

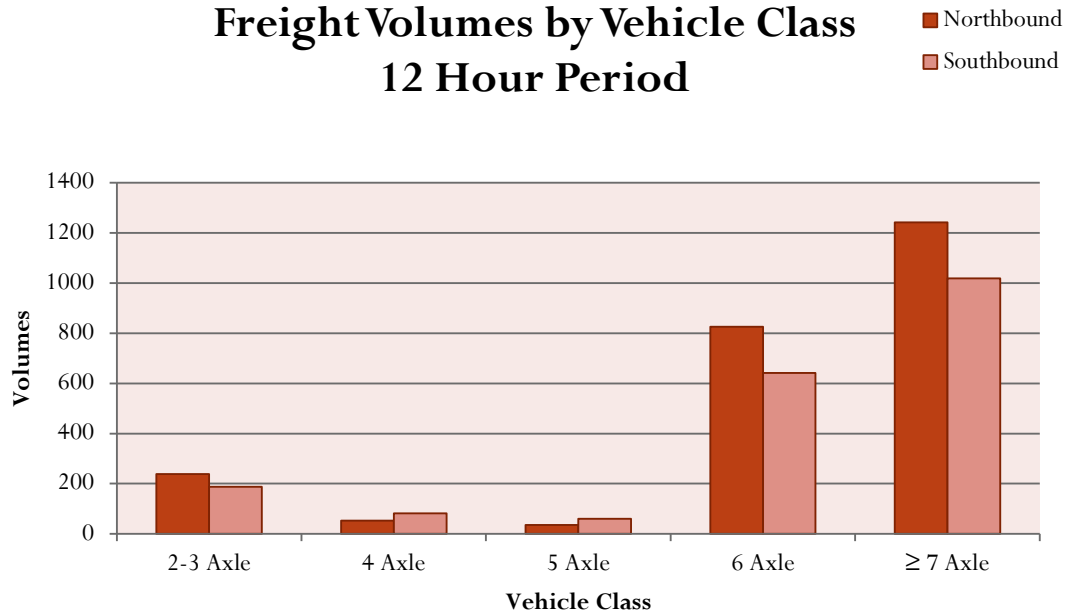
TRAFFIC HIGHLIGHTS OF SITE 3022			
1.1	Site Identifier	3022	
1.2	Site Name	Roosboom	
1.3	Site Description	Between Frere & Bergvill I/C	
1.4	Road Description	Route : N003 Road : N003 Section : 06 Distance : 15.9km	
1.5	GPS Position	29 36 48.0E -28 37 29.0S	
1.6	Number of Lanes	4	
1.7	Station Type	Permanent WIM	
1.8	Requested Period	2022/01/01 - 2022/12/31	
1.9	Length of record requested (hours)	8760	
1.10	Actual First & Last Dates	2022/01/01 - 2022/12/31	
1.11	Actual available good data (hours)	8756	
1.12	Percentage good data available for requested period	100.0	
		To Harrismith	Total
2.1a	Total number of vehicles (counted)	2545476	5045197
2.1b	Total number of vehicles (projected for period)	2546598	5047420
2.2	Average daily traffic (ADT)	6977	13829
2.3	Average daily truck traffic (ADTT)	3593	7058
2.4	Percentage of trucks	51.5	51.0
2.5	Truck split % (short:medium:long)	7 : 12 : 81	7 : 13 : 80
2.6	Percentage of night traffic (20:00 - 06:00)	24.4	25.2
3.1	Speed limit (km/hr)		120
3.2	Average speed (km/hr)	96.0	93.4
3.3	Average speed - light vehicles (km/hr)	113.6	110.9
3.4	Average speed - heavy vehicles (km/hr)	79.4	76.6
3.5	Average night speed (km/hr)	86.5	84.6
3.6	15th centile speed (km/hr)	75.8	72.9
3.7	85th centile speed (km/hr)	120.0	118.0
3.8	Percentage vehicles in excess of speed limit	14.7	11.8
4.1	Percentage vehicles in flows over 600 vehicles/hr	11.3	66.4
4.2	Highest volume on the road (vehicles/hr)	2022/12/16 12:00:00	2466
4.3	Highest volume in the North (vehs/hr)	2022/01/02 14:00:00	1783
4.4	Highest volume in the South (vehs/hr)	2022/12/16 12:00:00	1833
4.5	Highest volume in a lane (vehicles/hr)	2022/12/16 12:00:00	1300
4.6	15th highest volume on the road (vehicles/hr)	2022/12/23 16:00:00	1970
4.7	15th highest volume in the North direction (vehs/hr)	2022/05/02 13:00:00	1252
4.8	15th highest volume in the South direction (vehs/hr)	2022/12/15 12:00:00	1060
4.9	30th highest volume on the road (vehicles/hr)	2022/01/09 14:00:00	1781
4.10	30th highest volume in the North direction (vehs/hr)	2022/03/21 13:00:00	1153
4.11	30th highest volume in the South direction (vehs/hr)	2022/12/22 14:00:00	912
5.1	Percentage of vehicles less than 2s behind vehicle ahead	7.7	7.2
6.1	Total number of heavy vehicles (projected for period)	1311486	2576227
6.2	Estimated average number of axles per truck	5.9	5.9
6.3	Estimated truck mass (Ton/truck)	34.8	34.7
6.4	Estimated average E80/truck	2.5	2.6
6.5	Estimated daily E80 on the road		18084
6.6	Estimated daily E80 in the North direction		9116
6.7	Estimated daily E80 in the South direction		8973
6.8	Actual average daily E80 in the worst North lane		7132
6.9	Actual average daily E80 in the worst South lane		6763
6.10	Actual average Axles/Truck (Short:Medium:Long)	(2.2 : 4.5 : 6.5)	(2.2 : 4.6 : 6.5)
6.11	Actual average Mass/Truck (Short:Medium:Long)	(8.8 : 25.2 : 38.6)	(8.4 : 24.9 : 38.6)
6.12	Actual average E80s/Truck (Short:Medium:Long)	(0.4 : 1.7 : 2.9)	(0.3 : 1.6 : 2.9)

L/H/Volume Report

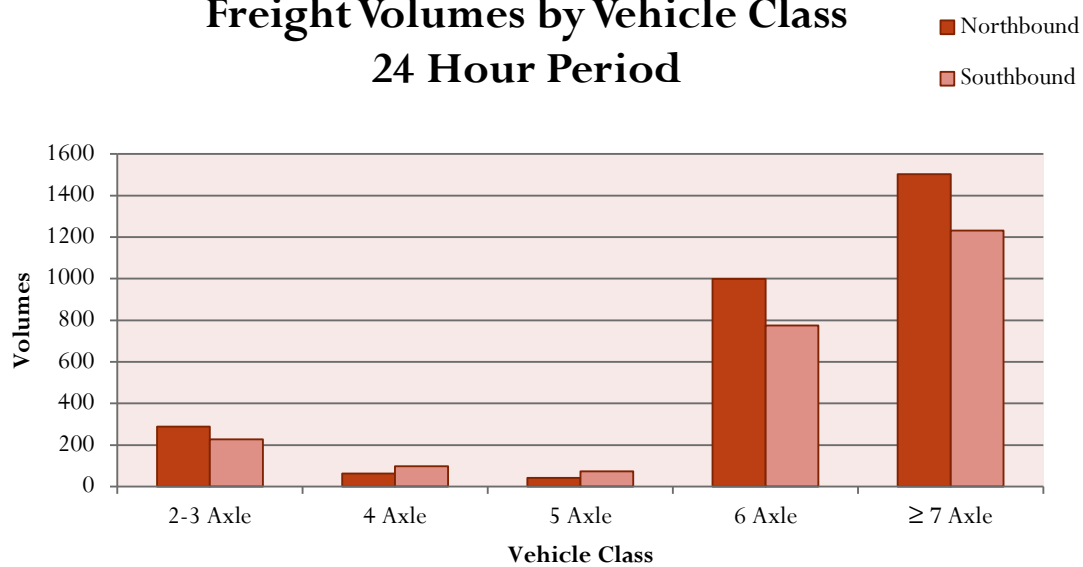
Date : 2023/10/02
Site : 3022 - Roosboom
Description : Between Frere & Bergvill I/C

Date	Time	Dur.	Lane 1			Lane 2			Lane 3			Lane 4			To Harrismith			To Estcourt		
			Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total
231002	00:00	24:00	1516	3242	4758	2429	395	2824	2082	383	2465	1359	2750	4109	3945	3637	7582	3441	3133	6574
231003	00:00	24:00	1023	3726	4749	1806	498	2304	1891	567	2458	854	3826	4680	2829	4224	7053	2745	4393	7138
231004	00:00	24:00	852	3979	4831	1837	585	2422	2086	502	2588	1004	3681	4685	2689	4564	7253	3090	4183	7273
231005	00:00	23:44	976	4005	4981	2014	600	2614	2467	510	2977	1152	3842	4994	2990	4605	7595	3619	4352	7971
231006	00:00	24:00	1453	3450	4903	2826	406	3232	3755	501	4256	1568	3835	5403	4279	3856	8135	5323	4336	9659
231007	00:00	24:00	1590	2691	4281	2747	280	3027	2304	352	2656	1390	2902	4292	4337	2971	7308	3694	3254	6948
231008	00:00	24:00	2566	3078	5644	5963	406	6369	2076	187	2263	1379	2088	3467	8529	3484	12013	3455	2275	5730

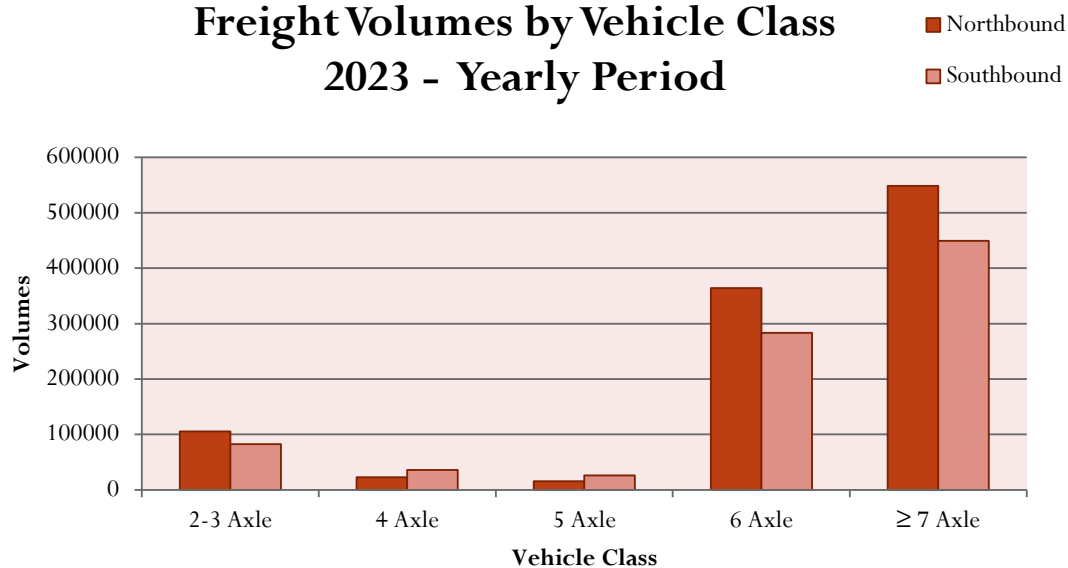
Freight Volumes by Vehicle Class 12 Hour Period

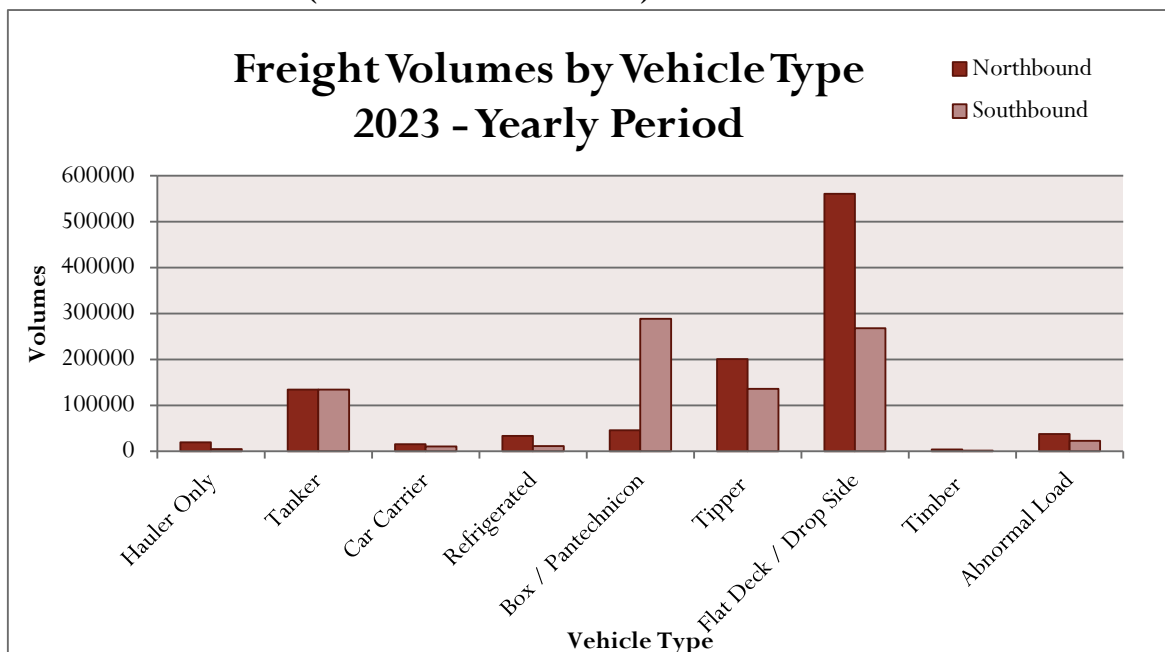
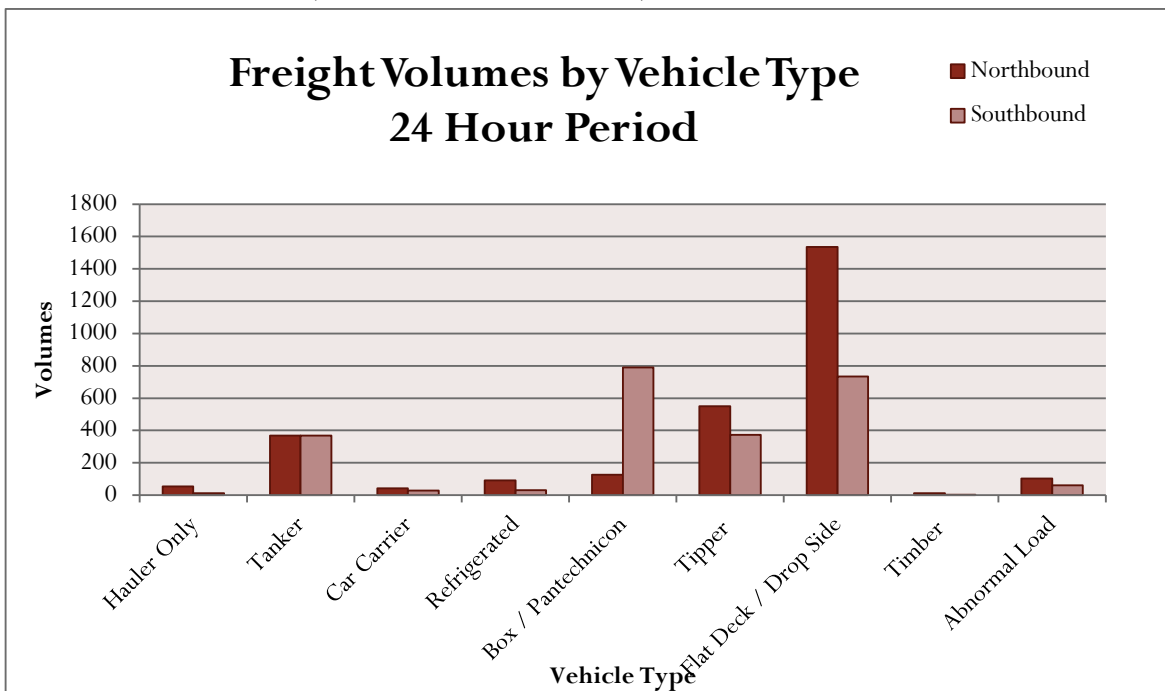
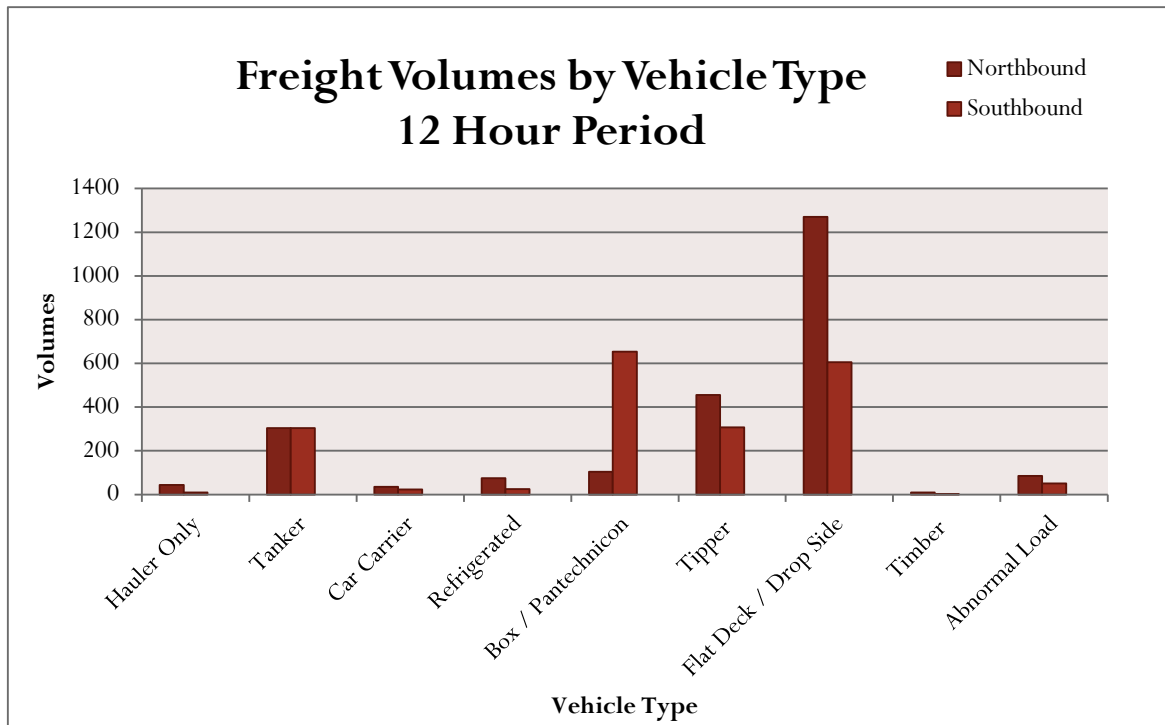


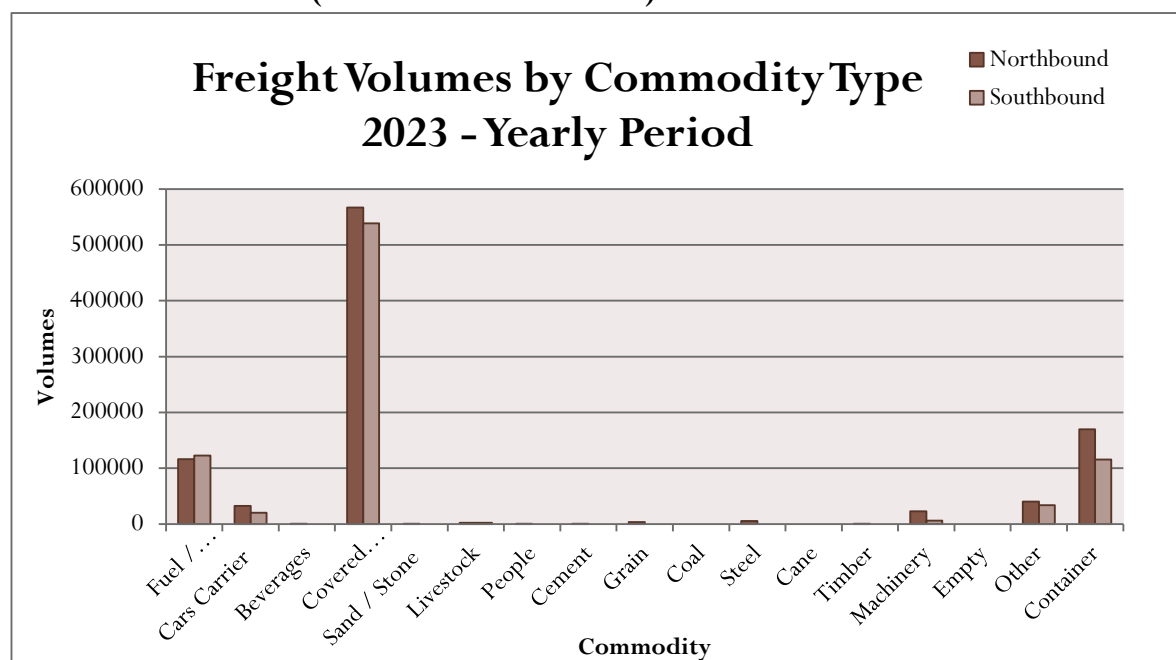
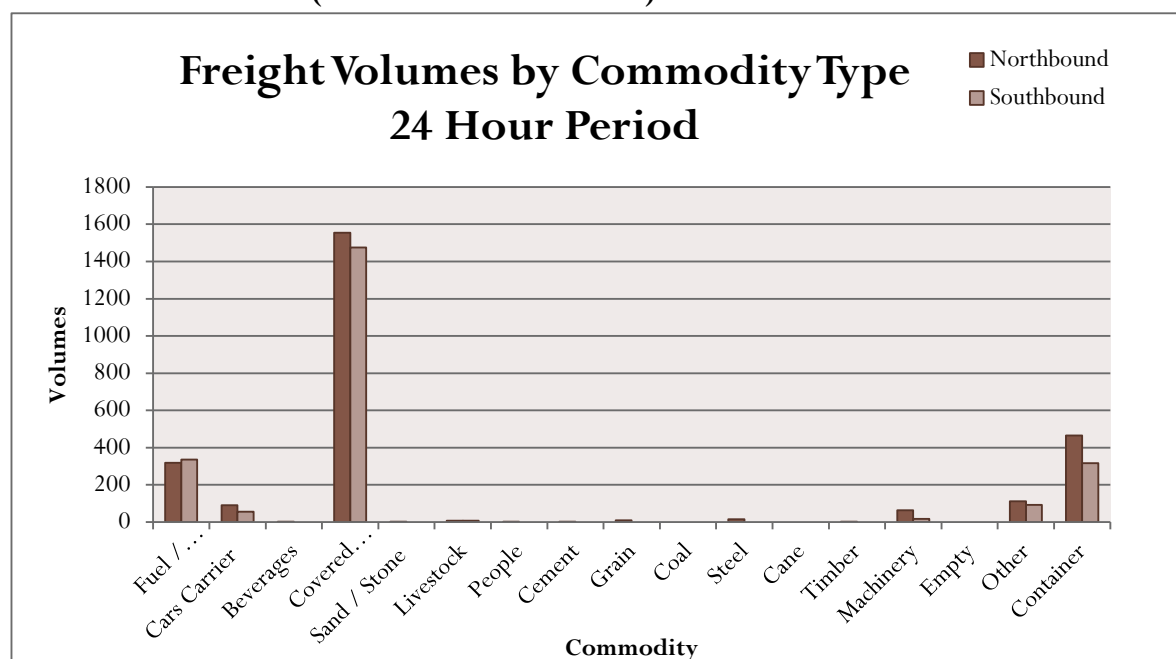
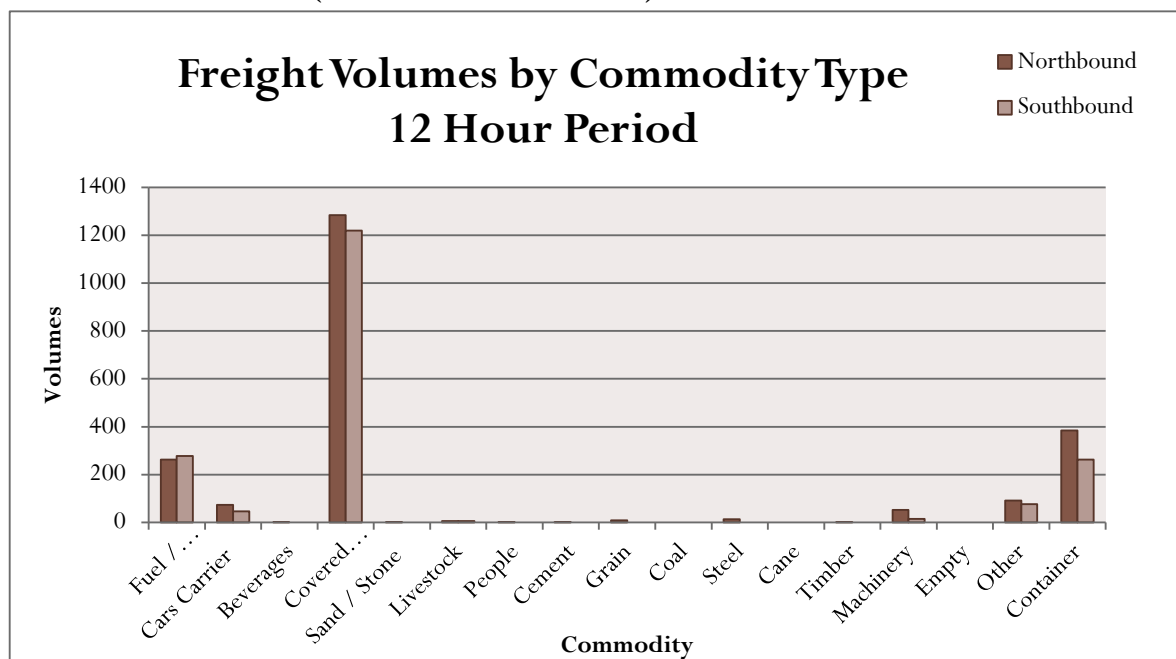
Freight Volumes by Vehicle Class 24 Hour Period

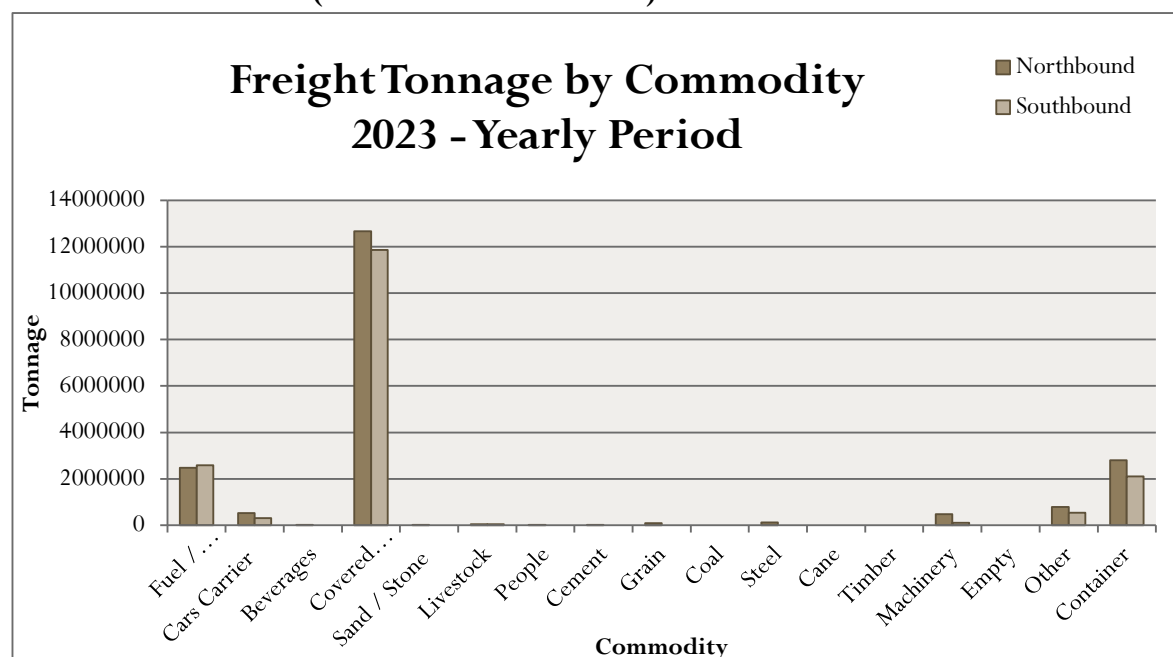
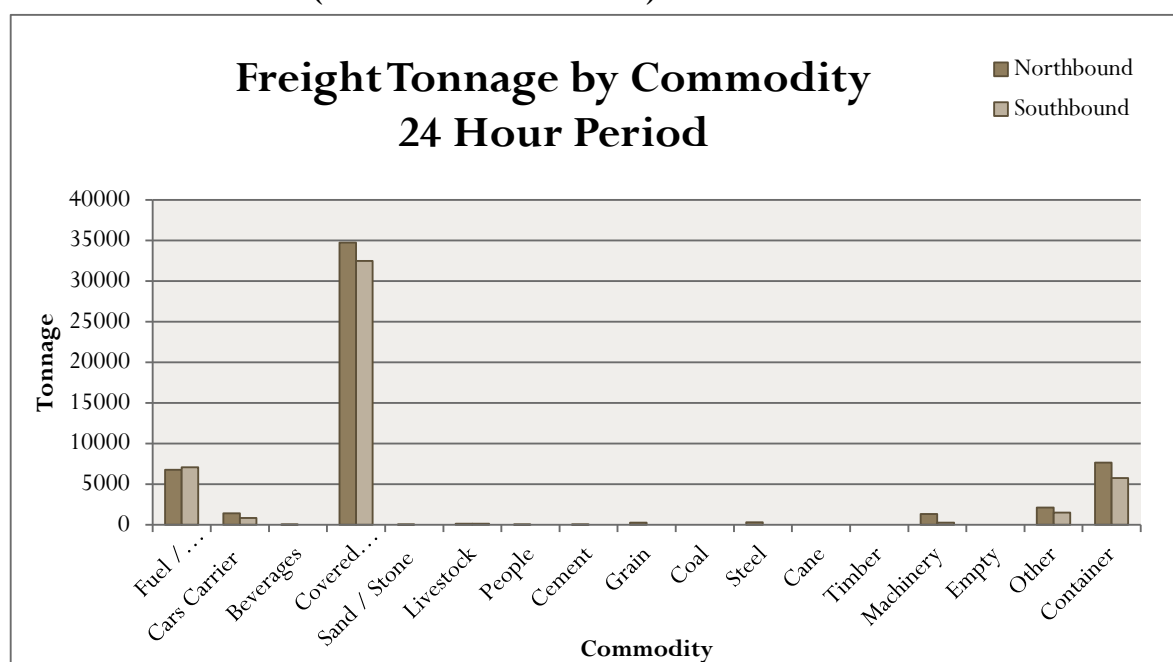
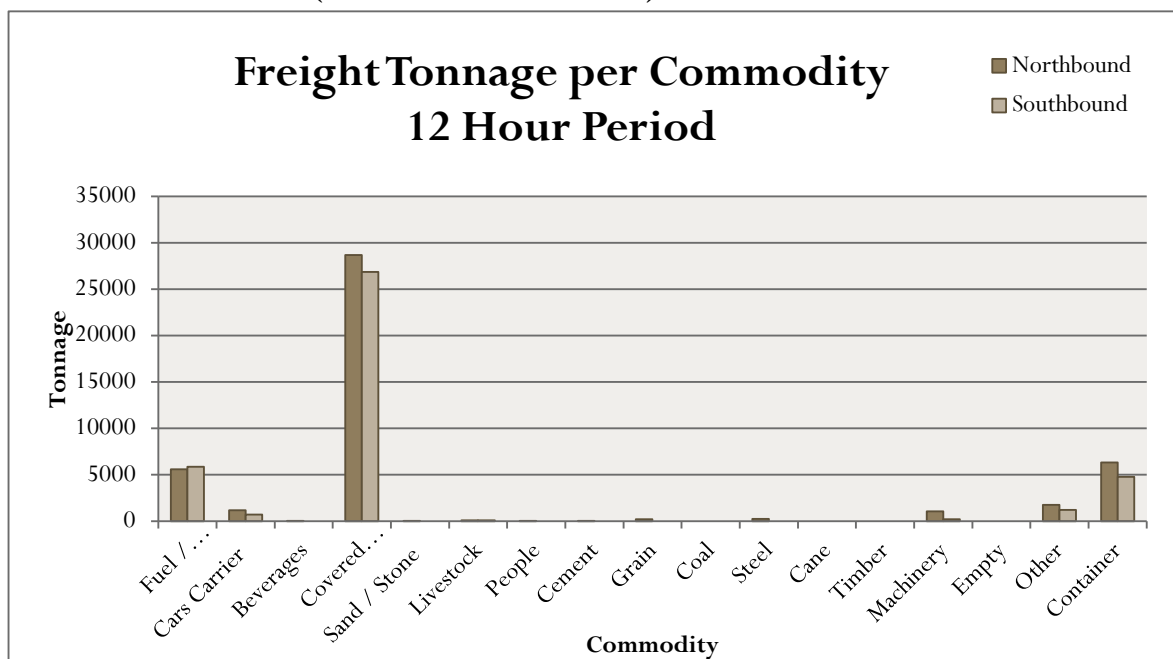


Freight Volumes by Vehicle Class 2023 - Yearly Period









Roosboom (N003 Harrismith - Escourt)													
Freight Tonnage by Commodity by Vehicle Class (12 Hours)												Date: 18-10-2023	
Northbound							Southbound						
	2-3 Axle	4 Axle	5 Axle	6 Axle	≥ 7 Axle	Total		2-3 Axle	4 Axle	5 Axle	6 Axle	≥ 7 Axle	Total
Fuel / Chemicals	12	0	0	3720	1875	5607	Fuel / Chemicals	6	0	45	4140	1675	5866
Cars Carrier	48	130	240	700	50	1168	Cars Carrier	30	70	210	400	0	710
Beverages	0	10	0	0	0	10	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	762	130	150	2780	24875	28697	Covered Load / Sail or Tarp	738	160	255	3500	22200	26853
Sand / Stone	0	10	0	0	0	10	Sand / Stone	0	0	0	0	0	0
Livestock	6	10	0	40	50	106	Livestock	6	10	0	20	75	111
People	6	0	0	0	0	6	People	0	0	0	0	0	0
Cement	0	0	0	20	0	20	Cement	0	0	0	0	0	0
Grain	0	0	0	0	200	200	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	0	0
Steel	6	0	0	200	50	256	Steel	0	0	0	0	0	0
Cane	0	0	0	0	0	0	Cane	0	0	0	0	0	0
Timber	0	0	0	0	0	0	Timber	0	0	0	0	0	0
Machinery	12	0	0	740	325	1077	Machinery	30	0	0	120	75	225
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	96	0	15	880	775	1766	Other	150	20	30	560	475	1235
Container	24	260	75	5980	0	6339	Container	0	480	195	3740	350	4765

Roosboom (N003 Harrismith - Escourt)													
Freight Tonnage by Commodity by Vehicle Class (24 Hours)												Date: 18-10-2023	
Northbound							Southbound						
	3 Axle	4 Axle	5 Axle	6 Axle	≥ 7 Axle	Total		3 Axle	4 Axle	5 Axle	6 Axle	≥ 7 Axle	Total
Fuel / Chemicals	15	0	0	4501	2269	6784	Fuel / Chemicals	7	0	54	5009	2027	7098
Cars Carrier	58	157	290	847	61	1413	Cars Carrier	36	85	254	484	0	859
Beverages	0	12	0	0	0	12	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	922	157	182	3364	30099	34723	Covered Load / Sail or Tarp	893	194	309	4235	26862	32492
Sand / Stone	0	12	0	0	0	12	Sand / Stone	0	0	0	0	0	0
Livestock	7	12	0	48	61	128	Livestock	7	12	0	24	91	134
People	7	0	0	0	0	7	People	0	0	0	0	0	0
Cement	0	0	0	24	0	24	Cement	0	0	0	0	0	0
Grain	0	0	0	0	242	242	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	0	0
Steel	7	0	0	242	61	310	Steel	0	0	0	0	0	0
Cane	0	0	0	0	0	0	Cane	0	0	0	0	0	0
Timber	0	0	0	0	0	0	Timber	0	0	0	0	0	0
Machinery	15	0	0	895	393	1303	Machinery	36	0	0	145	91	272
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	116	0	18	1065	938	2137	Other	182	24	36	678	575	1494
Container	29	315	91	7236	0	7670	Container	0	581	236	4525	424	5766

Roosboom (N003 Harrismith - Escourt)													
Freight Tonnage by Commodity by Vehicle Class (Yearly Period)													
Northbound							Southbound						
	3 Axle	4 Axle	5 Axle	6 Axle	≥ 7 Axle	Total		3 Axle	4 Axle	5 Axle	6 Axle	≥ 7 Axle	Total
Fuel / Chemicals	5300	0	0	1642938	828094	2476332	Fuel / Chemicals	2650	0	19874	1828431	739764	2590719
Cars Carrier	21199	57415	105996	309155	22083	515847	Cars Carrier	13250	30916	92747	176660	0	313572
Beverages	0	4417	0	0	0	4417	Beverages	0	0	0	0	0	0
Covered Load / Sail or	336537	57415	66248	1227787	10986044	12674030	Covered Load / Sail or Tarp	325938	70664	112621	1545775	9804630	11859627
Sand / Stone	0	4417	0	0	0	4417	Sand / Stone	0	0	0	0	0	0
Livestock	2650	4417	0	17666	22083	46815	Livestock	2650	4417	0	8833	33124	49023
People	2650	0	0	0	0	2650	People	0	0	0	0	0	0
Cement	0	0	0	8833	0	8833	Cement	0	0	0	0	0	0
Grain	0	0	0	0	88330	88330	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	0	0
Steel	2650	0	0	88330	22083	113062	Steel	0	0	0	0	0	0
Cane	0	0	0	0	0	0	Cane	0	0	0	0	0	0
Timber	0	0	0	0	0	0	Timber	0	0	0	0	0	0
Machinery	5300	0	0	326821	143536	475657	Machinery	13250	0	0	52998	33124	99371
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	42398	0	6625	388652	342279	779954	Other	66248	8833	13250	247324	209784	545438
Container	10600	114829	33124	2641067	0	2799619	Container	0	211992	86122	1651771	154578	2104462

Roosboom (N003 Harrismith - Escourt) Twenty Foot Equivalent Unit (TEU) (12 Hours) Date: 18-10-2023													
Northbound							Southbound						
	1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL		1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL
2 Axle	2			2		6	2 Axle						0
3 Axle						0	3 Axle						0
4 Axle	2			24		50	4 Axle	1	1		46		95
5 Axle	2			3		8	5 Axle				13		26
6 Axle	48	11		231	9	559	6 Axle	31	9		195	15	484
≥ 7 Axle	2	7		14	27	125	≥ 7 Axle	4	3		7	6	42
TOTAL							TOTAL						
						748							647

Roosboom (N003 Harrismith - Escourt) Twenty Foot Equivalent Unit (TEU) (24 Hours) Date: 18-10-2023													
Northbound							Southbound						
	1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL		1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL
2 Axle	2	0	0	2	0	7	2 Axle	0	0	0	0	0	0
3 Axle	0	0	0	0	0	0	3 Axle	0	0	0	0	0	0
4 Axle	2	0	0	29	0	61	4 Axle	1	1	0	56	0	115
5 Axle	2	0	0	4	0	10	5 Axle	0	0	0	16	0	31
6 Axle	58	13	0	280	11	676	6 Axle	38	11	0	236	18	586
≥ 7 Axle	2	8	0	17	33	151	≥ 7 Axle	5	4	0	8	7	51
TOTAL							TOTAL						
						905							783

Roosboom (N003 Harrismith - Escourt) Twenty Foot Equivalent Unit (TEU) (Yearly Period)													
Northbound							Southbound						
	1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL		1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL
2 Axle	883	0	0	883	0	2650	2 Axle	0	0	0	0	0	0
3 Axle	0	0	0	0	0	0	3 Axle	0	0	0	0	0	0
4 Axle	883	0	0	10600	0	22083	4 Axle	442	442	0	20316	0	41957
5 Axle	883	0	0	1325	0	3533	5 Axle	0	0	0	5741	0	11483
6 Axle	21199	4858	0	102021	3975	246882	6 Axle	13691	3975	0	86122	6625	213759
≥ 7 Axle	883	3092	0	6183	11925	55206	≥ 7 Axle	1767	1325	0	3092	2650	18549
TOTAL							TOTAL						
						330354							285748