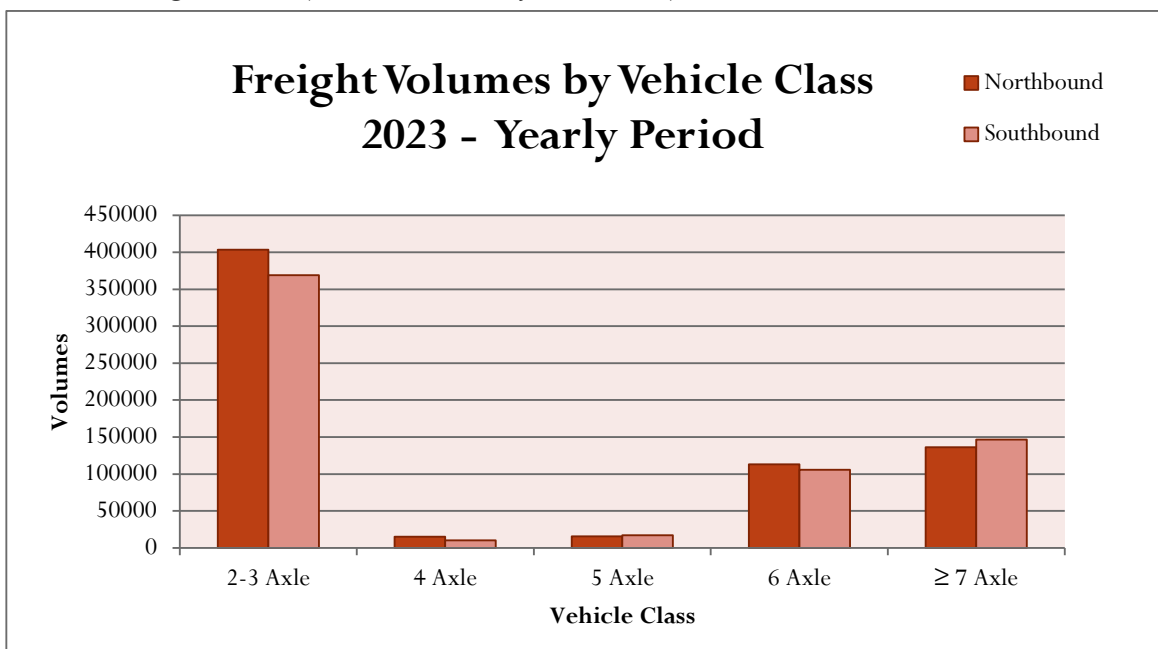
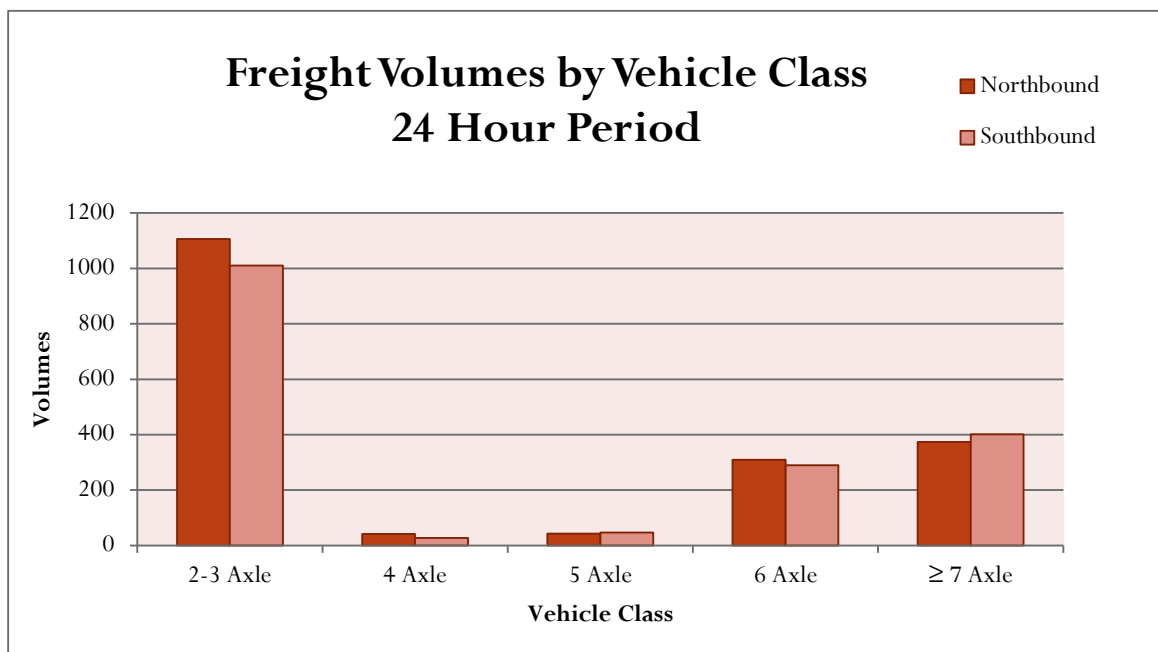
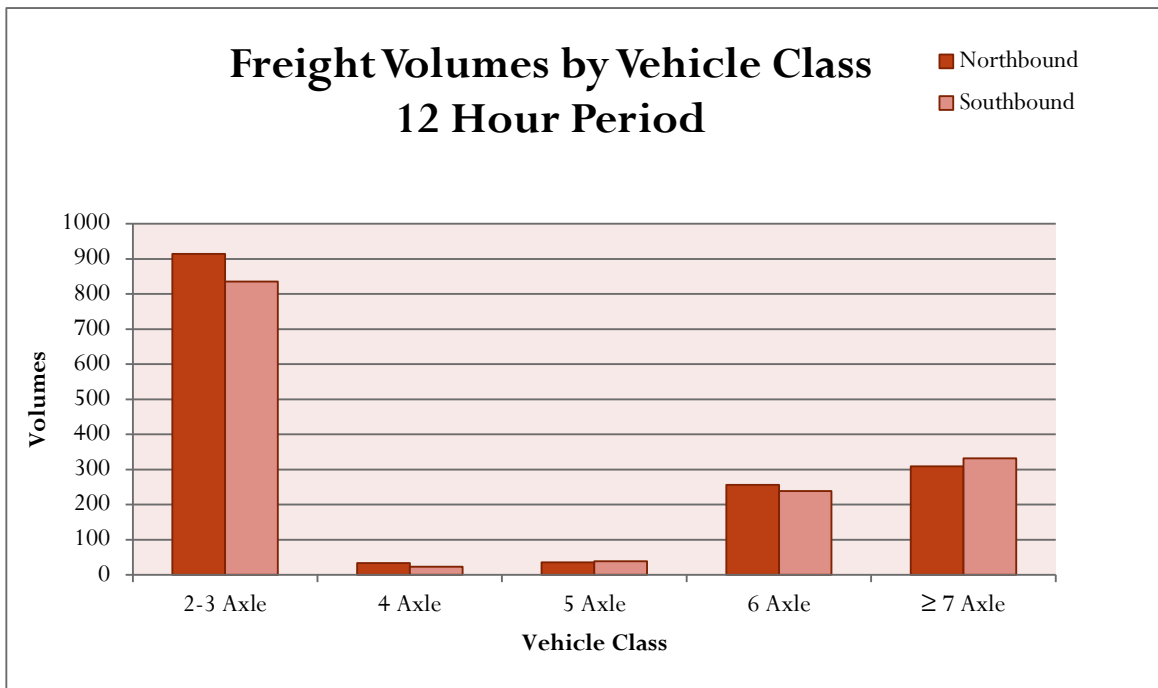
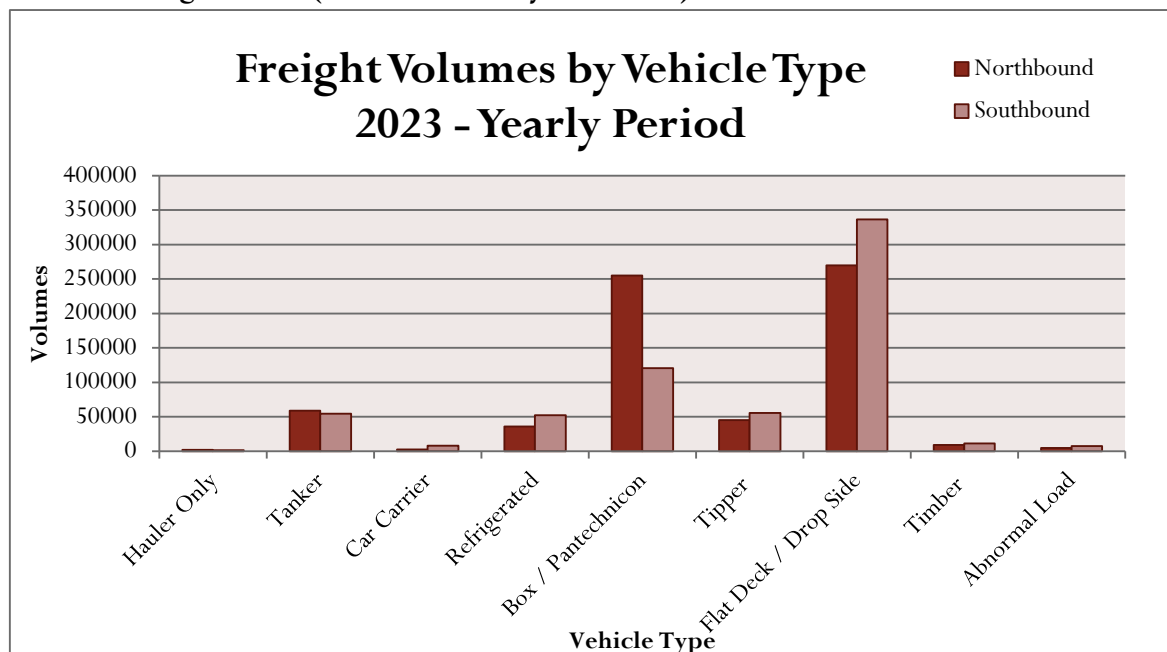
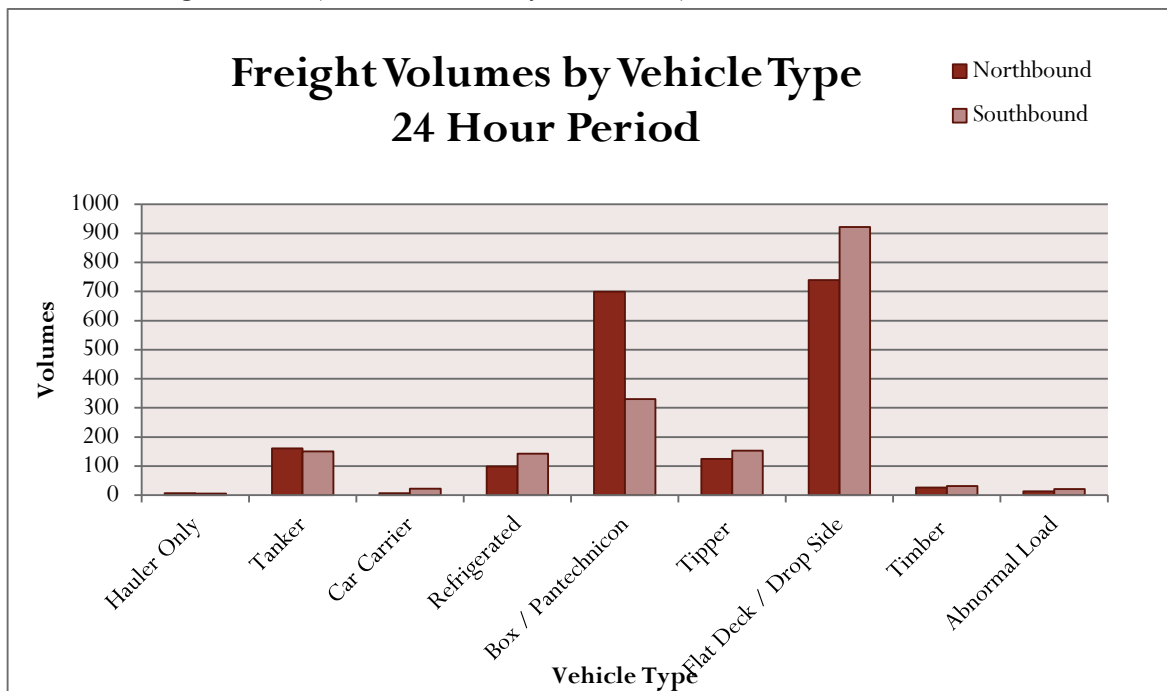
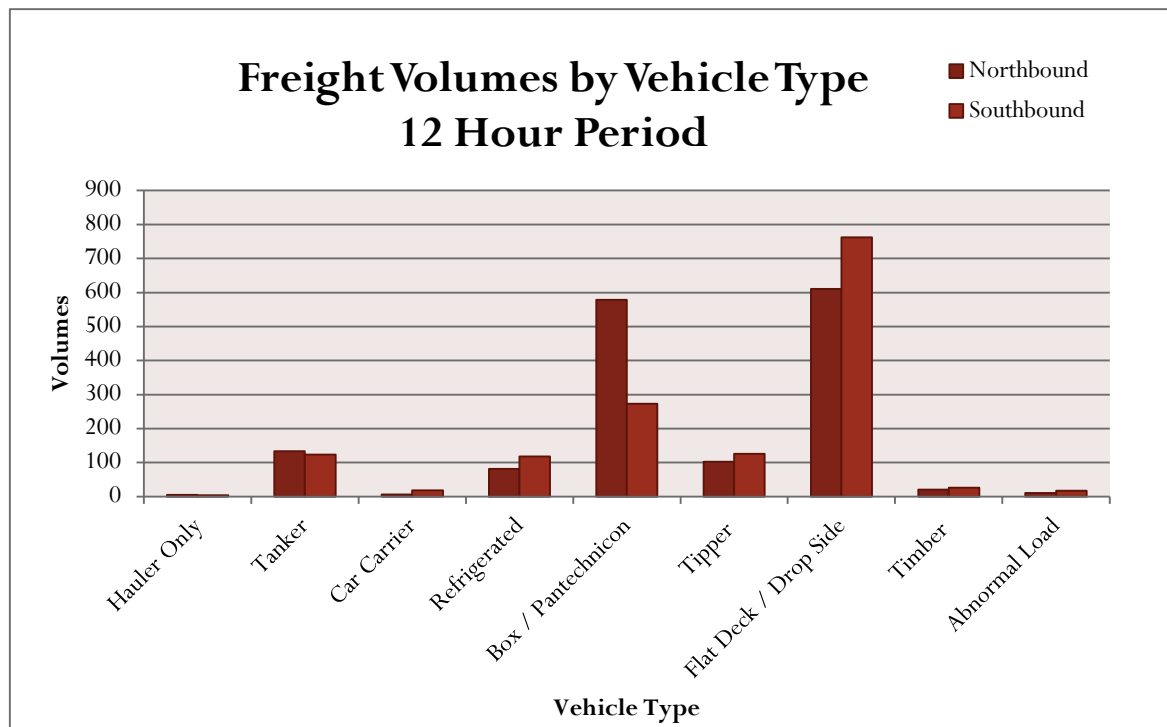


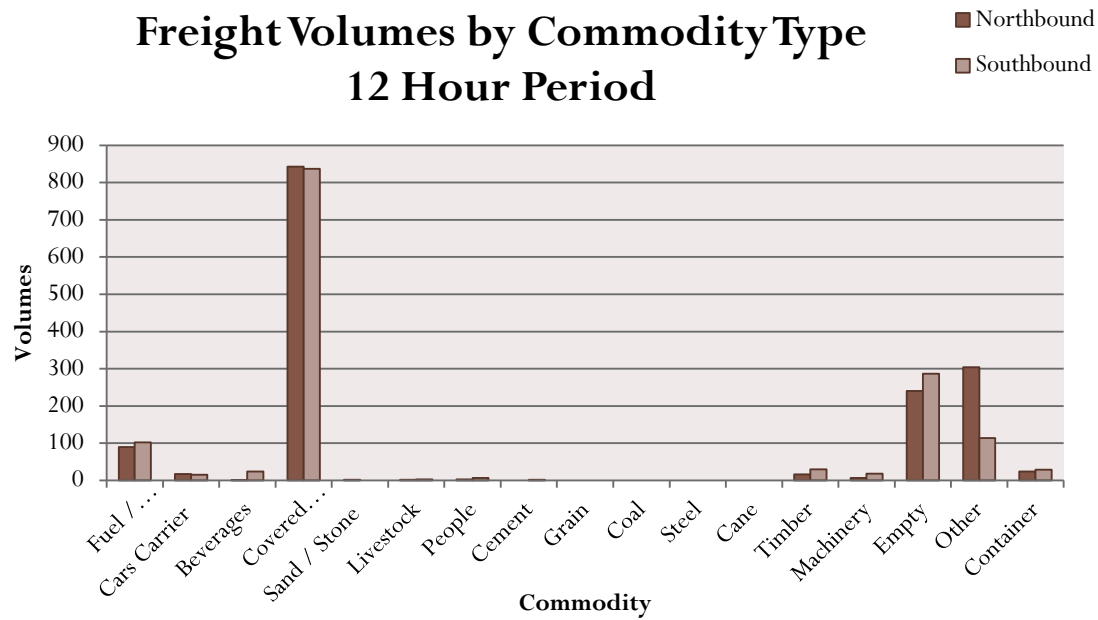
TRAFFIC HIGHLIGHTS OF SITE 2204				
1.1	Site Identifier	2204		
1.2	Site Name	Tongaat North NB 1		
1.3	Site Description	Northern Ramps of Watson Highway I/C (NB Only)		
1.4	Road Description	Route : N002 Road : N002 Section : 26 Distance : 21.9km		
1.5	GPS Position	31 08 40.6E -29 34 51.1S		
1.6	Number of Lanes	4		
1.7	Station Type	Permanent Toll		
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)	8519		
1.12	Percentage good data available for requested period	97.3		
		On Ramp to Richards Bay	To Richards Bay	Total
2.1a	Total number of vehicles (counted)	1525178	6324014	7849192
2.1b	Total number of vehicles (projected for period)	1568176	6355819	7923995
2.2	Average daily traffic (ADT)	4296	17413	21710
2.3	Average daily truck traffic (ADTT)	161	2122	2282
2.4	Percentage of trucks	3.7	12.2	10.5
2.5	Truck split % (short:medium:long)	71 : 13 : 16	45 : 17 : 38	48 : 16 : 36
2.6	Percentage of night traffic (20:00 - 06:00)	6.4	10.5	9.7
3.1	Speed limit (km/hr)			120
3.2	Average speed (km/hr)	58.5	104.0	95.1
3.3	Average speed - light vehicles (km/hr)	59.0	106.8	96.8
3.4	Average speed - heavy vehicles (km/hr)	45.6	83.8	81.1
3.5	Average night speed (km/hr)	58.1	99.7	94.4
3.6	15th centile speed (km/hr)	48.8	85.9	63.9
3.7	85th centile speed (km/hr)	69.0	121.0	119.0
3.8	Percentage vehicles in excess of speed limit	0.0	16.0	12.8
4.1	Percentage vehicles in flows over 600 vehicles/hr	8.6	86.4	89.4
4.2	Highest volume on the road (vehicles/hr)		2022/12/23 13:00:00	3379
4.3	Highest volume in the North (vehs/hr)		2022/12/23 13:00:00	1320
4.4	Highest volume in the North (vehs/hr)		2022/12/15 16:00:00	2314
4.5	Highest volume in a lane (vehicles/hr)		2022/12/15 16:00:00	1512
4.6	15th highest volume on the road (vehicles/hr)		2022/09/23 16:00:00	2490
4.7	15th highest volume in the North direction (vehs/hr)		2022/05/05 08:00:00	948
4.8	15th highest volume in the North direction (vehs/hr)		2022/12/09 17:00:00	2055
4.9	30th highest volume on the road (vehicles/hr)		2022/08/05 16:00:00	2432
4.10	30th highest volume in the North direction (vehs/hr)		2022/06/10 08:00:00	879
4.11	30th highest volume in the North direction (vehs/hr)		2022/06/15 17:00:00	1972
5.1	Percentage of vehicles less than 2s behind vehicle ahead			
6.1	Total number of heavy vehicles (projected for period)	58609	774420	833029
6.2	Estimated average number of axles per truck	3.2	4.4	4.3
6.3	Estimated truck mass (Ton/truck)	18.3	25.3	24.8
6.4	Estimated average E80/truck	1.1	1.5	1.5
6.5	Estimated daily E80 on the road			3401
6.6	Estimated daily E80 in the North direction			175
6.7	Estimated daily E80 in the North direction			3226
6.8	Estimated daily E80 in the worst North lane			175
6.9	Estimated daily E80 in the worst North lane			2900
6.10	ASSUMPTION on Axles/Truck (Short:Medium:Long)			(2.0 : 5.0 : 7.0)
6.11	ASSUMPTION on Mass/Truck (Short:Medium:Long)			(10.9 : 31.5 : 39.8)
6.12	ASSUMPTION on E80s/Truck (Short:Medium:Long)			(0.6 : 2.5 : 2.1)

TRAFFIC HIGHLIGHTS OF SITE 2207			
1.1	Site Identifier	2207	
1.2	Site Name	Tongaat North SB 2	
1.3	Site Description	Northern Ramps of Watson Highway I/C (SB Only)	
1.4	Road Description	Route : N002 Road : N002 Section : 26 Distance : 21.9km	
1.5	GPS Position	31 08 43.1E -29 34 50.4S	
1.6	Number of Lanes	4	
1.7	Station Type	Permanent Toll	
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)	8736	
1.12	Percentage good data available for requested period	99.7	
		To LOff Ramp to Watson Highway	Total
2.1a	Total number of vehicles (counted)	6484859	7902849
2.1b	Total number of vehicles (projected for period)	6485621	7907348
2.2	Average daily traffic (ADT)	17769	21664
2.3	Average daily truck traffic (ADTT)	1956	2147
2.4	Percentage of trucks	11.0	9.9
2.5	Truck split % (short:medium:long)	41 : 18 : 41	43 : 18 : 39
2.6	Percentage of night traffic (20:00 - 06:00)	9.6	9.2
3.1	Speed limit (km/hr)		120
3.2	Average speed (km/hr)	99.7	93.4
3.3	Average speed - light vehicles (km/hr)	102.6	95.5
3.4	Average speed - heavy vehicles (km/hr)	76.7	74.6
3.5	Average night speed (km/hr)	97.9	93.2
3.6	15th centile speed (km/hr)	80.9	68.9
3.7	85th centile speed (km/hr)	117.0	116.0
3.8	Percentage vehicles in excess of speed limit	10.3	8.5
4.1	Percentage vehicles in flows over 600 vehicles/hr	87.8	90.4
4.2	Highest volume on the road (vehicles/hr)	2022/07/15 17:00:00	2563
4.3	Highest volume in the South (vehs/hr)	2022/07/15 16:00:00	2051
4.4	Highest volume in the South (vehs/hr)	2022/05/02 17:00:00	757
4.5	Highest volume in a lane (vehicles/hr)	2022/07/15 16:00:00	1419
4.6	15th highest volume on the road (vehicles/hr)	2022/12/09 17:00:00	2483
4.7	15th highest volume in the South direction (vehs/hr)	2022/12/23 16:00:00	1945
4.8	15th highest volume in the South direction (vehs/hr)	2022/05/20 17:00:00	679
4.9	30th highest volume on the road (vehicles/hr)	2022/09/09 17:00:00	2413
4.10	30th highest volume in the South direction (vehs/hr)	2022/05/30 08:00:00	1898
4.11	30th highest volume in the South direction (vehs/hr)	2022/06/06 17:00:00	640
5.1	Percentage of vehicles less than 2s behind vehicle ahead		
6.1	Total number of heavy vehicles (projected for period)	713899	783795
6.2	Estimated average number of axles per truck	4.6	4.5
6.3	Estimated truck mass (Ton/truck)	26.5	25.9
6.4	Estimated average E80/truck	1.6	1.5
6.5	Estimated daily E80 on the road		3289
6.6	Estimated daily E80 in the South direction		3065
6.7	Estimated daily E80 in the South direction		224
6.8	Estimated daily E80 in the worst South lane		2823
6.9	Estimated daily E80 in the worst South lane		224
6.10	ASSUMPTION on Axles/Truck (Short:Medium:Long)		(2.0 : 5.0 : 7.0)
6.11	ASSUMPTION on Mass/Truck (Short:Medium:Long)		(10.9 : 31.5 : 39.8)
6.12	ASSUMPTION on E80s/Truck (Short:Medium:Long)		(0.6 : 2.5 : 2.1)

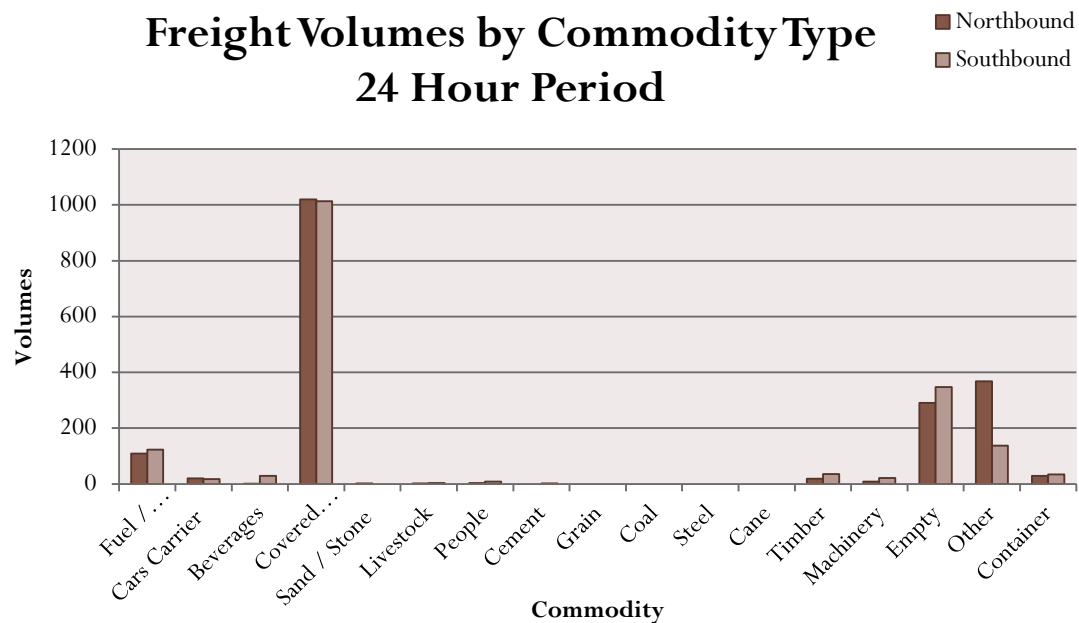




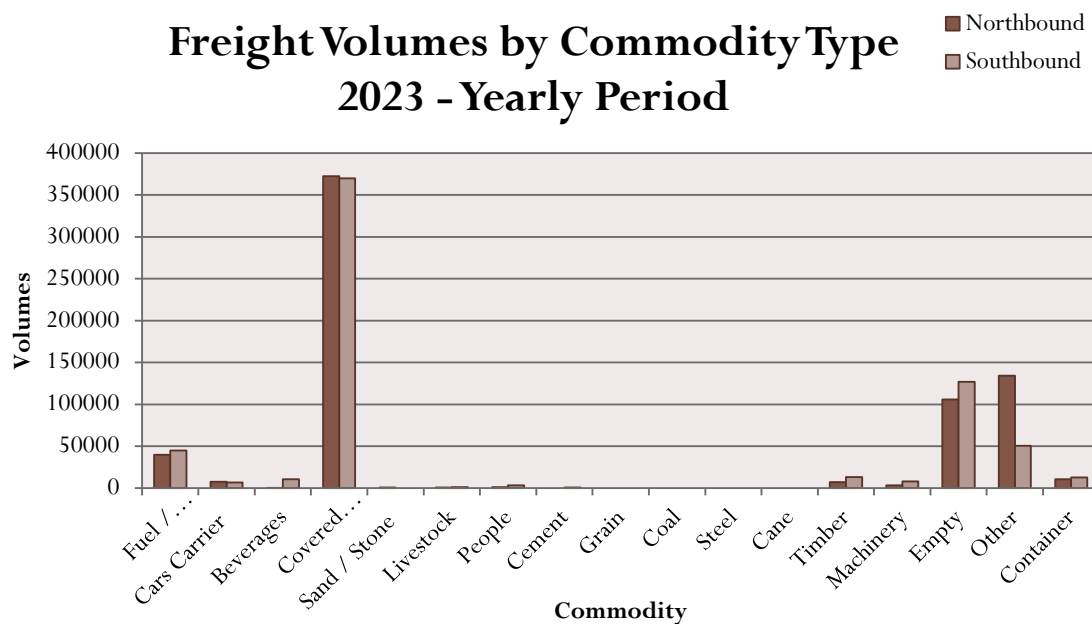
### Freight Volumes by Commodity Type 12 Hour Period

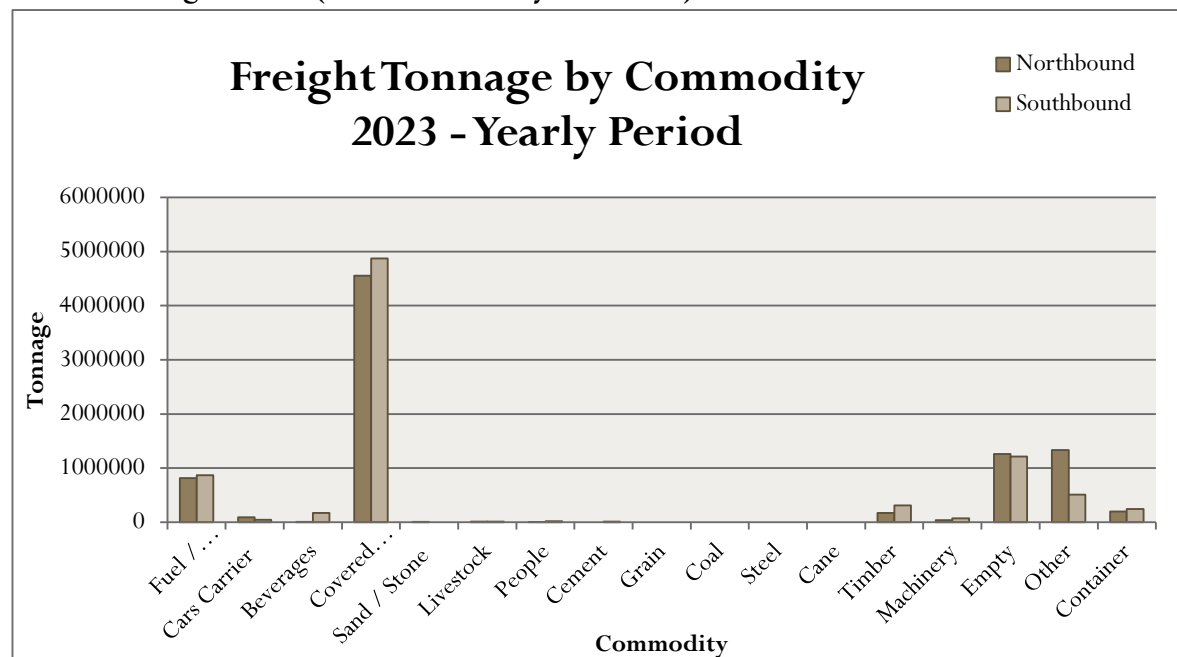
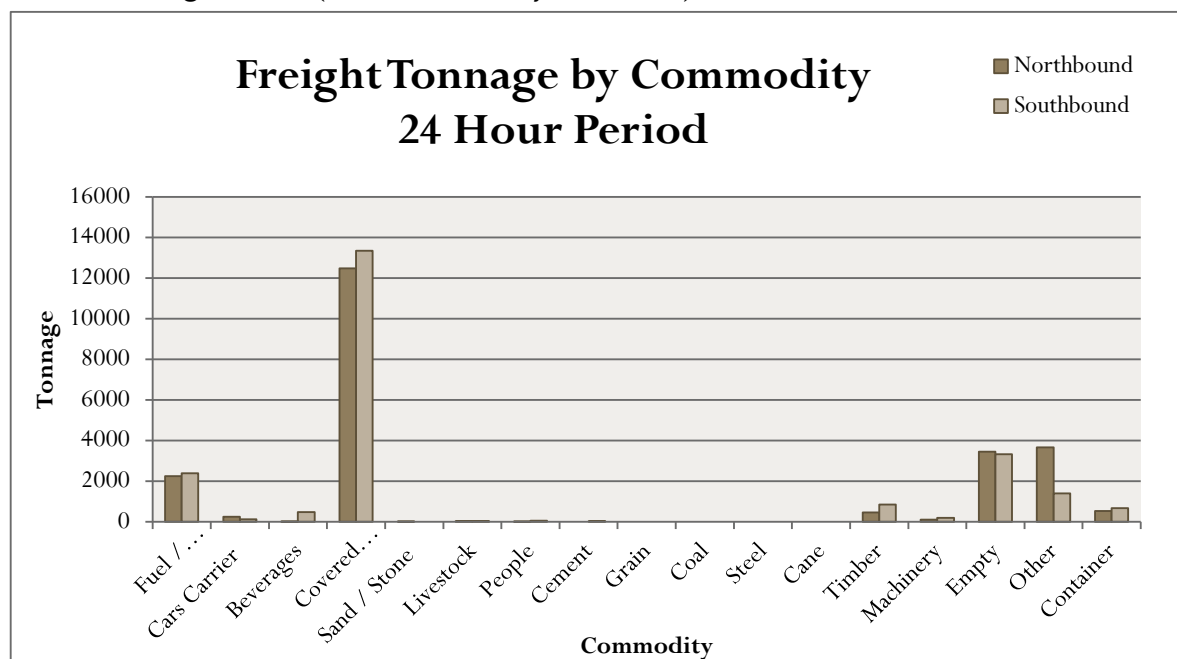
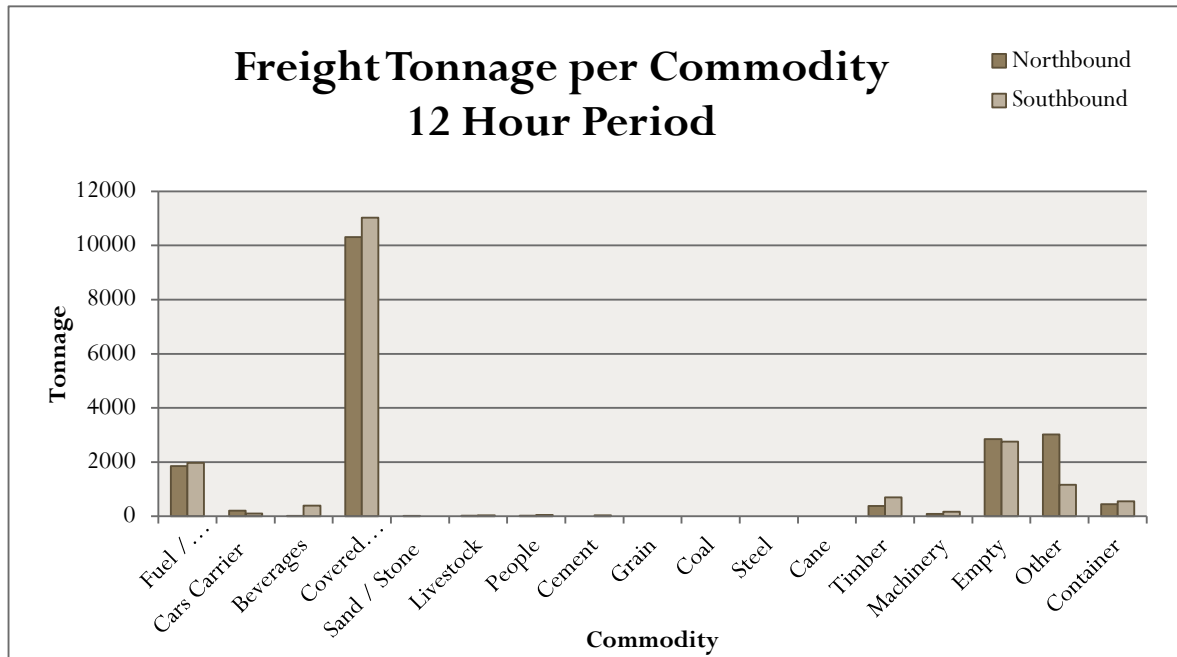


### Freight Volumes by Commodity Type 24 Hour Period



### Freight Volumes by Commodity Type 2023 - Yearly Period





Tongaat Main (N002 Richardsbay to Durban)													
Freight Tonnage by Commodity by Vehicle Class (12 Hours)													Date: 22-11-2023
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	6	10	0	1460	375	1851	Fuel / Chemicals	48	10	45	1540	325	1968
Cars Carrier	24	80	0	80	25	209	Cars Carrier	84	10	0	0	0	94
Beverages	6	0	0	0	0	6	Beverages	48	0	45	100	200	393
Covered Load / Sail or Tarp	3144	150	315	1500	5200	10309	Covered Load / Sail or Tarp	2880	110	210	1880	5950	11030
Sand / Stone	12	0	0	0	0	12	Sand / Stone	0	0	0	0	0	0
Livestock	6	0	0	20	0	26	Livestock	12	0	15	0	0	27
People	18	0	0	0	0	18	People	42	0	0	0	0	42
Cement	0	0	0	0	0	0	Cement	6	0	0	0	25	31
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	6	0	0	0	375	381	Timber	12	0	0	60	625	697
Machinery	24	0	0	60	0	84	Machinery	84	0	0	80	0	164
Empty	900	40	45	840	1025	2850	Empty	1296	80	135	440	800	2751
Other	1332	40	135	840	675	3022	Other	486	20	75	300	275	1156
Container	6	20	45	320	50	441	Container	12	0	60	380	100	552

Tongaat Main (N002 Richardsbay to Durban)													
Freight Tonnage by Commodity by Vehicle Class (24 Hours)												Date: 22-11-2023	
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	7	12	0	1767	454	2240	Fuel / Chemicals	58	12	54	1863	393	2381
Cars Carrier	29	97	0	97	30	253	Cars Carrier	102	12	0	0	0	114
Beverages	7	0	0	0	0	7	Beverages	58	0	54	121	242	476
Covered Load / Sail or Tarp	3804	182	381	1815	6292	12474	Covered Load / Sail or Tarp	3485	133	254	2275	7200	13346
Sand / Stone	15	0	0	0	0	15	Sand / Stone	0	0	0	0	0	0
Livestock	7	0	0	24	0	31	Livestock	15	0	18	0	0	33
People	22	0	0	0	0	22	People	51	0	0	0	0	51
Cement	0	0	0	0	0	0	Cement	7	0	0	0	30	38
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	7	0	0	0	454	461	Timber	15	0	0	73	756	843
Machinery	29	0	0	73	0	102	Machinery	102	0	0	97	0	198
Empty	1089	48	54	1016	1240	3449	Empty	1568	97	163	532	968	3329
Other	1612	48	163	1016	817	3657	Other	588	24	91	363	333	1399
Container	7	24	54	387	61	534	Container	15	0	73	460	121	668

Tongaat Main (N002 Richardsbay to Durban)													
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	2650	4417	0	644809	165619	817494	Fuel / Chemicals	21199	4417	19874	680141	143536	869167
Cars Carrier	10600	35332	0	35332	11041	92305	Cars Carrier	37099	4417	0	0	0	41515
Beverages	2650	0	0	0	0	2650	Beverages	21199	0	19874	44165	88330	173568
Covered Load / Sail or Tarp	1388548	66248	139120	662475	2296580	4552970	Covered Load / Sail or Tarp	1271952	48582	92747	830302	2627818	4871400
Sand / Stone	5300	0	0	0	0	5300	Sand / Stone	0	0	0	0	0	0
Livestock	2650	0	0	8833	0	11483	Livestock	5300	0	6625	0	0	11925
People	7950	0	0	0	0	7950	People	18549	0	0	0	0	18549
Cement	0	0	0	0	0	0	Cement	2650	0	0	0	11041	13691
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	2650	0	0	0	165619	168269	Timber	5300	0	0	26499	276031	307830
Machinery	10600	0	0	26499	0	37099	Machinery	37099	0	0	35332	0	72431
Empty	397485	17666	19874	370986	452691	1258703	Empty	572378	35332	59623	194326	353320	1214979
Other	588278	17666	59623	370986	298114	1334666	Other	214642	8833	33124	132495	121454	510547
Container	2650	8833	19874	141328	22083	194768	Container	5300	0	26499	167827	44165	243791

Tongaat Main (N002 Richardsbay to Durban)													
Twenty Foot Equivalent Unit (TEU) (12 Hours)											Date: 22-11-2023		
Northbound							Southbound						
	1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL		1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL
2 Axle						0	2 Axle						0
3 Axle	1					1	3 Axle	2					2
4 Axle		1		1		4	4 Axle						0
5 Axle				3		6	5 Axle	2			2		6
6 Axle	1			15		31	6 Axle	8			11		30
≥ 7 Axle				1	1	5	≥ 7 Axle	1			1	2	9
TOTAL						47	TOTAL						47

Tongaat Main (N002 Richardsbay to Durban)													
Twenty Foot Equivalent Unit (TEU) (24 Hours)												Date: 22-11-2023	
Northbound							Southbound						
	1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL		1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL
2 Axle	0	0	0	0	0	0	2 Axle	0	0	0	0	0	0
3 Axle	1	0	0	0	0	1	3 Axle	2	0	0	0	0	2
4 Axle	0	1	0	1	0	5	4 Axle	0	0	0	0	0	0
5 Axle	0	0	0	4	0	7	5 Axle	2	0	0	2	0	7
6 Axle	1	0	0	18	0	38	6 Axle	10	0	0	13	0	36
≥ 7 Axle	0	0	0	1	1	6	≥ 7 Axle	1	0	0	1	2	11
TOTAL						57	TOTAL						57

Tongaat Main (N002 Richardsbay to Durban)													
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	0	0	0	0	0	0	2 Axle	0	0	0	0	0	0
3 Axle	442	0	0	0	0	442	3 Axle	883	0	0	0	0	883
4 Axle	0	442	0	442	0	1767	4 Axle	0	0	0	0	0	0
5 Axle	0	0	0	1325	0	2650	5 Axle	883	0	0	883	0	2650
6 Axle	442	0	0	6625	0	13691	6 Axle	3533	0	0	4858	0	13250
≥ 7 Axle	0	0	0	442	442	2208	≥ 7 Axle	442	0	0	442	883	3975
TOTAL						20758	TOTAL						20758