

Time Start 7:00 Time Ending	NORTHBOUND ON Osborne St.				SOUTHBOUND ON Osborne St.				EASTBOUND ON Corydon Ave.				WESTBOUND ON				Previous Count 1997	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	TOTAL	
7:15			259	128			131			95	376						989	
7:30			365	132			122			128	478						1,225	
7:45			361	191			133			131	589						1,405	
8:00			373	188			177			127	685	1					1,551	
8:15			343	182		1	154			113	628						1,421	
8:30			324	168			136			113	614	2					1,357	
8:45			328	171			177			111	570	2					1,359	
9:00			330	218		1	179			130	532	1					1,391	
10:00			871	506		7	527			400	1,671	3					3,984	
11:00			590	220		9	502			324	1,173	6					2,824	
12:00																		
13:00																		
14:00																		
15:00			567	333		8	795			444	1,228	11					3,386	
15:15			181	114		1	266			103	393	3					1,061	
15:30			203	105		1	271			87	383	4					1,054	
15:45			187	129		1	255			99	383	4					1,058	
16:00			177	116			335			101	463	1					1,193	
16:15			162	148		1	338			90	456	1					1,196	
16:30			172	114			386			95	538	1					1,306	
16:45			170	104		1	339			88	500						1,202	
17:00			157	104			352			115	439						1,167	
17:15			147	75		1	353			116	461	1					1,154	
17:30			120	87		1	350			101	408	1					1,068	
17:45			191	74		1	306			95	427						1,094	
18:00			134	61		2	271			99	363	2					932	
19:00																		
20:00																		
21:00																		
22:00																		
8 hr.			6,712	3,667		35	6,855			3,305	13,758	44					34,377	
TOTAL			10,379			6,890				17,107								
12 hr est			9,732	5,318		51	9,940			4,792	19,949	64					49,846	
1.45			15,050			9,991				24,805								
24 hr. est.			12,944	7,072		68	13,220			6,374	26,532	85					66,295	
1.33			20,016			13,288				32,991								
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:																7:30 - 8:30	5,849
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:																9:00 - 10:00	4,311
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:																15:45 - 16:45	5,086
Off-Peak Hour	Highest Off-Peak Hour (between 18:00 and 22:00) is from:																	
Peak 15 Minute Time & PHF	7:45 - 8:00		8:45 - 9:00		7:45 - 8:00		7:00 - 7:15		A.M. Peak									
	0.97	0.85	0.50	0.90	0.95	0.92	0.63	PHF										
	9:15 - 9:30		14:45 - 15:00		9:00 - 9:15		9:00 - 9:15		Average									
	0.81	0.74	0.53	0.93	0.89	0.77	0.92	PHF										
	15:30 - 15:45		16:15 - 16:30		16:15 - 16:30		15:00 - 15:15		P.M. Peak									
0.92	0.86	0.63	0.93	0.92	0.91	0.75	PHF											
								Average										
								PHF										

Ratio: E/W to N/S = 0.99
 E/W = 49.8%
 N/S = 50.2%

Shift AM
 Weather: Clear
 Temperature: -31
 Counted/Compiled By: RB RA WA AG / RB
 Count Date: January 16,2007

PM
 Clear
 -25
 January 15,2007

EVE

Location: Osborne St. & Corydon Ave.

THE CITY OF WINNIPEG
STREETS AND TRANSPORTATION DEPARTMENT

U-TURN VEHICLE COUNT

DIRECTIONAL RECORD ANALYSIS
12 HOUR PERIOD

Time	Northbound on			Southbound on			Eastbound on			Westbound on			TOTAL	
	PEMBINA			PEMBINA			WINDERMERE			POINT				
07:00	u	left	right	u	left	right	u	left	right	u	left	right	94	
07:15		421	1	8	365	4	24	2		1	2	19	847	
07:30		524	3	13	369	7	33	4	1	9	1	20	984	
07:45		636	3	1	7	389	6	54	1	2	6	6	79	1,190
08:00		663	2		13	508	9	51	3	5	13	11	62	1,340
08:15		672	2		16	526	7	36	5	4	11	9	72	1,360
08:30		639	2		28	529	14	37	12	7	20	9	99	1,396
08:45		473	5		37	355	12	26	9	5	12	10	68	1,012
09:00		497	6		34	357	4	47	9	8	9	12	93	1,076
10:00		1,691	13	3	68	1,316	23	100	19	16	44	11	134	3,438
11:00		1,465	14	7	52	1,287	26	57	13	14	34	10	91	3,070
12:00														
13:00														
14:00														
15:00		1,728	15		67	1,668	37	73	16	20	35	12	80	3,751
15:15		434	8		23	463	9	22	5	6	13	9	28	1,020
15:30		435	12		31	509	10	25	6	6	17	14	36	1,101

15:45		535	7		33	483	18	31	8	3	13	13	34	1,178
16:00		554	7	1	42	473	17	61	15	5	18	13	55	1,261
16:15		596	6		30	547	16	63	10	7	17	15	66	1,373
16:30		583	5		49	617	9	26	5	10	18	5	34	1,361
16:45		599	5		27	605	13	28	14	4	15	11	25	1,346
17:00		662	11		26	612	20	48	9	6	13	9	30	1,446
17:15		593	3		36	696	20	30	12	7	14	7	21	1,439
17:30		582	6		55	650	7	22	14	8	20	5	25	1,394
17:45		460	6	1	54	533	25	17	5	8	9	7	30	1,155
18:00		502	4		67	445	16	20	6	6	11	7	35	1,119
19:00														
8hr			146		816		329	931		158	372		1,236	
Total		15944		13	14302			202			208			34,657
adj.		23,331			22,417			1,872			2,633			
12hr			212		1183		477	1350		229	539		1,792	
Total		23119		19	20738			293			302			50,253

peak hour		2,610	9	1	64	1,952	36	178	21	18	50	35	312	0730-0830
avg.		1,807	17	1	97	1,622	38	104	22	18	42	23	137	off peak
peak 15 min.		08:00-08:15			08:15-08:30			08:45-09:00			08:15-08:30			AM time
hrly rate		2,688	8		112	2,116	56	188	36	32	80	36	396	volume
hrly rate		16:45-17:00			17:00-17:15			15:45-16:00			16:00-16:15			PM time
hrly rate		2,648	44		144	2,784	80	244	60	20	68	60	264	volume
Ratio of E/W to N/S =		0.1						Weather CLEAR/OVERCAST			Temperature -15/-16			
		E/W = 9.0 %						Counted by ZJK RPB			Date 1998/03/11-12			
		N/S = 91.0 %						Compiled by ZJK			Date 1998/03/12			

-----Location-----day-----month-----year-----

PEMBINA & WINDERMERE & POINT 94 12 - AM MARCH 1998
11 - PM MARCH 1998

VEHICLE COUNT

Time Start 7:00 Time Ending	NORTHBOUND ON				SOUTHBOUND ON				EASTBOUND ON				WESTBOUND ON				Previous Count Unknown
	Pembina Highway				Pembina Highway				Warsaw Avenue				Warsaw Avenue				TOTAL
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
7:15			366	3	1	1	249	1									621
7:30			478			1	261	2		1							743
7:45			633	1			347									1	982
8:00			665	5			321	1		1							993
8:15			632	1	2	1	300	3		1				2		1	943
8:30	1		708	1	1		270	2		1	1			1	1		987
8:45	4	2	506	2		1	268	3			2			3		1	792
9:00	3	1	510	6			255	2		1				1	2	1	782
10:00	5		1,737	13	1	3	952	8		7	2	1		9	5	11	2,754
11:00	7	2	1,631	19	7	3	1,007	7		8	4			12	9	12	2,728
12:00	9	8	1,731	12	6	2	1,099	5		5	2			19	5	5	2,908
13:00	8	2	1,739	13	6	4	1,163	4		6	4			24	4	7	2,984
14:00	7	2	1,701	12	5	3	1,088	6		6	5	1		16	8	8	2,868
15:00	11	1	1,655	17	4	4	1,217	17		9	5			21	9	15	2,985
15:15	4	1	456	3	1	1	315	6		2	1			5	2	3	800
15:30	5	1	498	1	1	1	327	7		2	1			4	1	2	851
15:45	3		413	2	1	1	429	1			2			3	3	5	863
16:00	3	1	542	4		1	383	1						1	3	4	943
16:15	2	2	434	4	2		442	3		2	1			7	2	3	904
16:30	3	1	428	1	1		480	1			1			3		3	922
16:45	1		491	3	1	1	481	1			1			8	1	1	990
17:00	4	2	520	4		2	465	2		3				10	1	1	1,014
17:15	1	1	542	3			419	2		1				7	4	1	981
17:30	2	1	446	4		1	445			3				5	2		909
17:45	3		443	1		2	384				1			7	1	1	843
18:00	2		467	2		2	299			1				7	3	1	784
19:00																	
20:00																	
21:00																	
22:00																	
11 hr.	88	28	20,372	137	40	35	13,666	85		60	33	2		175	66	87	34,874
TOTAL			20,625				13,826			95				328			
12 hr. est. 1.08	95	30	22,002	148	43	38	14,759	92		65	36	2		189	71	94	37,664
			22,275				14,932			103				354			
24 hr. est. 1.33	126	40	29,262	197	57	50	19,630	122		86	47	3		251	95	125	50,093
			29,626				19,860			136				471			
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:											7:30 - 8:30				3,905	
	1		2,638	8	3	1	1,238	6		3	1			3	1	2	3,904
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:											16:15 - 17:15				3,907	
	9	4	1,981	11	2	3	1,845	6		4	2			28	6	6	3,898
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:											14:00 - 15:00				2,985	
	11	1	1,655	17	4	4	1,217	17		9	5			21	9	15	2,974
Peak 15 Minute Hourly Rate	8:15 - 8:30				7:30 - 7:45				8:15 - 8:30				8:30 - 8:45				A.M. Peak Volume
	4		2,832	4			1,388			4	4			12		4	
	15:45 - 16:00				16:30 - 16:45				15:00 - 15:15				16:00 - 16:15				P.M. Peak Volume
	12	4	2,168	16	4	4	1,924	4		8	4			28	8	12	
Ratio: E/W to N/S =	0.0				Shift				AM				PM				
E/W =	1.2%				Weather:				Clear				Clear				
N/S =	98.8%				Temperature:				18 C				26 C				
Location:	Pembina Hwy. & Warsaw Ave.				Counted/Compiled By:				RB WA/ RB				Count Date:				
									July 26,2002				July 25,2002				

**THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT**

**15 Hour Manual Vehicle Count
Intersection Turning Movement**

R

**Traffic Studies
Phone: 986-5034**

Time Start 7:00	NORTHBOUND ON				SOUTHBOUND ON				EASTBOUND ON				WESTBOUND ON				Previous Count 1999	
	Pembina Hwy.				Pembina Hwy.				Approach				Plaza Dr.				TOTAL	
Time Ending	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:15		1	354	1	3	4	122							33		21	539	
7:30	5	4	543			10	175			1			1	19		17	775	
7:45	1		560			7	211							20		18	817	
8:00	1	2	518	1	3	7	258	1		1				19		21	832	
8:15	1	3	490	6	2	13	429			1	1			32	1	15	994	
8:30	6	3	505	2	1	10	375			1		2		34		18	957	
8:45	2	6	433	5	1	17	364	1		3		1		24	2	14	873	
9:00	12	3	361	6	1	20	403	1		2		2		27		12	850	
10:00	33	12	1,198	19	5	67	1,299	9		14	6	6		109	3	55	2,835	
11:00	47	15	1,047	19	5	76	1,261	8		29	5	15		126	4	73	2,729	
12:00	52	23	1,279	18	3	95	1,393	6		25	3	22		179	7	113	3,218	
13:00	52	17	1,258	21	3	109	1,336	4		25	8	23		177	4	121	3,158	
14:00	58	20	1,238	30	3	89	1,198	5		18	7	23		254	4	129	3,076	
15:00	60	35	1,277	37	1	80	1,236	8		24	8	31		198	12	105	3,108	
15:15	11	6	335	12		28	426	2		4	2	7		39	2	26	899	
15:30	13	3	314	11		25	412	1		5		3		40	2	28	857	
15:45	8	7	370	15	1	37	527	2		3	3	9		36	1	19	1,038	
16:00	5	5	305	11		36	468	3		1	2	6		47	4	26	919	
16:15	5	2	345	6		41	469	1		5	2	7		75	5	23	986	
16:30	11	5	370	6	1	37	562	2		7	2	7		69	2	19	1,100	
16:45	13	6	351	13		29	551	2		9	2	11		61		18	1,066	
17:00	15	2	387	8	2	36	585	2		5	2	4		77		29	1,154	
17:15	14	3	399	16		40	543	3		5		4		82		24	1,133	
17:30	18	5	339	17	2	30	450			10	3	8		84		32	998	
17:45	16	7	391	17		30	440			2	1	7		75	1	28	1,015	
18:00	15	15	332	13		31	358			3	3	6		63	1	31	871	
19:00	50	17	1,339	40	1	108	1,235	9		21	4	14		269	6	106	3,219	
20:00	36	20	1,116	27	3	103	884	4		15	1	26		216	4	100	2,555	
21:00	37	8	797	12		59	835	1		13	3	12		191	8	59	2,034	
22:00	33	12	784	22	2	56	780	3		11	1	20		168		48	1,940	
15 hr.	629	267	19,335	411	44	1,329	19,584	78		262	69	276		2,843	73	1,346	46,545	
TOTAL	20,641				21,035				607				4,263					
12 hr.	523	227	16,638	349	39	1,112	17,085	70		223	64	218		2,268	61	1,140	40,016	
TOTAL	17,737				18,306				505				3,469					
24 hr. est.	696	302	22,129	465	51	1,479	22,723	93		297	85	290		3,016	81	1,516	53,221	
1.33	23,591				24,346				671				4,613					
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:																8:00 - 9:00	4,014
	21	15	1,789	19	5	60	1,571	2		7	1	5		117	3	59	3,674	
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:																11:30 - 12:30	3,498
	59	19	1,284	16	5	113	1,460	5		24	6	16		194	5	125	3,331	
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:																16:15 - 17:15	4,589
	53	16	1,507	43	3	142	2,241	9		26	6	26		289	2	90	4,453	
Off-Peak Hour	Highest Off-Peak Hour (between 18:00 and 22:00) is from:																18:00 - 19:00	3,278
	50	17	1,339	40	1	108	1,235	9		21	4	14		269	6	106	3,219	
Peak 15 Minute Time & PHF	7:30 - 7:45				8:00 - 8:15				8:30 - 8:45				7:00 - 7:15				A.M. Peak	
	0.60	0.94	0.79		0.77	0.92	0.50		0.58	0.25	0.63		0.86	0.38	0.92	PHF		
	12:30 - 12:45				11:45 - 12:00				12:45 - 13:00				13:15 - 13:30				Average	
	0.84	0.83	0.70		0.87	0.90	0.75		0.65	0.50	0.85		0.82	0.73	0.70	PHF		
	17:00 - 17:15				16:45 - 17:00				16:30 - 16:45				17:15 - 17:30				P.M. Peak	
0.78	0.95	0.93		0.93	0.96	0.75		0.73	0.75	0.70		0.95	0.60	0.90	PHF			
19:00 - 19:15				18:15 - 18:30				19:00 - 19:15				18:30 - 18:45				Average		
0.84	0.97	0.77		0.85	0.96	0.50		0.66	0.50	0.75		0.88	0.67	0.81	PHF			
Ratio: E/W to N/S = 0.12				Shift				AM				PM				EVE		
E/W = 10.5%				Weather:				Overcast				Cloudy				Overcast		
N/S = 89.5%				Temperature:				-11				-11				-7		
Counted/Compiled By:				Count Date:				January 26,2007				January 24,2007				January 25,2007		
Location:				Pembina Hwy. & Plaza Dr.				WA RB RA / RB										

VEHICLE COUNT

Time Start 7:00 Time Ending	NORTHBOUND ON				SOUTHBOUND ON				EASTBOUND ON				WESTBOUND ON				Previous Count Unknown
	Pembina Highway				Pembina Highway				Nassau Street North				Nassau Street North				TOTAL
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
7:15		2	369				249					7					627
7:30		3	478			1	260					8					750
7:45		10	634			5	342					5					996
8:00		10	667		1	2	318			1	2	10				1	1,012
8:15	1	5	635			2	300			1		8				1	953
8:30		10	710				272					12					1,004
8:45	3	10	514				275					8					810
9:00	1	13	518				259					12				2	805
10:00	9	30	1,749		2		965			2	1	42		1		2	2,803
11:00	2	20	1,651		4		1,022			2		36				2	2,739
12:00	13	22	1,753	2	3	5	1,119			3	2	31			1	1	2,955
13:00	10	30	1,761			7	1,188				1	40				1	3,038
14:00	8	50	1,715	4	5	14	1,093				2	52		5		2	2,950
15:00	12	39	1,675		4	9	1,236				3	41		5		5	3,029
15:15	2	12	462		1	2	321				2	13		1		1	817
15:30		15	503		1	2	333				4	16		1		1	876
15:45	5	25	415		2	2	431				2	13		3		1	899
16:00	2	7	547		1	2	384			1	1	11				1	957
16:15	3	12	441			1	450			1	1	22					931
16:30	1	7	432		1	5	480					13					939
16:45	2	18	493			3	487			1		21		2	1	1	1,029
17:00		8	527			3	476					24		2	1	3	1,044
17:15	1	15	546		1	2	424					31			1		1,021
17:30	2	11	452			2	450				2	15				1	935
17:45		20	447				394					6		2	1		870
18:00		12	471				308					9					800
19:00																	
20:00																	
21:00																	
22:00																	
11 hr.	77	416	20,565	6	26	69	13,836			12	23	506		22	5	26	35,589
TOTAL			21,064				13,931				541				53		
12 hr. est.	83	449	22,210	6	28	75	14,943			13	25	546		24	5	28	38,436
1.08			22,749				15,045				584				57		
24 hr. est.	111	598	29,540	9	37	99	19,874			17	33	727		32	7	37	51,120
1.33			30,256				20,010				777				76		
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:											7:30 - 8:30				3,965	
	1	35	2,646		1	9	1,232			2	2	35				2	3,964
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:											16:15 - 17:15				4,033	
	4	48	1,998		2	13	1,867			1		89		4	3	4	4,029
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:											12:00 - 13:00				3,038	
	10	30	1,761			7	1,188				1	40				1	3,028
Peak 15 Minute Hourly Rate	8:15 - 8:30				7:30 - 7:45				7:45 - 8:00				8:45 - 9:00				A.M. Peak Volume
		40	2,840			20	1,368			4	8	40				8	
	17:00 - 17:15				16:30 - 16:45				17:00 - 17:15				16:45 - 17:00				P.M. Peak Volume
	4	60	2,184			12	1,948					124		8	4	12	
Ratio: E/W to N/S =	0.0				Shift				AM				PM				
E/W =	1.7%				Weather:				Clear				Clear				
N/S =	98.3%				Temperature:				18 C				26 C				
Location:	Pembina Hwy. & Nassau St. North				Counted/Compiled By:				RB WA/RB				Count Date:				
									July 26,2002				July 25,2002				

Time Start 7:00	NORTHBOUND ON Pembina Hwy.				SOUTHBOUND ON Pembina Hwy.				EASTBOUND ON McGillivray Blvd.				WESTBOUND ON Oakenwald Ave.				Previous Count 1996
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	TOTAL
7:15		17	346	2			150	159		119	5	19		6	3	3	829
7:30		40	415	1			196	212		128	6	23		13	7		1,041
7:45	1	55	554	3			240	223		136	9	24		14	21	3	1,283
8:00	1	73	524	4			319	243		112	10	37		11	18	1	1,353
8:15		74	477	4			364	191		115	31	44		27	33	3	1,363
8:30		81	517	4			376	187		100	26	75		19	23	1	1,409
8:45	2	60	477	6			346	138		128	33	45		23	21	4	1,283
9:00	1	38	406	5			344	120		119	15	52		25	24	1	1,150
10:00	4	150	1,283	12			1,153	391	1	413	54	155		48	39	7	3,709
11:00	4	155	1,103	16			1,043	246	8	404	29	167		56	31	10	3,272
12:00																	
13:00																	
14:00																	
15:00	1	200	1,288	16			1,236	429	3	412	36	181		58	48	12	3,921
15:15		58	384	4			357	119	1	154	22	62		17	22	3	1,203
15:30		55	313	5			350	102	1	116	15	64		11	16	4	1,052
15:45		68	441	3			388	121		220	34	72		19	27	3	1,396
16:00	1	56	401	4			397	129		156	30	64		20	32	2	1,292
16:15	1	47	459	5			452	129		196	16	66		18	21	3	1,413
16:30		50	385	4			474	130		198	30	60		19	10	9	1,369
16:45		47	451	7			456	151		227	30	55		28	17	1	1,470
17:00	1	61	435	6			461	151		204	25	72		15	9	6	1,446
17:15		50	402	5			475	136		190	27	74		24	17	1	1,401
17:30		60	375	3		1	506	134	1	162	28	62		22	24	4	1,382
17:45		43	317	7			438	120	2	138	22	63		16	9	3	1,178
18:00	1	45	364	2		1	410	127	1	124	9	59		12	10	2	1,167
19:00																	
20:00																	
21:00																	
22:00																	
8 hr.	19	1,583	12,117	128		2	10,931	4,088	18	4,271	542	1,595		520	482	87	36,381
TOTAL		13,847					15,021			6,425				1,088			
12 hr est	27	2,296	17,570	186		3	15,850	5,927	25	6,192	786	2,313		754	698	125	52,753
1.45		20,079					21,780			9,316				1,578			
24 hr. est.	36	3,053	23,368	247		4	21,080	7,883	34	8,236	1,045	3,076		1,003	929	167	70,161
1.33		26,704					28,968			12,391				2,099			
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:												7:30 - 8:30			5,701	
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:												14:00 - 15:00			3,938	
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:												16:30 - 17:30			5,875	
Off-Peak Hour	Highest Off-Peak Hour (between 18:00 and 22:00) is from:																
Peak 15 Minute Time & PHF	7:30 - 7:45				8:15 - 8:30				8:30 - 8:45				8:00 - 8:15				A.M. Peak
	0.90	0.94	0.79		0.95	0.89		0.91	0.80	0.72		0.87	0.77	0.56	PHF		
	14:30 - 14:45				9:15 - 9:30				14:30 - 14:45				14:30 - 14:45				Average
	0.79	0.85	0.68		0.97	0.87		0.82	0.73	0.92		0.80	0.78	0.77	PHF		
	15:30 - 15:45				17:15 - 17:30				15:30 - 15:45				15:45 - 16:00				P.M. Peak
0.88	0.94	0.79		0.50	0.94	0.95		0.91	0.82	0.92		0.79	0.76	0.53	PHF		
																	Average PHF
Ratio: E/W to N/S = 0.26				Shift				AM				PM				EVE	
E/W = 20.7%				Weather:				Cloudy				Clear					
N/S = 79.3%				Temperature:				2				6					
Location:				Counted/Compiled By:				RB WA / RB									
Pembina Hwy. & McGillivray Blvd., Oakenwald Ave.				Count Date:				April 5,2006				April 4,2006					

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT				4 Hour Manual Vehicle Count Intersection Turning Movement								Traffic Studies Phone: 986-5034					
Time Start 7:00	NORTHBOUND ON				SOUTHBOUND ON				EASTBOUND ON				WESTBOUND ON				TOTAL
	Pembina Hwy.				Pembina Hwy.				Lilac ST.								
Time Ending	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	
7:15		8										11					19
7:30		13										11					24
7:45		13										14					27
8:00		14										12					26
8:15		29										25					54
8:30		22										28					50
8:45		18						1				16					35
9:00		13						1				19					33
9:15																	
9:30																	
9:45																	
10:00																	
10:15																	
10:30																	
10:45																	
11:00																	
11:15																	
11:30																	
11:45																	
12:00																	
12:15																	
12:30																	
12:45																	
13:00																	
13:15																	
13:30																	
13:45																	
14:00																	
14:15																	
14:30																	
14:45																	
15:00																	
15:15																	
15:30																	
15:45		4						1				18					23
16:00		10						3				16					29
16:15		16										25					41
16:30		10						4				24					38
16:45		12						4				25					41
17:00		15										18					33
17:15		15						3				24					42
17:30		14										21					35
17:45																	
18:00																	
18:15																	
18:30																	
18:45																	
19:00																	
19:15																	
19:30																	
19:45																	
20:00																	
20:15																	
20:30																	
20:45																	
21:00																	
21:15																	
21:30																	
21:45																	
22:00																	
AM Peak		130						2				136					268
TOTAL																	
PM Peak		96						15				171					282
TOTAL																	
4 hr.		226						17				307					550
TOTAL		226						17				307					550
AM Peak	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:															8:00 - 9:00	173
Hour		82						2				88					172
Off-Peak	Highest Off-Peak Hour (between 9:00 and 15:00) is from:																
Hour																	
PM Peak	PM Peak Hour (between 15:30 and 17:30), based on total volume, is from:															16:15 - 17:15	159
Hour		52						11				91					154
Off-Peak	Highest Off-Peak Hour (between 18:00 and 22:00) is from:																
Hour																	
Peak 15 Minute Time & PHF	8:00 - 8:15				8:30 - 8:45				8:15 - 8:30				7:00 - 7:15				A.M. Peak PHF
		0.72					0.50					0.79					
	16:00 - 16:15				16:15 - 16:30				16:00 - 16:15				15:30 - 15:45				P.M. Peak PHF
		0.88	#DIV/0!				0.69					0.92					
Ratio: E/W to N/S =		1.26		Shift				AM				PM				EVE	
E/W =		55.8%		Weather:				Partly Cloudy				Partly Cloudy					
N/S =		44.2%		Temperature:				6				11					
Location:		Pembina Hwy. & Lilac St.		(No Thru Traffic)				Counted/Compiled By:				AG RC / RB				Count Date:	
								Oct. 17,2003				Oct. 16,2003					

Time Start 7:00	NORTHBOUND ON				SOUTHBOUND ON				EASTBOUND ON				WESTBOUND ON				Previous Count
	Pembina Hwy.				Pembina Hwy.								Jubilee Ave.				1996
Time Ending	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	TOTAL
7:15			459	37		39	263							60		177	1,035
7:30			578	36		42	273							85		212	1,226
7:45			545	38		63	351							78		258	1,333
8:00			584	36		67	428							110		256	1,481
8:15			572	27		57	447							82		249	1,434
8:30			625	26		89	430							63		251	1,484
8:45			545	42		56	403							47		256	1,349
9:00			461	46		83	374							57		230	1,251
10:00			1,760	132		235	1,318						1	181		700	4,325
11:00			1,308	119		191	1,210						1	97		419	3,345
12:00																	
13:00																	
14:00																	
15:00			1,551	235		395	1,444						2	80		421	4,127
15:15			467	82		151	511						1	50		144	1,406
15:30			442	64		151	484						1	38		135	1,315
15:45			461	77		121	487							60		126	1,332
16:00			436	97		133	525							41		143	1,375
16:15			529	89		200	546							62		173	1,599
16:30			476	95		221	605							39		134	1,570
16:45			484	104		195	619							40		142	1,584
17:00			496	114		203	627							48		165	1,653
17:15			524	118		219	585							44		177	1,667
17:30			506	106		205	525							40		163	1,545
17:45			513	72		186	600							35		165	1,571
18:00			427	66		161	573							48		131	1,406
19:00																	
20:00																	
21:00																	
22:00																	
8 hr.			14,748	1,857		3,463	13,627						6	1,485		5,227	40,413
TOTAL			16,605			17,090								6,718			
12 hr est			21,385	2,693		5,022	19,759						9	2,153		7,579	58,599
1.45			24,077			24,781								9,741			
24 hr. est.			28,442	3,581		6,679	26,280						12	2,863		10,080	77,937
1.33			32,023			32,958								12,955			
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:															7:45 - 8:45	5,835
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:															9:00 - 10:00	4,714
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:															16:15 - 17:15	6,627
Off-Peak Hour	Highest Off-Peak Hour (between 18:00 and 22:00) is from:																
Peak 15 Minute Time & PHF	8:15 - 8:30			8:15 - 8:30			7:00 - 7:15			7:45 - 8:00			A.M. Peak				
	0.93	0.80		0.80	0.96				0.81	0.98	PHF						
	9:15 - 9:30			14:30 - 14:45			9:00 - 9:15			9:15 - 9:30			Average				
	0.83	0.90		0.87	0.92				0.66	0.74	PHF						
	17:00 - 17:15			16:45 - 17:00			15:00 - 15:15			16:00 - 16:15			P.M. Peak				
0.96	0.94		0.95	0.97				0.81	0.95	PHF							
												Average					
												PHF					

Ratio: E/W to N/S = 0.20
 E/W = 16.6%
 N/S = 83.4%

Shift: AM
 Weather: Clear
 Temperature: -22

Counted/Compiled By: TWP WA / RB
 Count Date: January 14,2004

PM
 Cloudy
 -17

EVE

Location: Pembina Hwy. & Jubilee Ave.
 January 13,2004

Time	NORTHBOUND ON				SOUTHBOUND ON				EASTBOUND ON				WESTBOUND ON				Previous Count
	Pembina Hwy.				Pembina Hwy.				Grant Ave.				Approach				1999
Start 7:00	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	TOTAL
7:15		4	357				223	35		110			2		2		733
7:30		3	456				287	24		143							913
7:45		13	444				333	46		156			2				994
8:00	1	11	477				351	54		159	1	6					1,060
8:15		7	463				337	55		158	4	1		3			1,028
8:30		21	425	1			311	57		137		6		1			959
8:45		14	379	4			311	54		135	1	4		7		1	910
9:00		15	392	6			271	59		136	1	9					889
10:00		44	1,461	13			967	250	1	402	3	35		6			3,182
11:00	1	42	1,075	2			953	221		308	2	41		14	1	2	2,662
12:00																	
13:00																	
14:00																	
15:00		49	1,161	4			1,157	318		359	4	54		8		6	3,120
15:15		15	335	2			378	101		106	1	17		2		1	958
15:30		17	308				357	105		116	1	15		2			921
15:45		16	324	5			401	107		108	2	15		1		1	980
16:00		13	378	2			452	114		118		18		4			1,099
16:15		14	370				431	110		118		16		4			1,063
16:30		30	410				529	91		146		12		3			1,221
16:45		14	414				465	95		105		6		1			1,100
17:00		23	364				446	107		119		11		1			1,071
17:15		28	391				462	98		122		7		5			1,113
17:30		10	362				450	104		113		5		1			1,045
17:45		18	359				448	116		120		11		1			1,073
18:00		10	327				477	87		93		7		1			1,002
19:00																	
20:00																	
21:00																	
22:00																	
8 hr.	2	431	11,432	39			10,797	2,408	1	3,587	20	300		67	1	11	29,096
TOTAL		11,904					13,205			3,908				79			
12 hr. est	3	625	16,576	57			15,656	3,492	1	5,201	29	435		97	1	16	
1.45		17,261					19,148			5,666				114			
24 hr. Est	4	831	22,046	76			20,822	4,644	1	6,917	39	579		129	1	21	56,110
1.33		22,957					25,466			7,536				151			
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:																4,119
	1	52	1,809	1			1,332	212		610	5	15		4			4,041
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:																3,480
		49	1,161	4			1,157	318		359	4	54		8		6	3,120
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:																4,596
		95	1,579				1,902	391		492		36		10			4,505
Peak 15 Minute Time & PHF	7:45 - 8:00				7:45 - 8:00				7:45 - 8:00				8:30 - 8:45				A.M. Peak
	0.68	0.96	0.46		0.95	0.95		0.97	0.38	0.56		0.39		0.25			PHF
	9:15 - 9:30				14:45 - 15:00				9:15 - 9:30				10:15 - 10:30				Average
	0.88	0.95	0.81		0.95	0.94		0.86	0.50	0.75		0.70	0.25	0.75			PHF
	16:15 - 16:30				16:15 - 16:30				16:15 - 16:30				17:00 - 17:15				P.M. Peak
	0.79	0.95	0.45		0.90	0.94		0.84	0.50	0.90		0.60		0.50			PHF
Ratio: E/W to N/S =	0.16				Shift				AM				PM				EVE
E/W =	13.7%				Weather:				Light Snow				Overcast				
N/S =	86.3%				Temperature:				-12				-18				
Location:	Pembina Hwy. & Grant Ave.				Counted/Compiled By:				WA RB / RB				November 28,2007 / November 27,2007				
Count Date:																	

**THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT**

**11 Hour Manual Vehicle Count
Intersection Turning Movement**

**Traffic Studies
Phone: 986-5034**

Time Start	NORTHBOUND ON Pembina Hwy. to Garwood Ave.				NORTHBOUND ON Pembina Hwy. to Daly St.				SOUTHBOUND ON Pembina Hwy. to Garwood Ave.				SOUTHBOUND ON Pembina Hwy. to Daly St.				Previous Count 1994
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	TOTAL
7:00																	
7:15		1		3	4	6		1		3							
7:30		1		15	1	11		1		4		1		3			
7:45				6		14		1		5			1	1			
8:00				8	1	23		1	4			1		2			
8:15				5	2	46		2	1	1						1	
8:30				9	1	40		2	2	3		1					
8:45	1	2		9	3	33		2		2							
9:00		3		10	3	26			2			1	2				
10:00	1	2		27	15	50		5	12	9		5	1				1
11:00	2	2		28	20	48		8	12	4		12	2				
12:00		10		17	30	62		10	17	10		14		3			4
13:00		9		25	30	74		5	23	7		11	2	2			3
14:00	1	7		25	29	49		7	27	8		11		7			4
15:00		4		28	28	60		5	5	7		5	1	5			3
15:15		1		6	7	14		2	4	1		1	1	1			
15:30				5	7	12		2	7	1			1				
15:45				6	2	11			3	3		2	1				
16:00	1	1		3	2	17				3		2		1			
16:15				3	5	17		2	4	1		1					3
16:30		1		5	5	21		1	2	1		1		1			2
16:45				2	2	20		1	8	1		3					1
17:00				1	5	33			4			2		1			1
17:15		3		1	6	22			2			3					
17:30	1	3		1	4	18			3	2		2		1			
17:45	1			1	3	15			4	2		5					
18:00				1	1	15				5		1					
19:00																	
20:00																	
21:00																	
22:00																	
11 hr. TOTAL	8	50		250	216	757		58	146	83		85	12	28		23	
12 hr. est. 1.08	9	54		270	233	818		63	158	90		92	13	30		25	
24 hr. est. 1.33	11	72		359	310	1,087		83	210	119		122	17	40		33	
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from: 7:00 - 8:00																
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from: 15:00 - 16:00																
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from: 9:00 - 10:00																
Peak 15 Minute Time & PHF	7:15 - 7:30				8:00 - 8:15				8:15 - 8:30				7:15 - 7:30				A.M. Peak PHF
	0.50		0.53		0.63		1.00		0.80		0.50		0.58				P.M. Peak PHF
	15:00 - 15:15				16:45 - 17:00				16:30 - 16:45				16:00 - 16:15				
	0.38		0.83		0.86		0.50		0.69		0.63		0.63				

Ratio: E/W to N/S =
E/W =
N/S =

Shift: AM PM
Weather: Cloudy Clear
Temperature: 2 3
Counted/Compiled By: WA TWP / RB
Count Date: April 30,2004 April 29,2004

Location: Pembina Hwy. & Daly St., Garwood Ave.

Time Start 7:30	NORTHBOUND ON				SOUTHBOUND ON				EASTBOUND ON				WESTBOUND ON				TOTAL			
	Pembina Hwy.				Pembina Hwy.								Dowker Ave.							
Time Ending	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right				
7:15																				
7:30																				
7:45				12		6								3		10				
8:00				21		11								4		11				
8:15				44		13								10		12				
8:30				75		11								8		17				
8:45				28		7								7		12				
9:00				8		5								5		4				
10:00																				
11:00																				
12:00																				
13:00																				
14:00																				
15:00																				
15:15																				
15:30																				
15:45																				
16:00																				
16:15				8		17								9		15				
16:30				2		8								15		10				
16:45				11		4								6		7				
17:00				4		12								10		9				
17:15				8		12								9		9				
17:30				7		11								7		8				
17:45																				
18:00																				
19:00																				
20:00																				
21:00																				
22:00																				
4 hr.				228				117								93			124	562
TOTAL	228				117								217							
AM Peak	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:																7:45 - 8:45	291		
Hour				168				42								29			52	291
PM Peak	PM Peak Hour (between 15:30 and 17:30), based on total volume, is from:																16:00 - 17:00	147		
Hour				25				41								40			41	147
Peak 15	8:15 - 8:30				8:00 - 8:15				7:00 - 7:15				8:15 - 8:30				A.M. Peak			
Minute				0.56				0.81								0.73			0.76	PHF
Time & PHF	16:30 - 16:45				16:00 - 16:15				15:30 - 15:45				16:15 - 16:30				P.M. Peak			
				0.57				0.60								0.67			0.68	PHF

Ratio: E/W to N/S =
E/W =
N/S =

Shift: AM PM
Weather: Clear Cloudy
Temperature: -21 -15
Counted/Compiled By: WA / RB
Count Date: January 9,2007 January 8,2007

Location:
Pembina Hwy. & Dowker Ave.

Time Start 7:00 Time Ending	NORTHBOUND ON Pembina Hwy.				SOUTHBOUND ON Pembina Hwy.				EASTBOUND ON Corydon Ave.				WESTBOUND ON Bus Loop				Previous Count 1997
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	TOTAL
7:15				413			303	26			58	14			6		820
7:30				537			382	36			69	6			11	2	1,043
7:45				641			449	63			79	11			12	1	1,256
8:00				709			491	57			104	3			11	1	1,376
8:15				640			497	53			101	6			6	1	1,304
8:30				622			450	59			107	2			9	2	1,251
8:45				560			404	62			123	7			5	2	1,163
9:00				561			373	71			102	10			11	1	1,129
10:00				1,762			1,406	194			312	32			30	4	3,740
11:00				1,279			1,137	228			224	55			21	5	2,949
12:00																	
13:00																	
14:00																	
15:00				1,435			1,458	265			249	87			15	13	3,521
15:15				441			480	73			58	24			5	2	1,083
15:30				415			500	69			59	22			5	3	1,073
15:45				428			536	86			58	23			6	1	1,138
16:00				507			504	67			58	25			6	1	1,168
16:15				459			504	80			88	18			7		1,156
16:30				546			550	62			88	26			7		1,279
16:45				513			649	63			75	18			9	3	1,330
17:00				478			629	84			76	25			7	1	1,300
17:15				495			594	76			83	35			8	2	1,293
17:30				439			545	84			71	22			11	4	1,176
17:45				441			574	84			81	24			8	3	1,215
18:00				409			513	80			55	20			5	2	1,084
19:00																	
20:00																	
21:00																	
22:00																	
8 hr.				14,729			13,928	2,021			2,378	515			222	54	33,847
TOTAL				14,729			15,949				2,893				276		
12 hr est				21,357			20,195	2,931			3,448	747			321	79	49,077
1.45				21,357			23,126				4,195				400		
24 hr. est.				28,405			26,859	3,898			4,586	993			427	105	65,273
1.33				28,405			30,757				5,579				532		
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:															7:30 - 8:30	5,259
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:															9:00 - 10:00	3,926
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:															16:15 - 17:15	5,261
Off-Peak Hour	Highest Off-Peak Hour (between 18:00 and 22:00) is from:																
Peak 15 Minute Time & PHF	7:45 - 8:00				8:00 - 8:15				8:30 - 8:45				7:15 - 7:30				A.M. Peak
	0.92				0.95 0.86				0.88 0.61				0.83 0.75				PHF
	9:00 - 9:15				14:45 - 15:00				9:00 - 9:15				9:00 - 9:15				Average
	0.79				0.93 0.95				0.79 0.80				0.63 0.83				PHF
	16:15 - 16:30				16:45 - 17:00				17:00 - 17:15				17:15 - 17:30				P.M. Peak
0.93				0.93 0.95				0.93 0.76				0.80 0.69				PHF	
																Average	
																PHF	

Ratio: E/W to N/S = 0.10
E/W = 9.4%
N/S = 90.6%

Shift AM PM
Weather: Clear Clear
Temperature: -31 -25
Counted/Compiled By: RA RB AG WA / RB

EVE

Location: Pembina Hwy. & Corydon Ave. Count Date: January 16,2007 January 15,2007

THE CITY OF WINNIPEG

STREETS AND TRANSPORTATION DEPARTMENT

U-TURN VEHICLE COUNT

DIRECTIONAL RECORD ANALYSIS

12 HOUR PERIOD

Time	Northbound on			Southbound on			Eastbound on			Westbound on			TOTAL			
	PEMBINA			PEMBINA			CLARENCE			94						
07:00	u	left	thru	right	u	left	thru	right	u	left	thru	right	u	left	thru	right
07:15		20	411				115	49		17		14				
07:30		24	563				144	45		16		5				
07:45		29	785				202	17		14		8				1,055
08:00		35	795				275	12		13		13				1,143
08:15		23	808				368	12		26		15				1,252
08:30		20	733				397	9		11		11				1,181
08:45		21	656				380	6		16		7				1,086
09:00	1	24	520				435	12		24		13				1,029
10:00	2	41	1,621	3			1,644	45		45		44				3,445
11:00	5	56	1,853	4			1,343	51		69		50				3,431
12:00																
13:00																
14:00																
15:00	4	119	1,823	5			1,420	57		91		73				3,592
15:15	1	26	478	1			369	17		21		16				929
15:30		23	503	1			383	20		20		14				964

15:45	2	28	558			477	25	40		43						1,173
16:00		22	619			480	17	30		11						1,179
16:15	2	19	585			530	18	87		35						1,276
16:30		18	667	1		544	17	41		26						1,314
16:45	1	15	609			619	19	43		54						1,360
17:00		13	580			651	16	21		43						1,324
17:15		15	555			630	14	25		51						1,290
17:30		19	555	1		674	8	15		25						1,297
17:45		13	544	2		528	12	26		21						1,146
18:00		19	446			499	13	18		25						1,020
19:00																
8hr		642						511		729		617				
Total	18		17267	18			13107									32,909
adj.		25,994					19,772			1,952						
12hr		931						741		1057		895				
Total	26		25037	26			19005									47,718

peak		99	2,992			1,420	39	66		46						0745-0845
hour	1	61	2,411	1		2,444	66	130		174						1615-1715
avg.	2	77	1,963	2		1,514	63	86		67						off peak
peak		08:00-08:15				08:45-09:00			08:00-08:15							AM time
15		92	3,232			1,740	48	104		60						volume
min.																
hrly		16:15-16:30				16:45-17:00			16:00-16:15							PM time
rate		72	2,668			2,604	64	348		140						volume

Ratio of E/W to N/S = 0.0 Weather CLEAR/LIGHT SNOW Temperature -3/-6
 E/W = 4.1 % Counted by RPB ACG Date 1998/03/05-06
 N/S = 95.9 % Compiled by ZJK Date 1998/03/06

-----Location-----day-----month-----year-----

CLARENCE & PEMBINA

06 - AM MARCH 1998
 05 - PM MARCH 1998

Time	Northbound on			Southbound on			Eastbound on			Westbound on			TOTAL			
	PEMBINA			PEMBINA			CHEVRIER			CRESCENT						
07:00													93			
	u	left	thru	right	u	left	thru	right	u	left	thru	right				
07:15		31	300	1			146	29		8	1	8	1	1	1	527
07:30	1	44	386	2			129	14		6	1	5	2			590
07:45	1	59	560	7			171	30		6	1	7	8	4	5	859
08:00		76	566	1	1		277	29		15	1	15	8	2	1	992
08:15		41	530				366	14		18		13	4		1	987
08:30		39	421	10		3	382	18		18	2	18	8	1	2	922
08:45		19	406	16		2	358	14		24	3	14	16			872
09:00		30	301	11			307	15		19	3	32	8	2	2	730
10:00		44	1,076	10		2	1,393	56		58	4	70	40	4	4	2,761
11:00	1	55	960	10	4	3	1,240	52		54	7	52	31	9	7	2,485
12:00																
13:00																
14:00																
15:00		81	1,313	15	4	5	1,421	51		71	7	84	13	12	11	3,088
15:15		21	314	4	1	1	358	15		17	2	36	8	4	2	783
15:30		22	300	4			360	17		16	3	51	12	4	1	790

15:45	2	21	373	5			439	15		44	1	61	13	4	2	980
16:00		19	295	5		1	548	17		50	5	38	7	1	1	987
16:15		15	411	2		2	503	10		32	5	65	14	2	1	1,062
16:30		13	364	8		1	579	12		17	1	42	6	1	1	1,045
16:45		15	331	15		2	596	15		44	3	70	8	1	1	1,101
17:00		12	310	12		1	662	8		26	3	52	6	1	2	1,095
17:15		18	350	9		1	610	6		32	2	63	8	3		1,102
17:30		14	307	7		2	635	3		17	4	30	10	4	1	1,034
17:45		8	338	8		1	571	5		13	4	34	25	1		1,008
18:00		9	281	5			552	4		13	1	23	5			893
19:00																

8hr		706		167		28		449		618		883		261		46
Total	5		10793		9		12603			64				61		26,693
adj.		16,923				18,979				2,269				533		
12hr		1024		242		41		651		896		1,280		378		67
Total	7		15650		13		18274			93				88		38,704

peak		175	1,923	27		6	1,383	75		75	6	60		36	3	4	0745-0845
hour		58	1,355	44		5	2,447	41		119	9	227		28	6	4	1615-1715
avg.		79	1,237	17	1	3	1,444	53		70	7	99		31	7	5	off peak
peak		07:45-08:00				08:15-08:30				08:45-09:00				07:30-07:45			AM time
15		304	2,264	4		12	1,528	72		76	12	128		32	16	20	volume
min.																	
hrly		16:00-16:15				16:45-17:00				16:30-16:45				1730-17:45			PM time
rate		60	1,644	8		4	2,648	32		176	12	280		100	4		volume

Ratio of E/W to N/S = 0.1 Weather PTLY CLOUDY/OVERCAST Temperature -10 C/-12 C
 E/W = 7.2 % Counted by RB WA Date 1999/01/26-27
 N/S = 92.8 % Compiled by RB Date 1999/02/01

-----Location-----day-----month-----year-----

Time Start 7:00 Time Ending	NORTHBOUND ON				SOUTHBOUND ON				EASTBOUND ON				WESTBOUND ON				Previous Count	
	Osborne St.				Osborne St.				McMillan Ave.				McMillan Ave.				1997	
	U-Turn	Left	Thru	Right	Right to McMillan	Left	Thru	Right to Pembina	U-Turn	Left	Thru	Right	Thru to McMillan	Left	Thru to Pembina	Right	TOTAL	
7:15			354				89	61					2	42	268	10	826	
7:30			493				81	90					1	41	328	22	1,056	
7:45			492				94	90					1	39	422	7	1,145	
8:00		1	499				103	106						74	441	4	1,228	
8:15			456				110	107						45	443	5	1,166	
8:30			437				102	105				2	1	34	402	3	1,086	
8:45			439				137	99					2	40	367	4	1,088	
9:00			460		1		131	100				2	4	49	342	5	1,094	
10:00		2	1,269				357	340				4	3	176	1,255	18	3,424	
11:00			914		1		360	336				7	1	151	1,022	29	2,821	
12:00																		
13:00																		
14:00																		
15:00			1,011				567	421				2	4	237	1,300	36	3,576	
15:15			284				194	119				1		73	433	4	1,107	
15:30			290				196	129				1		76	439	2	1,133	
15:45			286				190	128				1		66	493	3	1,167	
16:00			278				245	107						90	464	4	1,188	
16:15			252				246	122				1	2	93	461	4	1,181	
16:30			267				272	103						114	509	5	1,270	
16:45			258				235	101				4	3	105	607	2	1,315	
17:00			272				252	103				1		100	609	2	1,339	
17:15			263				263	92				3		91	575	4	1,291	
17:30			221				243	85					1	108	544	5	1,207	
17:45			286				215	112				1		92	545	6	1,257	
18:00			233				185	109						88	484	1	1,100	
19:00																		
20:00																		
21:00																		
22:00																		
8 hr.		3	10,015		2		4,867	3,165				30	25	2,024	12,752	185	33,065	
TOTAL			10,017				8,033					30			14,985			
12 hr est		4	14,521		4		7,056	4,589				43	36	2,934	18,490	268	47,945	
1.45			14,525				11,649					43			21,729			
24 hr. est.		5	19,313		5		9,385	6,103				57	48	3,903	24,592	356	63,767	
1.33			19,318				15,493					57			28,899			
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:																7:30 - 8:30	4,795
Hour		1	1,884				409	408				2	2	192	1,708	19	4,625	
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:																14:00 - 15:00	3,842
Hour			1,011				567	421				2	4	237	1,300	36	3,576	
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:																16:15 - 17:15	5,423
Hour			1,060				1,022	399				8	3	410	2,300	13	5,215	
Off-Peak Hour	Highest Off-Peak Hour (between 18:00 and 22:00) is from:																	
Peak 15 Minute Time & PHF	7:45 - 8:00				8:30 - 8:45				8:15 - 8:30				7:45 - 8:00				A.M. Peak	
		0.25	0.97			0.25	0.88	0.97				0.50		0.68	0.96	0.49	PHF	
	9:15 - 9:30				14:45 - 15:00				10:00 - 10:15				14:45 - 15:00				Average	
		0.38	0.84			0.31	0.93	0.94				0.88		0.91	0.93	0.81	PHF	
	15:15 - 15:30				16:15 - 16:30				16:30 - 16:45				16:30 - 16:45				P.M. Peak	
			0.98				0.94	0.94				0.50		0.91	0.96	0.71	PHF	
																	Average PHF	
Ratio: E/W to N/S =			0.83	Shift			AM	PM			EVE							
E/W =			45.4%	Weather:			Clear	Clear										
N/S =			54.6%	Temperature:			-31	-25										
Counted/Compiled By:			WA AG / RB															
Location:			Count Date:			January 16,2007			January 15,2007									
Osborne St. & McMillan Ave.																		

Time Start 7:00 Time Ending	NORTHBOUND ON Pembina Hwy.				SOUTHBOUND ON Pembina Hwy.				EASTBOUND ON Stafford St.				WESTBOUND ON				Previous Count 1997
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	TOTAL
7:15		265	284				192	1				75					817
7:30		292	429				208	1				112					1,042
7:45		328	464				256	1				116					1,165
8:00		332	442				362	2				145					1,283
8:15		316	452				305	1				162					1,236
8:30		299	426				326	1				170					1,222
8:45		343	405				293					150					1,191
9:00		309	401				239	2				154					1,105
10:00		650	1,195				979	9				454					3,287
11:00		438	863				893	9				415					2,618
12:00																	
13:00																	
14:00																	
15:00		574	1,033				1,116	10				532					3,265
15:15		226	311				362	2				220					1,120
15:30		177	242				364	1				186					970
15:45		261	320				349	2				263					1,195
16:00		302	384				409	3				287					1,385
16:15		244	313				440	3				341					1,341
16:30		295	331				437	4				329					1,396
16:45		265	351				546	3				412					1,577
17:00		308	401				517	1				434					1,661
17:15		226	252				462	2				407					1,349
17:30		293	365				495	4				357					1,514
17:45		245	329				401	2				266					1,243
18:00		182	269				361	1				186					999
19:00																	
20:00																	
21:00																	
22:00																	
8 hr.		7,170	10,262				10,311	65				6,173					33,981
TOTAL		17,432					10,376				6,173						
12 hr est		10,396	14,880				14,951	94				8,951					49,272
1.45		25,276					15,045				8,951						
24 hr. est.		13,827	19,790				19,885	125				11,905					65,531
1.33		33,617					20,010				11,905						
AM Peak Hour	AM Peak Hour (between 7:00 and 9:00), based on total volume, is from:															7:45 - 8:45	5,004
Off-Peak Hour	Highest Off-Peak Hour (between 9:00 and 15:00) is from:															9:00 - 10:00	3,504
PM Peak Hour	PM Peak Hour (between 15:00 and 18:00), based on total volume, is from:															16:30 - 17:30	6,151
Off-Peak Hour	Highest Off-Peak Hour (between 18:00 and 22:00) is from:																6,101
Peak 15 Minute Time & PHF	7:30 - 7:45		7:45 - 8:00		8:15 - 8:30		7:00 - 7:15		A.M. Peak								
	0.94	0.96	0.89	0.63	0.94	PHF											
	9:15 - 9:30		14:30 - 14:45		14:30 - 14:45		9:00 - 9:15		Average								
	0.69	0.86	0.86	0.72	0.92	PHF											
	16:45 - 17:00		16:30 - 16:45		16:45 - 17:00		15:00 - 15:15		P.M. Peak								
0.90	0.87	0.92	0.81	0.93	PHF												
								Average									
								PHF									

Ratio: E/W to N/S = 0.22
 E/W = 18.2%
 N/S = 81.8%

Shift: AM
 Weather: Clear
 Temperature: -23
 Counted/Compiled By: RB WA / RB
 Count Date: March 11,2004

PM
 Overcast
 -8 / -3
 March 10-23,2004

EVE

Location: Pembina Hwy. & Stafford St.



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 9546

Count Start: Tue, Nov 06, 2007 10:15 AM

Count End: Tue, Nov 13, 2007 11:45 AM

Location:

Pembina Hw btw Harrow St E and Ramp Jubilee WB to Pembina NB

Observations:

Penbina Hwy UnderPass

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	865	7:45 AM to 8:00 AM
1 Hour	3,386	7:30 AM to 8:30 AM
Total	6,307	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	723	3:45 PM to 4:00 PM
1 Hour	2,754	3:30 PM to 4:30 PM
Total	5,318	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	601	5:30 PM to 5:45 PM
1 Hour	2,000	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	19,870	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	28,079	7:00 AM to 7:00 PM
24 Hour:	36,006	

Average Daily Totals (Including Weekends)

8 Hour:	17,336	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	25,247	7:00 AM to 7:00 PM
24 Hour:	32,937	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	N/A
1 Hour	N/A
Total	N/A

PM Peak (3:30 PM - 5:30 PM)

15 Minute	N/A
1 Hour	N/A
Total	N/A

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	N/A
1 Hour	N/A

Average Weekday Totals

8 Hour:	N/A
12 Hour:	N/A
24 Hour:	N/A

Average Daily Totals (Including Weekends)

8 Hour:	N/A
12 Hour:	N/A
24 Hour:	N/A



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 665

Count Start: Thu, May 18, 2000 11:15 AM

Count End: Tue, May 23, 2000 02:00 PM

Location:

Pembina Hw btw Waterford Av and Southwood Av

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	682	7:30 AM to 7:45 AM
1 Hour	2,480	7:30 AM to 8:30 AM
Total	4,488	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	660	3:30 PM to 3:45 PM
1 Hour	2,387	3:30 PM to 4:30 PM
Total	4,473	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	524	3:00 PM to 3:15 PM
1 Hour	1,729	7:00 PM to 8:00 PM

Average Weekday Totals

8 Hour:	15,946	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	23,081	7:00 AM to 7:00 PM
24 Hour:	31,290	

Average Daily Totals (Including Weekends)

8 Hour:	13,576	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	20,049	7:00 AM to 7:00 PM
24 Hour:	27,815	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	476	7:45 AM to 8:00 AM
1 Hour	1,852	7:30 AM to 8:30 AM
Total	3,306	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	688	4:15 PM to 4:30 PM
1 Hour	2,607	4:00 PM to 5:00 PM
Total	4,938	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	614	5:30 PM to 5:45 PM
1 Hour	1,695	5:45 PM to 6:45 PM

Average Weekday Totals

8 Hour:	14,992	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	21,802	7:00 AM to 7:00 PM
24 Hour:	29,484	

Average Daily Totals (Including Weekends)

8 Hour:	13,576	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	18,923	7:00 AM to 7:00 PM
24 Hour:	26,103	

Combined Average Weekday Totals

8 Hour:	30,938	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	44,883	7:00 AM to 7:00 PM
24 Hour:	60,774	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 2149

Count Start: Thu, Nov 01, 2001 12:45 PM

Count End: Thu, Nov 08, 2001 10:44 AM

Location:

Pembina Hw btw Warsaw Av and Nassau St N

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	649	7:45 AM to 8:00 AM
1 Hour	2,533	7:30 AM to 8:30 AM
Total	4,563	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	451	3:45 PM to 4:00 PM
1 Hour	1,704	3:45 PM to 4:45 PM
Total	3,374	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	434	9:00 AM to 9:15 AM
1 Hour	1,464	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	13,813	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	19,589	7:00 AM to 7:00 PM
24 Hour:	24,957	

Average Daily Totals (Including Weekends)

8 Hour:	12,093	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	17,593	7:00 AM to 7:00 PM
24 Hour:	22,895	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	383	7:45 AM to 8:00 AM
1 Hour	1,375	7:30 AM to 8:30 AM
Total	2,500	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	517	5:15 PM to 5:30 PM
1 Hour	2,023	4:30 PM to 5:30 PM
Total	3,892	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	505	5:30 PM to 5:45 PM
1 Hour	1,386	3:15 PM to 4:15 PM

Average Weekday Totals

8 Hour:	11,791	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	17,083	7:00 AM to 7:00 PM
24 Hour:	22,601	

Average Daily Totals (Including Weekends)

8 Hour:	12,093	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	15,409	7:00 AM to 7:00 PM
24 Hour:	20,838	

Combined Average Weekday Totals

8 Hour:	25,604	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	36,672	7:00 AM to 7:00 PM
24 Hour:	47,558	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 6674

Count Start: Mon, Nov 03, 2003 11:15 AM

Count End: Fri, Nov 07, 2003 10:15 AM

Location:

Pembina Hwy btw Waller Ave and Radisson Ave

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	544	7:30 AM to 7:45 AM
1 Hour	1,974	7:15 AM to 8:15 AM
Total	3,596	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	465	4:00 PM to 4:15 PM
1 Hour	1,794	4:00 PM to 5:00 PM
Total	3,510	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	422	11:30 AM to 11:45 AM
1 Hour	1,422	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	12,748	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	18,688	7:00 AM to 7:00 PM
24 Hour:	24,396	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	408	8:15 AM to 8:30 AM
1 Hour	1,553	8:00 AM to 9:00 AM
Total	2,562	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	548	5:00 PM to 5:15 PM
1 Hour	2,138	4:15 PM to 5:15 PM
Total	4,124	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	499	5:30 PM to 5:45 PM
1 Hour	1,310	11:15 AM to 12:15 PM

Average Weekday Totals

8 Hour:	12,416	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	18,244	7:00 AM to 7:00 PM
24 Hour:	23,796	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Combined Average Weekday Totals

8 Hour:	25,164	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	36,932	7:00 AM to 7:00 PM
24 Hour:	48,192	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 7865

Count Start: Mon, Oct 04, 2004 11:15 AM

Count End: Thu, Oct 07, 2004 09:45 AM

Location:

Pembina Hw btw Plaza Dr and Ramp Bishop Grandin WB to Pembina

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	706	7:30 AM to 7:45 AM
1 Hour	2,710	7:15 AM to 8:15 AM
Total	4,730	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	494	3:45 PM to 4:00 PM
1 Hour	1,818	3:45 PM to 4:45 PM
Total	3,596	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	473	2:15 PM to 2:30 PM
1 Hour	1,572	2:00 PM to 3:00 PM

Average Weekday Totals

8 Hour:	14,567	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	21,054	7:00 AM to 7:00 PM
24 Hour:	27,721	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	434	7:45 AM to 8:00 AM
1 Hour	1,546	7:45 AM to 8:45 AM
Total	2,602	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	554	4:45 PM to 5:00 PM
1 Hour	2,151	4:15 PM to 5:15 PM
Total	4,140	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	459	5:30 PM to 5:45 PM
1 Hour	1,450	2:30 PM to 3:30 PM

Average Weekday Totals

8 Hour:	12,514	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	18,320	7:00 AM to 7:00 PM
24 Hour:	24,299	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Combined Average Weekday Totals

8 Hour:	27,081	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	39,374	7:00 AM to 7:00 PM
24 Hour:	52,020	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 7547

Count Start: Wed, Jun 16, 2004 10:00 AM

Count End: Mon, Jun 21, 2004 11:00 AM

Location:

Pembina Hw btw Nassau St N and Mulvey Av

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	570	7:15 AM to 7:30 AM
1 Hour	2,145	7:15 AM to 8:15 AM
Total	3,948	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	392	4:15 PM to 4:30 PM
1 Hour	1,512	4:15 PM to 5:15 PM
Total	2,857	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	408	2:15 PM to 2:30 PM
1 Hour	1,382	8:00 PM to 9:00 PM

Average Weekday Totals

8 Hour:	12,681	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	18,369	7:00 AM to 7:00 PM
24 Hour:	24,477	

Average Daily Totals (Including Weekends)

8 Hour:	0	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	0	7:00 AM to 7:00 PM
24 Hour:	1,910	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	388	7:30 AM to 7:45 AM
1 Hour	1,430	7:15 AM to 8:15 AM
Total	2,645	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	529	5:00 PM to 5:15 PM
1 Hour	2,057	4:15 PM to 5:15 PM
Total	4,022	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	460	3:15 PM to 3:30 PM
1 Hour	1,395	8:00 PM to 9:00 PM

Average Weekday Totals

8 Hour:	12,248	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	17,855	7:00 AM to 7:00 PM
24 Hour:	23,841	

Average Daily Totals (Including Weekends)

8 Hour:	0	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	15,716	7:00 AM to 7:00 PM
24 Hour:	21,566	

Combined Average Weekday Totals

8 Hour:	24,929	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	36,224	7:00 AM to 7:00 PM
24 Hour:	48,318	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 6376

Count Start: Tue, Jun 17, 2003 02:00 PM
Count End: Tue, Jun 24, 2003 11:29 AM

Location:
Pembina Hwy btw Taylor Ave and Jackson Ave

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	621	8:00 AM to 8:15 AM
1 Hour	2,440	7:30 AM to 8:30 AM
Total	4,330	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	442	3:45 PM to 4:00 PM
1 Hour	1,676	3:45 PM to 4:45 PM
Total	3,274	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	395	9:00 AM to 9:15 AM
1 Hour	1,346	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	12,912	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	18,301	7:00 AM to 7:00 PM
24 Hour:	23,598	

Average Daily Totals (Including Weekends)

8 Hour:	10,947	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	15,894	7:00 AM to 7:00 PM
24 Hour:	20,950	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	375	7:45 AM to 8:00 AM
1 Hour	1,380	7:30 AM to 8:30 AM
Total	2,511	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	535	5:00 PM to 5:15 PM
1 Hour	2,055	4:30 PM to 5:30 PM
Total	3,904	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	446	5:30 PM to 5:45 PM
1 Hour	1,325	3:15 PM to 4:15 PM

Average Weekday Totals

8 Hour:	11,494	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	16,681	7:00 AM to 7:00 PM
24 Hour:	22,377	

Average Daily Totals (Including Weekends)

8 Hour:	10,947	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	14,535	7:00 AM to 7:00 PM
24 Hour:	19,986	

Combined Average Weekday Totals

8 Hour:	24,406	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	34,982	7:00 AM to 7:00 PM
24 Hour:	45,975	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 5586

Count Start: Thu, May 02, 2002 09:45 AM

Count End: Mon, May 06, 2002 10:29 AM

Location:

Pembina Hwy btw Jackson Ave and Lilac St

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	627	7:45 AM to 8:00 AM
1 Hour	2,426	7:30 AM to 8:30 AM
Total	4,079	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	420	4:45 PM to 5:00 PM
1 Hour	1,606	4:00 PM to 5:00 PM
Total	3,137	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	375	2:45 PM to 3:00 PM
1 Hour	1,021	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	12,275	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	17,404	7:00 AM to 7:00 PM
24 Hour:	22,607	

Average Daily Totals (Including Weekends)

8 Hour:	10,644	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	15,489	7:00 AM to 7:00 PM
24 Hour:	20,489	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	392	7:45 AM to 8:00 AM
1 Hour	1,411	7:30 AM to 8:30 AM
Total	2,430	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	543	5:00 PM to 5:15 PM
1 Hour	2,042	4:30 PM to 5:30 PM
Total	3,866	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	497	5:30 PM to 5:45 PM
1 Hour	1,353	3:15 PM to 4:15 PM

Average Weekday Totals

8 Hour:	11,231	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	16,216	7:00 AM to 7:00 PM
24 Hour:	21,950	

Average Daily Totals (Including Weekends)

8 Hour:	10,644	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	14,490	7:00 AM to 7:00 PM
24 Hour:	19,974	

Combined Average Weekday Totals

8 Hour:	23,506	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	33,620	7:00 AM to 7:00 PM
24 Hour:	44,557	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 2173

Count Start: Thu, Nov 01, 2001 12:30 PM

Count End: Tue, Nov 06, 2001 09:59 AM

Location:

Pembina Hw btw Grant Av and Weatherdon Av

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	615	7:45 AM to 8:00 AM
1 Hour	2,393	7:30 AM to 8:30 AM
Total	4,142	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	439	4:45 PM to 5:00 PM
1 Hour	1,622	4:30 PM to 5:30 PM
Total	3,222	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	368	2:45 PM to 3:00 PM
1 Hour	1,156	3:15 PM to 4:15 PM

Average Weekday Totals

8 Hour:	12,580	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	17,787	7:00 AM to 7:00 PM
24 Hour:	22,626	

Average Daily Totals (Including Weekends)

8 Hour:	10,934	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	15,878	7:00 AM to 7:00 PM
24 Hour:	20,668	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	398	7:45 AM to 8:00 AM
1 Hour	1,361	7:30 AM to 8:30 AM
Total	2,404	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	496	5:15 PM to 5:30 PM
1 Hour	1,945	4:30 PM to 5:30 PM
Total	3,680	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	464	5:30 PM to 5:45 PM
1 Hour	1,280	3:15 PM to 4:15 PM

Average Weekday Totals

8 Hour:	10,968	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	15,910	7:00 AM to 7:00 PM
24 Hour:	20,894	

Average Daily Totals (Including Weekends)

8 Hour:	10,934	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	14,298	7:00 AM to 7:00 PM
24 Hour:	19,244	

Combined Average Weekday Totals

8 Hour:	23,548	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	33,697	7:00 AM to 7:00 PM
24 Hour:	43,520	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 6102

Count Start: Tue, Oct 22, 2002 10:44 AM
Count End: Fri, Oct 25, 2002 10:44 AM

Location:

Pembina Hwy btw Chevrier Blvd and Nesbitt Bay

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	580	7:45 AM to 8:00 AM
1 Hour	2,224	7:30 AM to 8:30 AM
Total	3,980	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	459	4:30 PM to 4:45 PM
1 Hour	1,732	3:45 PM to 4:45 PM
Total	3,375	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	443	12:45 PM to 1:00 PM
1 Hour	1,482	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	12,988	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	19,110	7:00 AM to 7:00 PM
24 Hour:	25,388	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	378	8:00 AM to 8:15 AM
1 Hour	1,399	8:00 AM to 9:00 AM
Total	2,318	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	547	4:30 PM to 4:45 PM
1 Hour	2,124	4:30 PM to 5:30 PM
Total	4,076	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	488	5:30 PM to 5:45 PM
1 Hour	1,363	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	12,128	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	18,092	7:00 AM to 7:00 PM
24 Hour:	24,021	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Combined Average Weekday Totals

8 Hour:	25,116	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	37,202	7:00 AM to 7:00 PM
24 Hour:	49,409	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 6675

Count Start: Mon, Nov 03, 2003 11:29 AM

Count End: Fri, Nov 07, 2003 09:59 AM

Location:

Pembina Hwy btw Byng Pl and Calrossie Blvd

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	620	7:30 AM to 7:45 AM
1 Hour	2,358	7:15 AM to 8:15 AM
Total	4,457	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	684	3:45 PM to 4:00 PM
1 Hour	2,558	3:45 PM to 4:45 PM
Total	4,942	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	570	5:30 PM to 5:45 PM
1 Hour	1,766	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	16,468	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	23,552	7:00 AM to 7:00 PM
24 Hour:	30,600	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	546	8:15 AM to 8:30 AM
1 Hour	2,115	7:45 AM to 8:45 AM
Total	3,642	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	695	5:00 PM to 5:15 PM
1 Hour	2,708	4:15 PM to 5:15 PM
Total	5,194	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	704	5:30 PM to 5:45 PM
1 Hour	1,758	2:00 PM to 3:00 PM

Average Weekday Totals

8 Hour:	15,980	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	22,896	7:00 AM to 7:00 PM
24 Hour:	29,988	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Combined Average Weekday Totals

8 Hour:	32,448	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	46,448	7:00 AM to 7:00 PM
24 Hour:	60,588	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 6100

Count Start: Tue, Oct 22, 2002 10:30 AM
Count End: Fri, Oct 25, 2002 10:30 AM

Location:

Pembina Hwy btw Adamar Rd and Manahan Ave

Observations:

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	607	7:45 AM to 8:00 AM
1 Hour	2,348	7:30 AM to 8:30 AM
Total	4,224	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	448	4:00 PM to 4:15 PM
1 Hour	1,732	3:45 PM to 4:45 PM
Total	3,349	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	461	12:45 PM to 1:00 PM
1 Hour	1,561	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	13,379	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	19,675	7:00 AM to 7:00 PM
24 Hour:	26,183	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	406	8:00 AM to 8:15 AM
1 Hour	1,520	8:00 AM to 9:00 AM
Total	2,411	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	640	4:30 PM to 4:45 PM
1 Hour	2,409	4:30 PM to 5:30 PM
Total	4,681	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	552	5:30 PM to 5:45 PM
1 Hour	1,409	1:45 PM to 2:45 PM

Average Weekday Totals

8 Hour:	12,961	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	19,195	7:00 AM to 7:00 PM
24 Hour:	25,212	

Average Daily Totals (Including Weekends)

8 Hour:	N/A	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	N/A	7:00 AM to 7:00 PM
24 Hour:	N/A	

Combined Average Weekday Totals

8 Hour:	26,340	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	38,870	7:00 AM to 7:00 PM
24 Hour:	51,395	



The City Of Winnipeg Public Works Department

Transportation Division Summary for Study 9555

Count Start: Tue, Nov 06, 2007 10:15 AM

Count End: Tue, Nov 13, 2007 11:45 AM

Location:

Pembina Hw btw Harrow St E and Ramp Jubilee WB to Pembina NB

Observations:

Pembina Hwy UnderPass

Southbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	657	8:00 AM to 8:15 AM
1 Hour	2,467	7:45 AM to 8:45 AM
Total	4,245	7:00 AM to 9:00 AM

PM Peak (3:30 PM - 5:30 PM)

15 Minute	943	4:45 PM to 5:00 PM
1 Hour	3,664	4:15 PM to 5:15 PM
Total	6,954	3:30 PM to 5:30 PM

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	778	5:30 PM to 5:45 PM
1 Hour	2,136	3:15 PM to 4:15 PM

Average Weekday Totals

8 Hour:	19,702	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	28,064	7:00 AM to 7:00 PM
24 Hour:	36,838	

Average Daily Totals (Including Weekends)

8 Hour:	17,152	7:00 AM to 11:00 AM & 2:00 PM to 6:00 PM
12 Hour:	25,032	7:00 AM to 7:00 PM
24 Hour:	33,518	

Northbound

AM Peak (7:00 AM - 9:00 AM)

15 Minute	N/A
1 Hour	N/A
Total	N/A

PM Peak (3:30 PM - 5:30 PM)

15 Minute	N/A
1 Hour	N/A
Total	N/A

Non Peak (9:00 AM - 3:30 PM & 5:30 PM - 7:00AM)

15 Minute	N/A
1 Hour	N/A

Average Weekday Totals

8 Hour:	N/A
12 Hour:	N/A
24 Hour:	N/A

Average Daily Totals (Including Weekends)

8 Hour:	N/A
12 Hour:	N/A
24 Hour:	N/A