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



June 2013



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Statistics Canada
Transportation Division

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

June 2013

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Symbols

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- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published
- * significantly different from reference category ($p < 0.05$)

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Highlights

There were 496,331 aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in June 2013 compared with 507,063 movements in June 2012. This represents a decrease of 2.1%.

Itinerant movements (flights from one airport to another) decreased 1.3% (-4,884 movements) in June 2013 from the same month in 2012. These airports reported 362,778 movements compared with 367,662 movements in June 2012.

There were 133,553 local movements (flights that remain in the vicinity of the airport) in June 2013 compared with 139,401 movements in June 2012 (a decrease of 4.2 %).

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

	NAV CANADA towers	Percentage change, June 2012 to June 2013	NAV CANADA Flight Service Stations	Percentage change, June 2012 to June 2013	Total	Percentage change, June 2012 to June 2013
	number	percent	number	percent	number	percent
Grand total	395,362	-0.6	100,969	-7.6	496,331	-2.1
Itinerant movements						
Air carriers	219,148	-1.0	57,731	-3.4	276,879	-1.5
Other commercial movements	24,300	1.2	4,237	12.8	28,537	2.7
Private movements	33,317	-1.7	12,161	-5.0	45,478	-2.6
Government civil movements	4,897	-6.5	2,746	6.1	7,643	-2.3
Government military movements	3,408	5.7	833	-16.5	4,241	0.4
Itinerant total	285,070	-0.9	77,708	-2.8	362,778	-1.3
Local movements						
Civil local movements	109,746	0.2	23,123	-20.7	132,869	-4.2
Military local movements	546	-5.5	138	-8.0	684	-6.0
Local total	110,292	0.2	23,261	-20.7	133,553	-4.2

Analysis

There were 496,331 aircraft take-offs and landings at the 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in June 2013 compared with 507,063 movements in June 2012. Year-over-year decreases were reported by 52 airports. Toronto/Lester B. Pearson International, Ontario (36,620 movements) and Vancouver International, British Columbia (27,277 movements) were the most active sites in June.

Itinerant movements (flights from one airport to another) decreased 1.3% (-4,884 movements) in June 2013 from the same month the previous year. These airports reported 362,778 movements compared with 367,662 movements in June 2012. Year-over-year variations ranged from an increase of 1,406 movements (+12.5%) at Edmonton International, Alberta to a drop of 1,502 movements (-32.0%) at Edmonton City Centre, Alberta. Fifty airports reported year-over-year decreases in the number of itinerant aircraft movements in June 2013.

In June 2013, there were 133,553 local movements (flights that remain in the vicinity of the airport) recorded. This represents a decrease of 4.2% (-5,848 movements) compared with the previous year. Montréal/St-Hubert, Quebec (8,990 movements) and Boundary Bay, British Columbia (8,934 movements) recorded the largest number of local movements.

Itinerant movements: domestic, transborder and international

There were 309,396 domestic itinerant movements reported by 93 Canadian airports with NAV CANADA air traffic control towers and flight service stations in June 2013, down 1.3% (-3,993 movements) from June 2012. Year-over-year variations ranged from an increase of 1,332 movements (+13.5%) at Edmonton International, Alberta to a drop of 1,502 movements (-32.1%) at Edmonton City Centre, Alberta. Fifty-one airports reported year-over-year decreases in the number of domestic movements in June 2013.

Eighty-seven airports recorded 42,656 transborder itinerant movements (between Canada and the United States) in June 2013, down 2.8% (-1,229 movements) from the same month in 2012. Toronto/Lester B. Pearson International, Ontario (14,886 movements) reported the greatest number of transborder itinerant movements.

In June 2013, forty-one airports reported 10,726 other international itinerant movements, up 3.3% from June 2012. Toronto/Lester B. Pearson International, Ontario, recorded 5,086 other international itinerant movements. This represents 47.4% of the total other international itinerant movements reported.

Related products

Selected publications from Statistics Canada

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

Selected CANSIM tables from Statistics Canada

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

401-0018	Itinerant movements, by type of power plant, airports with NAV CANADA flight service stations, monthly
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401-0037	Annual aircraft movements, by class of operation and type of operation, airports without air traffic control towers
401-0038	Annual itinerant movements, by weight group and type of power plant, airports without air traffic control towers

Selected surveys from Statistics Canada

2715	Aircraft Movement Statistics
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Selected summary tables from Statistics Canada

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

Statistical tables

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

	Total		Itinerant		Local	
	Rank of movements	Number of movements	Rank of movements	Number of movements	Rank of movements	Number of movements
Abbotsford	18	8,358	28	3,400	7	4,958
Boundary Bay	6	15,653	14	6,719	2	8,934
Calgary International	3	20,733	3	20,585	38	148
Calgary/Springbank	14	10,617	18	5,083	6	5,534
Chicoutimi/St-Honoré	27	6,234	38	2,098	10	4,136
Edmonton City Centre	38	3,773	30	3,187	34	586
Edmonton International	9	12,894	5	12,622	36	272
Edmonton/Villeneuve	39	3,529	42	1,071	16	2,458
Fort McMurray	17	9,002	8	8,228	33	774
Fredericton International	22	7,246	27	3,436	11	3,810
Gander International	41	2,956	40	1,980	30	976
Halifax/Robert L. Stanfield International	23	7,180	13	6,842	35	338
Hamilton	40	3,500	37	2,440	27	1,060
Kelowna	25	6,601	21	4,569	20	2,032
Kitchener/Waterloo	10	11,876	20	4,700	4	7,176
Langley	33	4,466	35	2,624	23	1,842
London	26	6,571	26	3,617	15	2,954
Moncton/Greater Moncton International	30	4,828	29	3,228	24	1,600
Montréal/Pierre Elliott Trudeau International	4	19,155	4	19,061	40	94
Montréal/St-Hubert	5	16,069	12	7,079	1	8,990
Oshawa	32	4,627	34	2,703	22	1,924
Ottawa/Macdonald-Cartier International	8	13,757	6	10,423	13	3,334
Pitt Meadows	19	8,105	31	3,171	8	4,934
Prince George	35	3,952	36	2,540	26	1,412
Québec/Jean Lesage International	15	9,953	11	7,523	17	2,430
Regina International	29	5,157	24	3,639	25	1,518
Saskatoon/John G. Diefenbaker International	20	7,714	17	5,656	19	2,058
Sault Ste. Marie	21	7,445	32	2,873	9	4,572
St. John's International	36	3,787	25	3,623	37	164
St-Jean	34	4,043	39	2,027	21	2,016
Thunder Bay	24	7,074	19	4,944	18	2,130
Toronto/Billy Bishop Toronto City	13	10,826	10	7,638	14	3,188
Toronto/Buttonville Municipal	7	14,279	15	5,877	3	8,402
Toronto/Lester B. Pearson International	1	36,620	1	36,548	41	72
Vancouver Harbour	28	5,776	16	5,766	42	10
Vancouver International	2	27,277	2	27,181	39	96
Victoria International	11	11,502	9	7,856	12	3,646
Whitehorse International	37	3,781	33	2,777	28	1,004
Windsor	42	2,564	41	1,710	31	854
Winnipeg/James Armstrong Richardson International	12	11,348	7	10,352	29	996
Winnipeg/St. Andrews	16	9,791	23	3,737	5	6,054
Yellowknife	31	4,743	22	3,937	32	806
Total of NAV CANADA towers (42)	.	395,362	.	285,070	.	110,292

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	36	1,436	43	804	13	632
Campbell River	19	2,271	25	1,439	11	832
Castlegar	49	595	49	469	31	126
Charlottetown	37	1,366	35	1,166	25	200
Churchill	46	787	47	751	42	36
Cranbrook	43	901	44	787	34	114
Deer Lake	30	1,573	27	1,431	29	142
Fort Nelson	22	2,086	12	1,956	30	130
Fort St. John	17	2,314	11	1,978	19	336
Grande Prairie	2	4,144	5	2,626	5	1,518
High Level	31	1,522	23	1,474	38	48
Îles-de-la-Madeleine	50	454	50	418	43	36
Inuvik/Mike Zubko	35	1,441	28	1,427	47	14
Iqaluit	27	1,728	18	1,710	45	18
Kamloops	9	3,200	8	2,290	10	910
Kenora	39	1,156	38	992	28	164
Kingston	16	2,354	26	1,432	9	922
Kuujuuaq	38	1,312	33	1,194	33	118
La Grande Rivière	47	771	46	763	48	8
La Ronge	23	1,999	16	1,755	23	244
Lethbridge	12	2,676	14	1,922	12	754
Lloydminster	41	1,029	41	847	27	182
Medicine Hat	28	1,617	30	1,267	18	350
Mont-Joli	48	764	48	704	37	60
Montréal/Mirabel International	13	2,675	39	971	3	1,704
Nanaimo	10	3,139	10	2,153	7	986
Norman Wells	21	2,155	19	1,666	17	489
North Bay	8	3,213	22	1,577	4	1,636
Ottawa/Gatineau	1	4,724	21	1,610	1	3,114
Peace River	42	908	40	862	39	46
Penticton	20	2,170	32	1,206	8	964
Port Hardy	45	812	45	780	44	32
Prince Albert	25	1,971	15	1,783	26	188
Prince Rupert	51	278	51	278	0	0
Rankin Inlet	34	1,446	24	1,440	49	6
Red Deer Regional	3	3,721	13	1,947	2	1,774
Rouyn-Noranda	32	1,482	31	1,212	20	270
Saint John	33	1,447	34	1,191	22	256
Sept-Îles	7	3,334	3	3,070	21	264
Sioux Lookout	15	2,474	7	2,458	46	16
Smithers	40	1,066	36	1,022	40	44
St. Catharines	11	2,871	20	1,643	6	1,228
Sudbury	4	3,446	4	2,828	14	618
Terrace	24	1,976	17	1,754	24	222
Thompson	5	3,399	2	3,281	32	118
Timmins	14	2,665	6	2,573	35	92
Val-d'Or	26	1,949	29	1,365	16	584
Victoria Harbour	6	3,354	1	3,350	50	4
Wabush	18	2,308	9	2,268	41	40
Whitecourt	29	1,590	37	1,000	15	590
Williams Lake	44	900	42	818	36	82
Total of all flight service stations (51)	.	100,969	.	77,708	.	23,261

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

	Civil movements			Military movements			
	Total	Itinerant		Local	Total	Itinerant	Local
		Commercial	Private and government				
	number						
Abbotsford	8,324	2,100	1,266	4,958	34	34	0
Boundary Bay	15,644	4,902	1,808	8,934	9	9	0
Calgary International	20,630	18,935	1,547	148	103	103	0
Calgary/Springbank	10,553	3,395	1,624	5,534	64	64	0
Chicoutimi/St-Honoré	6,202	1,855	241	4,106	32	2	30
Edmonton City Centre	3,752	1,771	1,395	586	21	21	0
Edmonton International	12,759	11,395	1,094	270	135	133	2
Edmonton/Villeneuve	3,394	526	410	2,458	135	135	0
Fort McMurray	8,988	7,156	1,062	770	14	10	4
Fredericton International	7,192	3,207	183	3,802	54	46	8
Gander International	2,793	1,461	358	974	163	161	2
Halifax/Robert L. Stanfield International	7,129	6,454	337	338	51	51	0
Hamilton	3,319	1,822	513	984	181	105	76
Kelowna	6,531	3,662	865	2,004	70	42	28
Kitchener/Waterloo	11,853	3,448	1,229	7,176	23	23	0
Langley	4,191	1,122	1,227	1,842	275	275	0
London	6,549	2,845	750	2,954	22	22	0
Moncton/Greater Moncton International	4,826	2,950	276	1,600	2	2	0
Montréal/Pierre Elliott Trudeau International	19,139	17,598	1,449	92	16	14	2
Montréal/St-Hubert	16,006	5,611	1,411	8,984	63	57	6
Oshawa	4,612	1,509	1,179	1,924	15	15	0
Ottawa/Macdonald-Cartier International	13,557	9,580	649	3,328	200	194	6
Pitt Meadows	8,104	1,511	1,659	4,934	1	1	0
Prince George	3,942	1,900	630	1,412	10	10	0
Québec/Jean Lesage International	9,875	6,282	1,175	2,418	78	66	12
Regina International	4,825	2,891	656	1,278	332	92	240
Saskatoon/John G. Diefenbaker International	7,554	4,535	1,031	1,988	160	90	70
Sault Ste. Marie	7,415	2,552	297	4,566	30	24	6
St. John's International	3,651	3,124	363	164	136	136	0
St-Jean	3,270	278	976	2,016	773	773	0
Thunder Bay	7,022	4,382	518	2,122	52	44	8
Toronto/Billy Bishop Toronto City	10,810	7,087	539	3,184	16	12	4
Toronto/Buttonville Municipal	14,273	3,055	2,816	8,402	6	6	0
Toronto/Lester B. Pearson International	36,601	35,477	1,052	72	19	19	0
Vancouver Harbour	5,776	5,703	63	10	0	0	0
Vancouver International	27,254	25,934	1,224	96	23	23	0
Victoria International	11,305	6,071	1,616	3,618	197	169	28
Whitehorse International	3,735	2,010	721	1,004	46	46	0
Windsor	2,550	1,297	407	846	14	6	8
Winnipeg/James Armstrong Richardson International	11,066	9,174	896	996	282	282	0
Winnipeg/St. Andrews	9,787	3,309	424	6,054	4	4	0
Yellowknife	4,650	3,572	278	800	93	87	6
Total of NAV CANADA towers (42)	391,408	243,448	38,214	109,746	3,954	3,408	546

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

	Civil movements			Military movements				
	Total	Itinerant		Local	Total	Itinerant		Local
		Commercial	Private and government					
	number							
Brandon Municipal	1,377	366	383	628	59	55	4	
Campbell River	2,265	987	448	830	6	4	2	
Castlegar	592	378	88	126	3	3	0	
Charlottetown	1,351	795	370	186	15	1	14	
Churchill	772	708	40	24	15	3	12	
Cranbrook	897	584	199	114	4	4	0	
Deer Lake	1,561	1,294	125	142	12	12	0	
Fort Nelson	2,034	1,595	309	130	52	52	0	
Fort St. John	2,283	1,561	386	336	31	31	0	
Grande Prairie	4,047	1,997	532	1,518	97	97	0	
High Level	1,522	1,382	92	48	0	0	0	
Îles-de-la-Madeleine	450	363	55	32	4	0	4	
Inuvik/Mike Zubko	1,407	1,355	46	6	34	26	8	
Iqaluit	1,696	1,554	124	18	32	32	0	
Kamloops	3,182	1,759	521	902	18	10	8	
Kenora	1,138	702	272	164	18	18	0	
Kingston	2,310	1,055	337	918	44	40	4	
Kuujuuaq	1,309	1,120	71	118	3	3	0	
La Grande Rivière	771	668	95	8	0	0	0	
La Ronge	1,999	1,334	421	244	0	0	0	
Lethbridge	2,645	1,447	450	748	31	25	6	
Lloydminster	1,023	487	354	182	6	6	0	
Medicine Hat	1,566	879	337	350	51	51	0	
Mont-Joli	751	587	106	58	13	11	2	
Montréal/Mirabel International	2,654	725	235	1,694	21	11	10	
Nanaimo	3,133	1,269	884	980	6	0	6	
Norman Wells	2,151	1,609	53	489	4	4	0	
North Bay	3,142	1,142	372	1,628	71	63	8	
Ottawa/Gatineau	4,718	744	864	3,110	6	2	4	
Peace River	908	741	121	46	0	0	0	
Penticton	2,101	750	397	954	69	59	10	
Port Hardy	804	663	109	32	8	8	0	
Prince Albert	1,947	1,489	294	164	24	0	24	
Prince Rupert	278	220	58	0	0	0	0	
Rankin Inlet	1,442	1,404	32	6	4	4	0	
Red Deer Regional	3,691	1,103	814	1,774	30	30	0	
Rouyn-Noranda	1,480	1,066	144	270	2	2	0	
Saint John	1,439	798	389	252	8	4	4	
Sept-Îles	3,328	2,605	459	264	6	6	0	
Sioux Lookout	2,472	2,317	139	16	2	2	0	
Smithers	1,009	856	109	44	57	57	0	
St. Catharines	2,831	1,091	512	1,228	40	40	0	
Sudbury	3,423	2,314	493	616	23	21	2	
Terrace	1,974	1,616	136	222	2	2	0	
Thompson	3,393	2,652	623	118	6	6	0	
Timmins	2,652	2,154	406	92	13	13	0	
Val-d'Or	1,941	1,056	307	578	8	2	6	
Victoria Harbour	3,347	3,241	102	4	7	7	0	
Wabush	2,302	1,925	337	40	6	6	0	
Whitecourt	1,590	807	193	590	0	0	0	
Williams Lake	900	654	164	82	0	0	0	
Total of all flight service stations (51)	99,998	61,968	14,907	23,123	971	833	138	

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
	number						
Abbotsford	3,400	466	1,533	101	1,185	81	34
Boundary Bay	6,719	6	1,058	3,838	1,794	14	9
Calgary International	20,585	17,437	1,119	379	1,356	191	103
Calgary/Springbank	5,083	16	878	2,501	1,596	28	64
Chicoutimi/St-Honoré	2,098	752	94	1,009	239	2	2
Edmonton City Centre	3,187	250	409	1,112	802	593	21
Edmonton International	12,622	10,811	424	160	815	279	133
Edmonton/Villeneuve	1,071	6	72	448	406	4	135
Fort McMurray	8,228	2,081	4,892	183	972	90	10
Fredericton International	3,436	836	2,350	21	163	20	46
Gander International	1,980	1,362	84	15	306	52	161
Halifax/Robert L. Stanfield International	6,842	6,013	432	9	307	30	51
Hamilton	2,440	1,602	87	133	318	195	105
Kelowna	4,569	3,026	356	280	763	102	42
Kitchener/Waterloo	4,700	450	2,910	88	1,225	4	23
Langley	2,624	4	84	1,034	1,155	72	275
London	3,617	1,100	304	1,441	721	29	22
Moncton/Greater Moncton International	3,228	1,726	1,216	8	167	109	2
Montréal/Pierre Elliott Trudeau International	19,061	16,644	890	64	1,291	158	14
Montréal/St-Hubert	7,079	3,104	810	1,697	1,291	120	57
Oshawa	2,703	35	92	1,382	1,073	106	15
Ottawa/Macdonald-Cartier International	10,423	7,305	260	2,015	333	316	194
Pitt Meadows	3,171	4	1,036	471	1,643	16	1
Prince George	2,540	1,163	715	22	518	112	10
Québec/Jean Lesage International	7,523	4,039	1,843	400	870	305	66
Regina International	3,639	2,029	802	60	476	180	92
Saskatoon/John G. Diefenbaker International	5,656	3,456	776	303	710	321	90
Sault Ste. Marie	2,873	1,061	74	1,417	242	55	24
St. John's International	3,623	2,728	382	14	172	191	136
St-Jean	2,027	40	146	92	976	0	773
Thunder Bay	4,944	3,396	194	792	375	143	44
Toronto/Billy Bishop Toronto City	7,638	5,022	788	1,277	524	15	12
Toronto/Buttontville Municipal	5,877	144	2,830	81	2,715	101	6
Toronto/Lester B. Pearson International	36,548	34,839	619	19	1,024	28	19
Vancouver Harbour	5,766	5,224	478	1	63	0	0
Vancouver International	27,181	23,826	1,985	123	1,003	221	23
Victoria International	7,856	3,025	2,783	263	1,594	22	169
Whitehorse International	2,777	906	1,080	24	668	53	46
Windsor	1,710	620	641	36	390	17	6
Winnipeg/James Armstrong Richardson International	10,352	8,728	355	91	517	379	282
Winnipeg/St. Andrews	3,737	669	1,883	757	424	0	4
Yellowknife	3,937	2,988	445	139	135	143	87
Total of NAV CANADA towers (42)	285,070	178,939	40,209	24,300	33,317	4,897	3,408

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	804	166	143	57	350	33	55
Campbell River	1,439	634	101	252	432	16	4
Castlegar	469	267	97	14	84	4	3
Charlottetown	1,166	722	69	4	341	29	1
Churchill	751	672	36	0	26	14	3
Cranbrook	787	538	32	14	195	4	4
Deer Lake	1,431	1,234	36	24	63	62	12
Fort Nelson	1,956	348	1,240	7	290	19	52
Fort St. John	1,978	712	833	16	360	26	31
Grande Prairie	2,626	1,027	931	39	506	26	97
High Level	1,474	491	868	23	63	29	0
Îles-de-la-Madeleine	418	339	18	6	19	36	0
Inuvik/Mike Zubko	1,427	1,049	304	2	30	16	26
Iqaluit	1,710	1,363	122	69	91	33	32
Kamloops	2,290	847	496	416	480	41	10
Kenora	992	425	152	125	248	24	18
Kingston	1,432	526	312	217	307	30	40
Kuujuuaq	1,194	819	186	115	43	28	3
La Grande Rivière	763	456	200	12	64	31	0
La Ronge	1,755	1,255	78	1	140	281	0
Lethbridge	1,922	525	73	849	409	41	25
Lloydminster	847	204	257	26	323	31	6
Medicine Hat	1,267	526	144	209	313	24	51
Mont-Joli	704	456	120	11	67	39	11
Montréal/Mirabel International	971	688	32	5	229	6	11
Nanaimo	2,153	533	679	57	842	42	0
Norman Wells	1,666	647	942	20	39	14	4
North Bay	1,577	660	292	190	336	36	63
Ottawa/Gatineau	1,610	133	518	93	850	14	2
Peace River	862	371	328	42	103	18	0
Penticton	1,206	303	395	52	383	14	59
Port Hardy	780	613	36	14	65	44	8
Prince Albert	1,783	1,405	74	10	146	148	0
Prince Rupert	278	205	13	2	46	12	0
Rankin Inlet	1,440	954	450	0	8	24	4
Red Deer Regional	1,947	305	679	119	775	39	30
Rouyn-Noranda	1,212	672	246	148	126	18	2
Saint John	1,191	718	62	18	385	4	4
Sept-Îles	3,070	1,418	1,157	30	239	220	6
Sioux Lookout	2,458	1,964	108	245	82	57	2
Smithers	1,022	558	276	22	99	10	57
St. Catharines	1,643	9	1,053	29	509	3	40
Sudbury	2,828	1,648	340	326	341	152	21
Terrace	1,754	629	976	11	114	22	2
Thompson	3,281	2,078	546	28	85	538	6
Timmins	2,573	2,007	116	31	279	127	13
Val-d'Or	1,365	759	243	54	256	51	2
Victoria Harbour	3,350	3,191	50	0	17	85	7
Wabush	2,268	1,369	527	29	215	122	6
Whitecourt	1,000	56	604	147	190	3	0
Williams Lake	818	454	193	7	158	6	0
Total of all flight service stations (51)	77,708	39,948	17,783	4,237	12,161	2,746	833

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

	Itinerant movements					Runway 88
	Total of IFR and VFR flights ¹	Instrument Flight Rules	Percentage Instrument Flight Rules	Visual Flight Rules	Percentage Visual Flight Rules	
	number		percent	number	percent	
Abbotsford	3,400	785	23.0	2,615	76.9	1,960
Boundary Bay	6,719	238	3.5	6,481	96.4	897
Calgary International	20,585	19,395	94.2	1,190	5.7	381
Calgary/Springbank	5,083	460	9.0	4,623	90.9	255
Chicoutimi/St-Honoré	2,098	251	11.9	1,847	88.0	200
Edmonton City Centre	3,187	1,033	32.4	2,154	67.5	1,580
Edmonton International	12,622	12,022	95.2	600	4.7	760
Edmonton/Villeneuve	1,071	69	6.4	1,002	93.5	92
Fort McMurray	8,228	2,695	32.7	5,533	67.2	352
Fredericton International	3,436	1,161	33.7	2,275	66.2	335
Gander International	1,980	1,234	62.3	746	37.6	122
Halifax/Robert L. Stanfield International	6,842	6,567	95.9	275	4.0	257
Hamilton	2,440	1,852	75.9	588	24.0	1,124
Kelowna	4,569	3,010	65.8	1,559	34.1	901
Kitchener/Waterloo	4,700	806	17.1	3,894	82.8	723
Langley	2,624	26	0.9	2,598	99.0	1,229
London	3,617	1,378	38.0	2,239	61.9	509
Moncton/Greater Moncton International	3,228	1,925	59.6	1,303	40.3	88
Montréal/Pierre Elliott Trudeau International	19,061	18,539	97.2	522	2.7	1,166
Montréal/St-Hubert	7,079	1,683	23.7	5,396	76.2	966
Oshawa	2,703	228	8.4	2,475	91.5	533
Ottawa/Macdonald-Cartier International	10,423	7,981	76.5	2,442	23.4	882
Pitt Meadows	3,171	28	0.8	3,143	99.1	1,682
Prince George	2,540	1,331	52.4	1,209	47.5	440
Québec/Jean Lesage International	7,523	5,343	71.0	2,180	28.9	1,156
Regina International	3,639	2,470	67.8	1,169	32.1	207
Saskatoon/John G. Diefenbaker International	5,656	4,072	71.9	1,584	28.0	401
Sault Ste. Marie	2,873	1,228	42.7	1,645	57.2	102
St. John's International	3,623	3,318	91.5	305	8.4	157
St-Jean	2,027	25	1.2	2,002	98.7	473
Thunder Bay	4,944	3,590	72.6	1,354	27.3	182
Toronto/Billy Bishop Toronto City	7,638	5,355	70.1	2,283	29.8	1,867
Toronto/Buttonville Municipal	5,877	780	13.2	5,097	86.7	1,057
Toronto/Lester B. Pearson International	36,548	36,517	99.9	31	0.0	250
Vancouver Harbour	5,766	0	0.0	5,766	100.0	2,474
Vancouver International	27,181	22,226	81.7	4,955	18.2	6,433
Victoria International	7,856	3,513	44.7	4,343	55.2	3,728
Whitehorse International	2,777	633	22.7	2,144	77.2	723
Windsor	1,710	826	48.3	884	51.6	152
Winnipeg/James Armstrong Richardson International	10,352	9,229	89.1	1,123	10.8	1,184
Winnipeg/St. Andrews	3,737	132	3.5	3,605	96.4	173
Yellowknife	3,937	1,918	48.7	2,019	51.2	948
Total of NAV CANADA towers (42)	285,070	185,872	65.2	99,198	34.8	39,101

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	804	192	23.8	612	76.1	233
Campbell River	1,439	529	36.7	910	63.2	592
Castlegar	469	289	61.6	180	38.3	183
Charlottetown	1,166	831	71.2	335	28.7	89
Churchill	751	682	90.8	69	9.1	75
Cranbrook	787	594	75.4	193	24.5	187
Deer Lake	1,431	1,140	79.6	291	20.3	23
Fort Nelson	1,956	361	18.4	1,595	81.5	131
Fort St. John	1,978	815	41.2	1,163	58.7	144
Grande Prairie	2,626	1,249	47.5	1,377	52.4	184
High Level	1,474	224	15.1	1,250	84.8	292
Îles-de-la-Madeleine	418	402	96.1	16	3.8	38
Inuvik/Mike Zubko	1,427	362	25.3	1,065	74.6	72
Iqaluit	1,710	1,421	83.0	289	16.9	6
Kamloops	2,290	973	42.4	1,317	57.5	426
Kenora	992	548	55.2	444	44.7	866
Kingston	1,432	659	46.0	773	53.9	291
Kuujuuaq	1,194	432	36.1	762	63.8	113
La Grande Rivière	763	555	72.7	208	27.2	208
La Ronge	1,755	910	51.8	845	48.1	1,329
Lethbridge	1,922	691	35.9	1,231	64.0	34
Lloydminster	847	270	31.8	577	68.1	26
Medicine Hat	1,267	416	32.8	851	67.1	310
Mont-Joli	704	616	87.5	88	12.5	19
Montréal/Mirabel International	971	804	82.8	167	17.1	1,880
Nanaimo	2,153	686	31.8	1,467	68.1	807
Norman Wells	1,666	222	13.3	1,444	86.6	754
North Bay	1,577	776	49.2	801	50.7	617
Ottawa/Gatineau	1,610	177	10.9	1,433	89.0	571
Peace River	862	361	41.8	501	58.1	12
Penticton	1,206	349	28.9	857	71.0	187
Port Hardy	780	360	46.1	420	53.8	412
Prince Albert	1,783	1,482	83.1	301	16.8	197
Prince Rupert	278	228	82.0	50	17.9	14
Rankin Inlet	1,440	969	67.2	471	32.7	259
Red Deer Regional	1,947	499	25.6	1,448	74.3	432
Rouyn-Noranda	1,212	942	77.7	270	22.2	201
Saint John	1,191	976	81.9	215	18.0	20
Sept-Îles	3,070	1,863	60.6	1,207	39.3	599
Sioux Lookout	2,458	1,889	76.8	569	23.1	1,709
Smithers	1,022	534	52.2	488	47.7	1,447
St. Catharines	1,643	161	9.7	1,482	90.2	375
Sudbury	2,828	1,756	62.0	1,072	37.9	528
Terrace	1,754	709	40.4	1,045	59.5	283
Thompson	3,281	1,497	45.6	1,784	54.3	512
Timmins	2,573	1,468	57.0	1,105	42.9	468
Val-d'Or	1,365	842	61.6	523	38.3	698
Victoria Harbour	3,350	1	0.0	3,349	99.9	1,150
Wabush	2,268	1,396	61.5	872	38.4	615
Whitecourt	1,000	69	6.9	931	93.1	118
Williams Lake	818	475	58.0	343	41.9	137
Total of all flight service stations (51)	77,708	36,652	47.2	41,056	52.8	20,873

1. Total excludes runway 88 flights.

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Abbotsford	3,400	484	179	1,994	739	4
Boundary Bay	6,719	27	58	6,316	318	0
Calgary International	20,585	13,003	6,236	292	1,054	0
Calgary/Springbank	5,083	75	182	3,856	970	0
Chicoutimi/St-Honoré	2,098	9	108	1,857	124	0
Edmonton City Centre	3,187	182	701	1,703	601	0
Edmonton International	12,622	7,324	4,755	291	252	0
Edmonton/Villeneuve	1,071	12	28	848	119	64
Fort McMurray	8,228	1,350	2,227	1,398	3,252	1
Fredericton International	3,436	108	1,017	2,221	90	0
Gander International	1,980	551	686	611	132	0
Halifax/Robert L. Stanfield International	6,842	3,741	2,649	156	296	0
Hamilton	2,440	1,352	561	468	59	0
Kelowna	4,569	1,414	1,651	1,266	238	0
Kitchener/Waterloo	4,700	286	341	3,784	286	3
Langley	2,624	0	2	2,169	322	131
London	3,617	400	928	2,140	149	0
Moncton/Greater Moncton International	3,228	741	1,163	1,283	41	0
Montréal/Pierre Elliott Trudeau International	19,061	12,365	6,106	348	242	0
Montréal/St-Hubert	7,079	220	1,104	5,412	339	4
Oshawa	2,703	30	92	2,451	129	1
Ottawa/Macdonald-Cartier International	10,423	5,320	2,661	2,175	267	0
Pitt Meadows	3,171	0	18	2,750	403	0
Prince George	2,540	244	1,198	493	603	2
Québec/Jean Lesage International	7,523	1,150	4,019	1,611	743	0
Regina International	3,639	1,424	919	1,118	176	2
Saskatoon/John G. Diefenbaker International	5,656	1,580	2,383	1,562	129	2
Sault Ste. Marie	2,873	62	1,148	1,616	47	0
St. John's International	3,623	1,632	1,507	63	421	0
St-Jean	2,027	0	0	1,365	24	638
Thunder Bay	4,944	454	3,186	1,065	239	0
Toronto/Billy Bishop Toronto City	7,638	9	5,257	1,780	592	0
Toronto/Buttonville Municipal	5,877	97	318	5,151	311	0
Toronto/Lester B. Pearson International	36,548	29,692	6,816	37	3	0
Vancouver Harbour	5,766	0	3,416	1,434	916	0
Vancouver International	27,181	12,933	10,537	2,820	891	0
Victoria International	7,856	1,123	2,429	4,012	292	0
Whitehorse International	2,777	381	700	1,083	612	1
Windsor	1,710	196	565	925	24	0
Winnipeg/James Armstrong Richardson International	10,352	5,255	4,206	619	272	0
Winnipeg/St. Andrews	3,737	0	870	2,652	213	2
Yellowknife	3,937	523	2,510	389	515	0
Total of NAV CANADA towers (42)	285,070	105,749	85,437	75,584	17,445	855

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

	Total	Jet	Turboprop	Piston	Helicopters	Gliders
	number					
Brandon Municipal	804	24	214	485	47	34
Campbell River	1,439	51	679	482	227	0
Castlegar	469	14	305	112	38	0
Charlottetown	1,166	293	482	321	70	0
Churchill	751	143	549	38	21	0
Cranbrook	787	12	525	228	22	0
Deer Lake	1,431	204	1,130	63	34	0
Fort Nelson	1,956	35	426	368	1,126	1
Fort St. John	1,978	249	652	421	656	0
Grande Prairie	2,626	217	902	832	600	75
High Level	1,474	28	512	289	645	0
Îles-de-la-Madeleine	418	16	363	39	0	0
Inuvik/Mike Zubko	1,427	139	664	321	303	0
Iqaluit	1,710	369	1,190	40	111	0
Kamloops	2,290	145	832	985	328	0
Kenora	992	106	485	254	147	0
Kingston	1,432	51	542	705	134	0
Kuujuuaq	1,194	164	757	82	191	0
La Grande Rivière	763	103	515	112	33	0
La Ronge	1,755	10	1,281	379	85	0
Lethbridge	1,922	77	787	989	69	0
Lloydminster	847	28	269	483	67	0
Medicine Hat	1,267	24	491	636	116	0
Mont-Joli	704	14	594	71	25	0
Montréal/Mirabel International	971	582	217	81	91	0
Nanaimo	2,153	44	590	1,448	69	2
Norman Wells	1,666	190	295	231	950	0
North Bay	1,577	83	720	347	426	1
Ottawa/Gatineau	1,610	12	106	1,137	355	0
Peace River	862	24	342	149	347	0
Penticton	1,206	42	363	421	380	0
Port Hardy	780	74	405	213	88	0
Prince Albert	1,783	6	1,493	190	94	0
Prince Rupert	278	63	160	19	36	0
Rankin Inlet	1,440	265	721	2	452	0
Red Deer Regional	1,947	68	403	1,344	132	0
Rouyn-Noranda	1,212	90	879	200	43	0
Saint John	1,191	118	836	166	71	0
Sept-Îles	3,070	94	1,844	386	746	0
Sioux Lookout	2,458	13	2,092	319	34	0
Smithers	1,022	6	636	189	162	29
St. Catharines	1,643	14	39	1,063	526	1
Sudbury	2,828	27	1,833	640	328	0
Terrace	1,754	58	665	66	965	0
Thompson	3,281	148	2,423	516	193	1
Timmins	2,573	16	2,139	309	109	0
Val-d'Or	1,365	153	691	406	115	0
Victoria Harbour	3,350	0	2,533	222	595	0
Wabush	2,268	20	1,423	371	451	3
Whitecourt	1,000	12	115	175	698	0
Williams Lake	818	19	519	142	138	0
Total of all flight service stations (51)	77,708	4,757	39,628	19,487	13,689	147

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

	Maximum take-off weight in kilograms									
	2,000 and under	2,001 to 4,000	4,001 to 5,670	5,671 to 9,000	9,001 to 18,000	18,001 to 35,000	35,001 to 70,000	70,001 to 90,000	90,001 to 136,000	136,001 and over
	number									
Abbotsford	2,362	379	123	76	18	14	414	13	1	0
Boundary Bay	6,404	252	44	15	2	2	0	0	0	0
Calgary International	791	554	1,563	2,128	830	4,277	8,855	755	173	659
Calgary/Springbank	4,290	391	333	51	14	4	0	0	0	0
Chicoutimi/St-Honoré	1,621	342	121	6	4	4	0	0	0	0
Edmonton City Centre	2,002	294	544	257	76	14	0	0	0	0
Edmonton International	283	283	1,478	1,103	550	2,824	5,311	558	106	126
Edmonton/Villeneuve	890	121	40	17	3	0	0	0	0	0
Fort McMurray	3,682	1,567	678	527	133	896	640	105	0	0
Fredericton International	2,245	144	227	236	197	385	0	0	0	2
Gander International	598	32	72	539	276	311	42	59	8	43
Halifax/Robert L. Stanfield International	120	218	362	950	1,024	1,443	2,072	304	187	162
Hamilton	323	351	169	309	159	84	521	15	383	126
Kelowna	1,335	155	429	647	77	1,002	922	2	0	0
Kitchener/Waterloo	3,972	121	331	66	38	107	62	3	0	0
Langley	2,516	93	8	4	2	0	1	0	0	0
London	2,141	113	201	177	582	253	140	6	4	0
Moncton/Greater Moncton International	1,245	160	188	301	81	742	201	0	310	0
Montréal/Pierre Elliott Trudeau International	338	217	744	607	2,775	6,770	4,822	1,163	0	1,625
Montréal/St-Hubert	5,216	501	730	452	158	16	4	2	0	0
Oshawa	2,399	203	68	30	0	2	0	0	1	0
Ottawa/Macdonald-Cartier International	2,189	150	781	338	706	3,005	2,571	426	42	215
Pitt Meadows	2,921	241	9	0	0	0	0	0	0	0
Prince George	736	297	294	618	88	325	182	0	0	0
Québec/Jean Lesage International	1,872	488	934	698	1,171	2,155	153	2	0	50
Regina International	938	372	395	338	60	814	653	4	65	0
Saskatoon/John G. Diefenbaker International	1,344	381	722	914	280	1,111	860	2	42	0
Sault Ste. Marie	1,603	118	569	96	273	210	4	0	0	0
St. John's International	80	34	223	670	732	374	1,136	285	84	5
St-Jean	2,027	0	0	0	0	0	0	0	0	0
Thunder Bay	1,036	250	2,206	194	111	930	201	12	4	0
Toronto/Billy Bishop Toronto City	2,060	188	299	270	0	4,815	0	6	0	0
Toronto/Buttonville Municipal	5,114	406	248	81	18	10	0	0	0	0
Toronto/Lester B. Pearson International	12	165	429	1,937	3,706	7,711	14,438	4,210	228	3,712
Vancouver Harbour	794	4,456	494	22	0	0	0	0	0	0
Vancouver International	784	4,215	898	2,986	1,124	6,242	6,773	1,833	254	2,072
Victoria International	3,465	956	432	491	269	1,588	552	71	32	0
Whitehorse International	1,368	414	237	154	41	123	426	0	0	14
Windsor	818	127	73	107	205	274	72	0	34	0
Winnipeg/James Armstrong Richardson International	396	612	2,913	361	815	1,785	2,515	292	590	73
Winnipeg/St. Andrews	2,689	962	84	0	2	0	0	0	0	0
Yellowknife	628	495	719	400	245	871	472	107	0	0
Total of NAV CANADA towers (42)	77,647	21,818	21,412	19,173	16,845	51,493	55,015	10,235	2,548	8,884

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

	Maximum take-off weight in kilograms									
	2,000 and under	2,001 to 4,000	4,001 to 5,670	5,671 to 9,000	9,001 to 18,000	18,001 to 35,000	35,001 to 70,000	70,001 to 90,000	90,001 to 136,000	136,001 and over
	number									
Brandon Municipal	500	45	174	35	26	10	0	14	0	0
Campbell River	652	91	37	537	112	9	1	0	0	0
Castlegar	84	67	13	66	7	232	0	0	0	0
Charlottetown	301	158	42	172	94	206	193	0	0	0
Churchill	41	14	134	8	110	411	31	0	2	0
Cranbrook	167	83	41	328	6	160	0	2	0	0
Deer Lake	75	38	28	469	546	95	180	0	0	0
Fort Nelson	1,130	119	306	158	118	85	40	0	0	0
Fort St. John	948	94	208	215	140	342	31	0	0	0
Grande Prairie	1,193	271	377	110	35	501	139	0	0	0
High Level	736	146	309	237	2	40	4	0	0	0
Îles-de-la-Madeleine	13	26	82	110	111	76	0	0	0	0
Inuvik/Mike Zubko	577	81	460	110	2	79	103	15	0	0
Iqaluit	56	43	456	294	218	347	204	30	10	52
Kamloops	1,095	132	184	300	12	489	74	4	0	0
Kenora	225	71	567	63	42	22	2	0	0	0
Kingston	788	52	72	483	13	18	0	6	0	0
Kuujuuaq	220	53	617	4	15	149	118	0	0	18
La Grande Rivière	55	93	162	8	29	319	97	0	0	0
La Ronge	185	244	598	158	280	290	0	0	0	0
Lethbridge	888	172	400	414	23	16	9	0	0	0
Lloydminster	474	90	109	158	12	4	0	0	0	0
Medicine Hat	654	57	214	287	18	37	0	0	0	0
Mont-Joli	57	29	216	174	106	122	0	0	0	0
Montréal/Mirabel International	132	79	46	54	21	92	91	2	244	210
Nanaimo	1,133	392	49	69	8	502	0	0	0	0
Norman Wells	848	160	364	48	4	44	194	4	0	0
North Bay	738	107	441	63	179	47	0	2	0	0
Ottawa/Gatineau	1,093	392	32	77	12	4	0	0	0	0
Peace River	284	161	312	83	14	0	8	0	0	0
Penticton	689	112	47	133	10	199	16	0	0	0
Port Hardy	69	298	51	143	215	4	0	0	0	0
Prince Albert	144	88	207	477	385	482	0	0	0	0
Prince Rupert	26	5	52	47	46	102	0	0	0	0
Rankin Inlet	39	407	158	20	91	552	173	0	0	0
Red Deer Regional	1,194	237	252	188	10	65	1	0	0	0
Rouyn-Noranda	217	16	355	52	338	170	64	0	0	0
Saint John	123	180	169	220	261	238	0	0	0	0
Sept-Îles	833	299	558	401	647	326	2	4	0	0
Sioux Lookout	91	287	1,226	708	146	0	0	0	0	0
Smithers	306	128	64	296	36	186	6	0	0	0
St. Catharines	1,473	101	43	12	6	0	0	8	0	0
Sudbury	545	349	1,069	277	318	262	1	7	0	0
Terrace	649	289	219	116	195	286	0	0	0	0
Thompson	245	522	1,477	122	206	699	4	6	0	0
Timmins	318	197	1,185	74	507	292	0	0	0	0
Val-d'Or	422	84	342	30	261	104	122	0	0	0
Victoria Harbour	498	2,411	428	6	6	1	0	0	0	0
Wabush	585	200	273	441	407	356	4	2	0	0
Whitecourt	840	35	33	74	18	0	0	0	0	0
Williams Lake	249	25	30	484	6	24	0	0	0	0
Total of all flight service stations (51)	24,897	9,830	15,288	9,613	6,430	9,096	1,912	106	256	280

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Abbotsford							
Domestic	3,318	464	1,518	99	1,122	81	34
Transborder	82	2	15	2	63	0	0
Other international	0	0	0	0	0	0	0
Total	3,400	466	1,533	101	1,185	81	34
Boundary Bay							
Domestic	6,584	6	1,050	3,792	1,716	14	6
Transborder	134	0	8	45	78	0	3
Other international	1	0	0	1	0	0	0
Total	6,719	6	1,058	3,838	1,794	14	9
Calgary International							
Domestic	16,428	13,686	1,061	372	1,028	190	91
Transborder	3,589	3,193	56	7	324	1	8
Other international	568	558	2	0	4	0	4
Total	20,585	17,437	1,119	379	1,356	191	103
Calgary/Springbank							
Domestic	4,988	16	867	2,497	1,516	28	64
Transborder	95	0	11	4	80	0	0
Other international	0	0	0	0	0	0	0
Total	5,083	16	878	2,501	1,596	28	64
Chicoutimi/St-Honoré							
Domestic	2,097	752	94	1,009	238	2	2
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,098	752	94	1,009	239	2	2
Edmonton City Centre							
Domestic	3,170	249	406	1,111	790	593	21
Transborder	17	1	3	1	12	0	0
Other international	0	0	0	0	0	0	0
Total	3,187	250	409	1,112	802	593	21
Edmonton International							
Domestic	11,235	9,550	417	140	730	278	120
Transborder	1,284	1,160	7	20	85	1	11
Other international	103	101	0	0	0	0	2
Total	12,622	10,811	424	160	815	279	133
Edmonton/Villeneuve							
Domestic	1,069	6	72	448	404	4	135
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,071	6	72	448	406	4	135
Fort McMurray							
Domestic	8,168	2,030	4,892	183	963	90	10
Transborder	60	51	0	0	9	0	0
Other international	0	0	0	0	0	0	0
Total	8,228	2,081	4,892	183	972	90	10
Fredericton International							
Domestic	3,395	824	2,348	21	138	18	46
Transborder	41	12	2	0	25	2	0
Other international	0	0	0	0	0	0	0
Total	3,436	836	2,350	21	163	20	46
Gander International							
Domestic	1,536	1,258	80	2	79	52	65
Transborder	195	41	0	6	106	0	42
Other international	249	63	4	7	121	0	54
Total	1,980	1,362	84	15	306	52	161

Table 7-1 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Halifax/Robert L. Stanfield International							
Domestic	5,844	5,123	421	8	235	30	27
Transborder	817	735	8	0	59	0	15
Other international	181	155	3	1	13	0	9
Total	6,842	6,013	432	9	307	30	51
Hamilton							
Domestic	1,858	1,173	62	132	206	193	92
Transborder	556	411	22	0	108	2	13
Other international	26	18	3	1	4	0	0
Total	2,440	1,602	87	133	318	195	105
Kelowna							
Domestic	4,322	2,845	349	280	704	102	42
Transborder	245	180	7	0	58	0	0
Other international	2	1	0	0	1	0	0
Total	4,569	3,026	356	280	763	102	42
Kitchener/Waterloo							
Domestic	4,441	333	2,886	87	1,114	4	17
Transborder	255	116	24	1	108	0	6
Other international	4	1	0	0	3	0	0
Total	4,700	450	2,910	88	1,225	4	23
Langley							
Domestic	2,609	4	83	1,033	1,142	72	275
Transborder	15	0	1	1	13	0	0
Other international	0	0	0	0	0	0	0
Total	2,624	4	84	1,034	1,155	72	275
London							
Domestic	3,298	893	292	1,440	623	29	21
Transborder	316	206	11	1	97	0	1
Other international	3	1	1	0	1	0	0
Total	3,617	1,100	304	1,441	721	29	22
Moncton/Greater Moncton International							
Domestic	3,149	1,661	1,216	8	155	107	2
Transborder	70	56	0	0	12	2	0
Other international	9	9	0	0	0	0	0
Total	3,228	1,726	1,216	8	167	109	2
Montréal/Pierre Elliott Trudeau International							
Domestic	10,863	9,091	777	39	787	157	12
Transborder	5,993	5,393	106	13	480	0	1
Other international	2,205	2,160	7	12	24	1	1
Total	19,061	16,644	890	64	1,291	158	14
Montréal/St-Hubert							
Domestic	6,914	3,094	800	1,693	1,150	120	57
Transborder	164	9	10	4	141	0	0
Other international	1	1	0	0	0	0	0
Total	7,079	3,104	810	1,697	1,291	120	57
Oshawa							
Domestic	2,631	23	85	1,379	1,023	106	15
Transborder	62	12	7	0	43	0	0
Other international	10	0	0	3	7	0	0
Total	2,703	35	92	1,382	1,073	106	15
Ottawa/Macdonald-Cartier International							
Domestic	8,593	5,603	248	2,000	255	311	176
Transborder	1,693	1,576	12	13	75	5	12
Other international	137	126	0	2	3	0	6
Total	10,423	7,305	260	2,015	333	316	194

Table 7-1 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Pitt Meadows							
Domestic	3,150	4	1,035	469	1,625	16	1
Transborder	20	0	0	2	18	0	0
Other international	1	0	1	0	0	0	0
Total	3,171	4	1,036	471	1,643	16	1
Prince George							
Domestic	2,506	1,163	715	22	484	112	10
Transborder	31	0	0	0	31	0	0
Other international	3	0	0	0	3	0	0
Total	2,540	1,163	715	22	518	112	10
Québec/Jean Lesage International							
Domestic	6,717	3,326	1,833	399	795	305	59
Transborder	728	646	8	0	71	0	3
Other international	78	67	2	1	4	0	4
Total	7,523	4,039	1,843	400	870	305	66
Regina International							
Domestic	3,294	1,771	797	57	408	178	83
Transborder	343	256	5	3	68	2	9
Other international	2	2	0	0	0	0	0
Total	3,639	2,029	802	60	476	180	92
Saskatoon/John G. Diefenbaker International							
Domestic	5,342	3,204	773	302	653	320	90
Transborder	312	252	3	1	55	1	0
Other international	2	0	0	0	2	0	0
Total	5,656	3,456	776	303	710	321	90
Sault Ste. Marie							
Domestic	2,820	1,057	68	1,416	206	51	22
Transborder	47	4	4	0	35	2	2
Other international	6	0	2	1	1	2	0
Total	2,873	1,061	74	1,417	242	55	24
St. John's International							
Domestic	3,237	2,537	376	4	103	191	26
Transborder	175	78	2	3	37	0	55
Other international	211	113	4	7	32	0	55
Total	3,623	2,728	382	14	172	191	136
St-Jean							
Domestic	2,025	40	146	91	975	0	773
Transborder	2	0	0	1	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,027	40	146	92	976	0	773
Thunder Bay							
Domestic	4,825	3,320	193	792	333	143	44
Transborder	118	76	0	0	42	0	0
Other international	1	0	1	0	0	0	0
Total	4,944	3,396	194	792	375	143	44
Toronto/Billy Bishop Toronto City							
Domestic	6,093	3,589	783	1,270	425	15	11
Transborder	1,545	1,433	5	7	99	0	1
Other international	0	0	0	0	0	0	0
Total	7,638	5,022	788	1,277	524	15	12
Toronto/Buttonville Municipal							
Domestic	5,707	125	2,806	80	2,589	101	6
Transborder	166	18	24	1	123	0	0
Other international	4	1	0	0	3	0	0
Total	5,877	144	2,830	81	2,715	101	6

Table 7-1 – continued

Itinerant movements, domestic, transborder and international — NAV CANADA towers

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
number							
Toronto/Lester B. Pearson International							
Domestic	16,576	15,837	355	16	331	28	9
Transborder	14,886	13,978	228	3	672	0	5
Other international	5,086	5,024	36	0	21	0	5
Total	36,548	34,839	619	19	1,024	28	19
Vancouver Harbour							
Domestic	5,753	5,218	475	1	59	0	0
Transborder	13	6	3	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	5,766	5,224	478	1	63	0	0
Vancouver International							
Domestic	20,469	17,537	1,942	94	662	221	13
Transborder	5,033	4,625	38	28	338	0	4
Other international	1,679	1,664	5	1	3	0	6
Total	27,181	23,826	1,985	123	1,003	221	23
Victoria International							
Domestic	7,181	2,624	2,772	259	1,340	22	164
Transborder	675	401	11	4	254	0	5
Other international	0	0	0	0	0	0	0
Total	7,856	3,025	2,783	263	1,594	22	169
Whitehorse International							
Domestic	2,626	890	1,071	24	560	49	32
Transborder	139	5	9	0	107	4	14
Other international	12	11	0	0	1	0	0
Total	2,777	906	1,080	24	668	53	46
Windsor							
Domestic	1,575	557	618	35	343	16	6
Transborder	133	63	21	1	47	1	0
Other international	2	0	2	0	0	0	0
Total	1,710	620	641	36	390	17	6
Winnipeg/James Armstrong Richardson International							
Domestic	9,240	7,808	345	85	358	375	269
Transborder	1,104	914	10	6	157	4	13
Other international	8	6	0	0	2	0	0
Total	10,352	8,728	355	91	517	379	282
Winnipeg/St. Andrews							
Domestic	3,733	669	1,883	757	420	0	4
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	3,737	669	1,883	757	424	0	4
Yellowknife							
Domestic	3,925	2,987	445	138	127	143	85
Transborder	11	0	0	1	8	0	2
Other international	1	1	0	0	0	0	0
Total	3,937	2,988	445	139	135	143	87
Total of NAV CANADA towers (42)							
Domestic	233,304	132,947	39,455	24,084	28,914	4,867	3,037
Transborder	41,171	35,909	681	179	4,150	27	225
Other international	10,595	10,083	73	37	253	3	146
Total	285,070	178,939	40,209	24,300	33,317	4,897	3,408

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	794	166	143	57	340	33	55
Transborder	10	0	0	0	10	0	0
Other international	0	0	0	0	0	0	0
Total	804	166	143	57	350	33	55
Campbell River							
Domestic	1,365	619	101	252	373	16	4
Transborder	70	15	0	0	55	0	0
Other international	4	0	0	0	4	0	0
Total	1,439	634	101	252	432	16	4
Castlegar							
Domestic	463	267	97	14	78	4	3
Transborder	6	0	0	0	6	0	0
Other international	0	0	0	0	0	0	0
Total	469	267	97	14	84	4	3
Charlottetown							
Domestic	1,141	718	68	2	323	29	1
Transborder	25	4	1	2	18	0	0
Other international	0	0	0	0	0	0	0
Total	1,166	722	69	4	341	29	1
Churchill							
Domestic	751	672	36	0	26	14	3
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	751	672	36	0	26	14	3
Cranbrook							
Domestic	768	538	31	13	179	4	3
Transborder	18	0	1	0	16	0	1
Other international	1	0	0	1	0	0	0
Total	787	538	32	14	195	4	4
Deer Lake							
Domestic	1,430	1,233	36	24	63	62	12
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,431	1,234	36	24	63	62	12
Fort Nelson							
Domestic	1,956	348	1,240	7	290	19	52
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,956	348	1,240	7	290	19	52
Fort St. John							
Domestic	1,977	711	833	16	360	26	31
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,978	712	833	16	360	26	31
Grande Prairie							
Domestic	2,625	1,027	931	39	505	26	97
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	2,626	1,027	931	39	506	26	97
High Level							
Domestic	1,473	491	868	23	62	29	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	1,474	491	868	23	63	29	0

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements	
		Level I-III and Foreign	Level IV-VI			Civil	Military
	number						
Îles-de-la-Madeleine							
Domestic	416	339	18	6	17	36	0
Transborder	2	0	0	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	418	339	18	6	19	36	0
Inuvik/Mike Zubko							
Domestic	1,426	1,049	304	1	30	16	26
Transborder	1	0	0	1	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,427	1,049	304	2	30	16	26
Iqaluit							
Domestic	1,598	1,312	121	59	47	32	27
Transborder	22	9	0	2	11	0	0
Other international	90	42	1	8	33	1	5
Total	1,710	1,363	122	69	91	33	32
Kamloops							
Domestic	2,272	844	490	415	472	41	10
Transborder	18	3	6	1	8	0	0
Other international	0	0	0	0	0	0	0
Total	2,290	847	496	416	480	41	10
Kenora							
Domestic	841	391	151	125	132	24	18
Transborder	151	34	1	0	116	0	0
Other international	0	0	0	0	0	0	0
Total	992	425	152	125	248	24	18
Kingston							
Domestic	1,406	526	306	217	287	30	40
Transborder	25	0	5	0	20	0	0
Other international	1	0	1	0	0	0	0
Total	1,432	526	312	217	307	30	40
Kuujuuaq							
Domestic	1,193	819	186	115	42	28	3
Transborder	0	0	0	0	0	0	0
Other international	1	0	0	0	1	0	0
Total	1,194	819	186	115	43	28	3
La Grande Rivière							
Domestic	763	456	200	12	64	31	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	763	456	200	12	64	31	0
La Ronge							
Domestic	1,746	1,255	78	1	131	281	0
Transborder	9	0	0	0	9	0	0
Other international	0	0	0	0	0	0	0
Total	1,755	1,255	78	1	140	281	0
Lethbridge							
Domestic	1,829	523	72	845	324	41	24
Transborder	93	2	1	4	85	0	1
Other international	0	0	0	0	0	0	0
Total	1,922	525	73	849	409	41	25
Lloydminster							
Domestic	844	204	257	26	320	31	6
Transborder	3	0	0	0	3	0	0
Other international	0	0	0	0	0	0	0
Total	847	204	257	26	323	31	6

Table 7-2 – continued

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

	Total	Air carrier movements		Other commercial	Private	Government movements		
		Level I-III and Foreign	Level IV-VI			Civil	Military	
		number						
Medicine Hat								
Domestic	1,256	526	144	209	308	24	45	
Transborder	11	0	0	0	5	0	6	
Other international	0	0	0	0	0	0	0	
Total	1,267	526	144	209	313	24	51	
Mont-Joli								
Domestic	703	456	120	11	66	39	11	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	704	456	120	11	67	39	11	
Montréal/Mirabel International								
Domestic	728	472	31	5	204	5	11	
Transborder	219	192	1	0	25	1	0	
Other international	24	24	0	0	0	0	0	
Total	971	688	32	5	229	6	11	
Nanaimo								
Domestic	2,093	531	674	57	789	42	0	
Transborder	58	2	5	0	51	0	0	
Other international	2	0	0	0	2	0	0	
Total	2,153	533	679	57	842	42	0	
Norman Wells								
Domestic	1,666	647	942	20	39	14	4	
Transborder	0	0	0	0	0	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,666	647	942	20	39	14	4	
North Bay								
Domestic	1,546	649	292	190	316	36	63	
Transborder	31	11	0	0	20	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,577	660	292	190	336	36	63	
Ottawa/Gatineau								
Domestic	1,609	133	518	93	849	14	2	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,610	133	518	93	850	14	2	
Peace River								
Domestic	861	371	328	42	102	18	0	
Transborder	1	0	0	0	1	0	0	
Other international	0	0	0	0	0	0	0	
Total	862	371	328	42	103	18	0	
Penticton								
Domestic	1,173	303	394	52	352	14	58	
Transborder	33	0	1	0	31	0	1	
Other international	0	0	0	0	0	0	0	
Total	1,206	303	395	52	383	14	59	
Port Hardy								
Domestic	756	613	36	14	44	43	6	
Transborder	24	0	0	0	21	1	2	
Other international	0	0	0	0	0	0	0	
Total	780	613	36	14	65	44	8	
Prince Albert								
Domestic	1,777	1,403	74	10	142	148	0	
Transborder	6	2	0	0	4	0	0	
Other international	0	0	0	0	0	0	0	
Total	1,783	1,405	74	10	146	148	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							
Prince Rupert							
Domestic	262	202	12	2	34	12	0
Transborder	15	3	1	0	11	0	0
Other international	1	0	0	0	1	0	0
Total	278	205	13	2	46	12	0
Rankin Inlet							
Domestic	1,431	954	441	0	8	24	4
Transborder	9	0	9	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,440	954	450	0	8	24	4
Red Deer Regional							
Domestic	1,934	304	678	119	764	39	30
Transborder	13	1	1	0	11	0	0
Other international	0	0	0	0	0	0	0
Total	1,947	305	679	119	775	39	30
Rouyn-Noranda							
Domestic	1,211	671	246	148	126	18	2
Transborder	1	1	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,212	672	246	148	126	18	2
Saint John							
Domestic	1,109	717	61	18	305	4	4
Transborder	80	1	1	0	78	0	0
Other international	2	0	0	0	2	0	0
Total	1,191	718	62	18	385	4	4
Sept-Îles							
Domestic	3,020	1,402	1,156	30	206	220	6
Transborder	48	15	1	0	32	0	0
Other international	2	1	0	0	1	0	0
Total	3,070	1,418	1,157	30	239	220	6
Sioux Lookout							
Domestic	2,433	1,964	108	241	61	57	2
Transborder	25	0	0	4	21	0	0
Other international	0	0	0	0	0	0	0
Total	2,458	1,964	108	245	82	57	2
Smithers							
Domestic	1,017	558	273	22	97	10	57
Transborder	5	0	3	0	2	0	0
Other international	0	0	0	0	0	0	0
Total	1,022	558	276	22	99	10	57
St. Catharines							
Domestic	1,597	2	1,050	29	474	3	39
Transborder	46	7	3	0	35	0	1
Other international	0	0	0	0	0	0	0
Total	1,643	9	1,053	29	509	3	40
Sudbury							
Domestic	2,812	1,644	340	326	329	152	21
Transborder	16	4	0	0	12	0	0
Other international	0	0	0	0	0	0	0
Total	2,828	1,648	340	326	341	152	21
Terrace							
Domestic	1,747	629	976	11	107	22	2
Transborder	7	0	0	0	7	0	0
Other international	0	0	0	0	0	0	0
Total	1,754	629	976	11	114	22	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							
Thompson							
Domestic	3,275	2,076	546	28	81	538	6
Transborder	6	2	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	3,281	2,078	546	28	85	538	6
Timmins							
Domestic	2,569	2,005	115	31	279	126	13
Transborder	2	1	1	0	0	0	0
Other international	2	1	0	0	0	1	0
Total	2,573	2,007	116	31	279	127	13
Val-d'Or							
Domestic	1,361	759	243	54	252	51	2
Transborder	4	0	0	0	4	0	0
Other international	0	0	0	0	0	0	0
Total	1,365	759	243	54	256	51	2
Victoria Harbour							
Domestic	2,990	2,832	50	0	16	85	7
Transborder	360	359	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	3,350	3,191	50	0	17	85	7
Wabush							
Domestic	2,262	1,366	527	29	212	122	6
Transborder	5	2	0	0	3	0	0
Other international	1	1	0	0	0	0	0
Total	2,268	1,369	527	29	215	122	6
Whitecourt							
Domestic	1,000	56	604	147	190	3	0
Transborder	0	0	0	0	0	0	0
Other international	0	0	0	0	0	0	0
Total	1,000	56	604	147	190	3	0
Williams Lake							
Domestic	817	454	193	7	157	6	0
Transborder	1	0	0	0	1	0	0
Other international	0	0	0	0	0	0	0
Total	818	454	193	7	158	6	0
Total of all flight service stations (51)							
Domestic	76,092	39,207	17,739	4,214	11,374	2,742	816
Transborder	1,485	672	42	14	743	2	12
Other international	131	69	2	9	44	2	5
Total	77,708	39,948	17,783	4,237	12,161	2,746	833

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	18	8,358	21	10	73	5	466
Boundary Bay	6	15,653	19	13	121	4	732
Calgary International	3	20,733	5	18	60	26	839
Calgary/Springbank	14	10,617	10	11	101	1	606
Chicoutimi/St-Honoré	27	6,234	18	10	95	10	473
Edmonton City Centre	38	3,773	17	11	33	17	201
Edmonton International	9	12,894	26	8	52	26	608
Edmonton/Villeneuve	39	3,529	6	19	58	1	435
Fort McMurray	17	9,002	20	16	42	25	418
Fredericton International	22	7,246	20	14	60	20	489
Gander International	41	2,956	17	8	46	8	251
Halifax/Robert L. Stanfield International	23	7,180	18	14	32	25	296
Hamilton	40	3,500	5	12	38	14	272
Kelowna	25	6,601	17	10	51	3	326
Kitchener/Waterloo	10	11,876	18	11	104	20	828
Langley	33	4,466	1	18	48	1	361
London	26	6,571	9	11	59	3	452
Moncton/Greater Moncton International	30	4,828	5	17	40	5	330
Montréal/Pierre Elliott Trudeau International	4	19,155	9	17	66	20	755
Montréal/St-Hubert	5	16,069	30	10	140	5	1,264
Oshawa	32	4,627	15	10	60	15	449
Ottawa/Macdonald-Cartier International	8	13,757	19	11	97	5	747
Pitt Meadows	19	8,105	10	22	72	1	524
Prince George	35	3,952	17	17	78	18	229
Québec/Jean Lesage International	15	9,953	5	9	64	6	540
Regina International	29	5,157	1	15	43	17	292
Saskatoon/John G. Diefenbaker International	20	7,714	4	9	56	12	436
Sault Ste. Marie	21	7,445	17	15	81	19	584
St. John's International	36	3,787	6	9	24	10	175
St-Jean	34	4,043	5	12	65	5	411
Thunder Bay	24	7,074	11	13	74	19	467
Toronto/Billy Bishop Toronto City	13	10,826	26	11	66	21	555
Toronto/Buttonville Municipal	7	14,279	27	10	107	20	1,023
Toronto/Lester B. Pearson International	1	36,620	20	18	107	14	1,335
Vancouver Harbour	28	5,776	14	17	30	13	239
Vancouver International	2	27,277	21	17	84	28	1,054
Victoria International	11	11,502	7	10	75	13	536
Whitehorse International	37	3,781	26	16	45	26	194
Windsor	42	2,564	26	15	35	4	138
Winnipeg/James Armstrong Richardson International	12	11,348	18	9	49	18	483
Winnipeg/St. Andrews	16	9,791	17	18	72	17	598
Yellowknife	31	4,743	18	13	31	6	232

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	36	1,436	1	11	29	1	132
Campbell River	19	2,271	29	15	44	29	286
Castlegar	49	595	4	19	13	6	41
Charlottetown	37	1,366	1	10	38	1	143
Churchill	46	787	15	15	27	21	44
Cranbrook	43	901	6	17	14	27	57
Deer Lake	30	1,573	19	14	20	13	93
Fort Nelson	22	2,086	23	14	26	23	144
Fort St. John	17	2,314	11	16	43	11	125
Grande Prairie	2	4,144	20	12	66	20	248
High Level	31	1,522	18	16	23	18	99
Îles-de-la-Madeleine	50	454	7	17	5	17	27
Inuvik/Mike Zubko	35	1,441	30	12	15	28	90
Iqaluit	27	1,728	14	14	13	5	73
Kamloops	9	3,200	11	12	47	11	186
Kenora	39	1,156	12	14	27	17	79
Kingston	16	2,354	27	14	33	4	159
Kuujuuaq	38	1,312	2	19	11	3	59
La Grande Rivière	47	771	30	16	9	14	48
La Ronge	23	1,999	25	9	25	5	115
Lethbridge	12	2,676	4	14	42	28	200
Lloydminster	41	1,029	16	12	23	16	132
Medicine Hat	28	1,617	23	13	34	23	140
Mont-Joli	48	764	23	14	13	13	45
Montréal/Mirabel International	13	2,675	10	14	37	14	203
Nanaimo	10	3,139	1	12	39	6	157
Norman Wells	21	2,155	13	16	24	11	136
North Bay	8	3,213	18	11	59	18	290
Ottawa/Gatineau	1	4,724	15	14	91	9	380
Peace River	42	908	18	14	13	21	64
Penticton	20	2,170	26	11	62	27	144
Port Hardy	45	812	25	12	13	25	41
Prince Albert	25	1,971	3	11	25	3	119
Prince Rupert	51	278	26	10	6	5	19
Rankin Inlet	34	1,446	18	12	14	18	84
Red Deer Regional	3	3,721	28	11	71	27	288
Rouyn-Noranda	32	1,482	28	14	19	6	96
Saint John	33	1,447	14	13	16	20	95
Sept-Îles	7	3,334	28	14	33	28	183
Sioux Lookout	15	2,474	26	8	17	17	117
Smithers	40	1,066	6	14	15	1	68
St. Catharines	11	2,871	14	16	41	21	238
Sudbury	4	3,446	8	11	48	5	201
Terrace	24	1,976	1	10	30	1	152
Thompson	5	3,399	10	13	22	8	161
Timmins	14	2,665	15	10	32	15	172
Val-d'Or	26	1,949	22	14	34	10	120
Victoria Harbour	6	3,354	18	8	18	18	156
Wabush	18	2,308	25	19	19	25	158
Whitecourt	29	1,590	18	10	41	21	124
Williams Lake	44	900	13	10	14	21	52

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	28	3,400	15	10	39	15	200
Boundary Bay	14	6,719	16	12	45	29	349
Calgary International	3	20,585	5	18	60	26	831
Calgary/Springbank	18	5,083	22	10	38	27	285
Chicoutimi/St-Honoré	38	2,098	6	18	17	6	127
Edmonton City Centre	30	3,187	1	15	21	6	170
Edmonton International	5	12,622	26	16	44	26	550
Edmonton/Villeneuve	42	1,071	1	12	26	1	183
Fort McMurray	8	8,228	25	10	42	5	385
Fredericton International	27	3,436	13	19	24	5	234
Gander International	40	1,980	8	14	16	20	109
Halifax/Robert L. Stanfield International	13	6,842	5	17	22	20	264
Hamilton	37	2,440	14	11	21	14	188
Kelowna	21	4,569	29	10	32	27	194
Kitchener/Waterloo	20	4,700	19	15	39	19	335
Langley	35	2,624	1	18	48	1	335
London	26	3,617	20	17	25	3	216
Moncton/Greater Moncton International	29	3,228	11	16	17	20	178
Montréal/Pierre Elliott Trudeau International	4	19,061	9	17	64	20	745
Montréal/St-Hubert	12	7,079	20	15	49	5	540
Oshawa	34	2,703	15	11	54	15	363
Ottawa/Macdonald-Cartier International	6	10,423	18	11	40	18	475
Pitt Meadows	31	3,171	1	15	35	15	224
Prince George	36	2,540	24	15	26	21	112
Québec/Jean Lesage International	11	7,523	21	12	34	20	375
Regina International	24	3,639	5	14	19	5	196
Saskatoon/John G. Diefenbaker International	17	5,656	28	11	29	27	283
Sault Ste. Marie	32	2,873	4	16	19	19	170
St. John's International	25	3,623	13	12	16	20	147
St-Jean	39	2,027	5	12	39	13	205
Thunder Bay	19	4,944	7	15	27	19	249
Toronto/Billy Bishop Toronto City	10	7,638	9	16	32	21	349
Toronto/Buttonville Municipal	15	5,877	9	15	47	9	397
Toronto/Lester B. Pearson International	1	36,548	20	18	107	14	1,335
Vancouver Harbour	16	5,766	14	17	30	13	237
Vancouver International	2	27,181	28	17	83	28	1,052
Victoria International	9	7,856	28	14	35	5	322
Whitehorse International	33	2,777	26	12	28	26	150
Windsor	41	1,710	15	9	13	4	90
Winnipeg/James Armstrong Richardson International	7	10,352	20	14	34	18	429
Winnipeg/St. Andrews	23	3,737	25	11	26	3	187
Yellowknife	22	3,937	5	14	26	5	215

Table 9-2
Itinerant aircraft movements, peak hour and peak day — NAV CANADA flight service stations

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Brandon Municipal	43	804	1	11	29	1	94
Campbell River	25	1,439	29	15	18	29	88
Castlegar	49	469	6	14	10	6	33
Charlottetown	35	1,166	1	10	38	1	139
Churchill	47	751	5	19	9	6	40
Cranbrook	44	787	27	16	8	27	39
Deer Lake	27	1,431	14	19	10	12	66
Fort Nelson	12	1,956	23	14	22	23	130
Fort St. John	11	1,978	21	12	17	28	98
Grande Prairie	5	2,626	11	15	18	20	116
High Level	23	1,474	21	18	16	21	87
Îles-de-la-Madeleine	50	418	26	12	5	17	23
Inuvik/Mike Zubko	28	1,427	7	13	11	28	90
Iqaluit	18	1,710	14	14	13	5	73
Kamloops	8	2,290	15	11	20	23	106
Kenora	38	992	8	10	11	17	59
Kingston	26	1,432	27	14	21	15	83
Kuuujuaq	33	1,194	17	12	11	17	57
La Grande Rivière	46	763	30	16	9	14	48
La Ronge	16	1,755	5	17	17	5	115
Lethbridge	14	1,922	6	13	20	28	142
Lloydminster	41	847	16	12	23	16	132
Medicine Hat	30	1,267	10	10	17	23	82
Mont-Joli	48	704	27	18	8	25	39
Montréal/Mirabel International	39	971	6	20	10	4	66
Nanaimo	10	2,153	1	12	33	6	109
Norman Wells	19	1,666	5	12	15	21	81
North Bay	22	1,577	4	13	14	5	90
Ottawa/Gatineau	21	1,610	9	16	32	9	242
Peace River	40	862	11	16	9	19	48
Penticton	32	1,206	28	15	14	6	74
Port Hardy	45	780	6	12	8	27	39
Prince Albert	15	1,783	12	7	16	5	92
Prince Rupert	51	278	26	10	6	5	19
Rankin Inlet	24	1,440	18	12	14	11	82
Red Deer Regional	13	1,947	7	10	38	27	132
Rouyn-Noranda	31	1,212	5	15	11	18	71
Saint John	34	1,191	10	11	8	5	59
Sept-Îles	3	3,070	28	16	22	28	151
Sioux Lookout	7	2,458	26	8	17	17	117
Smithers	36	1,022	1	14	12	1	64
St. Catharines	20	1,643	1	10	20	15	129
Sudbury	4	2,828	6	13	19	14	157
Terrace	17	1,754	26	8	14	28	94
Thompson	2	3,281	7	17	20	8	161
Timmins	6	2,573	15	10	32	15	172
Val-d'Or	29	1,365	14	15	14	10	80
Victoria Harbour	1	3,350	18	8	18	18	156
Wabush	9	2,268	25	11	18	25	144
Whitecourt	37	1,000	9	11	26	9	81
Williams Lake	42	818	4	9	8	21	48

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	7	4,958	19	11	60	5	292
Boundary Bay	2	8,934	19	13	102	19	452
Calgary International	38	148	8	15	12	8	20
Calgary/Springbank	6	5,534	10	11	76	1	328
Chicoutimi/St-Honoré	10	4,136	4	10	86	4	382
Edmonton City Centre	34	586	9	9	16	17	54
Edmonton International	36	272	26	23	40	26	58
Edmonton/Villeneuve	16	2,458	6	19	50	1	252
Fort McMurray	33	774	22	20	32	17	56
Fredericton International	11	3,810	20	14	48	20	290
Gander International	30	976	17	8	42	8	148
Halifax/Robert L. Stanfield International	35	338	27	13	16	25	34
Hamilton	27	1,060	5	12	30	5	130
Kelowna	20	2,032	26	11	36	3	178
Kitchener/Waterloo	4	7,176	18	10	84	18	564
Langley	23	1,842	6	10	34	10	130
London	15	2,954	9	14	46	4	238
Moncton/Greater Moncton International	24	1,600	10	11	32	5	158
Montréal/Pierre Elliott Trudeau International	40	94	3	13	4	3	14
Montréal/St-Hubert	1	8,990	12	21	110	5	724
Oshawa	22	1,924	4	15	36	12	206
Ottawa/Macdonald-Cartier International	13	3,334	19	11	64	5	276
Pitt Meadows	8	4,934	10	22	70	1	302
Prince George	26	1,412	17	17	68	15	132
Québec/Jean Lesage International	17	2,430	18	8	46	6	210
Regina International	25	1,518	28	9	32	17	154
Saskatoon/John G. Diefenbaker International	19	2,058	4	9	36	7	162
Sault Ste. Marie	9	4,572	17	15	70	19	414
St. John's International	37	164	10	10	16	10	30
St-Jean	21	2,016	5	15	52	5	214
Thunder Bay	18	2,130	11	13	60	19	218
Toronto/Billy Bishop Toronto City	14	3,188	26	11	46	12	238
Toronto/Buttonville Municipal	3	8,402	27	10	78	20	640
Toronto/Lester B. Pearson International	41	72	13	21	6	10	10
Vancouver Harbour	42	10	12	8	2	12	2
Vancouver International	39	96	22	9	28	22	40
Victoria International	12	3,646	7	10	54	13	226
Whitehorse International	28	1,004	26	16	26	7	80
Windsor	31	854	26	15	24	5	54
Winnipeg/James Armstrong Richardson International	29	996	5	22	24	17	92
Winnipeg/St. Andrews	5	6,054	17	18	58	17	412
Yellowknife	32	806	18	13	20	6	102

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	13	632	3	15	26	29	64
Campbell River	11	832	29	8	32	29	198
Castlegar	31	126	3	12	10	3	16
Charlottetown	25	200	16	23	12	22	24
Churchill	42	36	15	15	24	15	24
Cranbrook	34	114	6	17	10	27	18
Deer Lake	29	142	13	12	16	13	44
Fort Nelson	30	130	19	16	18	19	34
Fort St. John	19	336	11	16	36	11	44
Grande Prairie	5	1,518	20	12	56	20	132
High Level	38	48	18	16	14	18	22
Îles-de-la-Madeleine	43	36	18	16	4	18	10
Inuvik/Mike Zubko	47	14	30	12	8	30	10
Iqaluit	45	18	18	18	6	18	12
Kamloops	10	910	11	12	40	11	108
Kenora	28	164	12	14	22	12	30
Kingston	9	922	29	14	28	4	94
Kuujuuaq	33	118	22	19	8	1	22
La Grande Rivière	48	8	8	20	4	8	4
La Ronge	23	244	15	9	14	12	46
Lethbridge	12	754	4	14	28	4	76
Lloydminster	27	182	27	18	18	4	40
Medicine Hat	18	350	23	13	24	23	58
Mont-Joli	37	60	13	14	10	2	10
Montréal/Mirabel International	3	1,704	10	14	36	14	164
Nanaimo	7	986	18	11	24	22	72
Norman Wells	17	489	13	16	18	11	66
North Bay	4	1,636	18	11	54	18	210
Ottawa/Gatineau	1	3,114	15	14	82	15	246
Peace River	39	46	18	14	8	21	16
Penticton	8	964	26	11	58	26	116
Port Hardy	44	32	25	12	8	25	10
Prince Albert	26	188	3	11	22	3	44
Prince Rupert	0	0	0	0	0	0	0
Rankin Inlet	49	6	18	15	2	18	2
Red Deer Regional	2	1,774	27	18	62	28	166
Rouyn-Noranda	20	270	28	14	18	15	38
Saint John	22	256	1	10	10	20	36
Sept-Îles	21	264	28	14	22	28	32
Sioux Lookout	46	16	16	13	6	16	6
Smithers	40	44	14	11	8	6	12
St. Catharines	6	1,228	17	18	32	21	140
Sudbury	14	618	8	11	38	5	68
Terrace	24	222	1	13	24	1	98
Thompson	32	118	2	18	14	18	18
Timmins	35	92	7	10	6	7	14
Val-d'Or	16	584	22	14	30	8	64
Victoria Harbour	50	4	27	12	2	27	2
Wabush	41	40	25	19	12	26	24
Whitecourt	15	590	18	10	36	21	66
Williams Lake	36	82	16	9	12	16	14

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	7	4,958	19	11	60	5	292
Boundary Bay	2	8,934	19	13	102	19	452
Calgary International	38	148	8	15	12	8	20
Calgary/Springbank	6	5,534	10	11	76	1	328
Chicoutimi/St-Honoré	10	4,106	4	10	86	4	382
Edmonton City Centre	34	586	9	9	16	17	54
Edmonton International	36	270	26	23	40	26	58
Edmonton/Villeneuve	16	2,458	6	19	50	1	252
Fort McMurray	33	770	22	20	32	17	56
Fredericton International	11	3,802	20	14	48	20	288
Gander International	30	974	17	8	42	8	148
Halifax/Robert L. Stanfield International	35	338	27	13	16	25	34
Hamilton	29	984	5	12	30	5	130
Kelowna	20	2,004	26	11	36	3	178
Kitchener/Waterloo	4	7,176	18	10	84	18	564
Langley	23	1,842	6	10	34	10	130
London	15	2,954	9	14	46	4	238
Moncton/Greater Moncton International	24	1,600	10	11	32	5	158
Montréal/Pierre Elliott Trudeau International	40	92	3	13	4	3	14
Montréal/St-Hubert	1	8,984	12	21	110	5	724
Oshawa	22	1,924	4	15	36	12	206
Ottawa/Macdonald-Cartier International	13	3,328	19	11	64	5	276
Pitt Meadows	8	4,934	10	22	70	1	302
Prince George	25	1,412	17	17	68	15	132
Québec/Jean Lesage International	17	2,418	18	8	46	6	210
Regina International	26	1,278	1	15	30	17	144
Saskatoon/John G. Diefenbaker International	21	1,988	4	9	36	7	156
Sault Ste. Marie	9	4,566	17	15	70	19	414
St. John's International	37	164	10	10	16	10	30
St-Jean	19	2,016	5	15	52	5	214
Thunder Bay	18	2,122	11	13	60	19	216
Toronto/Billy Bishop Toronto City	14	3,184	26	11	46	12	238
Toronto/Buttonville Municipal	3	8,402	27	10	78	20	640
Toronto/Lester B. Pearson International	41	72	13	21	6	10	10
Vancouver Harbour	42	10	12	8	2	12	2
Vancouver International	39	96	22	9	28	22	40
Victoria International	12	3,618	7	10	54	13	226
Whitehorse International	27	1,004	26	16	26	7	80
Windsor	31	846	26	15	24	5	54
Winnipeg/James Armstrong Richardson International	28	996	5	22	24	17	92
Winnipeg/St. Andrews	5	6,054	17	18	58	17	412
Yellowknife	32	800	18	13	20	6	102

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	13	628	3	15	26	29	64
Campbell River	11	830	29	8	32	29	198
Castlegar	31	126	3	12	10	3	16
Charlottetown	25	186	16	23	12	22	24
Churchill	44	24	15	15	12	15	12
Cranbrook	34	114	6	17	10	27	18
Deer Lake	29	142	13	12	16	13	44
Fort Nelson	30	130	19	16	18	19	34
Fort St. John	19	336	11	16	36	11	44
Grande Prairie	5	1,518	20	12	56	20	132
High Level	38	48	18	16	14	18	22
Îles-de-la-Madeleine	42	32	18	16	4	18	10
Inuvik/Mike Zubko	48	6	30	12	4	30	4
Iqaluit	45	18	18	18	6	18	12
Kamloops	10	902	11	12	40	11	108
Kenora	27	164	12	14	22	12	30
Kingston	9	918	29	14	28	4	94
Kuujuuaq	32	118	22	19	8	1	22
La Grande Rivière	47	8	8	20	4	8	4
La Ronge	23	244	15	9	14	12	46
Lethbridge	12	748	4	14	28	4	76
Lloydminster	26	182	27	18	18	4	40
Medicine Hat	18	350	23	13	24	23	58
Mont-Joli	37	58	13	14	10	2	10
Montréal/Mirabel International	3	1,694	10	14	36	14	164
Nanaimo	7	980	18	11	24	22	72
Norman Wells	17	489	13	16	18	11	66
North Bay	4	1,628	18	11	54	18	210
Ottawa/Gatineau	1	3,110	15	14	82	15	246
Peace River	39	46	18	14	8	21	16
Penticton	8	954	26	11	58	26	116
Port Hardy	43	32	25	12	8	25	10
Prince Albert	28	164	3	11	22	3	44
Prince Rupert	0	0	0	0	0	0	0
Rankin Inlet	49	6	18	15	2	18	2
Red Deer Regional	2	1,774	27	18	62	28	166
Rouyn-Noranda	20	270	28	14	18	15	38
Saint John	22	252	1	10	10	20	36
Sept-Îles	21	264	28	14	22	28	32
Sioux Lookout	46	16	16	13	6	16	6
Smithers	40	44	14	11	8	6	12
St. Catharines	6	1,228	17	18	32	21	140
Sudbury	14	616	8	11	38	5	68
Terrace	24	222	1	13	24	1	98
Thompson	33	118	2	18	14	18	18
Timmins	35	92	7	10	6	7	14
Val-d'Or	16	578	22	14	30	8	64
Victoria Harbour	50	4	27	12	2	27	2
Wabush	41	40	25	19	12	26	24
Whitecourt	15	590	18	10	36	21	66
Williams Lake	36	82	16	9	12	16	14

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

	Rank of movements	Number of movements	Peak hour occurrence			Peak day occurrence	
			Day in month	Hour in day	Number of movements	Day in month	Number of movements
Abbotsford	0	0	0	0	0	0	0
Boundary Bay	0	0	0	0	0	0	0
Calgary International	0	0	0	0	0	0	0
Calgary/Springbank	0	0	0	0	0	0	0
Chicoutimi/St-Honoré	4	30	10	13	6	14	8
Edmonton City Centre	0	0	0	0	0	0	0
Edmonton International	18	2	27	10	2	27	2
Edmonton/Villeneuve	0	0	0	0	0	0	0
Fort McMurray	15	4	14	13	2	14	2
Fredericton International	8	8	10	12	2	10	2
Gander International	17	2	4	15	2	4	2
Halifax/Robert L. Stanfield International	0	0	0	0	0	0	0
Hamilton	2	76	1	14	18	14	32
Kelowna	5	28	23	15	10	23	10
Kitchener/Waterloo	0	0	0	0	0	0	0
Langley	0	0	0	0	0	0	0
London	0	0	0	0	0	0	0
Moncton/Greater Moncton International	0	0	0	0	0	0	0
Montréal/Pierre Elliott Trudeau International	19	2	16	16	2	16	2
Montréal/St-Hubert	14	6	29	13	6	29	6
Oshawa	0	0	0	0	0	0	0
Ottawa/Macdonald-Cartier International	11	6	10	12	2	10	2
Pitt Meadows	0	0	0	0	0	0	0
Prince George	0	0	0	0	0	0	0
Québec/Jean Lesage International	7	12	5	12	4	5	6
Regina International	1	240	21	16	10	26	24
Saskatoon/John G. Diefenbaker International	3	70	25	9	10	25	14
Sault Ste. Marie	12	6	7	21	6	7	6
St. John's International	0	0	0	0	0	0	0
St-Jean	0	0	0	0	0	0	0
Thunder Bay	10	8	7	20	2	7	2
Toronto/Billy Bishop Toronto City	16	4	15	17	4	15	4
Toronto/Buttonville Municipal	0	0	0	0	0	0	0
Toronto/Lester B. Pearson International	0	0	0	0	0	0	0
Vancouver Harbour	0	0	0	0	0	0	0
Vancouver International	0	0	0	0	0	0	0
Victoria International	6	28	19	14	6	21	12
Whitehorse International	0	0	0	0	0	0	0
Windsor	9	8	2	13	6	2	6
Winnipeg/James Armstrong Richardson International	0	0	0	0	0	0	0
Winnipeg/St. Andrews	0	0	0	0	0	0	0
Yellowknife	13	6	14	15	6	14	6

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	12	4	4	16	4	4	4
Campbell River	18	2	10	9	2	10	2
Castlegar	0	0	0	0	0	0	0
Charlottetown	2	14	21	10	10	21	10
Churchill	3	12	15	15	12	15	12
Cranbrook	0	0	0	0	0	0	0
Deer Lake	0	0	0	0	0	0	0
Fort Nelson	0	0	0	0	0	0	0
Fort St. John	0	0	0	0	0	0	0
Grande Prairie	0	0	0	0	0	0	0
High Level	0	0	0	0	0	0	0
Îles-de-la-Madeleine	13	4	5	13	2	5	2
Inuvik/Mike Zubko	6	8	30	12	4	30	6
Iqaluit	0	0	0	0	0	0	0
Kamloops	8	8	1	14	6	1	8
Kenora	0	0	0	0	0	0	0
Kingston	15	4	20	19	2	20	2
Kuujuuaq	0	0	0	0	0	0	0
La Grande Rivière	0	0	0	0	0	0	0
La Ronge	0	0	0	0	0	0	0
Lethbridge	10	6	18	15	6	18	6
Lloydminster	0	0	0	0	0	0	0
Medicine Hat	0	0	0	0	0	0	0
Mont-Joli	17	2	17	14	2	17	2
Montréal/Mirabel International	4	10	10	11	8	10	8
Nanaimo	9	6	1	15	4	1	4
Norman Wells	0	0	0	0	0	0	0
North Bay	7	8	4	11	2	4	2
Ottawa/Gatineau	14	4	9	12	4	9	4
Peace River	0	0	0	0	0	0	0
Penticton	5	10	11	16	6	11	6
Port Hardy	0	0	0	0	0	0	0
Prince Albert	1	24	12	16	4	26	6
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	16	4	21	9	2	21	2
Sept-Îles	0	0	0	0	0	0	0
Sioux Lookout	0	0	0	0	0	0	0
Smithers	0	0	0	0	0	0	0
St. Catharines	0	0	0	0	0	0	0
Sudbury	19	2	28	17	2	28	2
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	11	6	3	13	4	3	4
Victoria Harbour	0	0	0	0	0	0	0
Wabush	0	0	0	0	0	0	0
Whitecourt	0	0	0	0	0	0	0
Williams Lake	0	0	0	0	0	0	0

Methodology

Survey universe

Coverage

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

Methodology survey

The Itinerant movement record is designed to capture:

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

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

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

Processing of aircraft movement statistics involves several stages. Monthly data by class of operation are released in Aircraft movement statistics - Monthly report, catalogue nos. 51-007-X and 51-008-X (TP-141). Annual tables, which may reflect revisions, are released in the two annual publications, catalogue 51-209-X Aircraft movement statistics – NAV CANADA Towers and Flight Service Stations: Annual report (TP-577) and catalogue 51-210-X Aircraft movement statistics – Airports Without Air Traffic Control Towers: Annual report (TP-577). In particular, data on itinerant movements by type of operation may reflect revisions as various sources of comparative information (data collected from commercial air carriers by the Aviation Statistics Centre, Statistics Canada) become available during the processing cycle. Finally, when revisions are required after the release of 51-209-X and 51-210-X, they are contained in the five year historical summary of subsequent editions of these reports. These revisions are also reflected in the CANSIM tables, both monthly and annual.

The records are completed daily, based on a twenty-four hour clock running from zero hour to 23:59. The times recorded are Coordinated Universal Time (UTC); however, published statistics are shown in local times. The records are transmitted to the Aviation Statistics Centre.

The Aviation Statistics Centre maintains a data base of parameter files of current information on all registered aircraft. The storage of this information reduces the reporting burden of the survey respondents and limits the element of human error associated with the preparation of source documents.

Other parameter files information includes registered aircraft identifications and their corresponding aircraft types, maximum take-off weights, types of power plant (piston, jet or turboprop); whether the aircraft are fixed wing, helicopters or gliders. This information also provides a basis for identifying type of flights (commercial, private and government) and the geographical area in which the flights take place.

The parameter files also include airport environment information against which the airport category is checked; the reported runway is validated and the time difference between UTC and Local is assigned.

Data quality and limitations

Aircraft movement statistics are accumulated from data originating with air traffic control tower units or flight service station personnel. Because staff in these positions are highly trained in factual observation and reporting, the entries in the data bank are of a high quality.

The procedures for reporting aircraft movements on the Daily air traffic records by tower units are described in the NAV CANADA Air traffic control manual of operations (TP 703) Volume 1, Para. 1023 to 1023.5. Definitions for terms used in these paragraphs can be found in the appendix II "Glossary of terms" of this report.

To maintain uniformity in the reporting of source data, ASC issues to air traffic control units an "Air traffic designators" handbook (TP 143) listing the official Transport Canada aircraft type designators and the designators of various domestic and international air carriers. This handbook and another titled "Canada flight supplement" listing various airport codes serve as references to help ensure the reporting of the proper aircraft identity and the point of origin and destination of flights.

The processing system contains editing procedures designed to identify data errors occurring during transcription or during data capture of forms. Identified errors are manually corrected by Aviation Statistics Centre editing staff.

Errors may occur if an aircraft type code which exists is reported or data captured in error for a flight. For example, the reporting or keying of B727 for a flight actually performed by a B737 may not be detected during the system editing. That the aircraft type information is recorded by highly trained air traffic control tower staff using a common handbook of official aircraft codes will minimize this problem.

Similarly, the breakdown of the data on a geographic basis by use of location codes can be subject to error. For smaller locations, alphanumeric location codes are often used and the sequence of numbers and letters determines the geographic area to which the data are assigned. In some cases, where a sequence error has been introduced into the system either at the reporting unit or at data capture, a domestic movement may be classified as transborder or vice versa. The use of common manuals of location identifiers works to minimize this occurrence.

Appendix I

Factors influencing the data

On June 24th , 2013 Westjet launched its new regional carrier, Westjet Encore, into operations. The new airline commenced flights to Fort St. John, Nanaimo, Vancouver and Victoria, British Columbia and Saskatoon, Saskatchewan.

Starting April 2013, Porter Airlines added a fourth round-trip weekday flight between Toronto/Billy Bishop Toronto City Airport and Windsor.

In April 2013, Westjet expanded its summer service from Hamilton Airport by adding daily non-stop flights to Edmonton, Halifax, Moncton and Winnipeg.

Significant winter storms struck eastern Canada and the Maritime provinces in December 2012 forcing numerous flight cancellations and delays.

Hurricane Sandy struck the northeastern United States and eastern Canada in October 2012 forcing numerous flight cancellations.

In June 2012, Porter Airlines commenced summer service to Mont Tremblant, with four weekly flights between Toronto/Billy Bishop Toronto City Airport and Mont Tremblant International Airport.

Appendix II

Glossary of terms

Air carrier

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

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

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

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

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

Aircraft movement

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

Class of operation

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

Commercial

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

Domestic itinerant movements

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

FSS

Flight service station.

Government-Civil

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

Government-Military

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

I.F.R. flight

A flight conducted in accordance with Instrument Flight Rules.

International movements

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

Itinerant movements

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

Local movements

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

Maximum take-off weight

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

Other commercial

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

Power plant

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

Private aircraft

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

Runway 88

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

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

Simulated approaches

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

TC

Transport Canada.

Tower control zone

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

V.F.R. flight

A flight conducted in accordance with Visual flight rules.

Weight group

The classification of weight classes in groups for statistical purposes.