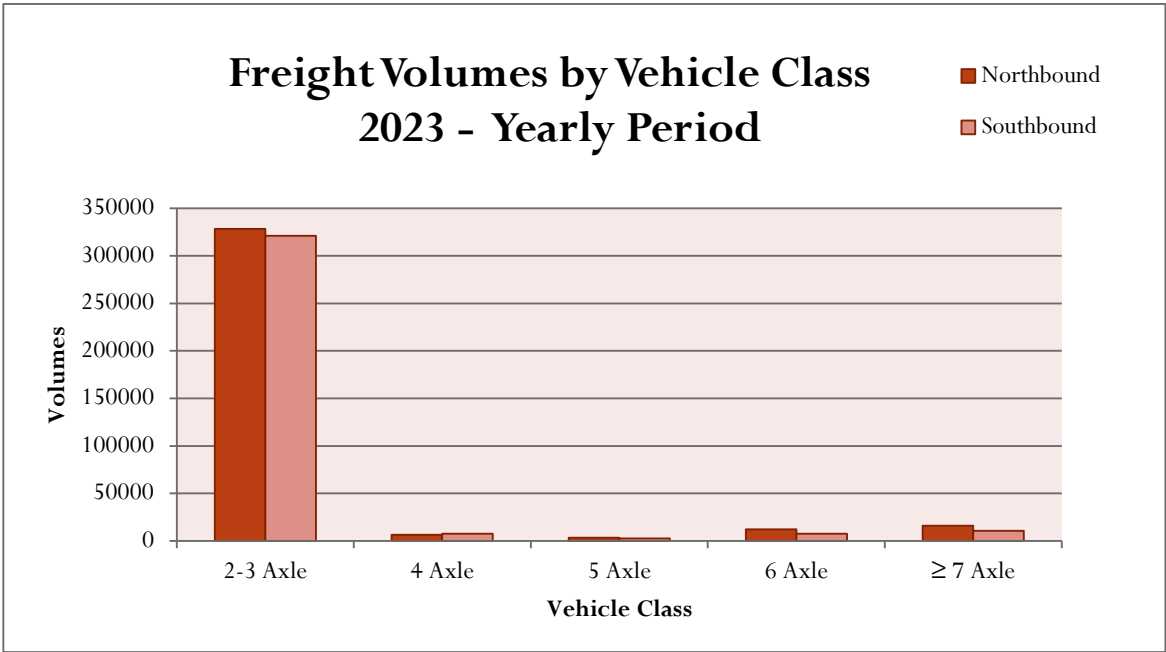
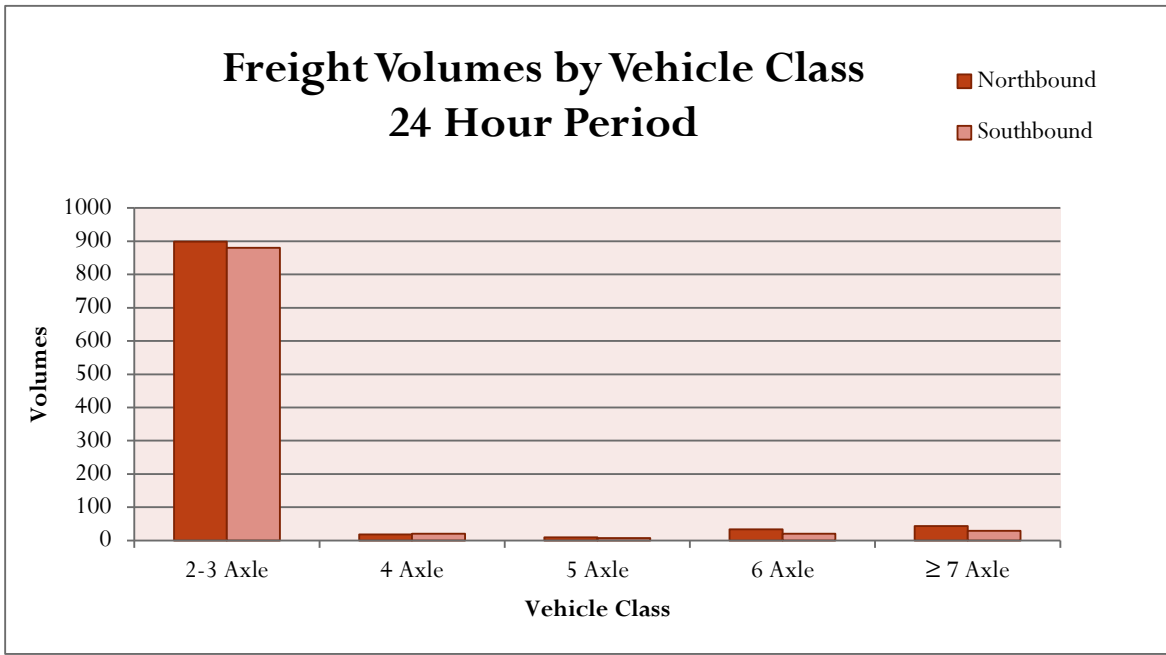
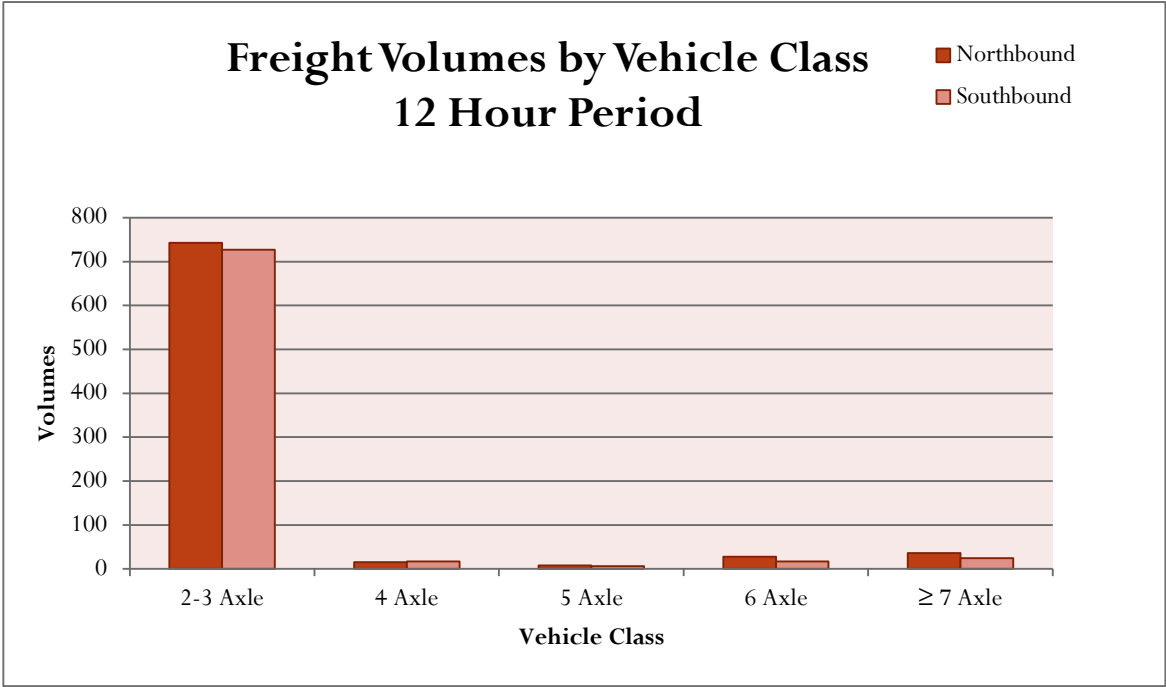


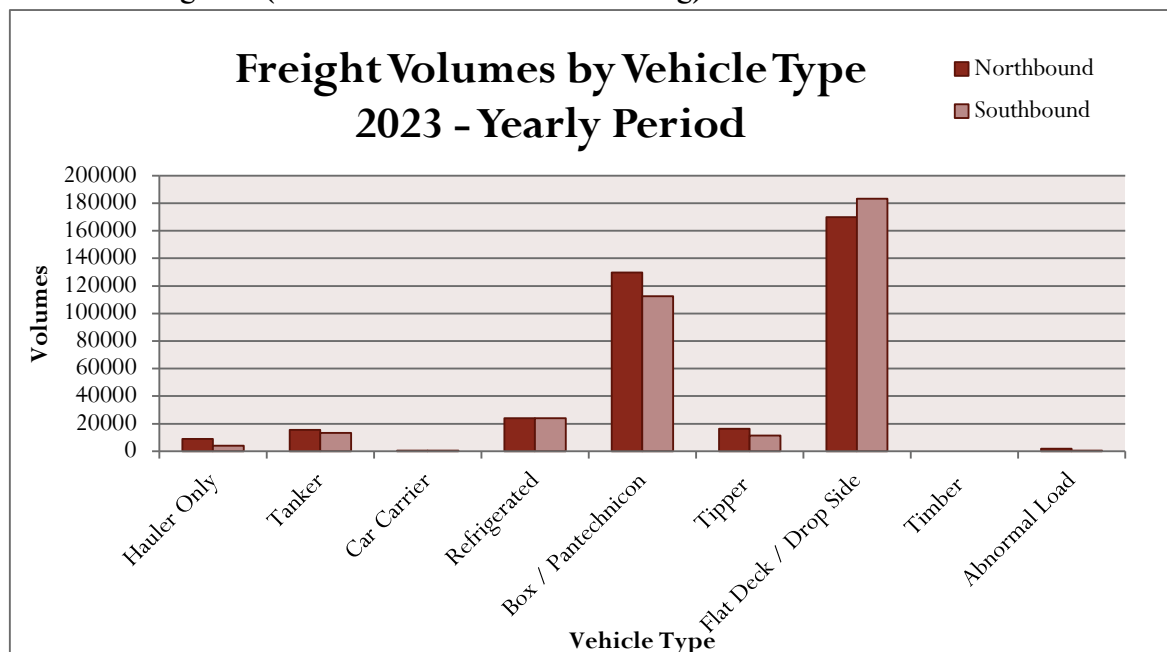
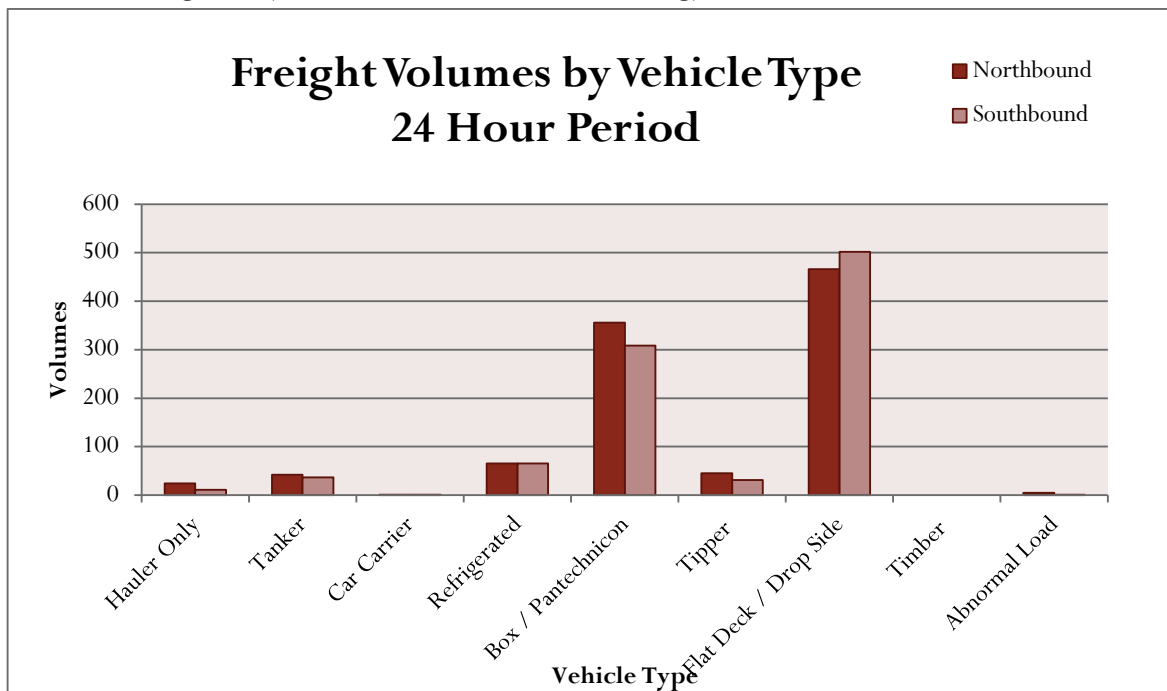
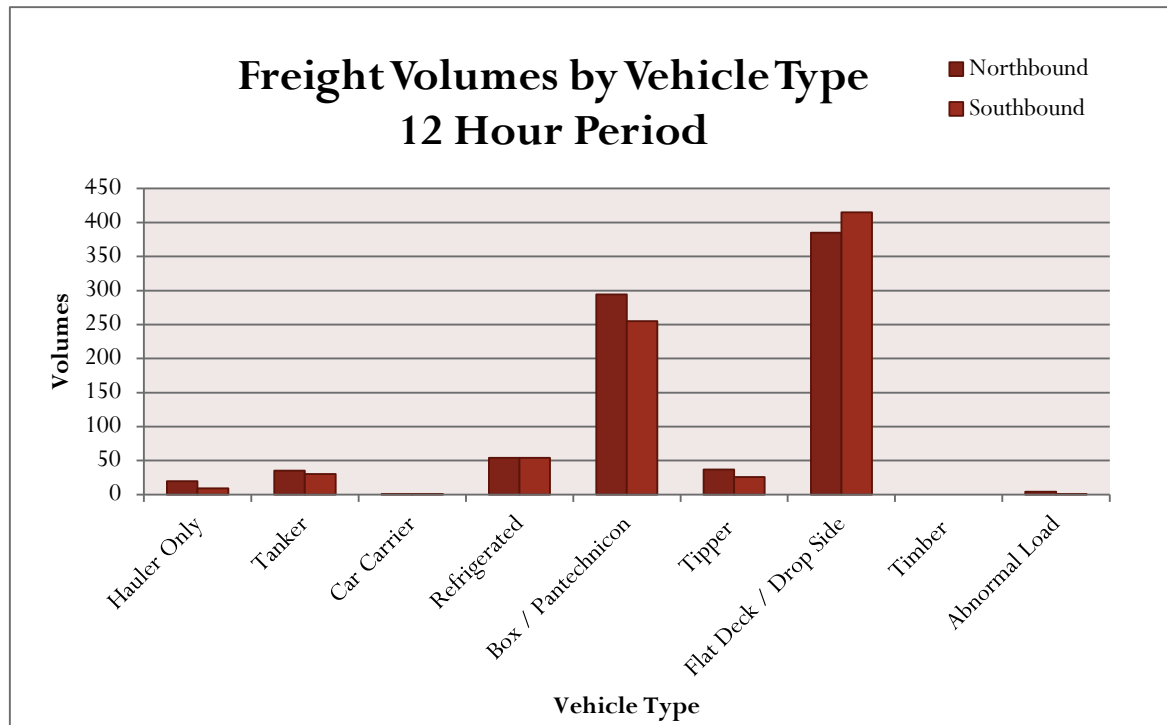
TRAFFIC HIGHLIGHTS OF SITE 1416				
1.1	Site Identifier	1416		
1.2	Site Name	Shongweni West		
1.3	Site Description	West of Shongweni I/C		
1.4	Road Description	Route : R103 Road : P400 Section : Distance : 6.2km		
1.5	GPS Position	30 43 49.5E -29 47 15.6S		
1.6	Number of Lanes	4		
1.7	Station Type	Permanent 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)	8603		
1.12	Percentage good data available for requested period	98.2		
		To PMB	To DBN	Total
2.1a	Total number of vehicles (counted)	3472708	3564086	7036794
2.1b	Total number of vehicles (projected for period)	3535864	3628904	7164767
2.2	Average daily traffic (ADT)	9687	9942	19629
2.3	Average daily truck traffic (ADTT)	700	671	1372
2.4	Percentage of trucks	7.2	6.8	7.0
2.5	Truck split % (short:medium:long)	70 : 19 : 11	67 : 21 : 12	69 : 20 : 11
2.6	Percentage of night traffic (20:00 - 06:00)	8.0	8.0	8.0
3.1	Speed limit (km/hr)	100		
3.2	Average speed (km/hr)	81.7	91.3	86.5
3.3	Average speed - light vehicles (km/hr)	83.5	92.2	87.9
3.4	Average speed - heavy vehicles (km/hr)	59.1	78.8	68.7
3.5	Average night speed (km/hr)	77.5	88.5	83.1
3.6	15th centile speed (km/hr)	65.9	79.9	71.9
3.7	85th centile speed (km/hr)	97.0	104.0	100.0
3.8	Percentage vehicles in excess of speed limit	8.0	21.2	14.6
4.1	Percentage vehicles in flows over 600 vehicles/hr	64.1	69.7	89.7
4.2	Highest volume on the road (vehicles/hr)	2022/05/03 07:00:00		3044
4.3	Highest volume in the East (vehs/hr)	2022/06/17 17:00:00		1362
4.4	Highest volume in the West (vehs/hr)	2022/05/03 07:00:00		2066
4.5	Highest volume in a lane (vehicles/hr)	2022/05/03 07:00:00		1238
4.6	15th highest volume on the road (vehicles/hr)	2022/04/01 17:00:00		2333
4.7	15th highest volume in the East direction (vehs/hr)	2022/07/25 08:00:00		1179
4.8	15th highest volume in the West direction (vehs/hr)	2022/01/25 18:00:00		1384
4.9	30th highest volume on the road (vehicles/hr)	2022/11/01 14:00:00		2252
4.10	30th highest volume in the East direction (vehs/hr)	2022/08/15 08:00:00		1157
4.11	30th highest volume in the West direction (vehs/hr)	2022/08/06 08:00:00		1310
5.1	Percentage of vehicles less than 2s behind vehicle ahead	13.0	16.0	14.5
6.1	Total number of heavy vehicles (projected for period)	255512	245088	500599
6.2	Estimated average number of axles per truck	3.1	2.8	2.8
6.3	Estimated truck mass (Ton/truck)	18.0	11.5	11.3
6.4	Estimated average E80/truck	1.1	0.4	0.4
6.5	Estimated daily E80 on the road	571		
6.6	Estimated daily E80 in the East direction	787		
6.7	Estimated daily E80 in the West direction	286		
6.8	Actual average daily E80 in the worst East lane	0		
6.9	Actual average daily E80 in the worst West lane	249		
6.10	Actual average Axles/Truck (Short:Medium:Long)	(2.0 : 5.0 : 7.0)	(2.2 : 3.0 : 5.9)	(2.2 : 3.0 : 5.9)
6.11	Actual average Mass/Truck (Short:Medium:Long)	(10.9 : 31.5 : 39.8)	(8.1 : 13.2 : 27.1)	(8.1 : 13.2 : 27.1)
6.12	Actual average E80s/Truck (Short:Medium:Long)	(0.6 : 2.5 : 2.1)	(0.2 : 0.5 : 1.3)	(0.2 : 0.5 : 1.3)

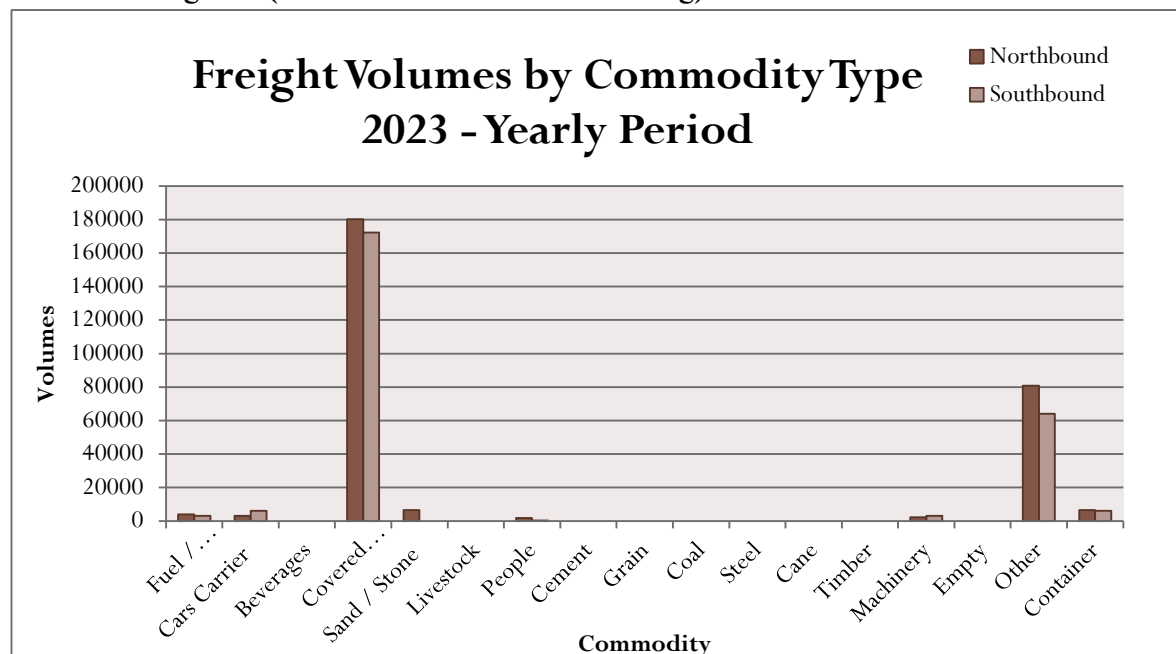
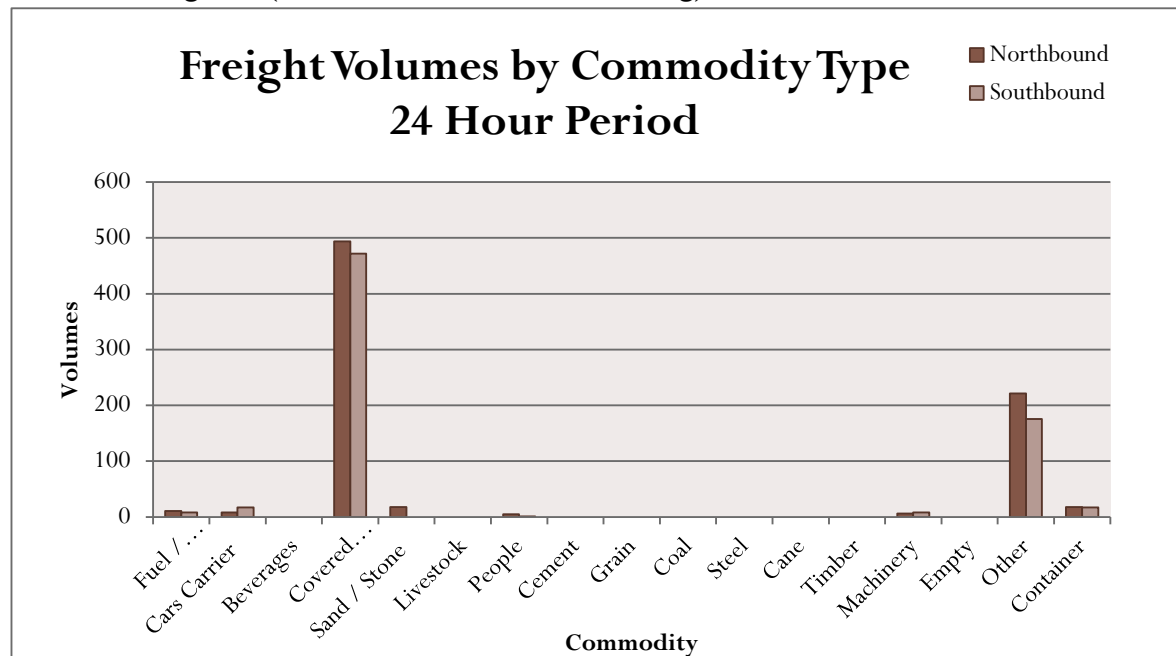
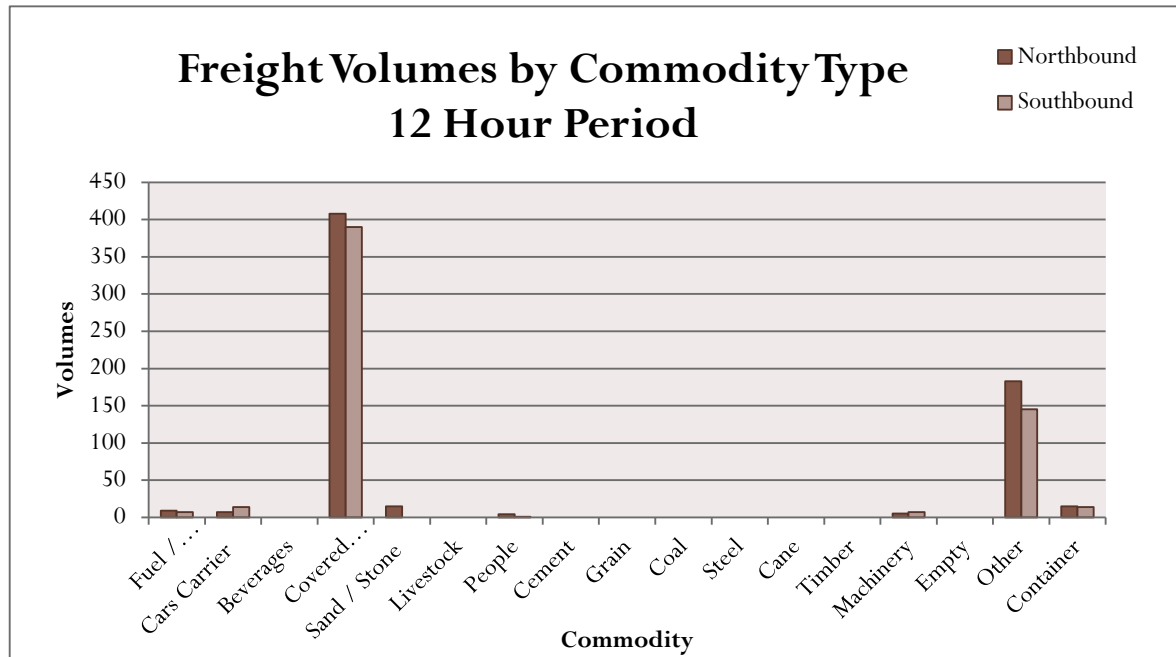
L/H/Volume Report

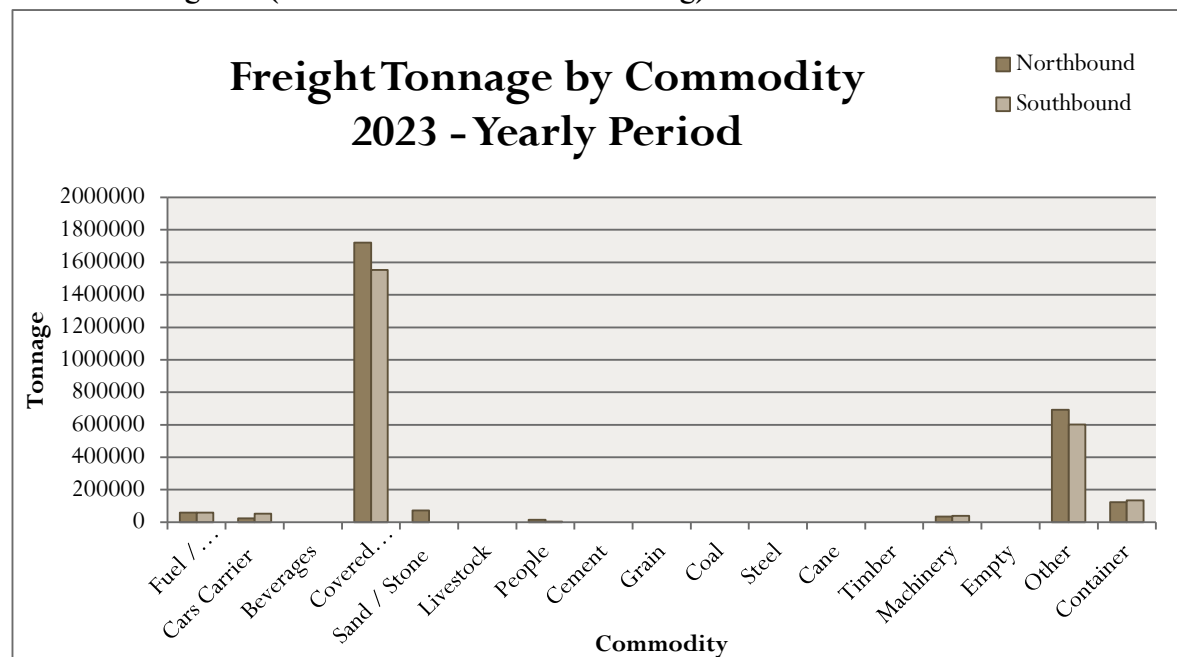
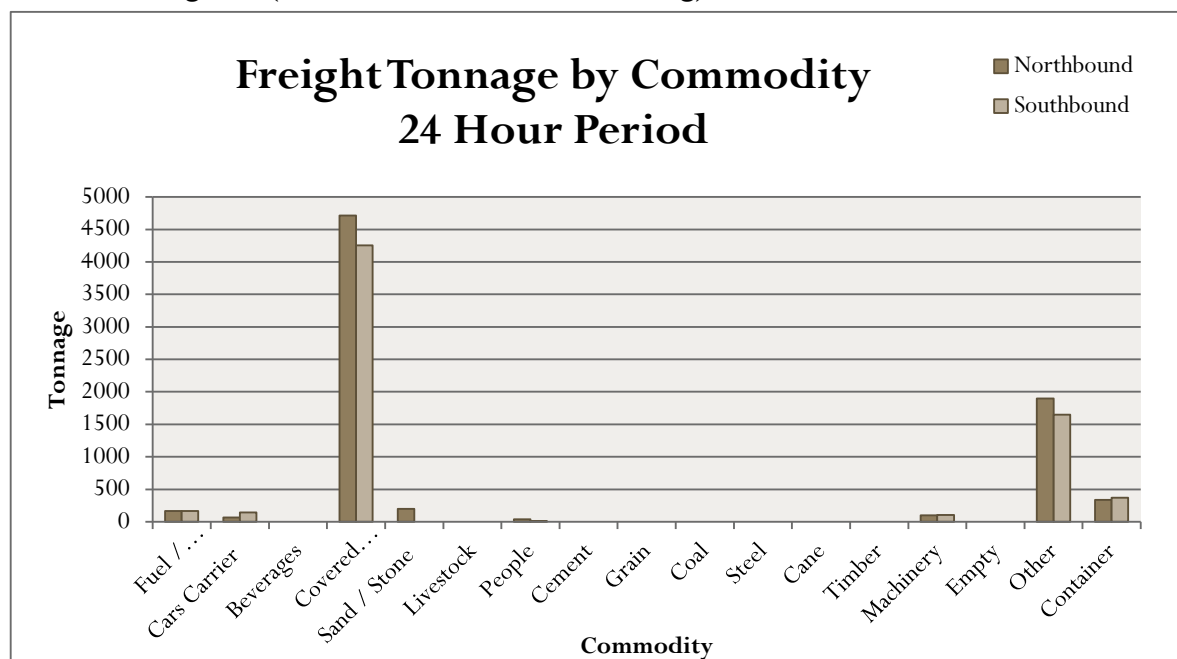
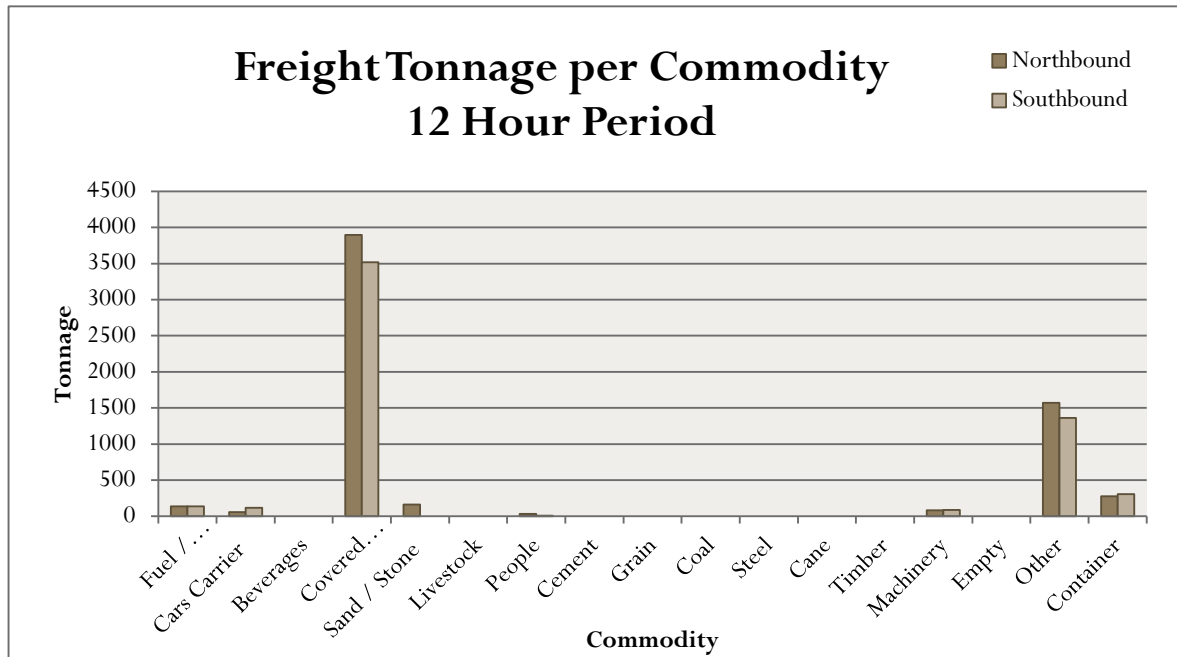
Date : 2023/10/02
Site : 1416 - Shongweni West
Description : West of Shongweni I/C

Date	Time	Dur.	Lane 1			Lane 2			Lane 3			Lane 4			To PMB			To DBN		
			Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total
231002	00:00	24:00	4524	836	5360	5167	158	5325	3454	226	3680	6389	1114	7503	9691	994	10685	9843	1340	11183
231003	00:00	24:00	4386	889	5275	5233	143	5376	3098	204	3302	6086	1069	7155	9619	1032	10651	9184	1273	10457
231004	00:00	24:00	4406	840	5246	5130	149	5279	3367	211	3578	6197	1075	7272	9536	989	10525	9564	1286	10850
231005	00:00	24:00	4462	915	5377	5315	193	5508	3439	222	3661	6233	1137	7370	9777	1108	10885	9672	1359	11031
231006	00:00	24:00	5052	851	5903	5940	189	6129	3757	259	4016	6697	1118	7815	10992	1040	12032	10454	1377	11831
231007	00:00	24:00	4445	431	4876	3796	83	3879	2324	139	2463	5640	670	6310	8241	514	8755	7964	809	8773
231008	00:00	24:00	3670	295	3965	2805	87	2892	1870	99	1969	5117	496	5613	6475	382	6857	6987	595	7582









Shongweni (R103 Durban to Pietermaritzburg)													
Freight Tonnage by Commodity by Vehicle Class (12 Hours)												Date: 13-09-2023	
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	48	0	0	56	32	136	Fuel / Chemicals	24	0	23	56	32	135
Cars Carrier	56	0	0	0	0	56	Cars Carrier	104	15	0	0	0	119
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	3032	15	69	140	640	3896	Covered Load / Sail or Tarp	2960	60	0	112	384	3516
Sand / Stone	72	90	0	0	0	162	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	32	0	0	0	0	32	People	8	0	0	0	0	8
Cement	0	0	0	0	0	0	Cement	0	0	0	0	0	0
Grain	0	0	0	0	0	0	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	0	0
Steel	0	0	0	0	0	0	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	24	0	0	56	0	80	Machinery	56	0	0	0	32	88
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	1408	45	0	84	32	1569	Other	1064	60	23	56	160	1363
Container	32	0	46	168	32	278	Container	8	60	92	112	32	304

Shongweni (R103 Durban to Pietermaritzburg)													
Freight Tonnage by Commodity by Vehicle Class (24 Hours)												Date: 13-09-2023	
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	58	0	0	68	39	165	Fuel / Chemicals	29	0	28	68	39	163
Cars Carrier	68	0	0	0	0	68	Cars Carrier	126	18	0	0	0	144
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	3669	18	83	169	774	4714	Covered Load / Sail or Tarp	3582	73	0	136	465	4254
Sand / Stone	87	109	0	0	0	196	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	39	0	0	0	0	39	People	10	0	0	0	0	10
Cement	0	0	0	0	0	0	Cement	0	0	0	0	0	0
Grain	0	0	0	0	0	0	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	0	0
Steel	0	0	0	0	0	0	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	29	0	0	68	0	97	Machinery	68	0	0	0	39	106
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	1704	54	0	102	39	1898	Other	1287	73	28	68	194	1649
Container	39	0	56	203	39	336	Container	10	73	111	136	39	368

Shongweni (R103 Durban to Pietermaritzburg)													
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	21199	0	0	24732	14133	60064	Fuel / Chemicals	10600	0	10158	24732	14133	59623
Cars Carrier	24732	0	0	0	0	24732	Cars Carrier	45932	6625	0	0	0	52556
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	1339083	6625	30474	61831	282656	1720668	Covered Load / Sail or Tarp	1307284	26499	0	49465	169594	1552841
Sand / Stone	31799	39749	0	0	0	71547	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	14133	0	0	0	0	14133	People	3533	0	0	0	0	3533
Cement	0	0	0	0	0	0	Cement	0	0	0	0	0	0
Grain	0	0	0	0	0	0	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	0	0
Steel	0	0	0	0	0	0	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	10600	0	0	24732	0	35332	Machinery	24732	0	0	0	14133	38865
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	621843	19874	0	37099	14133	692949	Other	469916	26499	10158	24732	70664	601969
Container	14133	0	20316	74197	14133	122779	Container	3533	26499	40632	49465	14133	134262

Shongweni (R103 Durban to Pietermaritzburg)													
Twenty Foot Equivalent Unit (TEU) (12 Hours)												Date: 13-09-2023	
Northbound							Southbound						
	1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL		1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL
2 Axle	4					4	2 Axle	1					1
3 Axle						0	3 Axle						0
4 Axle						0	4 Axle	1			3		7
5 Axle	4					4	5 Axle				4		8
6 Axle		1		5		12	6 Axle				4		8
≥ 7 Axle				1		2	≥ 7 Axle					1	3
TOTAL						22	TOTAL						27

Shongweni (R103 Durban to Pietermaritzburg)													
Twenty Foot Equivalent Unit (TEU) (24 Hours)												Date: 13-09-2023	
Northbound							Southbound						
	1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL		1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL
2 Axle	5	0	0	0	0	5	2 Axle	1	0	0	0	0	1
3 Axle	0	0	0	0	0	0	3 Axle	0	0	0	0	0	0
4 Axle	0	0	0	0	0	0	4 Axle	1	0	0	4	0	8
5 Axle	5	0	0	0	0	5	5 Axle	0	0	0	5	0	10
6 Axle	0	1	0	6	0	15	6 Axle	0	0	0	5	0	10
≥ 7 Axle	0	0	0	1	0	2	≥ 7 Axle	0	0	0	0	1	4
TOTAL						27	TOTAL						33

Shongweni (R103 Durban to Pietermaritzburg)													
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	1767	0	0	0	0	1767	2 Axle	442	0	0	0	0	442
3 Axle	0	0	0	0	0	0	3 Axle	0	0	0	0	0	0
4 Axle	0	0	0	0	0	0	4 Axle	442	0	0	1325	0	3092
5 Axle	1767	0	0	0	0	1767	5 Axle	0	0	0	1767	0	3533
6 Axle	0	442	0	2208	0	5300	6 Axle	0	0	0	1767	0	3533
≥ 7 Axle	0	0	0	442	0	883	≥ 7 Axle	0	0	0	0	442	1325
TOTAL						9716	TOTAL						11925