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



March 2009



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Statistics Canada
Transportation Division

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

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

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Highlights

- Aircraft take-offs and landings at Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased (-2.8%) in March 2009 compared with March 2008. These 93 airports reported 489,549 movements in March 2009 compared with 503,857 movements at 95 airports in March 2008.
- Itinerant movements (flights from one airport to another) fell 2.9% (-10,014 movements) in March 2009 compared with the same month a year earlier.
- Local movements (flights that remain in the vicinity of the airport) declined by 2.7% (-4,294 movements) in March 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 March 2009/ March 2008 percent	number	Change from March 2009/ March 2008 percent	number	Change from March 2009/ March 2008 percent
Grand total	394,434	-1.9	95,115	-6.5	489,549	-2.8
Itinerant movements						
Air carriers	199,867	-3.2	51,925	-5.0	251,792	-3.6
Other commercial movements	38,394	1.4	4,898	-6.0	43,292	0.5
Private movements	21,549	-6.0	7,052	-7.4	28,601	-6.3
Government civil movements	4,955	10.7	2,229	16.8	7,184	12.5
Government military movements	2,856	4.4	1,019	27.1	3,875	9.6
Itinerant total	267,621	-2.5	67,123	-4.4	334,744	-2.9
Local movements						
Civil local movements	125,904	-0.4	27,804	-11.5	153,708	-2.6
Military local movements	909	-24.1	188	74.1	1,097	-15.9
Local total	126,813	-0.6	27,992	-11.2	154,805	-2.7

Analysis

Aircraft take-offs and landings at Canadian airports with NAV CANADA air traffic control towers and flight service stations decreased (-2.8%) in March 2009 compared with March 2008. These 93 airports reported 489,549 movements in March 2009 compared with 503,857 movements at 95 airports in March 2008.

Itinerant movements (flights from one airport to another) fell 2.9% (-10,014 movements) in March 2009 compared with the same month a year earlier.

Local movements (flights that remain in the vicinity of the airport) declined by 2.7% (-4,294 movements) in March 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 394,434 aircraft take-offs and landings in March down 1.9% (-7,721 movements) compared with March 2008. Year-over-year increases in aircraft movements were reported by 13 of these airports in March 2009. The variations ranged from an increase of 66.5% at Montréal/St-Hubert, Quebec to a decline of 53.6% at Gander International, Newfoundland and Labrador.

Itinerant movements (flights from one airport to another) declined 2.5% (-6,956 movements) in March 2009 compared with the same month a year earlier. Year-over-year variations in itinerant movements ranged from a 65.0% increase (+3,377 movements) at Montréal/St-Hubert, Quebec to a decline of 27.4% (-1,822 movements) at Calgary/Springbank, Alberta.

Local movements (flights that remain in the vicinity of the airport) fell by 765 movements (-0.6%) in March 2009 compared with March 2008. Montréal/St-Hubert, Quebec recorded the largest gain in local movements, increasing by 4,700 movements (+67.5%) while Calgary/Springbank, Alberta reported the largest decline with 2,742 fewer movements (-26.1%) 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 2,627 movements in March 2008 compared with 2,962 movements reported for the Flight Service Station in March 2009, up 12.8%.

The Flight Service Station at Fort McMurray, Alberta closed effective October 2008 and re-opened as an Air Traffic Control Tower. Fort McMurray reported 5,346 movements in March 2008 compared with 4,040 movements reported for the Air Traffic Control Tower in March 2009, down 24.4%.

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 2,246 movements in March 2008 compared with 2,088 movements reported for the Flight Service Station in March 2009, down 7.0%.

Airports with NAV CANADA flight service stations

The 52 Canadian airports with NAV CANADA flight service stations reported 95,115 aircraft take-offs and landings in March down 6.5% (-6,587 movements) compared with March 2008. Year-over-year increases in aircraft movements were reported by 18 of these airports in March 2009. The variations ranged from an 85.0% increase (+4,365 movements) at Fredericton International, New Brunswick to a decline of 44.7% (-580 movements) at Norman Wells, Northwest Territories.

Itinerant movements (flights from one airport to another) decreased by 4.4% (-3,058 movements) in March 2009 compared with the same month a year earlier. Year-over-year variations in itinerant movements ranged from an 89.4% increase (+2,469 movements) Fredericton International, New Brunswick to a decline of 41.2% (-489 movements) at Norman Wells, Northwest Territories.

Local movements (flights that remain in the vicinity of the airport) recorded in March 2009 decreased by 11.2% (-3,529 movements) compared with the same month a year earlier. Fredericton International, New Brunswick recorded the largest gain in local movements, increasing by 1,896 movements (+79.8%) compared with March 2008. Red Deer Regional, Alberta recorded the largest decline in local movements, dropping 924 movements (-44.8%) compared with March 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

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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	14	11,655	18	4,877	5	6,778
Boundary Bay	8	14,071	16	5,439	2	8,632
Calgary International	4	19,711	3	19,617	37	94
Calgary/Springbank	11	12,574	20	4,827	4	7,747
Chicoutimi/St-Honoré	24	6,616	35	2,017	12	4,599
Edmonton City Centre	26	5,925	17	5,078	28	847
Edmonton International	16	10,892	6	10,624	35	268
Edmonton/Villeneuve	28	5,657	40	1,223	13	4,434
Fort McMurray	33	4,040	27	3,336	29	704
Gander International	40	2,054	38	1,430	32	624
Halifax/Robert L Stanfield International	23	7,041	12	6,637	34	404
Hamilton	36	3,022	32	2,470	33	552
Kelowna	30	5,512	24	3,960	24	1,552
Kitchener/Waterloo	17	10,364	22	4,237	8	6,127
Langley	27	5,696	34	2,286	17	3,410
London	6	14,846	13	6,624	3	8,222
Moncton/Greater Moncton International	10	13,246	11	6,982	7	6,264
Montréal/Pierre Elliott Trudeau International	5	18,058	4	18,058	0	0
Montréal/St-Hubert	3	20,227	8	8,569	1	11,658
Oshawa	29	5,563	33	2,357	19	3,206
Ottawa/Macdonald-Cartier International	7	14,630	5	11,235	18	3,395
Pitt Meadows	21	7,686	29	2,900	11	4,786
Prince George	35	3,588	36	1,871	22	1,717
Québec/Jean Lesage International	13	11,878	9	8,119	15	3,759
Regina International	31	5,026	25	3,394	23	1,632
Saskatoon/John G Diefenbaker International	19	8,521	15	5,522	20	2,999
Sault Ste. Marie	25	6,220	31	2,624	16	3,596
St. John's International	37	3,006	30	2,744	36	262
St-Jean	39	2,233	39	1,289	25	944
Thunder Bay	22	7,072	19	4,842	21	2,230
Toronto/Buttville Municipal	12	12,316	14	6,357	9	5,959
Toronto/City Centre	20	8,093	21	4,329	14	3,764
Toronto/Lester B Pearson International	1	34,935	1	34,935	0	0
Vancouver Harbour	32	4,165	23	4,165	0	0
Vancouver International	2	26,000	2	26,000	0	0
Victoria International	9	13,672	10	6,991	6	6,681
Whitehorse International	41	1,905	41	1,034	26	871
Windsor	38	2,586	37	1,722	27	864
Winnipeg/James Armstrong Richardson International	15	11,202	7	10,546	30	656
Winnipeg/St. Andrews	18	8,921	28	2,983	10	5,938
Yellowknife	34	4,009	26	3,371	31	638
Total of NAV CANADA towers (41)	.	394,434	.	267,621	.	126,813

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	35	1,028	46	628	20	400
Campbell River	9	2,680	14	1,592	9	1,088
Castlegar	40	848	47	610	22	238
Charlottetown	19	2,057	21	1,410	14	647
Churchill	37	947	32	947	0	0
Cranbrook	41	824	36	768	34	56
Deer Lake	26	1,520	19	1,460	33	60
Fort Nelson	38	944	35	820	28	124
Fort St John	12	2,343	18	1,462	12	881
Fredericton International	1	9,503	1	5,231	1	4,272
Grande Prairie	4	3,144	5	2,226	11	918
High Level	23	1,891	42	699	6	1,192
Îles-de-la-Madeleine	43	751	38	751	0	0
Inuvik/Mike Zubko	34	1,037	28	995	39	42
Iqaluit	28	1,374	22	1,326	36	48
Kamloops	16	2,163	9	1,747	19	416
Kenora	33	1,041	37	763	21	278
Kingston	7	2,866	11	1,732	8	1,134
Kuujuuaq	39	904	34	856	37	48
La Grande Rivière	48	702	41	700	48	2
La Ronge	31	1,092	27	1,020	31	72
Lethbridge	22	1,895	23	1,325	18	570
Lloydminster	46	713	49	497	23	216
Medicine Hat	15	2,183	24	1,309	13	874
Mont-Joli	51	427	51	385	41	42
Montréal/Mirabel International	18	2,088	16	1,512	16	576
Nanaimo	14	2,240	13	1,604	15	636
Norman Wells	45	718	43	698	44	20
North Bay	2	5,681	7	2,093	2	3,588
Ottawa/Gatineau	3	3,955	17	1,487	3	2,468
Peace River	44	726	44	678	38	48
Penticton	20	2,056	26	1,024	10	1,032
Port Hardy	50	505	50	487	45	18
Prince Albert	27	1,485	20	1,457	42	28
Prince Rupert	52	419	52	357	32	62
Rankin Inlet	36	952	31	952	0	0
Red Deer Regional	10	2,671	15	1,531	7	1,140
Rouyn-Noranda	30	1,112	30	958	25	154
Saint John	25	1,756	12	1,630	27	126
Sept-Îles	24	1,763	10	1,737	43	26
Sioux Lookout	17	2,143	6	2,137	46	6
Smithers	49	614	48	572	40	42
St Catharines	8	2,743	25	1,131	5	1,612
Sudbury	6	2,962	4	2,388	17	574
Terrace	32	1,059	33	931	26	128
Thompson	11	2,580	3	2,528	35	52
Timmins	21	1,941	8	1,867	30	74
Val-d'Or	29	1,179	29	969	24	210
Victoria Harbour	5	3,037	2	3,035	47	2
Wabush	47	708	40	708	0	0
Whitecourt	13	2,342	45	668	4	1,674
Williams Lake	42	803	39	725	29	78
Total of all flight service stations (52)	.	95,115	.	67,123	.	27,992

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	11,571	3,878	918	6,775	84	81	3
Boundary Bay	14,071	4,558	881	8,632	0	0	0
Calgary International	19,648	18,282	1,272	94	63	63	0
Calgary/Springbank	12,556	3,748	1,063	7,745	18	16	2
Chicoutimi/St-Honoré	6,616	1,912	105	4,599	0	0	0
Edmonton City Centre	5,871	3,755	1,275	841	54	48	6
Edmonton International	10,833	10,228	345	260	59	51	8
Edmonton/Villeneuve	5,651	1,016	201	4,434	6	6	0
Fort McMurray	4,012	2,964	361	687	28	11	17
Gander International	1,728	1,039	165	524	326	226	100
Halifax/Robert L Stanfield International	6,680	6,099	269	312	361	269	92
Hamilton	3,013	1,861	600	552	9	9	0
Kelowna	5,480	3,482	451	1,547	32	27	5
Kitchener/Waterloo	10,326	3,389	814	6,123	38	34	4
Langley	5,692	1,452	834	3,406	4	0	4
London	14,836	5,864	750	8,222	10	10	0
Moncton/Greater Moncton International	13,230	6,707	259	6,264	16	16	0
Montréal/Pierre Elliott Trudeau International	18,042	16,857	1,185	0	16	16	0
Montréal/St-Hubert	20,057	6,949	1,452	11,656	170	168	2
Oshawa	5,555	1,740	609	3,206	8	8	0
Ottawa/Macdonald-Cartier International	14,410	10,013	1,002	3,395	220	220	0
Pitt Meadows	7,659	1,974	899	4,786	27	27	0
Prince George	3,583	1,610	256	1,717	5	5	0
Québec/Jean Lesage International	11,772	6,919	1,094	3,759	106	106	0
Regina International	4,741	2,734	488	1,519	285	172	113
Saskatoon/John G Diefenbaker International	8,366	4,593	850	2,923	155	79	76
Sault Ste. Marie	6,206	2,469	143	3,594	14	12	2
St. John's International	2,775	2,383	142	250	231	219	12
St-Jean	2,116	672	500	944	117	117	0
Thunder Bay	7,026	4,510	286	2,230	46	46	0
Toronto/Buttonville Municipal	12,308	4,520	1,836	5,952	8	1	7
Toronto/City Centre	8,043	3,811	468	3,764	50	50	0
Toronto/Lester B Pearson International	34,914	33,855	1,059	0	21	21	0
Vancouver Harbour	4,161	4,135	26	0	4	4	0
Vancouver International	25,977	24,658	1,319	0	23	23	0
Victoria International	13,195	5,816	966	6,413	477	209	268
Whitehorse International	1,903	856	176	871	2	2	0
Windsor	2,576	1,417	295	864	10	10	0
Winnipeg/James Armstrong Richardson International	10,677	9,534	617	526	525	395	130
Winnipeg/St. Andrews	8,906	2,813	155	5,938	15	15	0
Yellowknife	3,887	3,189	118	580	122	64	58
Total of NAV CANADA towers (41)	390,669	238,261	26,504	125,904	3,765	2,856	909

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	894	382	134	378	134	112	22
Campbell River	2,664	1,323	253	1,088	16	16	0
Castlegar	844	564	42	238	4	4	0
Charlottetown	2,031	1,185	199	647	26	26	0
Churchill	928	875	53	0	19	19	0
Cranbrook	800	660	92	48	24	16	8
Deer Lake	1,516	1,424	32	60	4	4	0
Fort Nelson	930	754	52	124	14	14	0
Fort St John	2,343	1,309	153	881	0	0	0
Fredericton International	9,441	4,990	185	4,266	62	56	6
Grande Prairie	3,140	1,936	286	918	4	4	0
High Level	1,891	650	49	1,192	0	0	0
Îles-de-la-Madeleine	751	529	222	0	0	0	0
Inuvik/Mike Zubko	1,000	938	34	28	37	23	14
Iqaluit	1,360	1,223	89	48	14	14	0
Kamloops	2,145	1,462	269	414	18	16	2
Kenora	951	642	87	222	90	34	56
Kingston	2,842	1,302	410	1,130	24	20	4
Kuujuuaq	896	807	43	46	8	6	2
La Grande Rivière	702	662	38	2	0	0	0
La Ronge	1,072	928	72	72	20	20	0
Lethbridge	1,841	942	329	570	54	54	0
Lloydminster	703	261	226	216	10	10	0
Medicine Hat	2,149	1,083	202	864	34	24	10
Mont-Joli	427	357	28	42	0	0	0
Montréal/Mirabel International	2,000	1,099	361	540	88	52	36
Nanaimo	2,228	1,029	563	636	12	12	0
Norman Wells	718	684	14	20	0	0	0
North Bay	5,586	1,662	340	3,584	95	91	4
Ottawa/Gatineau	3,901	628	811	2,462	54	48	6
Peace River	726	633	45	48	0	0	0
Penticton	1,974	751	191	1,032	82	82	0
Port Hardy	469	351	106	12	36	30	6
Prince Albert	1,483	1,213	242	28	2	2	0
Prince Rupert	411	307	42	62	8	8	0
Rankin Inlet	950	923	27	0	2	2	0
Red Deer Regional	2,661	1,026	495	1,140	10	10	0
Rouyn-Noranda	1,112	781	177	154	0	0	0
Saint John	1,722	1,344	264	114	34	22	12
Sept-Îles	1,761	1,601	134	26	2	2	0
Sioux Lookout	2,139	2,065	68	6	4	4	0
Smithers	614	522	50	42	0	0	0
St Catharines	2,629	700	317	1,612	114	114	0
Sudbury	2,952	2,043	335	574	10	10	0
Terrace	1,059	882	49	128	0	0	0
Thompson	2,578	2,342	184	52	2	2	0
Timmins	1,935	1,701	160	74	6	6	0
Val-d'Or	1,179	755	214	210	0	0	0
Victoria Harbour	3,011	2,648	361	2	26	26	0
Wabush	708	679	29	0	0	0	0
Whitecourt	2,342	636	32	1,674	0	0	0
Williams Lake	799	630	91	78	4	4	0
Total of all flight service stations (52)	93,908	56,823	9,281	27,804	1,207	1,019	188

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	4,877	539	2,544	795	753	165	81
Boundary Bay	5,439	16	1,184	3,358	855	26	0
Calgary International	19,617	16,669	942	671	1,131	141	63
Calgary/Springbank	4,827	24	565	3,159	1,053	10	16
Chicoutimi/St-Honoré	2,017	17	543	1,352	103	2	0
Edmonton City Centre	5,078	1,359	660	1,736	877	398	48
Edmonton International	10,624	9,725	391	112	340	5	51
Edmonton/Villeneuve	1,223	2	253	761	161	40	6
Fort McMurray	3,336	2,229	431	304	329	32	11
Gander International	1,430	407	594	38	153	12	226
Halifax/Robert L. Stanfield International	6,637	5,562	502	35	233	36	269
Hamilton	2,470	1,266	400	195	458	142	9
Kelowna	3,960	2,441	217	824	371	80	27
Kitchener/Waterloo	4,237	463	2,306	620	803	11	34
Langley	2,286	98	108	1,246	801	33	0
London	6,624	1,112	1,091	3,661	667	83	10
Moncton/Greater Moncton International	6,982	1,607	5,029	71	120	139	16
Montréal/Pierre Elliott Trudeau International	18,058	15,624	808	425	972	213	16
Montréal/St-Hubert	8,569	3,981	396	2,572	1,326	126	168
Oshawa	2,357	107	109	1,524	602	7	8
Ottawa/Macdonald-Cartier International	11,235	7,173	427	2,413	448	554	220
Pitt Meadows	2,900	33	877	1,064	861	38	27
Prince George	1,871	1,217	325	68	150	106	5
Québec/Jean Lesage International	8,119	4,315	1,704	900	779	315	106
Regina International	3,394	2,000	690	44	221	267	172
Saskatoon/John G. Diefenbaker International	5,522	2,924	987	682	463	387	79
Sault Ste. Marie	2,624	844	165	1,460	92	51	12
St. John's International	2,744	1,722	622	39	91	51	219
St-Jean	1,289	176	194	302	440	60	117
Thunder Bay	4,842	2,726	877	907	167	119	46
Toronto/Butterville Municipal	6,357	317	691	3,512	1,750	86	1
Toronto/City Centre	4,329	1,676	911	1,224	460	8	50
Toronto/Lester B. Pearson International	34,935	33,242	388	225	1,028	31	21
Vancouver Harbour	4,165	3,838	269	28	26	0	4
Vancouver International	26,000	22,876	1,454	328	781	538	23
Victoria International	6,991	3,014	1,964	838	920	46	209
Whitehorse International	1,034	520	315	21	138	38	2
Windsor	1,722	541	753	123	256	39	10
Winnipeg/James Armstrong Richardson International	10,546	8,951	501	82	193	424	395
Winnipeg/St. Andrews	2,983	582	1,600	631	145	10	15
Yellowknife	3,371	2,800	345	44	32	86	64
Total of NAV CANADA towers (41)	267,621	164,735	35,132	38,394	21,549	4,955	2,856

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	628	103	208	71	106	28	112
Campbell River	1,592	573	484	266	215	38	16
Castlegar	610	259	49	256	40	2	4
Charlottetown	1,410	658	288	239	113	86	26
Churchill	947	867	6	2	2	51	19
Cranbrook	768	604	48	8	77	15	16
Deer Lake	1,460	1,164	185	75	14	18	4
Fort Nelson	820	442	203	109	52	0	14
Fort St John	1,462	787	487	35	136	17	0
Fredericton International	5,231	759	4,120	111	126	59	56
Grande Prairie	2,226	1,132	734	70	264	22	4
High Level	699	206	364	80	35	14	0
Îles-de-la-Madeleine	751	327	186	16	5	217	0
Inuvik/Mike Zubko	995	227	703	8	0	34	23
Iqaluit	1,326	1,115	40	68	51	38	14
Kamloops	1,747	1,198	208	56	205	64	16
Kenora	763	362	254	26	75	12	34
Kingston	1,732	448	373	481	356	54	20
Kujjuaq	856	742	65	0	8	35	6
La Grande Rivière	700	528	128	6	24	14	0
La Ronge	1,020	894	15	19	4	68	20
Lethbridge	1,325	466	50	426	304	25	54
Lloydminster	497	116	128	17	194	32	10
Medicine Hat	1,309	945	68	70	184	18	24
Mont-Joli	385	274	59	24	20	8	0
Montréal/Mirabel International	1,512	732	247	120	357	4	52
Nanaimo	1,604	462	426	141	479	84	12
Norman Wells	698	572	80	32	1	13	0
North Bay	2,093	541	437	684	262	78	91
Ottawa/Gatineau	1,487	110	229	289	723	88	48
Peace River	678	364	261	8	33	12	0
Penticton	1,024	327	374	50	179	12	82
Port Hardy	487	324	14	13	43	63	30
Prince Albert	1,457	1,081	79	53	95	147	2
Prince Rupert	357	218	74	15	18	24	8
Rankin Inlet	952	922	1	0	5	22	2
Red Deer Regional	1,531	270	590	166	478	17	10
Rouyn-Noranda	958	576	143	62	143	34	0
Saint John	1,630	741	571	32	258	6	22
Sept-Îles	1,737	1,296	274	31	66	68	2
Sioux Lookout	2,137	1,700	316	49	21	47	4
Smithers	572	472	40	10	34	16	0
St Catharines	1,131	0	600	100	293	24	114
Sudbury	2,388	1,433	538	72	264	71	10
Terrace	931	575	219	88	13	36	0
Thompson	2,528	2,077	260	5	14	170	2
Timmins	1,867	1,460	231	10	132	28	6
Val-d'Or	969	678	55	22	192	22	0
Victoria Harbour	3,035	2,630	16	2	203	158	26
Wabush	708	579	91	9	27	2	0
Whitecourt	668	32	367	237	22	10	0
Williams Lake	725	485	86	59	87	4	4
Total of all flight service stations (52)	67,123	35,853	16,072	4,898	7,052	2,229	1,019

Table 4-1

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

	Itinerant movements					Runway 88
	Total of IFR and VFR flights ¹	Instrument flight rules	Percentage instrument flight rules	Visual flight rules	Percentage visual flight rules	
	number		percent	number	percent	
Abbotsford	4,877	1,221	25.0	3,656	74.9	611
Boundary Bay	5,439	230	4.2	5,209	95.7	294
Calgary International	19,617	18,346	93.5	1,271	6.4	715
Calgary/Springbank	4,827	286	5.9	4,541	94.0	1,756
Chicoutimi/St-Honoré	2,017	191	9.4	1,826	90.5	38
Edmonton City Centre	5,078	2,513	49.4	2,565	50.5	1,021
Edmonton International	10,624	10,281	96.7	343	3.2	589
Edmonton/Villeneuve	1,223	20	1.6	1,203	98.3	115
Fort McMurray	3,336	2,140	64.1	1,196	35.8	39
Gander International	1,430	982	68.6	448	31.3	30
Halifax/Robert L. Stanfield International	6,637	6,041	91.0	596	8.9	164
Hamilton	2,470	1,715	69.4	755	30.5	768
Kelowna	3,960	2,670	67.4	1,290	32.5	338
Kitchener/Waterloo	4,237	925	21.8	3,312	78.1	451
Langley	2,286	54	2.3	2,232	97.6	748
London	6,624	1,486	22.4	5,138	77.5	385
Moncton/Greater Moncton International	6,982	2,137	30.6	4,845	69.3	133
Montréal/Pierre Elliott Trudeau International	18,058	17,416	96.4	642	3.5	1,236
Montréal/St-Hubert	8,569	1,485	17.3	7,084	82.6	1,051
Oshawa	2,357	82	3.4	2,275	96.5	421
Ottawa/Macdonald-Cartier International	11,235	8,036	71.5	3,199	28.4	479
Pitt Meadows	2,900	29	1.0	2,871	99.0	1,534
Prince George	1,871	1,322	70.6	549	29.3	175
Québec/Jean Lesage International	8,119	4,871	59.9	3,248	40.0	1,139
Regina International	3,394	2,455	72.3	939	27.6	71
Saskatoon/John G. Diefenbaker International	5,522	3,536	64.0	1,986	35.9	114
Sault Ste. Marie	2,624	1,089	41.5	1,535	58.4	85
St. John's International	2,744	2,505	91.2	239	8.7	54
St-Jean	1,289	394	30.5	895	69.4	212
Thunder Bay	4,842	3,225	66.6	1,617	33.3	158
Toronto/Buttonville Municipal	6,357	498	7.8	5,859	92.1	347
Toronto/City Centre	4,329	2,013	46.5	2,316	53.4	1,592
Toronto/Lester B. Pearson International	34,935	28,370	81.2	6,565	18.7	53
Vancouver Harbour	4,165	24	0.5	4,141	99.4	1,259
Vancouver International	26,000	19,560	75.2	6,440	24.7	7,285
Victoria International	6,991	3,355	47.9	3,636	52.0	3,226
Whitehorse International	1,034	412	39.8	622	60.1	176
Windsor	1,722	721	41.8	1,001	58.1	30
Winnipeg/James Armstrong Richardson International	10,546	9,273	87.9	1,273	12.0	204
Winnipeg/St. Andrews	2,983	87	2.9	2,896	97.0	94
Yellowknife	3,371	2,036	60.3	1,335	39.6	252
Total of NAV CANADA towers (41)	267,621	164,032	61.3	103,589	38.7	29,442

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	628	174	27.7	454	72.2	10
Campbell River	1,592	467	29.3	1,125	70.6	199
Castlegar	610	264	43.2	346	56.7	72
Charlottetown	1,410	748	53.0	662	46.9	36
Churchill	947	832	87.8	115	12.1	32
Cranbrook	768	663	86.3	105	13.6	83
Deer Lake	1,460	1,332	91.2	128	8.7	27
Fort Nelson	820	459	55.9	361	44.0	51
Fort St John	1,462	853	58.3	609	41.6	77
Fredericton International	5,231	1,052	20.1	4,179	79.8	66
Grande Prairie	2,226	1,376	61.8	850	38.1	83
High Level	699	321	45.9	378	54.0	260
Îles-de-la-Madeleine	751	381	50.7	370	49.2	737
Inuvik/Mike Zubko	995	284	28.5	711	71.4	5
Iqaluit	1,326	1,160	87.4	166	12.5	0
Kamloops	1,747	1,267	72.5	480	27.4	117
Kenora	763	402	52.6	361	47.3	172
Kingston	1,732	609	35.1	1,123	64.8	112
Kuujuuaq	856	444	51.8	412	48.1	2
La Grande Rivière	700	557	79.5	143	20.4	81
La Ronge	1,020	587	57.5	433	42.4	172
Lethbridge	1,325	585	44.1	740	55.8	29
Lloydminster	497	207	41.6	290	58.3	28
Medicine Hat	1,309	427	32.6	882	67.3	233
Mont-Joli	385	301	78.1	84	21.8	20
Montréal/Mirabel International	1,512	1,030	68.1	482	31.8	283
Nanaimo	1,604	520	32.4	1,084	67.5	621
Norman Wells	698	174	24.9	524	75.0	12
North Bay	2,093	673	32.1	1,420	67.8	326
Ottawa/Gatineau	1,487	158	10.6	1,329	89.3	62
Peace River	678	351	51.7	327	48.2	23
Penticton	1,024	278	27.1	746	72.8	85
Port Hardy	487	207	42.5	280	57.4	95
Prince Albert	1,457	1,221	83.8	236	16.1	86
Prince Rupert	357	245	68.6	112	31.3	14
Rankin Inlet	952	893	93.8	59	6.1	0
Red Deer Regional	1,531	401	26.1	1,130	73.8	242
Rouyn-Noranda	958	772	80.5	186	19.4	37
Saint John	1,630	987	60.5	643	39.4	39
Sept-Îles	1,737	1,413	81.3	324	18.6	151
Sioux Lookout	2,137	1,659	77.6	478	22.3	99
Smithers	572	471	82.3	101	17.6	232
St Catharines	1,131	56	4.9	1,075	95.0	212
Sudbury	2,388	1,716	71.8	672	28.1	96
Terrace	931	595	63.9	336	36.0	85
Thompson	2,528	1,588	62.8	940	37.1	37
Timmins	1,867	1,561	83.6	306	16.3	64
Val-d'Or	969	708	73.0	261	26.9	258
Victoria Harbour	3,035	20	0.6	3,015	99.3	474
Wabush	708	639	90.2	69	9.7	69
Whitecourt	668	75	11.2	593	88.7	40
Williams Lake	725	467	64.4	258	35.5	153
Total of all flight service stations (52)	67,123	34,630	51.6	32,493	48.4	6,599

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	4,877	455	426	2,669	1,319	8
Boundary Bay	5,439	2	106	5,126	204	1
Calgary International	19,617	13,463	4,764	829	561	0
Calgary/Springbank	4,827	48	81	4,071	627	0
Chicoutimi/St-Honoré	2,017	4	72	1,625	307	9
Edmonton City Centre	5,078	498	1,883	2,048	645	4
Edmonton International	10,624	6,722	3,514	370	17	1
Edmonton/Villeneuve	1,223	11	21	949	242	0
Fort McMurray	3,336	1,116	1,234	599	387	0
Gander International	1,430	440	474	383	133	0
Halifax/Robert L Stanfield International	6,637	4,019	1,807	492	319	0
Hamilton	2,470	1,160	527	673	110	0
Kelowna	3,960	1,538	1,148	968	306	0
Kitchener/Waterloo	4,237	190	494	3,240	313	0
Langley	2,286	0	100	1,815	371	0
London	6,624	289	1,088	5,082	165	0
Moncton/Greater Moncton International	6,982	974	731	5,245	32	0
Montréal/Pierre Elliott Trudeau International	18,058	12,448	4,861	604	145	0
Montréal/St-Hubert	8,569	206	731	7,199	433	0
Oshawa	2,357	7	44	2,211	95	0
Ottawa/Macdonald-Cartier International	11,235	5,841	2,251	2,787	356	0
Pitt Meadows	2,900	0	10	2,538	345	7
Prince George	1,871	493	874	198	306	0
Québec/Jean Lesage International	8,119	1,634	2,985	2,295	1,201	4
Regina International	3,394	1,566	703	1,098	27	0
Saskatoon/John G Diefenbaker International	5,522	1,792	1,640	2,082	8	0
Sault Ste. Marie	2,624	47	978	1,572	27	0
St. John's International	2,744	1,074	1,419	37	214	0
St-Jean	1,289	2	106	1,071	53	57
Thunder Bay	4,842	723	2,631	1,113	375	0
Toronto/Buttonville Municipal	6,357	63	318	5,355	621	0
Toronto/City Centre	4,329	2	1,956	2,018	351	2
Toronto/Lester B Pearson International	34,935	29,086	5,780	58	11	0
Vancouver Harbour	4,165	0	2,254	1,090	821	0
Vancouver International	26,000	11,692	9,502	3,425	1,381	0
Victoria International	6,991	1,123	2,270	3,148	450	0
Whitehorse International	1,034	222	327	288	197	0
Windsor	1,722	80	693	913	36	0
Winnipeg/James Armstrong Richardson International	10,546	5,209	4,243	990	104	0
Winnipeg/St. Andrews	2,983	0	345	2,514	124	0
Yellowknife	3,371	755	2,105	231	280	0
Total of NAV CANADA towers (41)	267,621	104,994	67,496	81,019	14,019	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	628	22	191	386	29	0
Campbell River	1,592	33	614	516	429	0
Castlegar	610	14	273	265	58	0
Charlottetown	1,410	300	315	634	161	0
Churchill	947	4	890	49	4	0
Cranbrook	768	62	561	134	11	0
Deer Lake	1,460	217	1,121	92	30	0
Fort Nelson	820	38	430	103	249	0
Fort St John	1,462	274	585	181	422	0
Fredericton International	5,231	296	518	4,312	105	0
Grande Prairie	2,226	376	872	411	567	0
High Level	699	0	345	171	183	0
Îles-de-la-Madeleine	751	6	338	186	221	0
Inuvik/Mike Zubko	995	133	543	31	288	0
Iqaluit	1,326	376	887	27	36	0
Kamloops	1,747	111	1,181	226	229	0
Kenora	763	6	432	202	123	0
Kingston	1,732	27	571	1,061	73	0
Kuujuuaq	856	159	630	16	51	0
La Grande Rivière	700	22	626	40	12	0
La Ronge	1,020	2	744	261	13	0
Lethbridge	1,325	41	540	728	16	0
Lloydminster	497	8	164	309	16	0
Medicine Hat	1,309	17	459	764	69	0
Mont-Joli	385	9	317	47	12	0
Montréal/Mirabel International	1,512	606	303	404	199	0
Nanaimo	1,604	16	504	972	112	0
Norman Wells	698	146	321	162	69	0
North Bay	2,093	98	751	641	603	0
Ottawa/Gatineau	1,487	16	146	1,075	250	0
Peace River	678	10	313	113	242	0
Penticton	1,024	17	334	330	343	0
Port Hardy	487	6	345	46	90	0
Prince Albert	1,457	32	1,239	154	32	0
Prince Rupert	357	23	236	20	78	0
Rankin Inlet	952	124	826	2	0	0
Red Deer Regional	1,531	111	293	1,073	54	0
Rouyn-Noranda	958	93	721	144	0	0
Saint John	1,630	324	561	727	18	0
Sept-Îles	1,737	42	1,291	307	97	0
Sioux Lookout	2,137	2	1,836	236	63	0
Smithers	572	8	502	34	28	0
St Catharines	1,131	6	10	943	172	0
Sudbury	2,388	61	1,750	343	234	0
Terrace	931	16	605	9	301	0
Thompson	2,528	14	2,105	229	180	0
Timmins	1,867	4	1,681	151	31	0
Val-d'Or	969	120	607	202	40	0
Victoria Harbour	3,035	0	1,924	278	833	0
Wabush	708	8	615	48	37	0
Whitecourt	668	0	88	83	497	0
Williams Lake	725	6	493	138	88	0
Total of all flight service stations (52)	67,123	4,462	34,547	20,016	8,098	0

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

	Gross 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	3,457	357	266	94	32	217	432	22	0	0
Boundary Bay	5,110	222	105	0	0	2	0	0	0	0
Calgary International	978	483	1,462	1,849	1,134	3,830	7,969	814	392	706
Calgary/Springbank	4,211	469	110	18	0	19	0	0	0	0
Chicoutimi/St-Honoré	1,740	203	66	6	0	2	0	0	0	0
Edmonton City Centre	2,272	473	1,450	626	224	19	0	14	0	0
Edmonton International	269	196	531	983	604	2,481	4,755	379	223	203
Edmonton/Villeneuve	1,128	64	31	0	0	0	0	0	0	0
Fort McMurray	743	379	302	541	222	655	494	0	0	0
Gander International	386	10	126	215	320	215	15	71	16	56
Halifax/Robert L Stanfield International	272	259	397	952	859	1,346	1,885	228	236	203
Hamilton	627	284	176	275	129	22	409	4	461	83
Kelowna	1,173	70	216	625	56	721	1,078	5	16	0
Kitchener/Waterloo	3,371	186	325	39	190	15	77	34	0	0
Langley	2,121	145	12	0	8	0	0	0	0	0
London	4,965	277	310	52	722	117	157	24	0	0
Moncton/Greater Moncton International	5,107	199	254	308	149	436	281	0	246	2
Montréal/Pierre Elliott Trudeau International	580	167	417	865	2,797	5,448	4,540	1,650	21	1,573
Montréal/St-Hubert	6,939	560	757	148	141	4	20	0	0	0
Oshawa	2,119	177	47	3	7	4	0	0	0	0
Ottawa/Macdonald-Cartier International	2,785	148	1,085	285	607	2,756	2,606	644	105	214
Pitt Meadows	2,765	104	19	0	12	0	0	0	0	0
Prince George	429	89	160	606	10	389	188	0	0	0
Québec/Jean Lesage International	3,059	362	906	347	1,235	1,383	656	8	7	156
Regina International	853	267	357	409	33	477	856	2	140	0
Saskatoon/John G Diefenbaker International	1,633	485	706	601	168	844	988	2	93	2
Sault Ste. Marie	1,551	109	523	56	223	137	23	2	0	0
St. John's International	40	16	266	510	777	112	763	171	81	8
St-Jean	967	194	128	0	0	0	0	0	0	0
Thunder Bay	1,206	232	2,178	339	147	417	319	2	2	0
Toronto/Buttonville Municipal	5,612	398	237	45	44	19	2	0	0	0
Toronto/City Centre	1,992	187	553	20	0	1,573	0	4	0	0
Toronto/Lester B Pearson International	11	337	218	2,223	3,537	7,365	13,388	3,794	662	3,400
Vancouver Harbour	94	2,707	1,259	0	105	0	0	0	0	0
Vancouver International	1,136	4,414	1,175	3,008	1,900	4,676	5,822	1,120	570	2,179
Victoria International	2,770	837	205	521	987	992	592	23	44	20
Whitehorse International	408	106	166	60	8	68	218	0	0	0
Windsor	867	259	56	112	301	107	18	2	0	0
Winnipeg/James Armstrong Richardson International	604	488	3,046	447	787	1,416	2,642	306	694	116
Winnipeg/St. Andrews	2,326	508	123	16	8	0	0	2	0	0
Yellowknife	255	504	778	189	297	751	536	61	0	0
Total of NAV CANADA towers (41)	78,931	17,931	21,504	17,393	18,780	39,035	51,729	9,388	4,009	8,921

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	360	27	169	16	12	6	0	38	0	0
Campbell River	890	34	36	400	220	4	8	0	0	0
Castlegar	319	4	18	78	16	175	0	0	0	0
Charlottetown	530	287	31	173	77	237	69	4	0	2
Churchill	6	49	208	115	153	402	0	14	0	0
Cranbrook	82	59	69	295	103	160	0	0	0	0
Deer Lake	70	45	116	159	868	114	88	0	0	0
Fort Nelson	294	65	133	225	103	0	0	0	0	0
Fort St John	573	31	204	297	114	243	0	0	0	0
Fredericton International	4,194	169	180	72	207	361	44	0	0	4
Grande Prairie	680	318	443	202	32	369	182	0	0	0
High Level	244	136	175	144	0	0	0	0	0	0
Îles-de-la-Madeleine	36	337	164	54	134	26	0	0	0	0
Inuvik/Mike Zubko	277	19	529	1	4	47	113	5	0	0
Iqaluit	37	7	327	61	234	352	189	16	101	2
Kamloops	350	85	121	508	149	462	68	4	0	0
Kenora	179	57	487	14	16	0	0	10	0	0
Kingston	1,054	68	100	447	43	8	0	12	0	0
Kuujuuaq	59	2	492	4	104	65	60	6	64	0
La Grande Rivière	18	34	112	10	112	410	4	0	0	0
La Ronge	83	193	338	75	193	138	0	0	0	0
Lethbridge	574	168	138	324	85	34	2	0	0	0
Lloydminster	295	24	86	90	2	0	0	0	0	0
Medicine Hat	729	92	214	268	2	4	0	0	0	0
Mont-Joli	49	10	191	10	118	7	0	0	0	0
Montréal/Mirabel International	490	139	41	128	24	204	72	0	246	168
Nanaimo	812	281	63	80	89	279	0	0	0	0
Norman Wells	195	125	206	6	6	20	140	0	0	0
North Bay	1,172	180	327	143	171	69	25	6	0	0
Ottawa/Gatineau	1,222	71	98	78	14	0	0	4	0	0
Peace River	218	80	356	24	0	0	0	0	0	0
Penticton	649	16	21	157	4	177	0	0	0	0
Port Hardy	40	98	118	63	150	10	8	0	0	0
Prince Albert	117	71	273	337	273	386	0	0	0	0
Prince Rupert	10	92	16	59	57	123	0	0	0	0
Rankin Inlet	0	6	248	149	257	172	120	0	0	0
Red Deer Regional	960	174	233	134	22	8	0	0	0	0
Rouyn-Noranda	140	6	348	9	202	190	63	0	0	0
Saint John	541	194	152	266	89	331	55	2	0	0
Sept-Îles	157	251	416	166	615	114	16	2	0	0
Sioux Lookout	194	106	1,362	475	0	0	0	0	0	0
Smithers	50	10	82	240	60	130	0	0	0	0
St Catharines	1,002	110	9	6	2	0	0	2	0	0
Sudbury	345	275	1,240	132	73	299	22	2	0	0
Terrace	238	70	133	163	112	215	0	0	0	0
Thompson	196	399	1,261	18	311	253	0	90	0	0
Timmins	146	181	857	121	438	124	0	0	0	0
Val-d'Or	236	17	233	17	294	74	23	0	75	0
Victoria Harbour	21	1,764	1,122	2	126	0	0	0	0	0
Wabush	46	37	126	60	437	2	0	0	0	0
Whitecourt	537	77	38	10	0	0	6	0	0	0
Williams Lake	204	14	68	431	4	0	2	2	0	0
Total of all flight service stations (52)	21,920	7,164	14,528	7,516	6,931	6,804	1,379	219	486	176

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	4,830	530	2,532	795	727	165	81
Transborder	37	0	11	0	26	0	0
Other international	10	9	1	0	0	0	0
Total	4,877	539	2,544	795	753	165	81
Boundary Bay							
Domestic	5,423	16	1,183	3,355	843	26	0
Transborder	14	0	1	3	10	0	0
Other international	2	0	0	0	2	0	0
Total	5,439	16	1,184	3,358	855	26	0
Calgary International							
Domestic	15,376	12,799	860	659	854	141	63
Transborder	3,556	3,192	79	12	273	0	0
Other international	685	678	3	0	4	0	0
Total	19,617	16,669	942	671	1,131	141	63
Calgary/Springbank							
Domestic	4,798	22	564	3,158	1,028	10	16
Transborder	29	2	1	1	25	0	0
Other international	0	0	0	0	0	0	0
Total	4,827	24	565	3,159	1,053	10	16
Chicoutimi/St-Honoré							
Domestic	2,017	17	543	1,352	103	2	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,017	17	543	1,352	103	2	0
Edmonton City Centre							
Domestic	5,041	1,357	653	1,736	849	398	48
Transborder	37	2	7	0	28	0	0
Other international	0	0	0	0	0	0	0
Total	5,078	1,359	660	1,736	877	398	48
Edmonton International							
Domestic	8,726	7,899	380	112	281	5	49
Transborder	1,584	1,516	11	0	55	0	2
Other international	314	310	0	0	4	0	0
Total	10,624	9,725	391	112	340	5	51
Edmonton/Villeneuve							
Domestic	1,222	2	253	761	160	40	6
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,223	2	253	761	161	40	6
Fort McMurray							
Domestic	3,331	2,226	431	304	327	32	11
Transborder	5	3	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	3,336	2,229	431	304	329	32	11
Gander International							
Domestic	1,079	351	587	5	19	12	105
Transborder	159	20	3	13	62	0	61
Other international	192	36	4	20	72	0	60
Total	1,430	407	594	38	153	12	226
Halifax/Robert L Stanfield International							
Domestic	5,137	4,281	400	29	164	36	227
Transborder	849	776	2	4	54	0	13
Other international	651	505	100	2	15	0	29
Total	6,637	5,562	502	35	233	36	269

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	2,021	994	346	189	342	141	9
Transborder	410	240	54	4	111	1	0
Other international	39	32	0	2	5	0	0
Total	2,470	1,266	400	195	458	142	9
Kelowna							
Domestic	3,644	2,206	211	821	299	80	27
Transborder	274	193	6	3	72	0	0
Other international	42	42	0	0	0	0	0
Total	3,960	2,441	217	824	371	80	27
Kitchener/Waterloo							
Domestic	3,891	258	2,260	620	708	11	34
Transborder	313	174	46	0	93	0	0
Other international	33	31	0	0	2	0	0
Total	4,237	463	2,306	620	803	11	34
Langley							
Domestic	2,280	98	108	1,246	795	33	0
Transborder	5	0	0	0	5	0	0
Other international	1	0	0	0	1	0	0
Total	2,286	98	108	1,246	801	33	0
London							
Domestic	6,283	870	1,084	3,654	584	81	10
Transborder	308	209	7	7	83	2	0
Other international	33	33	0	0	0	0	0
Total	6,624	1,112	1,091	3,661	667	83	10
Moncton/Greater Moncton International							
Domestic	6,861	1,502	5,025	70	113	136	15
Transborder	69	62	0	0	6	0	1
Other international	52	43	4	1	1	3	0
Total	6,982	1,607	5,029	71	120	139	16
Montréal/Pierre Elliott Trudeau International							
Domestic	9,689	7,890	691	305	582	212	9
Transborder	5,948	5,413	89	98	346	0	2
Other international	2,421	2,321	28	22	44	1	5
Total	18,058	15,624	808	425	972	213	16
Montréal/St-Hubert							
Domestic	8,423	3,953	394	2,569	1,217	123	167
Transborder	133	28	2	3	99	1	0
Other international	13	0	0	0	10	2	1
Total	8,569	3,981	396	2,572	1,326	126	168
Oshawa							
Domestic	2,331	105	106	1,517	588	7	8
Transborder	23	2	2	5	14	0	0
Other international	3	0	1	2	0	0	0
Total	2,357	107	109	1,524	602	7	8
Ottawa/Macdonald-Cartier International							
Domestic	8,672	4,782	406	2,396	363	535	190
Transborder	2,124	1,978	17	13	79	19	18
Other international	439	413	4	4	6	0	12
Total	11,235	7,173	427	2,413	448	554	220
Pitt Meadows							
Domestic	2,895	33	875	1,064	858	38	27
Transborder	5	0	2	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	2,900	33	877	1,064	861	38	27

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	1,853	1,203	324	68	147	106	5
Transborder	10	6	1	0	3	0	0
Other international	8	8	0	0	0	0	0
Total	1,871	1,217	325	68	150	106	5
Québec/Jean Lesage International							
Domestic	7,293	3,600	1,688	885	704	314	102
Transborder	446	399	3	11	33	0	0
Other international	380	316	13	4	42	1	4
Total	8,119	4,315	1,704	900	779	315	106
Regina International							
Domestic	3,121	1,771	689	43	186	264	168
Transborder	190	146	1	1	35	3	4
Other international	83	83	0	0	0	0	0
Total	3,394	2,000	690	44	221	267	172
Saskatoon/John G Diefenbaker International							
Domestic	5,215	2,648	984	679	440	387	77
Transborder	240	209	3	3	23	0	2
Other international	67	67	0	0	0	0	0
Total	5,522	2,924	987	682	463	387	79
Sault Ste. Marie							
Domestic	2,598	833	161	1,459	83	50	12
Transborder	15	0	4	1	9	1	0
Other international	11	11	0	0	0	0	0
Total	2,624	844	165	1,460	92	51	12
St. John's International							
Domestic	2,376	1,563	619	18	48	49	79
Transborder	166	63	0	9	22	0	72
Other international	202	96	3	12	21	2	68
Total	2,744	1,722	622	39	91	51	219
St-Jean							
Domestic	1,288	176	194	302	440	60	116
Transborder	1	0	0	0	0	0	1
Other international	0	0	0	0	0	0	0
Total	1,289	176	194	302	440	60	117
Thunder Bay							
Domestic	4,675	2,597	870	900	144	118	46
Transborder	158	120	7	7	23	1	0
Other international	9	9	0	0	0	0	0
Total	4,842	2,726	877	907	167	119	46
Toronto/Buttonville Municipal							
Domestic	6,164	288	682	3,486	1,623	84	1
Transborder	188	29	7	26	124	2	0
Other international	5	0	2	0	3	0	0
Total	6,357	317	691	3,512	1,750	86	1
Toronto/City Centre							
Domestic	3,547	1,017	885	1,213	374	8	50
Transborder	782	659	26	11	86	0	0
Other international	0	0	0	0	0	0	0
Total	4,329	1,676	911	1,224	460	8	50
Toronto/Lester B Pearson International							
Domestic	14,481	13,660	284	114	371	31	21
Transborder	15,403	14,612	96	69	626	0	0
Other international	5,051	4,970	8	42	31	0	0
Total	34,935	33,242	388	225	1,028	31	21

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	4,109	3,786	268	27	24	0	4
Transborder	55	51	1	1	2	0	0
Other international	1	1	0	0	0	0	0
Total	4,165	3,838	269	28	26	0	4
Vancouver International							
Domestic	20,008	17,203	1,414	310	542	517	22
Transborder	4,476	4,217	13	14	226	5	1
Other international	1,516	1,456	27	4	13	16	0
Total	26,000	22,876	1,454	328	781	538	23
Victoria International							
Domestic	6,414	2,577	1,941	833	813	45	205
Transborder	537	409	16	4	104	1	3
Other international	40	28	7	1	3	0	1
Total	6,991	3,014	1,964	838	920	46	209
Whitehorse International							
Domestic	1,005	506	315	20	125	38	1
Transborder	27	14	0	1	11	0	1
Other international	2	0	0	0	2	0	0
Total	1,034	520	315	21	138	38	2
Windsor							
Domestic	1,645	519	736	122	223	39	6
Transborder	55	10	14	1	26	0	4
Other international	22	12	3	0	7	0	0
Total	1,722	541	753	123	256	39	10
Winnipeg/James Armstrong Richardson International							
Domestic	9,078	7,587	481	62	154	422	372
Transborder	1,212	1,115	20	19	37	2	19
Other international	256	249	0	1	2	0	4
Total	10,546	8,951	501	82	193	424	395
Winnipeg/St. Andrews							
Domestic	2,978	582	1,596	631	144	10	15
Transborder	5	0	4	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,983	582	1,600	631	145	10	15
Yellowknife							
Domestic	3,363	2,800	345	44	27	86	61
Transborder	2	0	0	0	2	0	0
Other international	6	0	0	0	3	0	3
Total	3,371	2,800	345	44	32	86	64
Total of NAV CANADA towers (41)							
Domestic	215,181	117,107	34,368	37,933	18,416	4,892	2,465
Transborder	39,851	35,869	556	344	2,840	38	204
Other international	12,589	11,759	208	117	293	25	187
Total	267,621	164,735	35,132	38,394	21,549	4,955	2,856

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	623	103	208	71	104	28	109
Transborder	5	0	0	0	2	0	3
Other international	0	0	0	0	0	0	0
Total	628	103	208	71	106	28	112
Campbell River							
Domestic	1,565	573	484	266	188	38	16
Transborder	27	0	0	0	27	0	0
Other international	0	0	0	0	0	0	0
Total	1,592	573	484	266	215	38	16
Castlegar							
Domestic	600	257	48	256	33	2	4
Transborder	10	2	1	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	610	259	49	256	40	2	4
Charlottetown							
Domestic	1,401	654	288	239	108	86	26
Transborder	5	0	0	0	5	0	0
Other international	4	4	0	0	0	0	0
Total	1,410	658	288	239	113	86	26
Churchill							
Domestic	947	867	6	2	2	51	19
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	947	867	6	2	2	51	19
Cranbrook							
Domestic	728	577	48	8	64	15	16
Transborder	40	27	0	0	13	0	0
Other international	0	0	0	0	0	0	0
Total	768	604	48	8	77	15	16
Deer Lake							
Domestic	1,453	1,161	185	75	10	18	4
Transborder	3	0	0	0	3	0	0
Other international	4	3	0	0	1	0	0
Total	1,460	1,164	185	75	14	18	4
Fort Nelson							
Domestic	820	442	203	109	52	0	14
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	820	442	203	109	52	0	14
Fort St John							
Domestic	1,461	787	487	35	135	17	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,462	787	487	35	136	17	0
Fredericton International							
Domestic	5,179	740	4,120	107	108	48	56
Transborder	35	2	0	4	18	11	0
Other international	17	17	0	0	0	0	0
Total	5,231	759	4,120	111	126	59	56
Grande Prairie							
Domestic	2,224	1,132	734	70	263	22	3
Transborder	2	0	0	0	1	0	1
Other international	0	0	0	0	0	0	0
Total	2,226	1,132	734	70	264	22	4

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
High Level							
Domestic	699	206	364	80	35	14	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	699	206	364	80	35	14	0
Îles-de-la-Madeleine							
Domestic	747	323	186	16	5	217	0
Transborder	0	0	0	0	0	0	0
Other international	4	4	0	0	0	0	0
Total	751	327	186	16	5	217	0
Inuvik/Mike Zubko							
Domestic	995	227	703	8	0	34	23
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	995	227	703	8	0	34	23
Iqaluit							
Domestic	1,227	1,082	25	53	21	38	8
Transborder	33	7	15	4	5	0	2
Other international	66	26	0	11	25	0	4
Total	1,326	1,115	40	68	51	38	14
Kamloops							
Domestic	1,709	1,193	204	53	179	64	16
Transborder	36	5	4	2	25	0	0
Other international	2	0	0	1	0	0	0
Total	1,747	1,198	208	56	205	64	16
Kenora							
Domestic	757	362	253	26	70	12	34
Transborder	6	0	1	0	5	0	0
Other international	0	0	0	0	0	0	0
Total	763	362	254	26	75	12	34
Kingston							
Domestic	1,709	444	373	481	338	53	20
Transborder	23	4	0	0	18	1	0
Other international	0	0	0	0	0	0	0
Total	1,732	448	373	481	356	54	20
Kuujuaq							
Domestic	856	742	65	0	8	35	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	856	742	65	0	8	35	6
La Grande Rivière							
Domestic	699	528	128	6	23	14	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	700	528	128	6	24	14	0
La Ronge							
Domestic	1,020	894	15	19	4	68	20
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,020	894	15	19	4	68	20
Lethbridge							
Domestic	1,262	466	47	416	254	25	54
Transborder	63	0	3	10	50	0	0
Other international	0	0	0	0	0	0	0
Total	1,325	466	50	426	304	25	54
Lloydminster							
Domestic	497	116	128	17	194	32	10
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	497	116	128	17	194	32	10

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Medicine Hat							
Domestic	1,307	945	68	70	182	18	24
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,309	945	68	70	184	18	24
Mont-Joli							
Domestic	385	274	59	24	20	8	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	385	274	59	24	20	8	0
Montréal/Mirabel International							
Domestic	1,342	571	247	120	348	4	52
Transborder	169	160	0	0	9	0	0
Other international	1	1	0	0	0	0	0
Total	1,512	732	247	120	357	4	52
Nanaimo							
Domestic	1,570	462	423	140	449	84	12
Transborder	34	0	3	1	30	0	0
Other international	0	0	0	0	0	0	0
Total	1,604	462	426	141	479	84	12
Norman Wells							
Domestic	698	572	80	32	1	13	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	698	572	80	32	1	13	0
North Bay							
Domestic	2,078	541	437	679	256	76	89
Transborder	15	0	0	5	6	2	2
Other international	0	0	0	0	0	0	0
Total	2,093	541	437	684	262	78	91
Ottawa/Gatineau							
Domestic	1,483	110	229	288	720	88	48
Transborder	4	0	0	1	3	0	0
Other international	0	0	0	0	0	0	0
Total	1,487	110	229	289	723	88	48
Peace River							
Domestic	678	364	261	8	33	12	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	678	364	261	8	33	12	0
Penticton							
Domestic	1,011	326	374	49	168	12	82
Transborder	13	1	0	1	11	0	0
Other international	0	0	0	0	0	0	0
Total	1,024	327	374	50	179	12	82
Port Hardy							
Domestic	477	324	14	13	37	63	26
Transborder	10	0	0	0	6	0	4
Other international	0	0	0	0	0	0	0
Total	487	324	14	13	43	63	30
Prince Albert							
Domestic	1,457	1,081	79	53	95	147	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,457	1,081	79	53	95	147	2

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Prince Rupert							
Domestic	354	218	74	15	15	24	8
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	357	218	74	15	18	24	8
Rankin Inlet							
Domestic	952	922	1	0	5	22	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	952	922	1	0	5	22	2
Red Deer Regional							
Domestic	1,518	270	587	166	468	17	10
Transborder	13	0	3	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	1,531	270	590	166	478	17	10
Rouyn-Noranda							
Domestic	958	576	143	62	143	34	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	958	576	143	62	143	34	0
Saint John							
Domestic	1,503	727	569	31	150	4	22
Transborder	112	0	2	1	107	2	0
Other international	15	14	0	0	1	0	0
Total	1,630	741	571	32	258	6	22
Sept-Îles							
Domestic	1,728	1,296	274	26	62	68	2
Transborder	7	0	0	3	4	0	0
Other international	2	0	0	2	0	0	0
Total	1,737	1,296	274	31	66	68	2
Sioux Lookout							
Domestic	2,137	1,700	316	49	21	47	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,137	1,700	316	49	21	47	4
Smithers							
Domestic	571	472	40	10	33	16	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	572	472	40	10	34	16	0
St Catharines							
Domestic	1,097	0	593	96	270	24	114
Transborder	34	0	7	4	23	0	0
Other international	0	0	0	0	0	0	0
Total	1,131	0	600	100	293	24	114
Sudbury							
Domestic	2,366	1,428	537	71	249	71	10
Transborder	22	5	1	1	15	0	0
Other international	0	0	0	0	0	0	0
Total	2,388	1,433	538	72	264	71	10
Terrace							
Domestic	929	575	219	88	11	36	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	931	575	219	88	13	36	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	2,528	2,077	260	5	14	170	2
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	2,528	2,077	260	5	14	170	2
Timmins							
Domestic	1,867	1,460	231	10	132	28	6
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,867	1,460	231	10	132	28	6
Val-d'Or							
Domestic	969	678	55	22	192	22	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	969	678	55	22	192	22	0
Victoria Harbour							
Domestic	2,838	2,630	16	2	10	158	22
Transborder	197	0	0	0	193	0	4
Other international	0	0	0	0	0	0	0
Total	3,035	2,630	16	2	203	158	26
Wabush							
Domestic	707	579	91	8	27	2	0
Transborder	1	0	0	1	0	0	0
Other international	0	0	0	0	0	0	0
Total	708	579	91	9	27	2	0
Whitecourt							
Domestic	668	32	367	237	22	10	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	668	32	367	237	22	10	0
Williams Lake							
Domestic	725	485	86	59	87	4	4
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	725	485	86	59	87	4	4
Total of all flight service stations (52)							
Domestic	66,079	35,571	16,032	4,846	6,418	2,213	999
Transborder	929	213	40	38	606	16	16
Other international	115	69	0	14	28	0	4
Total	67,123	35,853	16,072	4,898	7,052	2,229	1,019

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	14	11,655	21	14	104	25	719
Boundary Bay	8	14,071	13	13	106	21	872
Calgary International	4	19,711	19	18	64	19	802
Calgary/Springbank	11	12,574	12	15	124	6	934
Chicoutimi/St-Honoré	24	6,616	18	16	251	18	835
Edmonton City Centre	26	5,925	24	14	47	4	327
Edmonton International	16	10,892	24	11	43	12	465
Edmonton/Villeneuve	28	5,657	31	13	82	17	446
Fort McMurray	33	4,040	1	12	39	19	210
Gander International	40	2,054	17	15	26	6	155
Halifax/Robert L Stanfield International	23	7,041	26	17	43	10	332
Hamilton	36	3,022	2	10	32	4	158
Kelowna	30	5,512	24	16	62	24	291
Kitchener/Waterloo	17	10,364	14	11	82	20	654
Langley	27	5,696	6	15	69	21	454
London	6	14,846	27	21	110	20	879
Moncton/Greater Moncton International	10	13,246	9	11	70	10	771
Montréal/Pierre Elliott Trudeau International	5	18,058	12	18	61	12	684
Montréal/St-Hubert	3	20,227	31	11	151	31	1,412
Oshawa	29	5,563	21	15	68	16	405
Ottawa/Macdonald-Cartier International	7	14,630	3	16	78	17	636
Pitt Meadows	21	7,686	6	14	104	22	657
Prince George	35	3,588	19	14	81	16	247
Québec/Jean Lesage International	13	11,878	17	12	84	16	696
Regina International	31	5,026	26	17	44	26	387
Saskatoon/John G Diefenbaker International	19	8,521	27	20	66	4	528
Sault Ste. Marie	25	6,220	12	19	108	12	493
St. John's International	37	3,006	5	8	30	5	171
St-Jean	39	2,233	19	15	48	28	241
Thunder Bay	22	7,072	30	11	64	2	512
Toronto/Buttonville Municipal	12	12,316	31	11	101	27	734
Toronto/City Centre	20	8,093	27	15	68	27	455
Toronto/Lester B Pearson International	1	34,935	5	18	94	12	1,241
Vancouver Harbour	32	4,165	11	17	28	11	188
Vancouver International	2	26,000	20	16	85	6	1,002
Victoria International	9	13,672	13	14	103	11	705
Whitehorse International	41	1,905	27	11	37	27	183
Windsor	38	2,586	22	16	36	3	165
Winnipeg/James Armstrong Richardson International	15	11,202	19	15	54	27	552
Winnipeg/St. Andrews	18	8,921	19	16	112	7	553
Yellowknife	34	4,009	22	11	38	2	197

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	35	1,028	17	13	30	17	100
Campbell River	9	2,680	22	14	48	11	225
Castlegar	40	848	25	14	40	26	109
Charlottetown	19	2,057	10	21	36	28	209
Churchill	37	947	2	11	8	19	45
Cranbrook	41	824	28	12	11	12	49
Deer Lake	26	1,520	31	15	22	18	94
Fort Nelson	38	944	15	12	18	4	73
Fort St John	12	2,343	31	9	52	31	226
Fredericton International	1	9,503	21	2	49	26	657
Grande Prairie	4	3,144	2	14	44	14	161
High Level	23	1,891	19	11	63	18	268
Îles-de-la-Madeleine	43	751	22	15	9	25	48
Inuvik/Mike Zubko	34	1,037	28	17	14	2	63
Iqaluit	28	1,374	31	11	13	31	74
Kamloops	16	2,163	25	11	42	11	143
Kenora	33	1,041	3	16	23	3	64
Kingston	7	2,866	14	10	49	1	175
Kuujuuaq	39	904	21	11	17	21	48
La Grande Rivière	48	702	2	10	9	23	46
La Ronge	31	1,092	20	16	16	17	73
Lethbridge	22	1,895	3	20	36	3	142
Lloydminster	46	713	20	11	37	20	78
Medicine Hat	15	2,183	30	11	36	20	148
Mont-Joli	51	427	31	15	13	31	42
Montréal/Mirabel International	18	2,088	20	15	28	24	137
Nanaimo	14	2,240	10	16	42	12	250
Norman Wells	45	718	28	10	11	30	34
North Bay	2	5,681	19	9	66	31	504
Ottawa/Gatineau	3	3,955	1	13	61	28	274
Peace River	44	726	9	17	22	9	64
Penticton	20	2,056	31	13	49	25	231
Port Hardy	50	505	11	13	7	19	29
Prince Albert	27	1,485	26	12	19	26	104
Prince Rupert	52	419	3	11	19	3	36
Rankin Inlet	36	952	4	12	9	20	49
Red Deer Regional	10	2,671	30	14	41	12	223
Rouyn-Noranda	30	1,112	22	10	19	3	66
Saint John	25	1,756	10	9	23	10	161
Sept-Îles	24	1,763	16	17	14	16	84
Sioux Lookout	17	2,143	13	8	16	12	109
Smithers	49	614	31	16	16	31	42
St Catharines	8	2,743	15	13	61	20	205
Sudbury	6	2,962	28	16	58	28	207
Terrace	32	1,059	16	15	23	20	65
Thompson	11	2,580	10	15	16	10	130
Timmins	21	1,941	31	17	26	9	107
Val-d'Or	29	1,179	5	10	31	31	113
Victoria Harbour	5	3,037	5	16	23	12	158
Wabush	47	708	17	10	9	5	47
Whitecourt	13	2,342	9	11	40	9	163
Williams Lake	42	803	16	12	20	21	46

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	18	4,877	11	16	42	26	331
Boundary Bay	16	5,439	21	15	62	21	416
Calgary International	3	19,617	19	18	64	19	776
Calgary/Springbank	20	4,827	21	14	49	12	336
Chicoutimi/St-Honoré	35	2,017	20	15	23	17	175
Edmonton City Centre	17	5,078	24	14	30	4	257
Edmonton International	6	10,624	3	8	39	12	433
Edmonton/Villeneuve	40	1,223	12	11	12	19	84
Fort McMurray	27	3,336	19	9	20	19	178
Gander International	38	1,430	5	14	12	11	99
Halifax/Robert L Stanfield International	12	6,637	26	17	29	10	276
Hamilton	32	2,470	15	12	19	4	122
Kelowna	24	3,960	25	10	21	23	169
Kitchener/Waterloo	22	4,237	27	14	34	15	238
Langley	34	2,286	21	15	34	21	192
London	13	6,624	27	11	43	27	370
Moncton/Greater Moncton International	11	6,982	4	12	33	10	411
Montréal/Pierre Elliott Trudeau International	4	18,058	12	18	61	12	684
Montréal/St-Hubert	8	8,569	17	14	55	17	505
Oshawa	33	2,357	21	11	23	28	140
Ottawa/Macdonald-Cartier International	5	11,235	3	16	44	12	473
Pitt Meadows	29	2,900	29	15	47	29	261
Prince George	36	1,871	18	16	15	18	94
Québec/Jean Lesage International	9	8,119	4	14	37	10	365
Regina International	25	3,394	27	13	18	26	165
Saskatoon/John G Diefenbaker International	15	5,522	6	14	30	4	266
Sault Ste. Marie	31	2,624	31	9	16	12	139
St. John's International	30	2,744	3	17	12	6	123
St-Jean	39	1,289	28	13	36	28	211
Thunder Bay	19	4,842	2	13	28	12	250
Toronto/Buttonville Municipal	14	6,357	27	12	50	14	360
Toronto/City Centre	21	4,329	14	13	28	27	219
Toronto/Lester B Pearson International	1	34,935	5	18	94	12	1,241
Vancouver Harbour	23	4,165	11	17	28	11	188
Vancouver International	2	26,000	20	16	85	6	1,002
Victoria International	10	6,991	21	15	38	12	334
Whitehorse International	41	1,034	10	17	10	28	48
Windsor	37	1,722	4	16	11	3	83
Winnipeg/James Armstrong Richardson International	7	10,546	19	15	44	27	470
Winnipeg/St. Andrews	28	2,983	12	16	23	14	171
Yellowknife	26	3,371	4	10	19	4	150

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	46	628	27	12	14	30	46
Campbell River	14	1,592	11	16	18	29	129
Castlegar	47	610	30	12	9	23	44
Charlottetown	21	1,410	10	19	14	28	95
Churchill	32	947	2	11	8	19	45
Cranbrook	36	768	12	11	7	26	38
Deer Lake	19	1,460	6	8	11	11	72
Fort Nelson	35	820	10	10	11	19	57
Fort St John	18	1,462	3	10	13	25	72
Fredericton International	1	5,231	10	14	27	10	342
Grande Prairie	5	2,226	13	15	16	5	113
High Level	42	699	2	11	8	18	52
Îles-de-la-Madeleine	38	751	22	15	9	25	48
Inuvik/Mike Zubko	28	995	16	14	9	2	51
Iqaluit	22	1,326	10	12	9	2	61
Kamloops	9	1,747	17	9	13	26	81
Kenora	37	763	10	9	9	5	42
Kingston	11	1,732	1	12	15	1	93
Kuujuuaq	34	856	9	14	9	16	47
La Grande Rivière	41	700	2	10	9	23	46
La Ronge	27	1,020	17	8	11	17	63
Lethbridge	23	1,325	4	15	17	30	90
Lloydminster	49	497	11	16	7	26	35
Medicine Hat	24	1,309	21	14	25	20	94
Mont-Joli	51	385	13	18	8	12	26
Montréal/Mirabel International	16	1,512	4	11	14	12	83
Nanaimo	13	1,604	6	12	20	12	126
Norman Wells	43	698	20	15	9	17	32
North Bay	7	2,093	31	15	20	31	138
Ottawa/Gatineau	17	1,487	28	10	26	28	146
Peace River	44	678	5	16	8	19	43
Penticton	26	1,024	12	16	13	26	66
Port Hardy	50	487	11	13	7	19	29
Prince Albert	20	1,457	26	12	19	26	102
Prince Rupert	52	357	3	12	7	8	25
Rankin Inlet	31	952	4	12	9	20	49
Red Deer Regional	15	1,531	11	21	19	12	113
Rouyn-Noranda	30	958	23	17	10	3	58
Saint John	12	1,630	10	9	17	10	119
Sept-Îles	10	1,737	4	10	12	9	79
Sioux Lookout	6	2,137	13	8	16	12	109
Smithers	48	572	30	11	6	30	28
St Catharines	25	1,131	27	11	17	14	98
Sudbury	4	2,388	12	18	15	2	104
Terrace	33	931	10	15	11	9	61
Thompson	3	2,528	10	15	16	10	122
Timmins	8	1,867	30	15	16	9	107
Val-d'Or	29	969	20	16	7	20	48
Victoria Harbour	2	3,035	5	16	23	12	158
Wabush	40	708	17	10	9	5	47
Whitecourt	45	668	30	17	9	24	47
Williams Lake	39	725	26	9	8	23	37

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	6,778	10	14	76	25	402
Boundary Bay	2	8,632	6	21	92	5	486
Calgary International	37	94	19	10	10	19	26
Calgary/Springbank	4	7,747	6	11	96	6	636
Chicoutimi/St-Honoré	12	4,599	18	16	237	18	719
Edmonton City Centre	28	847	1	15	26	25	84
Edmonton International	35	268	24	11	22	12	32
Edmonton/Villeneuve	13	4,434	31	13	70	17	382
Fort McMurray	29	704	1	12	30	25	63
Gander International	32	624	8	22	20	6	72
Halifax/Robert L Stanfield International	34	404	31	13	20	10	56
Hamilton	33	552	2	10	30	2	53
Kelowna	24	1,552	24	15	52	24	170
Kitchener/Waterloo	8	6,127	20	21	68	20	422
Langley	17	3,410	20	13	52	21	262
London	3	8,222	27	21	92	20	520
Moncton/Greater Moncton International	7	6,264	19	8	52	28	402
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	1	11,658	31	11	122	31	1,068
Oshawa	19	3,206	16	20	52	16	268
Ottawa/Macdonald-Cartier International	18	3,395	22	21	52	24	194
Pitt Meadows	11	4,786	21	15	74	22	412
Prince George	22	1,717	19	14	75	16	165
Québec/Jean Lesage International	15	3,759	17	12	52	16	365
Regina International	23	1,632	26	17	34	26	222
Saskatoon/John G Diefenbaker International	20	2,999	27	20	56	27	268
Sault Ste. Marie	16	3,596	12	19	96	12	354
St. John's International	36	262	5	8	24	5	64
St-Jean	25	944	19	15	46	15	108
Thunder Bay	21	2,230	15	9	50	2	287
Toronto/Buttonville Municipal	9	5,959	31	11	64	16	388
Toronto/City Centre	14	3,764	3	12	50	3	276
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	6	6,681	13	14	80	11	390
Whitehorse International	26	871	27	11	34	27	136
Windsor	27	864	12	20	28	3	82
Winnipeg/James Armstrong Richardson International	30	656	31	11	26	27	82
Winnipeg/St. Andrews	10	5,938	19	16	94	7	406
Yellowknife	31	638	22	11	30	22	82

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	20	400	17	13	28	17	72
Campbell River	9	1,088	16	13	42	16	130
Castlegar	22	238	25	14	36	26	70
Charlottetown	14	647	6	12	28	28	114
Churchill	0	0	0	0	0	0	0
Cranbrook	34	56	28	12	10	12	12
Deer Lake	33	60	18	9	18	18	30
Fort Nelson	28	124	15	12	16	15	30
Fort St John	12	881	31	9	46	31	165
Fredericton International	1	4,272	8	1	36	26	324
Grande Prairie	11	918	2	14	36	14	96
High Level	6	1,192	19	11	60	18	216
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	39	42	2	6	8	2	12
Iqaluit	36	48	31	11	10	31	16
Kamloops	19	416	25	11	36	11	68
Kenora	21	278	3	16	22	3	38
Kingston	8	1,134	14	10	36	18	124
Kuujuuaq	37	48	21	11	12	21	20
La Grande Rivière	48	2	6	12	2	6	2
La Ronge	31	72	6	14	12	6	22
Lethbridge	18	570	3	20	28	3	88
Lloydminster	23	216	20	11	34	20	62
Medicine Hat	13	874	26	16	24	24	80
Mont-Joli	41	42	31	15	12	31	18
Montréal/Mirabel International	16	576	8	16	22	24	56
Nanaimo	15	636	10	16	28	12	124
Norman Wells	44	20	28	10	10	28	10
North Bay	2	3,588	19	9	58	31	366
Ottawa/Gatineau	3	2,468	3	13	56	13	176
Peace River	38	48	9	17	20	9	36
Penticton	10	1,032	31	13	45	25	186
Port Hardy	45	18	8	10	4	3	6
Prince Albert	42	28	1	10	6	1	6
Prince Rupert	32	62	3	11	14	3	14
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	7	1,140	31	17	28	12	110
Rouyn-Noranda	25	154	22	10	18	19	22
Saint John	27	126	10	16	10	10	42
Sept-Îles	43	26	24	14	8	24	10
Sioux Lookout	46	6	1	18	2	1	2
Smithers	40	42	31	16	16	31	26
St Catharines	5	1,612	15	13	46	20	156
Sudbury	17	574	28	16	52	28	154
Terrace	26	128	27	14	22	20	38
Thompson	35	52	8	19	6	8	10
Timmins	30	74	31	17	22	31	22
Val-d'Or	24	210	5	10	28	31	76
Victoria Harbour	47	2	10	11	2	10	2
Wabush	0	0	0	0	0	0	0
Whitecourt	4	1,674	9	11	38	9	144
Williams Lake	29	78	16	12	16	16	16

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	6,775	10	14	76	25	402
Boundary Bay	2	8,632	6	21	92	5	486
Calgary International	37	94	19	10	10	19	26
Calgary/Springbank	4	7,745	6	11	96	6	636
Chicoutimi/St-Honoré	12	4,599	18	16	237	18	719
Edmonton City Centre	28	841	1	15	26	25	84
Edmonton International	35	260	24	11	22	12	32
Edmonton/Villeneuve	13	4,434	31	13	70	17	382
Fort McMurray	29	687	25	19	27	25	63
Gander International	33	524	8	22	20	6	62
Halifax/Robert L Stanfield International	34	312	31	13	20	28	56
Hamilton	31	552	2	10	30	2	53
Kelowna	23	1,547	24	15	52	24	168
Kitchener/Waterloo	8	6,123	20	21	68	20	422
Langley	17	3,406	20	13	52	21	262
London	3	8,222	27	21	92	20	520
Moncton/Greater Moncton International	7	6,264	19	8	52	28	402
Montréal/Pierre Elliott Trudeau International	0	0	0	0	0	0	0
Montréal/St-Hubert	1	11,656	31	11	122	31	1,068
Oshawa	19	3,206	16	20	52	16	268
Ottawa/Macdonald-Cartier International	18	3,395	22	21	52	24	194
Pitt Meadows	11	4,786	21	15	74	22	412
Prince George	22	1,717	19	14	75	16	165
Québec/Jean Lesage International	15	3,759	17	12	52	16	365
Regina International	24	1,519	26	17	34	26	222
Saskatoon/John G Diefenbaker International	20	2,923	27	20	56	27	268
Sault Ste. Marie	16	3,594	12	19	96	12	354
St. John's International	36	250	5	8	24	5	64
St-Jean	25	944	19	15	46	15	108
Thunder Bay	21	2,230	15	9	50	2	287
Toronto/Buttonville Municipal	9	5,952	31	11	64	16	388
Toronto/City Centre	14	3,764	3	12	50	3	276
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	6	6,413	13	14	80	11	390
Whitehorse International	26	871	27	11	34	27	136
Windsor	27	864	12	20	28	3	82
Winnipeg/James Armstrong Richardson International	32	526	27	12	18	27	66
Winnipeg/St. Andrews	10	5,938	19	16	94	7	406
Yellowknife	30	580	22	11	30	22	82

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	20	378	17	13	28	17	72
Campbell River	9	1,088	16	13	42	16	130
Castlegar	21	238	25	14	36	26	70
Charlottetown	14	647	6	12	28	28	114
Churchill	0	0	0	0	0	0	0
Cranbrook	36	48	28	12	10	12	12
Deer Lake	33	60	18	9	18	18	30
Fort Nelson	27	124	15	12	16	15	30
Fort St John	12	881	31	9	46	31	165
Fredericton International	1	4,266	8	1	36	26	324
Grande Prairie	11	918	2	14	36	14	96
High Level	6	1,192	19	11	60	18	216
Îles-de-la-Madeleine	0	0	0	0	0	0	0
Inuvik/Mike Zubko	41	28	2	6	8	2	12
Iqaluit	35	48	31	11	10	31	16
Kamloops	19	414	25	11	36	11	68
Kenora	22	222	3	16	22	3	38
Kingston	8	1,130	14	10	36	18	124
Kuujuuaq	38	46	21	11	12	21	20
La Grande Rivière	47	2	6	12	2	6	2
La Ronge	31	72	6	14	12	6	22
Lethbridge	17	570	3	20	28	3	88
Lloydminster	23	216	20	11	34	20	62
Medicine Hat	13	864	26	16	24	24	80
Mont-Joli	39	42	31	15	12	31	18
Montréal/Mirabel International	18	540	8	16	22	24	54
Nanaimo	15	636	10	16	28	12	124
Norman Wells	44	20	28	10	10	28	10
North Bay	2	3,584	19	9	58	31	366
Ottawa/Gatineau	3	2,462	3	13	56	13	176
Peace River	37	48	9	17	20	9	36
Penticton	10	1,032	31	13	45	25	186
Port Hardy	45	12	8	10	4	8	4
Prince Albert	42	28	1	10	6	1	6
Prince Rupert	32	62	3	11	14	3	14
Rankin Inlet	0	0	0	0	0	0	0
Red Deer Regional	7	1,140	31	17	28	12	110
Rouyn-Noranda	25	154	22	10	18	19	22
Saint John	28	114	10	16	10	10	42
Sept-Îles	43	26	24	14	8	24	10
Sioux Lookout	46	6	1	18	2	1	2
Smithers	40	42	31	16	16	31	26
St Catharines	5	1,612	15	13	46	20	156
Sudbury	16	574	28	16	52	28	154
Terrace	26	128	27	14	22	20	38
Thompson	34	52	8	19	6	8	10
Timmins	30	74	31	17	22	31	22
Val-d'Or	24	210	5	10	28	31	76
Victoria Harbour	48	2	10	11	2	10	2
Wabush	0	0	0	0	0	0	0
Whitecourt	4	1,674	9	11	38	9	144
Williams Lake	29	78	16	12	16	16	16

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	16	3	24	15	2	24	2
Boundary Bay	0	0	0	0	0	0	0
Calgary International	0	0	0	0	0	0	0
Calgary/Springbank	19	2	30	13	2	30	2
Chicoutimi/St-Honoré	0	0	0	0	0	0	0
Edmonton City Centre	12	6	9	16	2	9	2
Edmonton International	10	8	18	11	2	18	4
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	8	17	1	12	17	1	17
Gander International	4	100	6	13	10	26	14
Halifax/Robert L Stanfield International	5	92	9	21	14	26	32
Hamilton	0	0	0	0	0	0	0
Kelowna	13	5	19	14	2	19	2
Kitchener/Waterloo	14	4	11	11	2	11	4
Langley	15	4	25	16	2	25	2
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	18	2	23	10	2	23	2
Oshawa	0	0	0	0	0	0	0
Ottawa/Macdonald-Cartier International	0	0	0	0	0	0	0
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	0	0	0	0	0	0	0
Regina International	3	113	6	20	30	6	56
Saskatoon/John G Diefenbaker International	6	76	19	22	18	19	48
Sault Ste. Marie	17	2	4	10	2	4	2
St. John's International	9	12	14	12	8	14	12
St-Jean	0	0	0	0	0	0	0
Thunder Bay	0	0	0	0	0	0	0
Toronto/Buttonville Municipal	11	7	9	12	7	9	7
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	268	3	19	24	2	56
Whitehorse International	0	0	0	0	0	0	0
Windsor	0	0	0	0	0	0	0
Winnipeg/James Armstrong Richardson International	2	130	31	11	16	19	20
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	7	58	23	14	14	23	20

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	3	22	5	14	10	5	20
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	7	8	4	16	8	4	8
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	9	6	16	11	6	16	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	4	14	28	17	8	28	10
Iqaluit	0	0	0	0	0	0	0
Kamloops	14	2	21	17	2	21	2
Kenora	1	56	19	10	18	19	20
Kingston	12	4	14	12	4	14	4
Kuujuuaq	13	2	13	12	2	13	2
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	6	10	11	20	6	11	6
Mont-Joli	0	0	0	0	0	0	0
Montréal/Mirabel International	2	36	13	12	10	13	10
Nanaimo	0	0	0	0	0	0	0
Norman Wells	0	0	0	0	0	0	0
North Bay	11	4	3	9	4	3	4
Ottawa/Gatineau	8	6	5	12	6	5	6
Peace River	0	0	0	0	0	0	0
Penticton	0	0	0	0	0	0	0
Port Hardy	10	6	3	12	2	3	6
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	5	12	27	11	8	27	12
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

Effective March 2009 Unaalik Aviation, on behalf of First Air, operates 5 scheduled flights between Rankin Inlet and Baker Lake.

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

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

Local movements

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

Other commercial

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

Power plant

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

Private aircraft

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

Runway 88

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

Data for these runways are not included in 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.