Local movements (flights that remain in the vicinity of the airport) fell by 496 movements (-0.5%) in February compared with February 2008. Montréal/St-Hubert, Quebec recorded the largest gain in local movements, increasing by 3,223 movements (+65.2%) while Calgary/Springbank, Alberta reported the largest decline with 4,148 fewer movements (-36.1%) compared with the previous year.

The Air Traffic Control Tower at Sudbury, Ontario closed in June 2008 and re-opened as a Flight Service Station. Sudbury reported 2,489 movements in February 2008 compared with 2,395 movements reported for the Flight Service Station in February 2009, down 3.8%.

The Flight Service Station at Fort McMurray, Alberta closed effective October 2008 and re-opened as an Air Traffic Control Tower. Fort McMurray reported 4,296 movements in February 2008 compared with 3,841 movements reported for the Air Traffic Control Tower in February 2009, down 10.6%.

The Air Traffic Control Tower at Montréal/Mirabel International, Quebec closed in December 2008 and re-opened as a Flight Service Station. Montréal/Mirabel International reported 1,819 movements in February 2008 compared with 1,678 movements reported for the Flight Service Station in February 2009, down 7.8%.

Airports with NAV CANADA flight service stations

The 52 Canadian airports with NAV CANADA flight service stations reported 80,595 aircraft take-offs and landings in February down 8.9% (-7,853 movements) compared with February 2008. Year-over-year increases in aircraft movements were reported by 14 of these airports in February 2009. The variations ranged from a 54.9% increase (+542 movements) at Val-d'Or, Quebec to a decline of 40.8% (-625 movements) at Terrace, British Columbia.

Itinerant movements (flights from one airport to another) decreased by 9.2% (-5,785 movements) in February 2009 compared with the same month a year earlier. Year-over-year variations in itinerant movements ranged from a 52.7% increase (+262 movements) St. Catharines, Ontario to a decline of 40.2% (-387 movements) at Norman Wells, Northwest Territories.

Local movements (flights that remain in the vicinity of the airport) recorded in February 2009 decreased by 8.2% (-2,068 movements) compared with the same month a year earlier. Fredericton International, New Brunswick recorded the largest gain in local movements, increasing by 929 movements (+59.6%) compared with February 2008. Penticton, British Columbia recorded the largest decline in local movements, dropping 1,146 movements (-46.0%) compared with February 2008.

Related products

Selected CANSIM tables from Statistics Canada

401-0005	Aircraft movements by class of operation, airports with NAV CANADA towers, preliminary, monthly
401-0006	Aircraft movements by class of operation, airports with NAV CANADA towers, preliminary, annual
401-0007	Aircraft movements, by class of operation and peak hour and peak day of movements, airports with NAV CANADA towers, monthly
401-0008	Aircraft movements, by civil and military movements, airports with NAV CANADA towers, monthly
401-0009	Itinerant movements, by type of operation, airports with NAV CANADA towers, monthly
401-0010	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA towers, monthly
401-0011	Itinerant movements, by type of power plant, airports with NAV CANADA towers, monthly
401-0012	Itinerant movements, by aircraft gross take-off weight, airports with NAV CANADA towers, monthly
401-0013	Domestic and international itinerant movements, by type of operation, airports with NAV CANADA towers, monthly
401-0014	Aircraft movements, by class of operation and peak hour and peak day of movements, airports with NAV CANADA flight service stations, monthly
401-0015	Aircraft movements, by civil and military movements, airports with NAV CANADA flight service stations, monthly
401-0016	Itinerant movements, by type of operation, airports with NAV CANADA flight service stations, monthly
401-0017	Itinerant movements, by instrument flight rules, visual flight rules and runway 88, airports with NAV CANADA flight service stations, monthly
401-0018	Itinerant movements, by type of power plant, airports with NAV CANADA flight service stations, monthly
401-0019	Itinerant movements, by aircraft gross take-off weight, airports with NAV CANADA flight service stations, monthly
401-0020	Domestic and international itinerant movements, by type of operation, airports with NAV CANADA flight service stations, monthly

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	10	11,479	17	4,977	5	6,502
Boundary Bay	5	14,965	9	6,573	1	8,392
Calgary International	3	18,097	3	17,989	36	108
Calgary/Springbank	8	12,068	18	4,733	3	7,335
Chicoutimi/St-Honoré	34	2,702	39	1,002	22	1,700
Edmonton City Centre	23	5,915	16	4,989	25	926
Edmonton International	13	10,143	5	9,987	34	156
Edmonton/Villeneuve	27	4,914	38	1,030	9	3,884
Fort McMurray	32	3,841	24	3,334	32	507
Gander International	38	2,137	37	1,333	26	804
Halifax/Robert L Stanfield International	24	5,774	12	5,474	33	300
Hamilton	39	2,013	32	2,013	0	0
Kelowna	26	5,336	22	3,581	21	1,755
Kitchener/Waterloo	21	6,855	27	3,133	10	3,722
Langley	25	5,505	31	2,471	15	3,034
London	11	11,102	19	4,690	6	6,412
Moncton/Greater Moncton International	15	8,856	13	5,257	12	3,599
Montréal/Pierre Elliott Trudeau International	4	16,131	4	16,131	0	0
Montréal/St-Hubert	6	14,665	10	6,497	2	8,168
Oshawa	29	4,299	34	1,851	16	2,448
Ottawa/Macdonald-Cartier International	9	11,797	7	9,444	17	2,353
Pitt Meadows	14	9,143	25	3,281	7	5,862
Prince George	37	2,162	35	1,579	30	583
Québec/Jean Lesage International	17	8,125	11	6,142	20	1,983
Regina International	31	3,948	28	2,914	24	1,034
Saskatoon/John G Diefenbaker International	20	7,180	15	4,990	19	2,190
Sault Ste. Marie	30	4,202	33	1,896	18	2,306
St. John's International	35	2,633	30	2,484	35	149
St-Jean	40	1,523	41	723	27	800
Thunder Bay	18	7,786	20	4,681	14	3,105
Toronto/Buttonville Municipal	16	8,679	14	5,029	11	3,650
Toronto/City Centre	22	6,652	23	3,460	13	3,192
Toronto/Lester B Pearson International	1	31,277	1	31,277	0	0
Vancouver Harbour	33	3,626	21	3,600	37	26
Vancouver International	2	23,509	2	23,509	0	0
Victoria International	7	13,679	8	6,774	4	6,905
Whitehorse International	41	1,380	40	828	31	552
Windsor	36	2,165	36	1,471	29	694
Winnipeg/James Armstrong Richardson International	12	10,205	6	9,483	28	722
Winnipeg/St. Andrews	19	7,385	29	2,683	8	4,702
Yellowknife	28	4,833	26	3,143	23	1,690
Total of NAV CANADA towers (41)	.	338,686	.	236,436	.	102,250

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

	Total		Itinerant		Local	
	Rank of movements	Number of movements	Rank of movements	Number of movements	Rank of movements	Number of movements
Brandon Municipal	25	1,346	38	664	12	682
Campbell River	3	3,238	13	1,442	4	1,796
Castlegar	50	458	48	410	36	48
Charlottetown	23	1,443	24	1,058	18	385
Churchill	39	788	30	788	0	0
Cranbrook	33	902	33	776	24	126
Deer Lake	26	1,334	19	1,240	28	94
Fort Nelson	35	849	32	785	33	64
Fort St John	10	2,405	14	1,394	9	1,011
Fredericton International	1	6,127	1	3,639	1	2,488
Grande Prairie	5	2,926	4	2,096	11	830
High Level	43	632	46	532	27	100
Îles-de-la-Madeleine	51	374	50	366	44	8
Inuvik/Mike Zubko	41	704	39	660	39	44
Iqaluit	28	1,250	22	1,132	25	118
Kamloops	13	2,292	8	1,622	13	670
Kenora	30	1,009	34	763	22	246
Kingston	14	2,168	16	1,312	10	856
Kuujuuaq	36	841	36	757	30	84
La Grande Rivière	45	611	42	609	46	2
La Ronge	31	996	26	948	35	48
Lethbridge	8	2,500	18	1,290	8	1,210
Lloydminster	37	835	47	525	20	310
Medicine Hat	18	1,735	20	1,163	15	572
Mont-Joli	52	331	52	329	48	2
Montréal/Mirabel International	20	1,678	17	1,306	19	372
Nanaimo	17	1,941	9	1,555	17	386
Norman Wells	46	589	44	575	43	14
North Bay	2	3,639	10	1,529	2	2,110
Ottawa/Gatineau	4	3,049	25	1,031	3	2,018
Peace River	42	676	40	658	42	18
Penticton	9	2,457	23	1,109	7	1,348
Port Hardy	48	467	49	399	32	68
Prince Albert	24	1,365	15	1,337	41	28
Prince Rupert	49	466	51	330	23	136
Rankin Inlet	38	804	29	804	0	0
Red Deer Regional	6	2,853	11	1,465	6	1,388
Rouyn-Noranda	34	861	31	787	31	74
Saint John	29	1,216	21	1,156	34	60
Sept-Îles	22	1,511	12	1,465	38	46
Sioux Lookout	16	2,111	6	2,065	37	46
Smithers	47	549	45	547	47	2
St Catharines	27	1,311	35	759	16	552
Sudbury	11	2,395	5	2,095	21	300
Terrace	32	907	28	821	29	86
Thompson	15	2,156	3	2,118	40	38
Timmins	19	1,717	7	1,711	45	6
Val-d'Or	21	1,529	27	895	14	634
Victoria Harbour	7	2,559	2	2,559	0	0
Wabush	44	612	41	612	0	0
Whitecourt	12	2,361	37	729	5	1,632
Williams Lake	40	722	43	608	26	114
Total of all flight service stations (52)	.	80,595	.	57,325	.	23,270

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

	Civil movements				Military movements		
	Total	Itinerant		Civil	Total	Itinerant	Military
		Commercial	Private and government				
	number						
Abbotsford	11,395	4,005	909	6,481	84	63	21
Boundary Bay	14,952	5,464	1,096	8,392	13	13	0
Calgary International	18,028	16,752	1,169	107	69	68	1
Calgary/Springbank	12,046	3,568	1,147	7,331	22	18	4
Chicoutimi/St-Honoré	2,693	955	38	1,700	9	9	0
Edmonton City Centre	5,881	3,807	1,152	922	34	30	4
Edmonton International	10,079	9,641	298	140	64	48	16
Edmonton/Villeneuve	4,914	904	126	3,884	0	0	0
Fort McMurray	3,808	2,961	354	493	33	19	14
Gander International	1,741	1,022	105	614	396	206	190
Halifax/Robert L Stanfield International	5,550	5,074	238	238	224	162	62
Hamilton	2,000	1,606	394	0	13	13	0
Kelowna	5,304	3,163	393	1,748	32	25	7
Kitchener/Waterloo	6,829	2,510	597	3,722	26	26	0
Langley	5,466	1,511	935	3,020	39	25	14
London	11,079	4,132	545	6,402	23	13	10
Moncton/Greater Moncton International	8,820	5,004	227	3,589	36	26	10
Montréal/Pierre Elliott Trudeau International	16,097	15,022	1,075	0	34	34	0
Montréal/St-Hubert	14,545	5,415	962	8,168	120	120	0
Oshawa	4,294	1,376	470	2,448	5	5	0
Ottawa/Macdonald-Cartier International	11,500	8,432	782	2,286	297	230	67
Pitt Meadows	9,127	2,267	998	5,862	16	16	0
Prince George	2,159	1,406	170	583	3	3	0
Québec/Jean Lesage International	7,978	5,358	639	1,981	147	145	2
Regina International	3,672	2,308	366	998	276	240	36
Saskatoon/John G Diefenbaker International	6,993	4,201	654	2,138	187	135	52
Sault Ste. Marie	4,176	1,794	84	2,298	26	18	8
St. John's International	2,423	2,163	114	146	210	207	3
St-Jean	1,515	521	194	800	8	8	0
Thunder Bay	7,732	4,443	206	3,083	54	32	22
Toronto/Buttonville Municipal	8,677	3,557	1,470	3,650	2	2	0
Toronto/City Centre	6,638	3,182	264	3,192	14	14	0
Toronto/Lester B Pearson International	31,258	30,309	949	0	19	19	0
Vancouver Harbour	3,586	3,540	20	26	40	40	0
Vancouver International	23,303	21,926	1,377	0	206	206	0
Victoria International	13,119	5,530	1,022	6,567	560	222	338
Whitehorse International	1,304	638	160	506	76	30	46
Windsor	2,137	1,272	191	674	28	8	20
Winnipeg/James Armstrong Richardson International	9,494	8,559	437	498	711	487	224
Winnipeg/St. Andrews	7,329	2,465	168	4,696	56	50	6
Yellowknife	4,742	2,973	113	1,656	91	57	34
Total of NAV CANADA towers (41)	334,383	210,736	22,608	101,039	4,303	3,092	1,211

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

	Civil movements			Military movements			
	Total	Itinerant		Civil	Total	Itinerant	Military
		Commercial	Private and government				
	number						
Brandon Municipal	1,191	355	164	672	155	145	10
Campbell River	3,215	1,149	270	1,796	23	23	0
Castlegar	454	368	38	48	4	4	0
Charlottetown	1,428	880	163	385	15	15	0
Churchill	771	762	9	0	17	17	0
Cranbrook	890	598	166	126	12	12	0
Deer Lake	1,334	1,232	8	94	0	0	0
Fort Nelson	833	725	44	64	16	16	0
Fort St John	2,393	1,248	134	1,011	12	12	0
Fredericton International	6,045	3,398	167	2,480	82	74	8
Grande Prairie	2,920	1,776	314	830	6	6	0
High Level	632	481	51	100	0	0	0
Îles-de-la-Madeleine	372	322	42	8	2	2	0
Inuvik/Mike Zubko	698	612	42	44	6	6	0
Iqaluit	1,234	1,021	95	118	16	16	0
Kamloops	2,255	1,304	281	670	37	37	0
Kenora	943	666	69	208	66	28	38
Kingston	2,132	1,027	261	844	36	24	12
Kuujuuaq	835	715	36	84	6	6	0
La Grande Rivière	611	593	16	2	0	0	0
La Ronge	988	877	63	48	8	8	0
Lethbridge	2,466	970	286	1,210	34	34	0
Lloydminster	813	311	192	310	22	22	0
Medicine Hat	1,718	955	191	572	17	17	0
Mont-Joli	331	301	28	2	0	0	0
Montréal/Mirabel International	1,619	955	318	346	59	33	26
Nanaimo	1,911	1,009	528	374	30	18	12
Norman Wells	587	564	9	14	2	2	0
North Bay	3,583	1,226	255	2,102	56	48	8
Ottawa/Gatineau	3,031	498	515	2,018	18	18	0
Peace River	676	598	60	18	0	0	0
Penticton	2,399	859	192	1,348	58	58	0
Port Hardy	453	305	80	68	14	14	0
Prince Albert	1,343	1,154	161	28	22	22	0
Prince Rupert	466	298	32	136	0	0	0
Rankin Inlet	804	794	10	0	0	0	0
Red Deer Regional	2,843	953	502	1,388	10	10	0
Rouyn-Noranda	855	640	141	74	6	6	0
Saint John	1,176	925	199	52	40	32	8
Sept-Îles	1,511	1,349	116	46	0	0	0
Sioux Lookout	2,111	2,037	28	46	0	0	0
Smithers	549	513	34	2	0	0	0
St Catharines	1,211	443	216	552	100	100	0
Sudbury	2,383	1,858	225	300	12	12	0
Terrace	907	795	26	86	0	0	0
Thompson	2,152	1,967	147	38	4	4	0
Timmins	1,717	1,533	178	6	0	0	0
Val-d'Or	1,527	713	180	634	2	2	0
Victoria Harbour	2,555	2,301	254	0	4	4	0
Wabush	612	586	26	0	0	0	0
Whitecourt	2,361	677	52	1,632	0	0	0
Williams Lake	720	494	112	114	2	2	0
Total of all flight service stations (52)	79,564	48,690	7,726	23,148	1,031	909	122

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
				number			
Abbotsford	4,977	431	2,520	1,054	747	162	63
Boundary Bay	6,573	7	1,722	3,735	1,046	50	13
Calgary International	17,989	15,298	866	588	1,038	131	68
Calgary/Springbank	4,733	18	619	2,931	1,135	12	18
Chicoutimi/St-Honoré	1,002	5	176	774	34	4	9
Edmonton City Centre	4,989	1,463	548	1,796	784	368	30
Edmonton International	9,987	9,128	432	81	274	24	48
Edmonton/Villeneuve	1,030	0	200	704	124	2	0
Fort McMurray	3,334	2,105	558	298	322	32	19
Gander International	1,333	394	602	26	95	10	206
Halifax/Robert L. Stanfield International	5,474	4,705	321	48	210	28	162
Hamilton	2,013	1,183	301	122	321	73	13
Kelowna	3,581	2,153	241	769	339	54	25
Kitchener/Waterloo	3,133	401	1,721	388	589	8	26
Langley	2,471	83	124	1,304	905	30	25
London	4,690	946	855	2,331	460	85	13
Moncton/Greater Moncton International	5,257	1,508	3,421	75	127	100	26
Montréal/Pierre Elliott Trudeau International	16,131	14,110	568	344	886	189	34
Montréal/St-Hubert	6,497	3,428	381	1,606	882	80	120
Oshawa	1,851	123	91	1,162	445	25	5
Ottawa/Macdonald-Cartier International	9,444	6,411	341	1,680	273	509	230
Pitt Meadows	3,281	13	1,094	1,160	963	35	16
Prince George	1,579	1,114	270	22	119	51	3
Québec/Jean Lesage International	6,142	3,651	1,109	598	410	229	145
Regina International	2,914	1,837	449	22	172	194	240
Saskatoon/John G Diefenbaker International	4,990	2,707	1,048	446	329	325	135
Sault Ste. Marie	1,896	793	128	873	59	25	18
St. John's International	2,484	1,507	630	26	65	49	207
St-Jean	723	218	143	160	166	28	8
Thunder Bay	4,681	2,568	768	1,107	117	89	32
Toronto/Butonville Municipal	5,029	316	632	2,609	1,445	25	2
Toronto/City Centre	3,460	1,546	674	962	248	16	14
Toronto/Lester B Pearson International	31,277	29,758	356	195	916	33	19
Vancouver Harbour	3,600	3,299	215	26	16	4	40
Vancouver International	23,509	20,306	1,249	371	791	586	206
Victoria International	6,774	2,730	2,009	791	942	80	222
Whitehorse International	828	420	191	27	132	28	30
Windsor	1,471	494	695	83	151	40	8
Winnipeg/James Armstrong Richardson International	9,483	8,022	444	93	175	262	487
Winnipeg/St. Andrews	2,683	372	1,444	649	166	2	50
Yellowknife	3,143	2,584	357	32	32	81	57
Total of NAV CANADA towers (41)	236,436	148,155	30,513	32,068	18,450	4,158	3,092

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	664	100	183	72	132	32	145
Campbell River	1,442	483	424	242	233	37	23
Castlegar	410	247	41	80	38	0	4
Charlottetown	1,058	584	124	172	119	44	15
Churchill	788	746	16	0	5	4	17
Cranbrook	776	538	46	14	155	11	12
Deer Lake	1,240	1,013	172	47	4	4	0
Fort Nelson	785	433	191	101	42	2	16
Fort St John	1,394	740	475	33	106	28	12
Fredericton International	3,639	704	2,616	78	85	82	74
Grande Prairie	2,096	1,149	570	57	277	37	6
High Level	532	192	289	0	29	22	0
Îles-de-la-Madeleine	366	192	126	4	2	40	2
Inuvik/Mike Zubko	660	191	421	0	24	18	6
Iqaluit	1,132	948	25	48	47	48	16
Kamloops	1,622	1,107	142	55	212	69	37
Kenora	763	328	321	17	53	16	28
Kingston	1,312	419	306	302	236	25	24
Kujjuaq	757	697	18	0	16	20	6
La Grande Rivière	609	484	107	2	12	4	0
La Ronge	948	852	6	19	2	61	8
Lethbridge	1,290	417	14	539	271	15	34
Lloydminster	525	98	187	26	180	12	22
Medicine Hat	1,163	646	84	225	179	12	17
Mont-Joli	329	245	38	18	8	20	0
Montréal/Mirabel International	1,306	709	203	43	304	14	33
Nanaimo	1,555	405	450	154	479	49	18
Norman Wells	575	441	119	4	5	4	2
North Bay	1,529	469	381	376	227	28	48
Ottawa/Gatineau	1,031	109	143	246	434	81	18
Peace River	658	352	238	8	30	30	0
Penticton	1,109	285	527	47	180	12	58
Port Hardy	399	261	38	6	25	55	14
Prince Albert	1,337	1,052	64	38	51	110	22
Prince Rupert	330	199	86	13	4	28	0
Rankin Inlet	804	790	2	2	2	8	0
Red Deer Regional	1,465	239	513	201	472	30	10
Rouyn-Noranda	787	491	125	24	103	38	6
Saint John	1,156	642	267	16	197	2	32
Sept-Îles	1,465	1,031	280	38	62	54	0
Sioux Lookout	2,065	1,600	375	62	15	13	0
Smithers	547	437	71	5	18	16	0
St Catharines	759	3	390	50	194	22	100
Sudbury	2,095	1,321	480	57	170	55	12
Terrace	821	502	239	54	6	20	0
Thompson	2,118	1,844	122	1	8	139	4
Timmins	1,711	1,346	175	12	132	46	0
Val-d'Or	895	618	85	10	164	16	2
Victoria Harbour	2,559	2,288	13	0	165	89	4
Wabush	612	494	88	4	26	0	0
Whitecourt	729	32	400	245	42	10	0
Williams Lake	608	430	52	12	104	8	2
Total of all flight service stations (52)	57,325	31,943	12,868	3,879	6,086	1,640	909

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 number
	Total of IFR and VFR flights ¹	Instrument flight rules	Percentage instrument flight rules	Visual flight rules	Percentage visual flight rules	
	number		percent	number	percent	
Abbotsford	4,977	1,184	23.7	3,793	76.2	575
Boundary Bay	6,573	424	6.4	6,149	93.5	254
Calgary International	17,989	16,842	93.6	1,147	6.3	716
Calgary/Springbank	4,733	244	5.1	4,489	94.8	1,958
Chicoutimi/St-Honoré	1,002	96	9.5	906	90.4	32
Edmonton City Centre	4,989	2,439	48.8	2,550	51.1	1,098
Edmonton International	9,987	9,678	96.9	309	3.0	501
Edmonton/Villeneuve	1,030	8	0.7	1,022	99.2	94
Fort McMurray	3,334	2,082	62.4	1,252	37.5	62
Gander International	1,333	842	63.1	491	36.8	61
Halifax/Robert L. Stanfield International	5,474	5,072	92.6	402	7.3	135
Hamilton	2,013	1,547	76.8	466	23.1	421
Kelowna	3,581	2,340	65.3	1,241	34.6	322
Kitchener/Waterloo	3,133	789	25.1	2,344	74.8	310
Langley	2,471	42	1.6	2,429	98.3	1,001
London	4,690	1,212	25.8	3,478	74.1	246
Moncton/Greater Moncton International	5,257	2,071	39.3	3,186	60.6	102
Montréal/Pierre Elliott Trudeau International	16,131	15,718	97.4	413	2.5	970
Montréal/St-Hubert	6,497	1,310	20.1	5,187	79.8	918
Oshawa	1,851	58	3.1	1,793	96.8	423
Ottawa/Macdonald-Cartier International	9,444	7,116	75.3	2,328	24.6	424
Pitt Meadows	3,281	47	1.4	3,234	98.5	1,720
Prince George	1,579	1,162	73.5	417	26.4	192
Québec/Jean Lesage International	6,142	4,268	69.4	1,874	30.5	830
Regina International	2,914	2,196	75.3	718	24.6	39
Saskatoon/John G. Diefenbaker International	4,990	3,381	67.7	1,609	32.2	80
Sault Ste. Marie	1,896	965	50.8	931	49.1	52
St. John's International	2,484	2,289	92.1	195	7.8	36
St-Jean	723	277	38.3	446	61.6	177
Thunder Bay	4,681	3,051	65.1	1,630	34.8	84
Toronto/Buttonville Municipal	5,029	524	10.4	4,505	89.5	337
Toronto/City Centre	3,460	1,808	52.2	1,652	47.7	1,122
Toronto/Lester B. Pearson International	31,277	27,821	88.9	3,456	11.0	47
Vancouver Harbour	3,600	46	1.2	3,554	98.7	1,364
Vancouver International	23,509	17,798	75.7	5,711	24.2	6,109
Victoria International	6,774	3,158	46.6	3,616	53.3	2,824
Whitehorse International	828	352	42.5	476	57.4	166
Windsor	1,471	714	48.5	757	51.4	45
Winnipeg/James Armstrong Richardson International	9,483	8,241	86.9	1,242	13.0	156
Winnipeg/St. Andrews	2,683	85	3.1	2,598	96.8	42
Yellowknife	3,143	1,931	61.4	1,212	38.5	188
Total of NAV CANADA towers (41)	236,436	151,228	64.0	85,208	36.0	26,233

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	664	176	26.5	488	73.4	17
Campbell River	1,442	475	32.9	967	67.0	136
Castlegar	410	248	60.4	162	39.5	57
Charlottetown	1,058	651	61.5	407	38.4	40
Churchill	788	735	93.2	53	6.7	7
Cranbrook	776	598	77.0	178	22.9	102
Deer Lake	1,240	1,139	91.8	101	8.1	21
Fort Nelson	785	491	62.5	294	37.4	22
Fort St John	1,394	789	56.5	605	43.4	73
Fredericton International	3,639	938	25.7	2,701	74.2	61
Grande Prairie	2,096	1,339	63.8	757	36.1	76
High Level	532	274	51.5	258	48.4	86
Îles-de-la-Madeleine	366	256	69.9	110	30.0	112
Inuvik/Mike Zubko	660	262	39.6	398	60.3	8
Iqaluit	1,132	1,026	90.6	106	9.3	0
Kamloops	1,622	1,220	75.2	402	24.7	125
Kenora	763	390	51.1	373	48.8	280
Kingston	1,312	540	41.1	772	58.8	66
Kuujuuaq	757	413	54.5	344	45.4	0
La Grande Rivière	609	496	81.4	113	18.5	40
La Ronge	948	568	59.9	380	40.0	140
Lethbridge	1,290	498	38.6	792	61.3	61
Lloydminster	525	174	33.1	351	66.8	18
Medicine Hat	1,163	403	34.6	760	65.3	185
Mont-Joli	329	291	88.4	38	11.5	7
Montréal/Mirabel International	1,306	893	68.3	413	31.6	213
Nanaimo	1,555	474	30.4	1,081	69.5	597
Norman Wells	575	147	25.5	428	74.4	4
North Bay	1,529	677	44.2	852	55.7	273
Ottawa/Gatineau	1,031	164	15.9	867	84.0	54
Peace River	658	350	53.1	308	46.8	16
Penticton	1,109	249	22.4	860	77.5	47
Port Hardy	399	162	40.6	237	59.3	70
Prince Albert	1,337	1,182	88.4	155	11.5	98
Prince Rupert	330	222	67.2	108	32.7	6
Rankin Inlet	804	786	97.7	18	2.2	0
Red Deer Regional	1,465	306	20.8	1,159	79.1	235
Rouyn-Noranda	787	666	84.6	121	15.3	15
Saint John	1,156	842	72.8	314	27.1	28
Sept-Îles	1,465	1,224	83.5	241	16.4	152
Sioux Lookout	2,065	1,570	76.0	495	23.9	189
Smithers	547	405	74.0	142	25.9	192
St Catharines	759	47	6.1	712	93.8	122
Sudbury	2,095	1,616	77.1	479	22.8	68
Terrace	821	495	60.2	326	39.7	82
Thompson	2,118	1,428	67.4	690	32.5	4
Timmins	1,711	1,465	85.6	246	14.3	81
Val-d'Or	895	658	73.5	237	26.4	207
Victoria Harbour	2,559	54	2.1	2,505	97.8	415
Wabush	612	567	92.6	45	7.3	10
Whitecourt	729	73	10.0	656	89.9	56
Williams Lake	608	432	71.0	176	28.9	148
Total of all flight service stations (52)	57,325	31,544	55.0	25,781	45.0	5,122

1. Total excludes runway 88 flights.

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Abbotsford	4,977	420	167	3,082	1,304	4
Boundary Bay	6,573	5	96	6,181	290	1
Calgary International	17,989	12,193	4,513	736	547	0
Calgary/Springbank	4,733	22	63	4,020	627	1
Chicoutimi/St-Honoré	1,002	8	30	809	153	2
Edmonton City Centre	4,989	414	1,850	2,070	654	1
Edmonton International	9,987	6,137	3,537	288	25	0
Edmonton/Villeneuve	1,030	4	6	855	165	0
Fort McMurray	3,334	978	1,271	567	518	0
Gander International	1,333	323	459	396	155	0
Halifax/Robert L Stanfield International	5,474	3,338	1,561	360	215	0
Hamilton	2,013	1,051	482	414	66	0
Kelowna	3,581	1,330	1,048	859	344	0
Kitchener/Waterloo	3,133	165	391	2,343	234	0
Langley	2,471	0	79	1,966	425	1
London	4,690	253	904	3,413	120	0
Moncton/Greater Moncton International	5,257	938	673	3,611	35	0
Montréal/Pierre Elliott Trudeau International	16,131	11,262	4,357	398	114	0
Montréal/St-Hubert	6,497	178	665	5,353	301	0
Oshawa	1,851	9	65	1,698	78	1
Ottawa/Macdonald-Cartier International	9,444	5,249	1,985	1,858	352	0
Pitt Meadows	3,281	0	7	2,925	349	0
Prince George	1,579	443	778	190	168	0
Québec/Jean Lesage International	6,142	1,466	2,570	1,354	752	0
Regina International	2,914	1,450	584	844	36	0
Saskatoon/John G Diefenbaker International	4,990	1,754	1,440	1,758	38	0
Sault Ste. Marie	1,896	55	873	948	20	0
St. John's International	2,484	922	1,241	48	273	0
St-Jean	723	4	64	642	12	1
Thunder Bay	4,681	650	2,517	1,204	310	0
Toronto/Buttonville Municipal	5,029	52	300	4,051	626	0
Toronto/City Centre	3,460	4	1,774	1,347	335	0
Toronto/Lester B Pearson International	31,277	25,999	5,220	43	15	0
Vancouver Harbour	3,600	0	1,932	907	761	0
Vancouver International	23,509	10,631	8,420	2,950	1,508	0
Victoria International	6,774	971	2,087	3,248	468	0
Whitehorse International	828	200	252	310	66	0
Windsor	1,471	89	631	733	18	0
Winnipeg/James Armstrong Richardson International	9,483	4,781	3,671	909	122	0
Winnipeg/St. Andrews	2,683	0	260	2,286	137	0
Yellowknife	3,143	684	1,930	235	294	0
Total of NAV CANADA towers (41)	236,436	94,432	60,753	68,209	13,030	12

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	664	32	179	377	76	0
Campbell River	1,442	25	509	435	473	0
Castlegar	410	9	258	102	41	0
Charlottetown	1,058	263	283	423	89	0
Churchill	788	4	768	0	16	0
Cranbrook	776	60	490	213	13	0
Deer Lake	1,240	176	966	80	18	0
Fort Nelson	785	42	455	95	193	0
Fort St John	1,394	260	552	150	432	0
Fredericton International	3,639	291	499	2,717	132	0
Grande Prairie	2,096	394	853	486	363	0
High Level	532	0	318	134	80	0
Îles-de-la-Madeleine	366	10	208	140	8	0
Inuvik/Mike Zubko	660	121	443	5	91	0
Iqaluit	1,132	334	771	8	19	0
Kamloops	1,622	103	1,117	241	161	0
Kenora	763	8	453	150	152	0
Kingston	1,312	26	513	717	56	0
Kuujuuaq	757	152	585	8	12	0
La Grande Rivière	609	8	560	28	13	0
La Ronge	948	0	708	230	10	0
Lethbridge	1,290	32	427	810	21	0
Lloydminster	525	4	128	311	82	0
Medicine Hat	1,163	19	420	638	86	0
Mont-Joli	329	6	285	30	8	0
Montréal/Mirabel International	1,306	563	323	252	168	0
Nanaimo	1,555	8	429	1,012	106	0
Norman Wells	575	129	211	126	109	0
North Bay	1,529	34	659	419	417	0
Ottawa/Gatineau	1,031	32	144	649	206	0
Peace River	658	12	306	118	222	0
Penticton	1,109	16	303	467	323	0
Port Hardy	399	6	254	52	87	0
Prince Albert	1,337	6	1,166	128	37	0
Prince Rupert	330	31	213	0	86	0
Rankin Inlet	804	118	686	0	0	0
Red Deer Regional	1,465	21	315	1,083	46	0
Rouyn-Noranda	787	92	610	81	4	0
Saint John	1,156	281	461	384	30	0
Sept-Îles	1,465	36	1,097	197	135	0
Sioux Lookout	2,065	4	1,722	263	76	0
Smithers	547	4	469	17	57	0
St Catharines	759	7	17	604	131	0
Sudbury	2,095	41	1,586	244	224	0
Terrace	821	21	516	4	280	0
Thompson	2,118	16	1,861	148	93	0
Timmins	1,711	30	1,497	134	50	0
Val-d'Or	895	107	559	130	99	0
Victoria Harbour	2,559	0	1,621	208	730	0
Wabush	612	8	553	12	39	0
Whitecourt	729	14	67	83	565	0
Williams Lake	608	20	436	74	78	0
Total of all flight service stations (52)	57,325	4,036	30,829	15,417	7,043	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	4,011	319	155	47	11	9	389	36	0	0
Boundary Bay	6,072	377	113	5	2	4	0	0	0	0
Calgary International	893	456	1,307	1,795	1,121	3,502	7,060	864	353	638
Calgary/Springbank	4,330	315	67	16	4	1	0	0	0	0
Chicoutimi/St-Honoré	871	90	31	2	0	8	0	0	0	0
Edmonton City Centre	2,339	471	1,428	526	199	20	2	4	0	0
Edmonton International	181	195	634	1,001	693	2,285	4,289	302	223	184
Edmonton/Villeneuve	961	31	38	0	0	0	0	0	0	0
Fort McMurray	843	361	366	485	239	601	432	0	7	0
Gander International	394	12	137	207	268	172	21	80	10	32
Halifax/Robert L Stanfield International	166	215	324	792	718	1,163	1,591	158	188	159
Hamilton	390	233	151	238	96	17	371	5	416	96
Kelowna	1,063	79	205	545	110	649	910	6	14	0
Kitchener/Waterloo	2,405	187	227	30	175	15	70	24	0	0
Langley	2,334	107	26	0	4	0	0	0	0	0
London	3,326	183	238	50	622	117	136	18	0	0
Moncton/Greater Moncton International	3,482	193	271	262	139	448	199	2	257	4
Montréal/Pierre Elliott Trudeau International	341	149	447	807	2,481	4,736	4,353	1,363	17	1,437
Montréal/St-Hubert	4,975	615	632	150	116	1	4	2	2	0
Oshawa	1,656	100	82	8	2	3	0	0	0	0
Ottawa/Macdonald-Cartier International	1,929	162	948	218	539	2,415	2,360	602	116	155
Pitt Meadows	3,175	91	11	0	4	0	0	0	0	0
Prince George	324	55	126	553	8	350	163	0	0	0
Québec/Jean Lesage International	1,718	305	791	231	1,127	1,184	612	29	7	138
Regina International	563	327	243	357	21	429	786	6	176	6
Saskatoon/John G Diefenbaker International	1,232	608	550	526	185	833	937	6	113	0
Sault Ste. Marie	942	96	466	40	205	123	24	0	0	0
St. John's International	34	30	238	422	748	98	672	153	75	14
St-Jean	457	196	68	2	0	0	0	0	0	0
Thunder Bay	1,277	211	2,109	278	118	394	290	2	2	0
Toronto/Buttonville Municipal	4,355	289	270	49	46	20	0	0	0	0
Toronto/City Centre	1,355	119	532	18	0	1,434	0	2	0	0
Toronto/Lester B Pearson International	12	276	199	1,993	3,037	6,636	12,149	3,449	584	2,942
Vancouver Harbour	46	2,334	1,094	0	126	0	0	0	0	0
Vancouver International	1,136	3,771	1,299	2,553	1,722	4,240	5,381	914	594	1,899
Victoria International	2,897	833	237	398	821	970	515	43	40	20
Whitehorse International	340	66	109	29	0	78	194	12	0	0
Windsor	680	255	39	105	270	92	28	2	0	0
Winnipeg/James Armstrong Richardson International	714	304	2,520	404	809	1,288	2,422	255	671	96
Winnipeg/St. Andrews	2,238	303	120	8	8	0	0	6	0	0
Yellowknife	339	403	732	180	266	699	510	14	0	0
Total of NAV CANADA towers (41)	66,796	15,722	19,580	15,330	17,060	35,034	46,870	8,359	3,865	7,820

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	427	18	148	24	16	4	0	27	0	0
Campbell River	790	45	27	335	233	10	2	0	0	0
Castlegar	135	8	11	81	16	159	0	0	0	0
Charlottetown	348	189	45	145	66	217	48	0	0	0
Churchill	16	4	157	110	174	319	0	8	0	0
Cranbrook	173	53	45	225	144	134	2	0	0	0
Deer Lake	58	40	95	132	745	102	68	0	0	0
Fort Nelson	224	90	131	242	96	2	0	0	0	0
Fort St John	559	37	185	286	98	229	0	0	0	0
Fredericton International	2,648	144	200	60	204	365	18	0	0	0
Grande Prairie	565	299	428	218	10	410	162	4	0	0
High Level	83	127	186	134	2	0	0	0	0	0
Îles-de-la-Madeleine	0	148	46	32	122	16	0	2	0	0
Inuvik/Mike Zubko	48	22	435	2	0	42	107	4	0	0
Iqaluit	0	6	266	53	198	326	195	20	66	2
Kamloops	301	72	139	442	153	459	56	0	0	0
Kenora	180	49	510	6	6	0	0	12	0	0
Kingston	724	31	92	376	52	21	2	14	0	0
Kuujuuaq	12	0	455	2	110	52	90	6	30	0
La Grande Rivière	15	26	92	6	103	365	2	0	0	0
La Ronge	67	173	308	90	187	123	0	0	0	0
Lethbridge	692	142	84	258	87	25	2	0	0	0
Lloydminster	344	45	58	78	0	0	0	0	0	0
Medicine Hat	635	84	176	252	14	2	0	0	0	0
Mont-Joli	18	20	172	4	113	2	0	0	0	0
Montréal/Mirabel International	325	154	15	123	24	206	38	2	262	157
Nanaimo	902	246	35	72	72	228	0	0	0	0
Norman Wells	193	104	117	6	6	22	127	0	0	0
North Bay	773	131	287	82	144	86	0	22	0	4
Ottawa/Gatineau	793	54	58	98	10	12	0	6	0	0
Peace River	233	92	305	16	10	2	0	0	0	0
Penticton	690	98	31	122	9	159	0	0	0	0
Port Hardy	51	77	87	54	120	6	4	0	0	0
Prince Albert	90	73	209	303	266	392	0	4	0	0
Prince Rupert	2	92	30	45	52	109	0	0	0	0
Rankin Inlet	0	0	174	134	270	108	118	0	0	0
Red Deer Regional	949	196	142	133	39	6	0	0	0	0
Rouyn-Noranda	75	10	278	6	180	182	50	6	0	0
Saint John	241	158	109	253	70	298	21	6	0	0
Sept-Îles	162	173	414	97	507	102	10	0	0	0
Sioux Lookout	194	172	1,268	427	2	2	0	0	0	0
Smithers	67	17	87	204	60	112	0	0	0	0
St Catharines	687	55	8	9	0	0	0	0	0	0
Sudbury	267	199	1,188	84	77	260	20	0	0	0
Terrace	216	70	99	154	124	158	0	0	0	0
Thompson	107	334	1,140	18	309	210	0	0	0	0
Timmins	129	146	840	77	397	122	0	0	0	0
Val-d'Or	215	20	212	21	269	71	22	0	65	0
Victoria Harbour	29	1,414	966	0	150	0	0	0	0	0
Wabush	35	12	116	54	395	0	0	0	0	0
Whitecourt	598	65	40	24	2	0	0	0	0	0
Williams Lake	130	10	67	384	13	0	4	0	0	0
Total of all flight service stations (52)	17,215	6,044	12,813	6,593	6,526	6,237	1,168	143	423	163

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Abbotsford							
Domestic	4,926	421	2,500	1,053	728	162	62
Transborder	43	2	20	1	19	0	1
Other international	8	8	0	0	0	0	0
Total	4,977	431	2,520	1,054	747	162	63
Boundary Bay							
Domestic	6,556	7	1,719	3,730	1,037	50	13
Transborder	17	0	3	5	9	0	0
Other international	0	0	0	0	0	0	0
Total	6,573	7	1,722	3,735	1,046	50	13
Calgary International							
Domestic	14,215	11,842	790	559	831	130	63
Transborder	3,144	2,840	72	29	199	1	3
Other international	630	616	4	0	8	0	2
Total	17,989	15,298	866	588	1,038	131	68
Calgary/Springbank							
Domestic	4,696	18	613	2,928	1,107	12	18
Transborder	35	0	4	3	28	0	0
Other international	2	0	2	0	0	0	0
Total	4,733	18	619	2,931	1,135	12	18
Chicoutimi/St-Honoré							
Domestic	1,002	5	176	774	34	4	9
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,002	5	176	774	34	4	9
Edmonton City Centre							
Domestic	4,961	1,459	546	1,796	763	367	30
Transborder	27	4	1	0	21	1	0
Other international	1	0	1	0	0	0	0
Total	4,989	1,463	548	1,796	784	368	30
Edmonton International							
Domestic	8,274	7,496	411	72	224	24	47
Transborder	1,417	1,339	21	9	47	0	1
Other international	296	293	0	0	3	0	0
Total	9,987	9,128	432	81	274	24	48
Edmonton/Villeneuve							
Domestic	1,029	0	199	704	124	2	0
Transborder	0	0	0	0	0	0	0
Other international	1	0	1	0	0	0	0
Total	1,030	0	200	704	124	2	0
Fort McMurray							
Domestic	3,318	2,101	549	296	321	32	19
Transborder	5	3	1	0	1	0	0
Other international	11	1	8	2	0	0	0
Total	3,334	2,105	558	298	322	32	19
Gander International							
Domestic	1,074	332	602	9	23	10	98
Transborder	116	24	0	8	33	0	51
Other international	143	38	0	9	39	0	57
Total	1,333	394	602	26	95	10	206
Halifax/Robert L Stanfield International							
Domestic	4,300	3,721	225	45	155	28	126
Transborder	692	625	2	2	42	0	21
Other international	482	359	94	1	13	0	15
Total	5,474	4,705	321	48	210	28	162

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							
Hamilton							
Domestic	1,603	935	259	120	207	69	13
Transborder	372	223	42	2	101	4	0
Other international	38	25	0	0	13	0	0
Total	2,013	1,183	301	122	321	73	13
Kelowna							
Domestic	3,296	1,935	239	765	280	54	23
Transborder	247	180	2	4	59	0	2
Other international	38	38	0	0	0	0	0
Total	3,581	2,153	241	769	339	54	25
Kitchener/Waterloo							
Domestic	2,825	216	1,677	386	512	8	26
Transborder	275	154	44	2	75	0	0
Other international	33	31	0	0	2	0	0
Total	3,133	401	1,721	388	589	8	26
Langley							
Domestic	2,466	83	124	1,303	901	30	25
Transborder	5	0	0	1	4	0	0
Other international	0	0	0	0	0	0	0
Total	2,471	83	124	1,304	905	30	25
London							
Domestic	4,388	738	846	2,331	376	85	12
Transborder	270	176	9	0	84	0	1
Other international	32	32	0	0	0	0	0
Total	4,690	946	855	2,331	460	85	13
Moncton/Greater Moncton International							
Domestic	5,168	1,429	3,420	75	120	99	25
Transborder	66	59	0	0	6	0	1
Other international	23	20	1	0	1	1	0
Total	5,257	1,508	3,421	75	127	100	26
Montréal/Pierre Elliott Trudeau International							
Domestic	8,603	7,157	484	253	508	187	14
Transborder	5,335	4,851	63	71	339	2	9
Other international	2,193	2,102	21	20	39	0	11
Total	16,131	14,110	568	344	886	189	34
Montréal/St-Hubert							
Domestic	6,364	3,418	380	1,603	768	76	119
Transborder	119	10	1	3	101	4	0
Other international	14	0	0	0	13	0	1
Total	6,497	3,428	381	1,606	882	80	120
Oshawa							
Domestic	1,842	122	90	1,161	439	25	5
Transborder	9	1	1	1	6	0	0
Other international	0	0	0	0	0	0	0
Total	1,851	123	91	1,162	445	25	5
Ottawa/Macdonald-Cartier International							
Domestic	7,161	4,278	317	1,671	202	494	199
Transborder	1,880	1,752	19	5	64	15	25
Other international	403	381	5	4	7	0	6
Total	9,444	6,411	341	1,680	273	509	230
Pitt Meadows							
Domestic	3,273	13	1,091	1,160	958	35	16
Transborder	6	0	3	0	3	0	0
Other international	2	0	0	0	2	0	0
Total	3,281	13	1,094	1,160	963	35	16

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							
Prince George							
Domestic	1,560	1,104	270	22	110	51	3
Transborder	11	2	0	0	9	0	0
Other international	8	8	0	0	0	0	0
Total	1,579	1,114	270	22	119	51	3
Québec/Jean Lesage International							
Domestic	5,401	3,008	1,088	583	360	229	133
Transborder	431	369	11	10	32	0	9
Other international	310	274	10	5	18	0	3
Total	6,142	3,651	1,109	598	410	229	145
Regina International							
Domestic	2,626	1,583	444	21	144	194	240
Transborder	168	134	5	1	28	0	0
Other international	120	120	0	0	0	0	0
Total	2,914	1,837	449	22	172	194	240
Saskatoon/John G Diefenbaker International							
Domestic	4,655	2,418	1,042	443	294	325	133
Transborder	238	194	6	3	33	0	2
Other international	97	95	0	0	2	0	0
Total	4,990	2,707	1,048	446	329	325	135
Sault Ste. Marie							
Domestic	1,873	781	125	869	55	25	18
Transborder	11	0	3	4	4	0	0
Other international	12	12	0	0	0	0	0
Total	1,896	793	128	873	59	25	18
St. John's International							
Domestic	2,132	1,378	630	11	29	47	37
Transborder	169	60	0	2	17	0	90
Other international	183	69	0	13	19	2	80
Total	2,484	1,507	630	26	65	49	207
St-Jean							
Domestic	721	218	143	160	164	28	8
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	723	218	143	160	166	28	8
Thunder Bay							
Domestic	4,542	2,451	763	1,104	106	87	31
Transborder	132	110	5	3	11	2	1
Other international	7	7	0	0	0	0	0
Total	4,681	2,568	768	1,107	117	89	32
Toronto/Buttonville Municipal							
Domestic	4,873	269	623	2,599	1,355	25	2
Transborder	155	47	9	10	89	0	0
Other international	1	0	0	0	1	0	0
Total	5,029	316	632	2,609	1,445	25	2
Toronto/City Centre							
Domestic	2,815	984	654	958	191	16	12
Transborder	643	560	20	4	57	0	2
Other international	2	2	0	0	0	0	0
Total	3,460	1,546	674	962	248	16	14
Toronto/Lester B Pearson International							
Domestic	13,114	12,285	258	105	415	33	18
Transborder	13,684	13,054	79	69	481	0	1
Other international	4,479	4,419	19	21	20	0	0
Total	31,277	29,758	356	195	916	33	19

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							
Vancouver Harbour							
Domestic	3,547	3,251	210	26	16	4	40
Transborder	53	48	5	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	3,600	3,299	215	26	16	4	40
Vancouver International							
Domestic	18,041	15,214	1,219	349	511	557	191
Transborder	4,105	3,802	15	19	265	0	4
Other international	1,363	1,290	15	3	15	29	11
Total	23,509	20,306	1,249	371	791	586	206
Victoria International							
Domestic	6,201	2,333	1,985	781	802	80	220
Transborder	530	368	15	8	137	0	2
Other international	43	29	9	2	3	0	0
Total	6,774	2,730	2,009	791	942	80	222
Whitehorse International							
Domestic	812	416	191	27	125	28	25
Transborder	16	4	0	0	7	0	5
Other international	0	0	0	0	0	0	0
Total	828	420	191	27	132	28	30
Windsor							
Domestic	1,405	470	683	79	128	40	5
Transborder	45	8	11	4	19	0	3
Other international	21	16	1	0	4	0	0
Total	1,471	494	695	83	151	40	8
Winnipeg/James Armstrong Richardson International							
Domestic	8,160	6,801	423	75	125	261	475
Transborder	1,090	992	20	17	48	1	12
Other international	233	229	1	1	2	0	0
Total	9,483	8,022	444	93	175	262	487
Winnipeg/St. Andrews							
Domestic	2,676	372	1,442	649	161	2	50
Transborder	7	0	2	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	2,683	372	1,444	649	166	2	50
Yellowknife							
Domestic	3,141	2,584	357	32	30	81	57
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	3,143	2,584	357	32	32	81	57
Total of NAV CANADA towers (41)							
Domestic	189,635	105,646	29,807	31,687	15,739	4,096	2,660
Transborder	35,572	31,995	514	300	2,487	30	246
Other international	11,229	10,514	192	81	224	32	186
Total	236,436	148,155	30,513	32,068	18,450	4,158	3,092

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	660	99	183	72	131	32	143
Transborder	4	1	0	0	1	0	2
Other international	0	0	0	0	0	0	0
Total	664	100	183	72	132	32	145
Campbell River							
Domestic	1,427	483	424	242	218	37	23
Transborder	15	0	0	0	15	0	0
Other international	0	0	0	0	0	0	0
Total	1,442	483	424	242	233	37	23
Castlegar							
Domestic	402	246	40	80	32	0	4
Transborder	8	1	1	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	410	247	41	80	38	0	4
Charlottetown							
Domestic	1,050	582	124	172	113	44	15
Transborder	5	0	0	0	5	0	0
Other international	3	2	0	0	1	0	0
Total	1,058	584	124	172	119	44	15
Churchill							
Domestic	788	746	16	0	5	4	17
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	788	746	16	0	5	4	17
Cranbrook							
Domestic	727	510	44	14	138	11	10
Transborder	46	26	2	0	16	0	2
Other international	3	2	0	0	1	0	0
Total	776	538	46	14	155	11	12
Deer Lake							
Domestic	1,237	1,010	172	47	4	4	0
Transborder	1	1	0	0	0	0	0
Other international	2	2	0	0	0	0	0
Total	1,240	1,013	172	47	4	4	0
Fort Nelson							
Domestic	785	433	191	101	42	2	16
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	785	433	191	101	42	2	16
Fort St John							
Domestic	1,393	740	475	33	105	28	12
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,394	740	475	33	106	28	12
Fredericton International							
Domestic	3,620	698	2,616	78	75	79	74
Transborder	13	0	0	0	10	3	0
Other international	6	6	0	0	0	0	0
Total	3,639	704	2,616	78	85	82	74
Grande Prairie							
Domestic	2,096	1,149	570	57	277	37	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,096	1,149	570	57	277	37	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							
High Level							
Domestic	532	192	289	0	29	22	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	532	192	289	0	29	22	0
Îles-de-la-Madeleine							
Domestic	364	190	126	4	2	40	2
Transborder	0	0	0	0	0	0	0
Other international	2	2	0	0	0	0	0
Total	366	192	126	4	2	40	2
Inuvik/Mike Zubko							
Domestic	660	191	421	0	24	18	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	660	191	421	0	24	18	6
Iqaluit							
Domestic	1,072	928	17	40	27	48	12
Transborder	18	5	8	0	5	0	0
Other international	42	15	0	8	15	0	4
Total	1,132	948	25	48	47	48	16
Kamloops							
Domestic	1,602	1,106	141	55	194	69	37
Transborder	20	1	1	0	18	0	0
Other international	0	0	0	0	0	0	0
Total	1,622	1,107	142	55	212	69	37
Kenora							
Domestic	761	328	321	17	51	16	28
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	763	328	321	17	53	16	28
Kingston							
Domestic	1,296	412	306	302	227	25	24
Transborder	16	7	0	0	9	0	0
Other international	0	0	0	0	0	0	0
Total	1,312	419	306	302	236	25	24
Kuujuuaq							
Domestic	757	697	18	0	16	20	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	757	697	18	0	16	20	6
La Grande Rivière							
Domestic	609	484	107	2	12	4	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	609	484	107	2	12	4	0
La Ronge							
Domestic	948	852	6	19	2	61	8
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	948	852	6	19	2	61	8
Lethbridge							
Domestic	1,229	416	13	530	221	15	34
Transborder	61	1	1	9	50	0	0
Other international	0	0	0	0	0	0	0
Total	1,290	417	14	539	271	15	34
Lloydminster							
Domestic	524	98	187	26	179	12	22
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	525	98	187	26	180	12	22

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	1,160	646	84	225	176	12	17
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,163	646	84	225	179	12	17
Mont-Joli							
Domestic	328	245	38	18	7	20	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	329	245	38	18	8	20	0
Montréal/Mirabel International							
Domestic	1,140	560	203	41	291	14	31
Transborder	162	147	0	0	13	0	2
Other international	4	2	0	2	0	0	0
Total	1,306	709	203	43	304	14	33
Nanaimo							
Domestic	1,542	405	448	153	471	49	16
Transborder	13	0	2	1	8	0	2
Other international	0	0	0	0	0	0	0
Total	1,555	405	450	154	479	49	18
Norman Wells							
Domestic	575	441	119	4	5	4	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	575	441	119	4	5	4	2
North Bay							
Domestic	1,521	469	379	375	224	26	48
Transborder	8	0	2	1	3	2	0
Other international	0	0	0	0	0	0	0
Total	1,529	469	381	376	227	28	48
Ottawa/Gatineau							
Domestic	1,029	109	143	246	432	81	18
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,031	109	143	246	434	81	18
Peace River							
Domestic	658	352	238	8	30	30	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	658	352	238	8	30	30	0
Penticton							
Domestic	1,099	285	527	47	170	12	58
Transborder	10	0	0	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	1,109	285	527	47	180	12	58
Port Hardy							
Domestic	396	261	38	6	22	55	14
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	399	261	38	6	25	55	14
Prince Albert							
Domestic	1,336	1,052	64	38	50	110	22
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,337	1,052	64	38	51	110	22

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	328	199	86	13	2	28	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	330	199	86	13	4	28	0
Rankin Inlet							
Domestic	804	790	2	2	2	8	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	804	790	2	2	2	8	0
Red Deer Regional							
Domestic	1,460	238	513	201	469	30	9
Transborder	5	1	0	0	3	0	1
Other international	0	0	0	0	0	0	0
Total	1,465	239	513	201	472	30	10
Rouyn-Noranda							
Domestic	787	491	125	24	103	38	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	787	491	125	24	103	38	6
Saint John							
Domestic	1,102	638	267	14	149	2	32
Transborder	47	0	0	2	45	0	0
Other international	7	4	0	0	3	0	0
Total	1,156	642	267	16	197	2	32
Sept-Îles							
Domestic	1,457	1,027	280	38	58	54	0
Transborder	6	2	0	0	4	0	0
Other international	2	2	0	0	0	0	0
Total	1,465	1,031	280	38	62	54	0
Sioux Lookout							
Domestic	2,065	1,600	375	62	15	13	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,065	1,600	375	62	15	13	0
Smithers							
Domestic	547	437	71	5	18	16	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	547	437	71	5	18	16	0
St Catharines							
Domestic	735	1	379	47	186	22	100
Transborder	24	2	11	3	8	0	0
Other international	0	0	0	0	0	0	0
Total	759	3	390	50	194	22	100
Sudbury							
Domestic	2,091	1,321	478	57	168	55	12
Transborder	4	0	2	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	2,095	1,321	480	57	170	55	12
Terrace							
Domestic	820	502	239	54	5	20	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	821	502	239	54	6	20	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	2,118	1,844	122	1	8	139	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,118	1,844	122	1	8	139	4
Timmins							
Domestic	1,707	1,346	173	11	131	46	0
Transborder	4	0	2	1	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,711	1,346	175	12	132	46	0
Val-d'Or							
Domestic	895	618	85	10	164	16	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	895	618	85	10	164	16	2
Victoria Harbour							
Domestic	2,405	2,288	13	0	11	89	4
Transborder	154	0	0	0	154	0	0
Other international	0	0	0	0	0	0	0
Total	2,559	2,288	13	0	165	89	4
Wabush							
Domestic	612	494	88	4	26	0	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	612	494	88	4	26	0	0
Whitecourt							
Domestic	729	32	400	245	42	10	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	729	32	400	245	42	10	0
Williams Lake							
Domestic	608	430	52	12	104	8	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	608	430	52	12	104	8	2
Total of all flight service stations (52)							
Domestic	56,593	31,711	12,836	3,852	5,663	1,635	896
Transborder	661	195	32	17	403	5	9
Other international	71	37	0	10	20	0	4
Total	57,325	31,943	12,868	3,879	6,086	1,640	909

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	10	11,479	3	11	122	3	848
Boundary Bay	5	14,965	28	11	117	19	842
Calgary International	3	18,097	18	18	58	11	766
Calgary/Springbank	8	12,068	17	13	108	27	778
Chicoutimi/St-Honoré	34	2,702	6	13	89	16	317
Edmonton City Centre	23	5,915	4	13	62	4	385
Edmonton International	13	10,143	3	11	46	11	473
Edmonton/Villeneuve	27	4,914	17	11	124	17	414
Fort McMurray	32	3,841	8	15	34	10	207
Gander International	38	2,137	5	10	38	12	211
Halifax/Robert L. Stanfield International	24	5,774	4	15	44	17	343
Hamilton	39	2,013	6	15	16	6	112
Kelowna	26	5,336	17	14	58	17	286
Kitchener/Waterloo	21	6,855	6	12	79	24	504
Langley	25	5,505	15	12	82	21	362
London	11	11,102	24	16	97	24	855
Moncton/Greater Moncton International	15	8,856	18	17	65	25	681
Montréal/Pierre Elliott Trudeau International	4	16,131	5	18	62	13	658
Montréal/St-Hubert	6	14,665	16	15	163	17	1,234
Oshawa	29	4,299	24	16	67	28	362
Ottawa/Macdonald-Cartier International	9	11,797	17	16	82	17	659
Pitt Meadows	14	9,143	20	11	107	13	555
Prince George	37	2,162	25	9	48	25	145
Québec/Jean Lesage International	17	8,125	7	11	73	24	579
Regina International	31	3,948	27	15	39	28	214
Saskatoon/John G. Diefenbaker International	20	7,180	21	16	63	5	438
Sault Ste. Marie	30	4,202	11	16	86	4	431
St. John's International	35	2,633	12	13	24	25	150
St-Jean	40	1,523	17	16	39	2	182
Thunder Bay	18	7,786	20	19	79	20	495
Toronto/Buttonville Municipal	16	8,679	2	15	88	2	670
Toronto/City Centre	22	6,652	14	11	66	17	444
Toronto/Lester B. Pearson International	1	31,277	19	19	93	20	1,259
Vancouver Harbour	33	3,626	4	16	31	4	174
Vancouver International	2	23,509	6	16	95	19	972
Victoria International	7	13,679	21	15	109	20	675
Whitehorse International	41	1,380	24	17	27	19	124
Windsor	36	2,165	16	11	39	16	193
Winnipeg/James Armstrong Richardson International	12	10,205	13	12	51	18	514
Winnipeg/St. Andrews	19	7,385	14	14	91	5	528
Yellowknife	28	4,833	21	15	70	22	247

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	25	1,346	3	16	41	13	184
Campbell River	3	3,238	6	13	90	20	336
Castlegar	50	458	9	13	14	9	48
Charlottetown	23	1,443	7	15	30	25	169
Churchill	39	788	17	18	8	26	43
Cranbrook	33	902	7	12	23	7	52
Deer Lake	26	1,334	11	10	23	10	120
Fort Nelson	35	849	3	11	50	3	100
Fort St John	10	2,405	28	14	61	28	259
Fredericton International	1	6,127	18	17	61	25	518
Grande Prairie	5	2,926	9	14	47	9	180
High Level	43	632	6	14	30	13	52
Îles-de-la-Madeleine	51	374	24	12	8	24	32
Inuvik/Mike Zubko	41	704	5	10	25	27	53
Iqaluit	28	1,250	12	12	22	12	76
Kamloops	13	2,292	18	16	52	19	162
Kenora	30	1,009	25	14	32	6	86
Kingston	14	2,168	21	15	39	28	171
Kuujuuaq	36	841	10	11	21	11	61
La Grande Rivière	45	611	23	10	8	17	37
La Ronge	31	996	5	19	13	5	77
Lethbridge	8	2,500	28	17	44	12	156
Lloydminster	37	835	8	16	28	4	97
Medicine Hat	18	1,735	5	11	32	5	174
Mont-Joli	52	331	24	17	7	24	29
Montréal/Mirabel International	20	1,678	21	14	25	25	135
Nanaimo	17	1,941	7	11	37	15	129
Norman Wells	46	589	12	15	13	23	43
North Bay	2	3,639	2	13	63	2	440
Ottawa/Gatineau	4	3,049	9	13	54	9	265
Peace River	42	676	18	9	9	23	40
Penticton	9	2,457	6	13	60	6	253
Port Hardy	48	467	12	11	25	12	69
Prince Albert	24	1,365	18	14	13	5	82
Prince Rupert	49	466	25	10	17	25	59
Rankin Inlet	38	804	11	12	9	13	47
Red Deer Regional	6	2,853	5	15	41	5	272
Rouyn-Noranda	34	861	5	11	21	5	74
Saint John	29	1,216	25	15	19	25	111
Sept-Îles	22	1,511	6	11	17	5	77
Sioux Lookout	16	2,111	5	17	17	5	140
Smithers	47	549	9	11	9	9	32
St Catharines	27	1,311	24	19	39	15	123
Sudbury	11	2,395	6	14	53	6	190
Terrace	32	907	12	12	29	10	70
Thompson	15	2,156	4	11	17	5	117
Timmins	19	1,717	4	14	16	13	87
Val-d'Or	21	1,529	24	15	71	24	246
Victoria Harbour	7	2,559	3	8	21	16	132
Wabush	44	612	3	16	9	3	38
Whitecourt	12	2,361	11	14	53	12	274
Williams Lake	40	722	15	15	21	12	50

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	17	4,977	11	15	37	4	279
Boundary Bay	9	6,573	15	15	64	19	398
Calgary International	3	17,989	18	18	58	11	762
Calgary/Springbank	18	4,733	8	11	45	21	341
Chicoutimi/St-Honoré	39	1,002	17	14	21	17	113
Edmonton City Centre	16	4,989	5	17	35	4	285
Edmonton International	5	9,987	19	8	46	12	459
Edmonton/Villeneuve	38	1,030	17	11	14	17	80
Fort McMurray	24	3,334	10	16	22	10	187
Gander International	37	1,333	2	14	12	27	97
Halifax/Robert L Stanfield International	12	5,474	17	15	25	17	273
Hamilton	32	2,013	6	15	16	6	112
Kelowna	22	3,581	17	14	24	18	169
Kitchener/Waterloo	27	3,133	8	16	35	28	226
Langley	31	2,471	14	14	32	7	153
London	19	4,690	2	15	40	24	321
Moncton/Greater Moncton International	13	5,257	18	15	33	25	406
Montréal/Pierre Elliott Trudeau International	4	16,131	5	18	62	13	658
Montréal/St-Hubert	10	6,497	17	15	67	17	557
Oshawa	34	1,851	9	14	25	28	162
Ottawa/Macdonald-Cartier International	7	9,444	9	14	45	13	460
Pitt Meadows	25	3,281	21	11	41	21	221
Prince George	35	1,579	18	10	13	6	79
Québec/Jean Lesage International	11	6,142	17	14	36	24	355
Regina International	28	2,914	18	16	19	4	137
Saskatoon/John G Diefenbaker International	15	4,990	27	15	32	4	264
Sault Ste. Marie	33	1,896	2	9	16	13	120
St. John's International	30	2,484	6	7	16	6	123
St-Jean	41	723	17	16	17	17	83
Thunder Bay	20	4,681	20	15	32	20	259
Toronto/Butterville Municipal	14	5,029	2	15	50	24	388
Toronto/City Centre	23	3,460	14	16	24	17	180
Toronto/Lester B Pearson International	1	31,277	19	19	93	20	1,259
Vancouver Harbour	21	3,600	4	16	31	4	174
Vancouver International	2	23,509	6	16	95	19	972
Victoria International	8	6,774	15	15	37	20	320
Whitehorse International	40	828	9	13	8	23	47
Windsor	36	1,471	17	19	14	24	100
Winnipeg/James Armstrong Richardson International	6	9,483	18	19	42	18	468
Winnipeg/St. Andrews	29	2,683	19	11	32	13	177
Yellowknife	26	3,143	15	17	19	13	145

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	38	664	3	14	14	3	64
Campbell River	13	1,442	16	14	17	13	100
Castlegar	48	410	13	14	7	21	30
Charlottetown	24	1,058	17	19	13	25	99
Churchill	30	788	17	18	8	26	43
Cranbrook	33	776	3	11	8	18	35
Deer Lake	19	1,240	26	18	12	26	79
Fort Nelson	32	785	10	9	15	10	61
Fort St John	14	1,394	3	15	13	18	90
Fredericton International	1	3,639	9	20	26	25	318
Grande Prairie	4	2,096	11	11	15	4	108
High Level	46	532	3	12	10	4	30
Îles-de-la-Madeleine	50	366	16	8	5	26	25
Inuvik/Mike Zubko	39	660	1	16	9	23	48
Iqaluit	22	1,132	10	14	9	2	59
Kamloops	8	1,622	10	11	21	10	100
Kenora	34	763	13	12	8	20	49
Kingston	16	1,312	14	14	14	14	87
Kuujuuaq	36	757	27	11	9	27	57
La Grande Rivière	42	609	23	10	8	17	37
La Ronge	26	948	4	8	10	5	67
Lethbridge	18	1,290	8	14	15	8	89
Lloydminster	47	525	5	12	8	5	49
Medicine Hat	20	1,163	5	15	17	5	86
Mont-Joli	52	329	24	17	7	24	29
Montréal/Mirabel International	17	1,306	25	16	13	25	97
Nanaimo	9	1,555	15	13	19	28	94
Norman Wells	44	575	23	10	12	23	43
North Bay	10	1,529	9	11	21	9	128
Ottawa/Gatineau	25	1,031	21	13	28	15	84
Peace River	40	658	18	9	9	4	38
Penticton	23	1,109	13	14	11	18	69
Port Hardy	49	399	5	15	7	23	24
Prince Albert	15	1,337	18	14	13	5	78
Prince Rupert	51	330	22	14	6	24	21
Rankin Inlet	29	804	11	12	9	13	47
Red Deer Regional	11	1,465	7	14	24	7	95
Rouyn-Noranda	31	787	15	14	8	26	44
Saint John	21	1,156	22	5	13	25	81
Sept-Îles	12	1,465	6	11	15	5	77
Sioux Lookout	6	2,065	5	10	16	27	116
Smithers	45	547	9	11	9	9	32
St Catharines	35	759	15	11	17	15	69
Sudbury	5	2,095	28	12	18	13	117
Terrace	28	821	25	16	13	25	64
Thompson	3	2,118	5	8	13	5	117
Timmins	7	1,711	4	14	16	19	85
Val-d'Or	27	895	2	13	7	17	48
Victoria Harbour	2	2,559	3	8	21	16	132
Wabush	41	612	3	16	9	3	38
Whitecourt	37	729	11	14	13	12	54
Williams Lake	43	608	6	15	7	12	36

Table 10-1
Local movements, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	5	6,502	3	11	100	3	570
Boundary Bay	1	8,392	4	11	82	4	494
Calgary International	36	108	7	10	20	7	28
Calgary/Springbank	3	7,335	27	9	86	27	528
Chicoutimi/St-Honoré	22	1,700	6	13	76	16	272
Edmonton City Centre	25	926	19	9	32	4	100
Edmonton International	34	156	3	11	16	10	26
Edmonton/Villeneuve	9	3,884	17	11	110	17	334
Fort McMurray	32	507	8	15	24	27	76
Gander International	26	804	16	16	34	12	122
Halifax/Robert L Stanfield International	33	300	4	15	22	17	70
Hamilton	0	0	0	0	0	0	0
Kelowna	21	1,755	9	14	38	4	124
Kitchener/Waterloo	10	3,722	6	12	60	2	306
Langley	15	3,034	4	14	56	21	212
London	6	6,412	13	19	76	24	534
Moncton/Greater Moncton International	12	3,599	1	16	40	22	364
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	2	8,168	16	15	138	17	677
Oshawa	16	2,448	24	16	56	24	220
Ottawa/Macdonald-Cartier International	17	2,353	17	16	50	17	202
Pitt Meadows	7	5,862	20	11	80	13	380
Prince George	30	583	25	9	36	7	72
Québec/Jean Lesage International	20	1,983	7	11	55	24	224
Regina International	24	1,034	15	11	24	28	84
Saskatoon/John G Diefenbaker International	19	2,190	21	16	46	5	189
Sault Ste. Marie	18	2,306	11	16	72	4	316
St. John's International	35	149	12	13	16	25	38
St-Jean	27	800	9	12	32	2	126
Thunder Bay	14	3,105	20	19	70	5	260
Toronto/Buttonville Municipal	11	3,650	6	11	48	2	322
Toronto/City Centre	13	3,192	16	17	48	16	268
Toronto/Lester B Pearson International	0	0	0	0	0	0	0
Vancouver Harbour	37	26	21	8	16	21	18
Vancouver International	0	0	0	0	0	0	0
Victoria International	4	6,905	21	15	84	21	360
Whitehorse International	31	552	14	15	22	18	86
Windsor	29	694	16	11	32	16	94
Winnipeg/James Armstrong Richardson International	28	722	13	12	24	17	66
Winnipeg/St. Andrews	8	4,702	25	19	80	5	354
Yellowknife	23	1,690	22	12	62	21	154

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	682	13	14	34	13	150
Campbell River	4	1,796	6	13	80	20	236
Castlegar	36	48	9	13	10	9	28
Charlottetown	18	385	7	15	26	25	70
Churchill	0	0	0	0	0	0	0
Cranbrook	24	126	7	12	22	7	24
Deer Lake	28	94	10	11	18	10	68
Fort Nelson	33	64	3	11	40	3	40
Fort St John	9	1,011	28	14	54	28	218
Fredericton International	1	2,488	3	10	38	18	248
Grande Prairie	11	830	9	14	42	9	94
High Level	27	100	6	14	28	6	28
Îles-de-la-Madeleine	44	8	24	12	6	24	8
Inuvik/Mike Zubko	39	44	5	10	16	5	20
Iqaluit	25	118	12	12	16	12	26
Kamloops	13	670	18	16	42	2	94
Kenora	22	246	25	14	30	6	42
Kingston	10	856	21	14	28	28	92
Kuujuuaq	30	84	10	11	18	11	26
La Grande Rivière	46	2	18	11	2	18	2
La Ronge	35	48	19	11	6	5	10
Lethbridge	8	1,210	28	17	38	12	96
Lloydminster	20	310	4	18	22	4	62
Medicine Hat	15	572	6	14	28	5	88
Mont-Joli	48	2	10	10	2	10	2
Montréal/Mirabel International	19	372	21	14	22	17	50
Nanaimo	17	386	7	11	30	7	62
Norman Wells	43	14	25	8	6	25	6
North Bay	2	2,110	2	13	54	2	338
Ottawa/Gatineau	3	2,018	9	13	44	9	198
Peace River	42	18	2	13	4	2	6
Penticton	7	1,348	6	13	56	6	202
Port Hardy	32	68	12	11	22	12	50
Prince Albert	41	28	13	10	6	13	12
Prince Rupert	23	136	25	10	16	25	43
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	6	1,388	10	18	34	5	180
Rouyn-Noranda	31	74	5	10	16	5	32
Saint John	34	60	25	15	14	25	30
Sept-Îles	38	46	8	19	12	8	12
Sioux Lookout	37	46	5	20	10	5	26
Smithers	47	2	10	14	2	10	2
St Catharines	16	552	24	19	34	2	70
Sudbury	21	300	6	14	46	6	94
Terrace	29	86	12	12	24	10	30
Thompson	40	38	3	19	8	3	12
Timmins	45	6	13	17	4	13	4
Val-d'Or	14	634	24	15	64	24	200
Victoria Harbour	0	0	0	0	0	0	0
Wabush	0	0	0	0	0	0	0
Whitecourt	5	1,632	3	14	44	12	220
Williams Lake	26	114	15	15	18	4	24

Table 11-1
Local movements - civil, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	5	6,481	3	11	100	3	570
Boundary Bay	1	8,392	4	11	82	4	494
Calgary International	36	107	7	10	20	7	28
Calgary/Springbank	3	7,331	27	9	86	27	528
Chicoutimi/St-Honoré	22	1,700	6	13	76	16	272
Edmonton City Centre	25	922	19	9	32	4	98
Edmonton International	35	140	3	11	16	3	24
Edmonton/Villeneuve	9	3,884	17	11	110	17	334
Fort McMurray	32	493	8	15	24	27	76
Gander International	28	614	16	16	34	12	92
Halifax/Robert L Stanfield International	33	238	17	18	16	17	64
Hamilton	0	0	0	0	0	0	0
Kelowna	21	1,748	9	14	38	4	124
Kitchener/Waterloo	10	3,722	6	12	60	2	306
Langley	15	3,020	4	14	56	21	212
London	6	6,402	13	19	76	24	534
Moncton/Greater Moncton International	12	3,589	1	16	40	22	364
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	2	8,168	16	15	138	17	677
Oshawa	16	2,448	24	16	56	24	220
Ottawa/Macdonald-Cartier International	18	2,286	17	16	50	17	190
Pitt Meadows	7	5,862	20	11	80	13	380
Prince George	29	583	25	9	36	7	72
Québec/Jean Lesage International	20	1,981	7	11	55	24	224
Regina International	24	998	15	11	24	21	78
Saskatoon/John G Diefenbaker International	19	2,138	21	16	46	5	189
Sault Ste. Marie	17	2,298	11	16	72	4	316
St. John's International	34	146	12	13	16	25	38
St-Jean	26	800	9	12	32	2	126
Thunder Bay	14	3,083	20	19	70	5	260
Toronto/Buttonville Municipal	11	3,650	6	11	48	2	322
Toronto/City Centre	13	3,192	16	17	48	16	268
Toronto/Lester B Pearson International	0	0	0	0	0	0	0
Vancouver Harbour	37	26	21	8	16	21	18
Vancouver International	0	0	0	0	0	0	0
Victoria International	4	6,567	21	15	76	21	352
Whitehorse International	30	506	14	15	22	18	86
Windsor	27	674	16	11	32	16	94
Winnipeg/James Armstrong Richardson International	31	498	13	12	24	17	52
Winnipeg/St. Andrews	8	4,696	25	19	80	5	354
Yellowknife	23	1,656	22	12	62	21	154

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	672	13	14	34	13	144
Campbell River	4	1,796	6	13	80	20	236
Castlegar	35	48	9	13	10	9	28
Charlottetown	17	385	7	15	26	25	70
Churchill	0	0	0	0	0	0	0
Cranbrook	24	126	7	12	22	7	24
Deer Lake	28	94	10	11	18	10	68
Fort Nelson	33	64	3	11	40	3	40
Fort St John	9	1,011	28	14	54	28	218
Fredericton International	1	2,480	3	10	38	18	242
Grande Prairie	11	830	9	14	42	9	94
High Level	27	100	6	14	28	6	28
Îles-de-la-Madeleine	44	8	24	12	6	24	8
Inuvik/Mike Zubko	39	44	5	10	16	5	20
Iqaluit	25	118	12	12	16	12	26
Kamloops	13	670	18	16	42	2	94
Kenora	22	208	25	14	30	25	30
Kingston	10	844	21	14	28	28	92
Kuujuuaq	30	84	10	11	18	11	26
La Grande Rivière	47	2	18	11	2	18	2
La Ronge	36	48	19	11	6	5	10
Lethbridge	8	1,210	28	17	38	12	96
Lloydminster	20	310	4	18	22	4	62
Medicine Hat	15	572	6	14	28	5	88
Mont-Joli	46	2	10	10	2	10	2
Montréal/Mirabel International	19	346	21	14	22	17	48
Nanaimo	18	374	7	11	30	7	62
Norman Wells	43	14	25	8	6	25	6
North Bay	2	2,102	2	13	54	2	338
Ottawa/Gatineau	3	2,018	9	13	44	9	198
Peace River	42	18	2	13	4	2	6
Penticton	7	1,348	6	13	56	6	202
Port Hardy	32	68	12	11	22	12	50
Prince Albert	41	28	13	10	6	13	12
Prince Rupert	23	136	25	10	16	25	43
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	6	1,388	10	18	34	5	180
Rouyn-Noranda	31	74	5	10	16	5	32
Saint John	34	52	25	15	14	25	30
Sept-Îles	37	46	8	19	12	8	12
Sioux Lookout	38	46	5	20	10	5	26
Smithers	48	2	10	14	2	10	2
St Catharines	16	552	24	19	34	2	70
Sudbury	21	300	6	14	46	6	94
Terrace	29	86	12	12	24	10	30
Thompson	40	38	3	19	8	3	12
Timmins	45	6	13	17	4	13	4
Val-d'Or	14	634	24	15	64	24	200
Victoria Harbour	0	0	0	0	0	0	0
Wabush	0	0	0	0	0	0	0
Whitecourt	5	1,632	3	14	44	12	220
Williams Lake	26	114	15	15	18	4	24

Table 12-1
Local movements - military, peak hour and peak day — NAV CANADA towers

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	11	21	6	13	6	6	18
Boundary Bay	0	0	0	0	0	0	0
Calgary International	25	1	3	11	1	3	1
Calgary/Springbank	22	4	24	15	2	24	2
Chicoutimi/St-Honoré	0	0	0	0	0	0	0
Edmonton City Centre	21	4	4	14	2	4	2
Edmonton International	13	16	15	16	6	15	6
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	14	14	1	12	14	1	14
Gander International	3	190	5	10	20	11	36
Halifax/Robert L Stanfield International	5	62	4	15	22	4	44
Hamilton	0	0	0	0	0	0	0
Kelowna	19	7	2	18	2	2	2
Kitchener/Waterloo	0	0	0	0	0	0	0
Langley	15	14	9	14	8	9	8
London	17	10	23	19	10	23	10
Moncton/Greater Moncton International	16	10	2	18	6	2	8
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	0	0	0	0	0	0	0
Oshawa	0	0	0	0	0	0	0
Ottawa/Macdonald-Cartier International	4	67	18	10	14	18	34
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	24	2	17	10	2	17	2
Regina International	8	36	28	20	8	28	10
Saskatoon/John G Diefenbaker International	6	52	1	12	12	1	26
Sault Ste. Marie	18	8	13	13	4	13	4
St. John's International	23	3	12	14	2	12	2
St-Jean	0	0	0	0	0	0	0
Thunder Bay	10	22	22	14	8	22	8
Toronto/Buttonville Municipal	0	0	0	0	0	0	0
Toronto/City Centre	0	0	0	0	0	0	0
Toronto/Lester B Pearson International	0	0	0	0	0	0	0
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	0	0	0	0	0	0	0
Victoria International	1	338	11	12	20	9	52
Whitehorse International	7	46	22	14	16	22	26
Windsor	12	20	20	10	20	20	20
Winnipeg/James Armstrong Richardson International	2	224	19	9	20	23	38
Winnipeg/St. Andrews	20	6	13	8	2	13	2
Yellowknife	9	34	27	11	14	27	28

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	5	10	13	9	6	13	6
Campbell River	0	0	0	0	0	0	0
Castlegar	0	0	0	0	0	0	0
Charlottetown	0	0	0	0	0	0	0
Churchill	0	0	0	0	0	0	0
Cranbrook	0	0	0	0	0	0	0
Deer Lake	0	0	0	0	0	0	0
Fort Nelson	0	0	0	0	0	0	0
Fort St John	0	0	0	0	0	0	0
Fredericton International	6	8	18	17	6	18	6
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	38	23	14	18	6	20
Kingston	4	12	20	16	8	20	8
Kuujuuaq	0	0	0	0	0	0	0
La Grande Rivière	0	0	0	0	0	0	0
La Ronge	0	0	0	0	0	0	0
Lethbridge	0	0	0	0	0	0	0
Lloydminster	0	0	0	0	0	0	0
Medicine Hat	0	0	0	0	0	0	0
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	2	26	24	15	12	24	12
Nanaimo	3	12	25	13	12	25	12
Norman Wells	0	0	0	0	0	0	0
North Bay	7	8	15	12	8	15	8
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	8	8	21	11	8	21	8
Sept-Îles	0	0	0	0	0	0	0
Sioux Lookout	0	0	0	0	0	0	0
Smithers	0	0	0	0	0	0	0
St Catharines	0	0	0	0	0	0	0
Sudbury	0	0	0	0	0	0	0
Terrace	0	0	0	0	0	0	0
Thompson	0	0	0	0	0	0	0
Timmins	0	0	0	0	0	0	0
Val-d'Or	0	0	0	0	0	0	0
Victoria Harbour	0	0	0	0	0	0	0
Wabush	0	0	0	0	0	0	0
Whitecourt	0	0	0	0	0	0	0
Williams Lake	0	0	0	0	0	0	0

Methodology

Survey universe

Coverage

The survey covers all aircraft movements at Canadian airports with NAV CANADA air traffic control towers and flight service stations.

Methodology survey

The Itinerant movement record is designed to capture:

- Aircraft identification
- Aircraft type
- The last station before landing at the reporting airport or the next station after take-off
- Arrival or departure
- Time of movement
- Runway used
- Flight rules (Instrument flight rules or Visual flight rules).

The Local aircraft movement record provides for reports of local movements by:

- Hour
- Single engine aircraft
- Multi-engine aircraft
- Jet aircraft
- Military aircraft
- Date of movement

Processing of aircraft movement statistics involves several stages. Preliminary monthly data by class of operation are released in **Preliminary aircraft movement statistics**, catalogue no. 51F0001P (TP-1496 (NAV CANADA towered airports only)). Data which follow in **Aircraft movement statistics - Monthly** report, catalogue nos. 51-007-X and 51-008-X (TP-141) may contain revisions to the originally released figures. Annual tables, which may reflect further revisions, are released in the publication, **Aircraft movement statistics - 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 TP-577, they are contained in the five year historical summary of subsequent editions of TP-577. 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

Air Canada has cancelled 10 routes and suspended three other routes this winter in order to reduce fuel costs.

Westjet has added a total of 20 flights weekly from Montreal, Calgary and Vancouver to Florida and Mexico as of early January 2009.

Porter Airlines has added 3 roundtrip flights between Toronto City Centre Airport and Chicago Midway International Airport per weekday and two each on Saturday and Sunday.

Zoom Airlines suspended operations effective August 28, 2008.

Sudbury, Ontario – As of June 2008, data for Sudbury are found in tables relating to Nav Canada Flight Service Stations.

Fort McMurray, Alberta – As of October 2008, data for Fort McMurray are found in tables relating to Nav Canada Towers.

Montréal/Mirabel International, Quebec – As of December 2008, data for Montréal/Mirabel International are found in tables relating to Nav Canada Flight Service Stations.

Kuujuarapik, Quebec – As of December 2008, data for Kuujuarapik are found in Catalogue no. 51-008, Aircraft Movement Statistics: Airports Without Air Traffic Control Towers.

St. Anthony, Newfoundland and Labrador – As of December 2008, data for St. Anthony are found in Catalogue no. 51-008, Aircraft Movement Statistics: Airports Without Air Traffic Control Towers.

Appendix II

Glossary of terms

Air carrier

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

Level I-III air carriers: Canadian air carriers that, in each of the two calendar years immediately preceding the report year, realized annual gross revenues of \$1,000,000 or more for the air services for which the air carrier held a licence. Also includes foreign air carriers.

Level IV-VI air carriers: Canadian air carriers that, in each of the two calendar years immediately preceding the report year, realized annual gross revenues of less than \$1,000,000 for the air services for which the air carrier held a licence. Since 2000, levels IV and VI are no longer applicable.

Aircraft movement

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

Class of operation

Aircraft movements are classified as either "itinerant" or "local".

Commercial

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

Domestic itinerant movements

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

FSS

Flight service station.

Government-Civil

Aircraft owned by federal, provincial and municipal bodies as well as foreign states, but excluding those owned by crown corporations, boards and commissions. Such aircraft are coded "state" 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.

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 Mirabel airport from London, England would appear under "other international". If the same aircraft moved on to Toronto, both the departure at Mirabel and the arrival at Toronto would be shown as "domestic".

Itinerant movements

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 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 any totals in this publication.

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.

Weight group

The classification of weight classes in groups for statistical purposes.