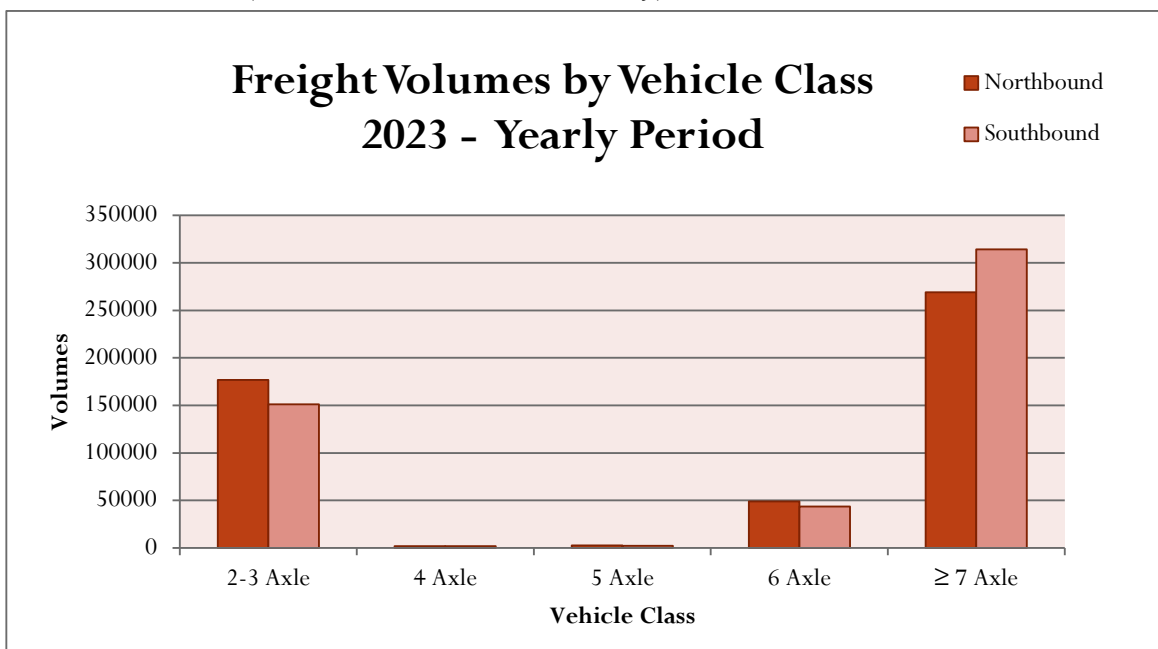
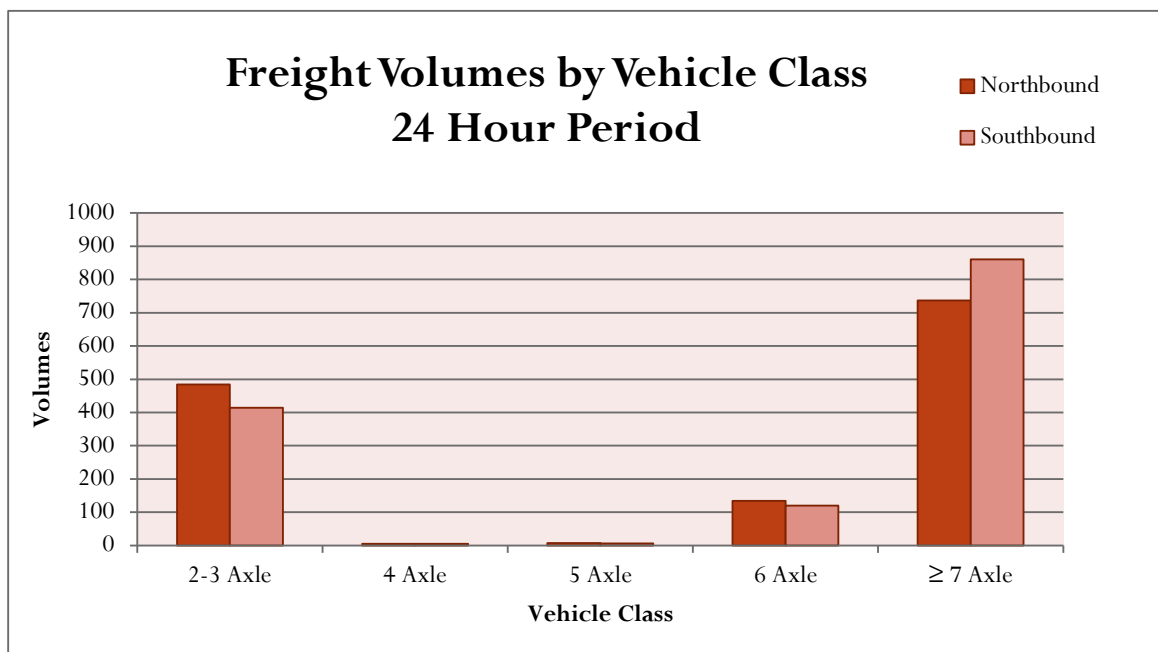
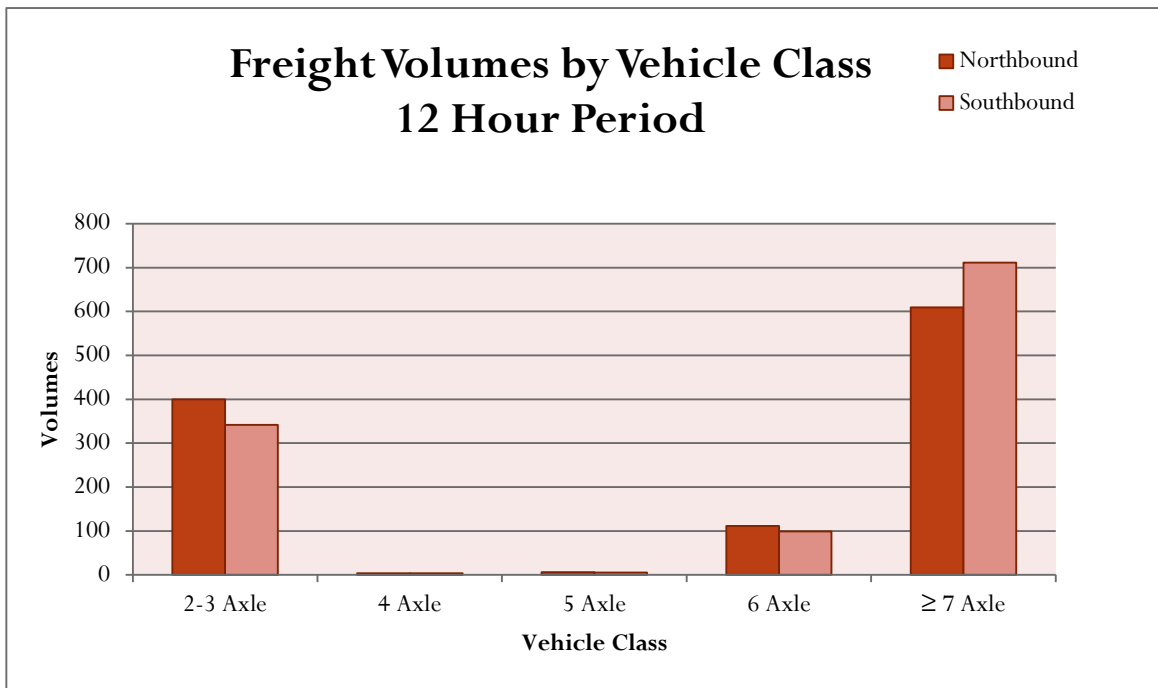


TRAFFIC HIGHLIGHTS OF SITE 1383				
1.1	Site Identifier	1383		
1.2	Site Name	Mtubatuba I/C		
1.3	Site Description	Southern Side of R618 Mtubatuba I/C		
1.4	Road Description	Route : N002 Road : N002 Section : 30 Distance : 8.1km		
1.5	GPS Position	32 10 34.8E -28 23 30.9S		
1.6	Number of Lanes	4		
1.7	Station Type	Permanent Piezo		
1.8	Requested Period	2023/01/01 - 2023/12/31		
1.9	Length of record requested (hours)	8760		
1.10	Actual First & Last Dates	2023/01/01 - 2023/10/31		
1.11	Actual available good data (hours)	7094		
1.12	Percentage good data available for requested period	81.0		
		To Mkuze	To Empangeni	Total
2.1a	Total number of vehicles (counted)	1354690	1341642	2696332
2.1b	Total number of vehicles (projected for period)	1669553	1653499	3323052
2.2	Average daily traffic (ADT)	4574	4530	9104
2.3	Average daily truck traffic (ADTT)	1356	1407	2763
2.4	Percentage of trucks	29.6	31.1	30.4
2.5	Truck split % (short:medium:long)	12 : 5 : 83	12 : 4 : 84	11 : 5 : 84
2.6	Percentage of night traffic (20:00 - 06:00)	15.3	17.4	16.4
3.1	Speed limit (km/hr)	80		
3.2	Average speed (km/hr)	81.3	78.1	79.7
3.3	Average speed - light vehicles (km/hr)	84.3	81.5	82.9
3.4	Average speed - heavy vehicles (km/hr)	74.3	70.5	72.4
3.5	Average night speed (km/hr)	80.5	76.3	78.3
3.6	15th centile speed (km/hr)	66.9	61.9	63.9
3.7	85th centile speed (km/hr)	99.0	98.0	99.0
3.8	Percentage vehicles in excess of speed limit	44.2	36.9	40.6
4.1	Percentage vehicles in flows over 600 vehicles/hr	0.0	0.2	28.8
4.2	Highest volume on the road (vehicles/hr)	2023/04/10 16:00:00 1055		
4.3	Highest volume in the North (vehs/hr)	2023/04/06 17:00:00 538		
4.4	Highest volume in the South (vehs/hr)	2023/04/10 14:00:00 690		
4.5	Highest volume in a lane (vehicles/hr)	2023/04/10 16:00:00 534		
4.6	15th highest volume on the road (vehicles/hr)	2023/05/01 13:00:00 898		
4.7	15th highest volume in the North direction (vehs/hr)	2023/01/16 08:00:00 481		
4.8	15th highest volume in the South direction (vehs/hr)	2023/10/08 16:00:00 530		
4.9	30th highest volume on the road (vehicles/hr)	2023/04/28 18:00:00 860		
4.10	30th highest volume in the North direction (vehs/hr)	2023/01/16 07:00:00 464		
4.11	30th highest volume in the South direction (vehs/hr)	2023/08/06 18:00:00 486		
5.1	Percentage of vehicles less than 2s behind vehicle ahead	13.7	15.4	14.6
6.1	Total number of heavy vehicles (projected for period)	495017	513620	1008637
6.2	Estimated average number of axles per truck	6.3	6.3	6.3
6.3	Estimated truck mass (Ton/truck)	36.0	36.2	36.1
6.4	Estimated average E80/truck	1.9	1.9	1.9
6.5	Estimated daily E80 on the road	5381		
6.6	Estimated daily E80 in the North direction	2639		
6.7	Estimated daily E80 in the South direction	2742		
6.8	Estimated daily E80 in the worst North lane	2510		
6.9	Estimated daily E80 in the worst South lane	2626		
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)		

L/H/Volume Report

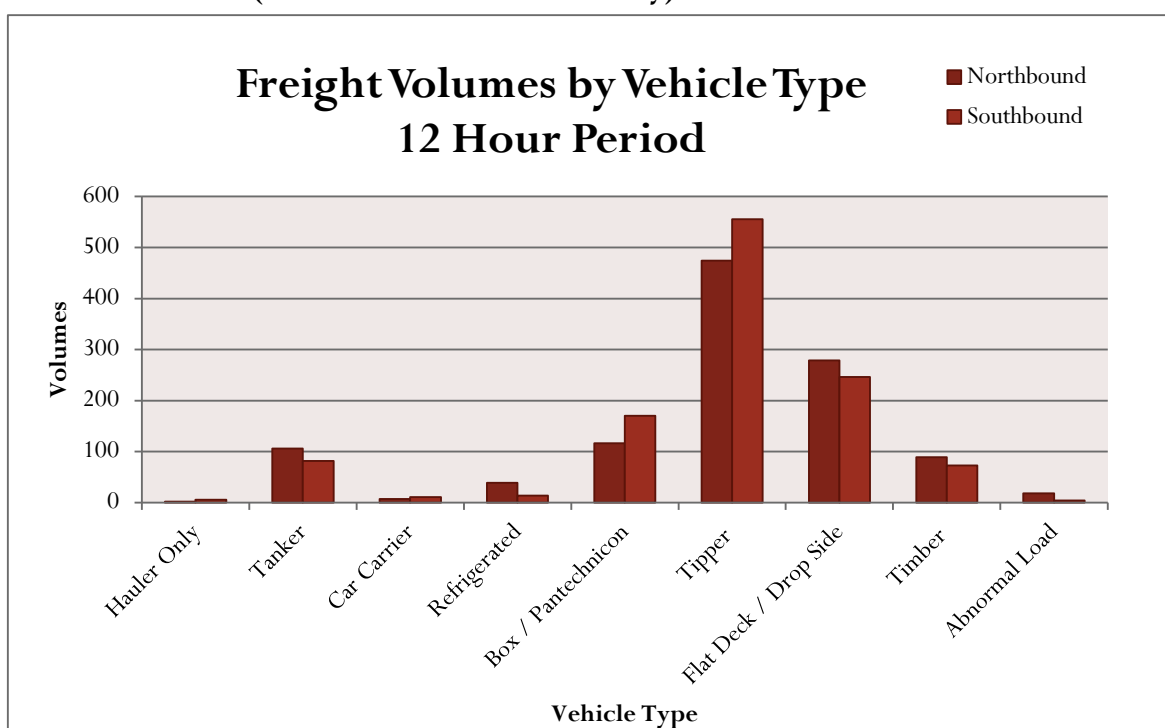
Date : 2023/10/02
Site : 1383 - Mtubatuba I/C
Description : Southern Side of R618 Mtubatuba I/C

Date	Time	Dur.	Lane 1			Lane 2			Lane 3			Lane 4			N002-30 KM8.1		
			Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total
231002	00:00	24:00	1220	101	1321	2153	1085	3238	2099	1024	3123	1279	91	1370	6751	2301	9052
231003	00:00	24:00	1142	95	1237	1810	1269	3079	1751	1162	2913	1116	106	1222	5819	2632	8451
231004	00:00	24:00	1192	97	1289	1938	1225	3163	1741	1288	3029	1167	98	1265	6038	2708	8746
231005	00:00	24:00	1149	95	1244	2046	1267	3313	1911	1361	3272	1208	116	1324	6314	2839	9153
231006	00:00	24:00	1417	92	1509	2714	1476	4190	2213	1368	3581	1302	108	1410	7646	3044	10690
231007	00:00	24:00	1509	85	1594	2069	1357	3426	2046	1404	3450	769	49	818	6393	2895	9288
231008	00:00	24:00	1480	58	1538	2089	1466	3555	2685	1526	4211	1470	57	1527	7724	3107	10831



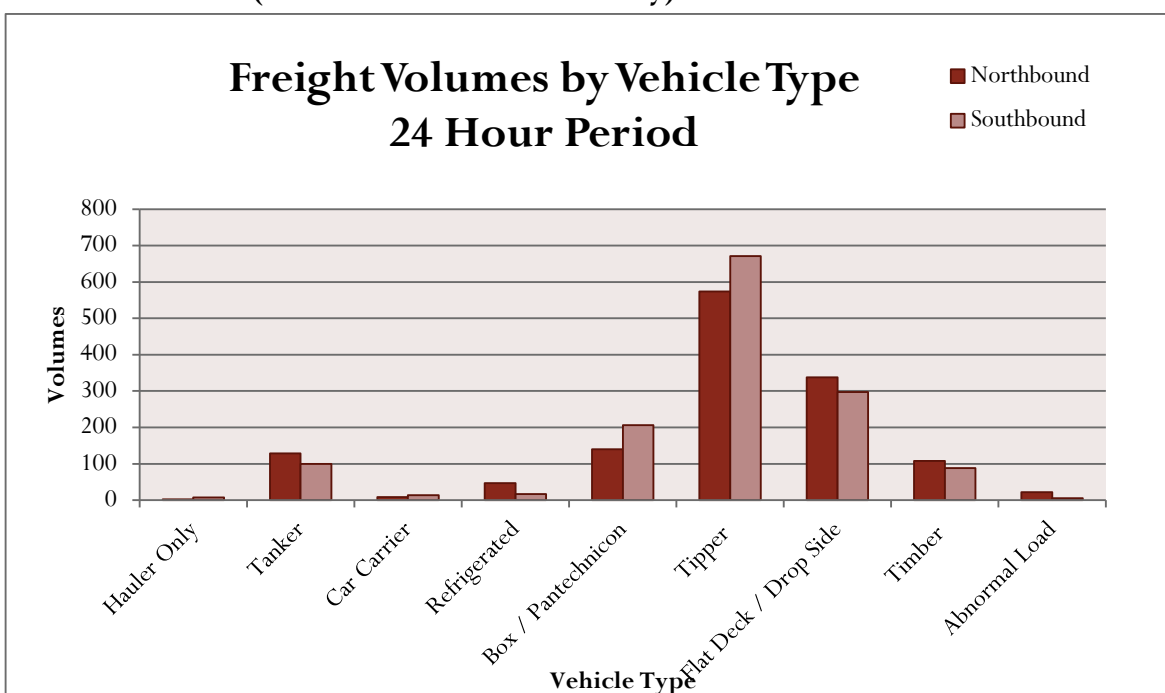
Enseleni (N002 Mtubatuba to Richardsbay)

Date: 27-09-2023

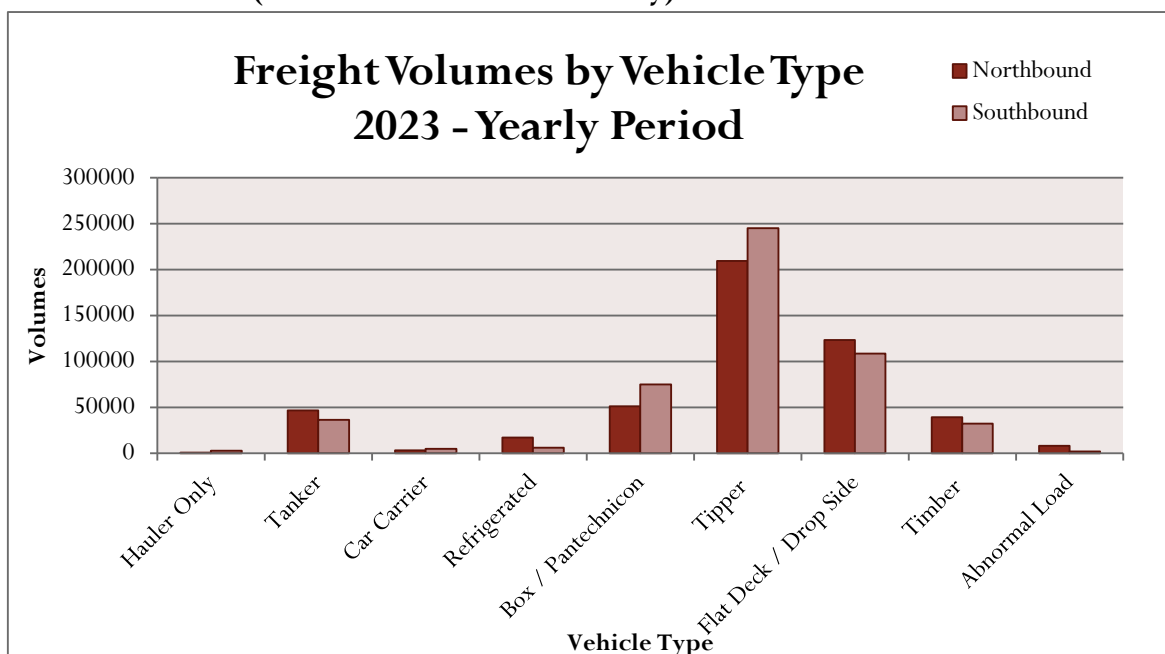


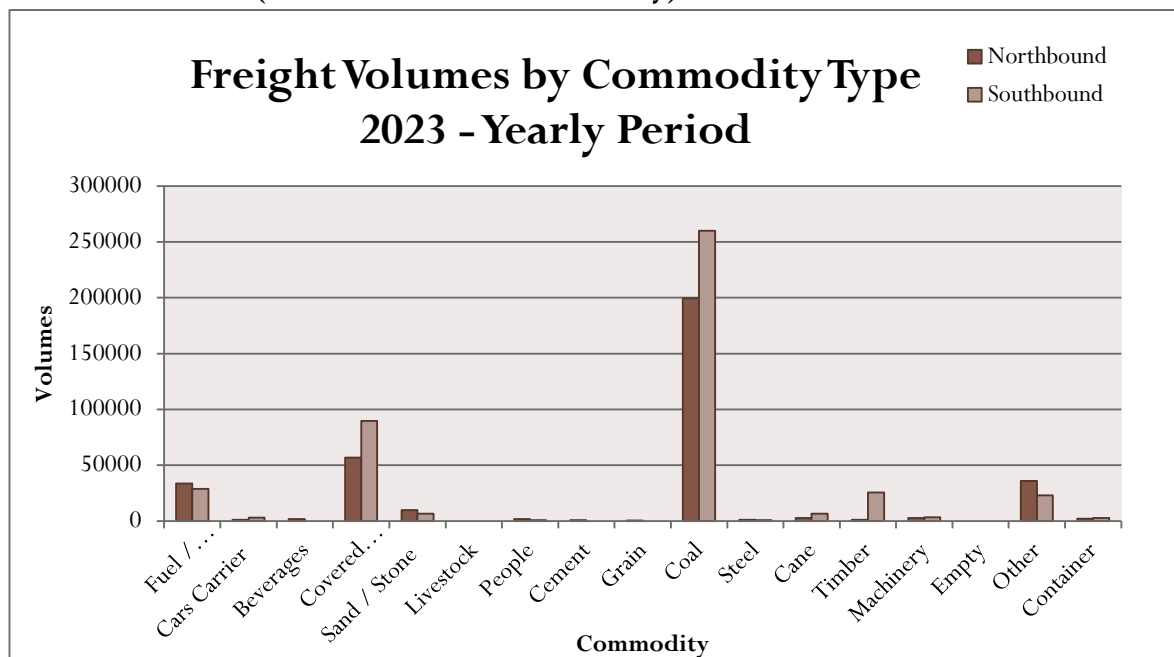
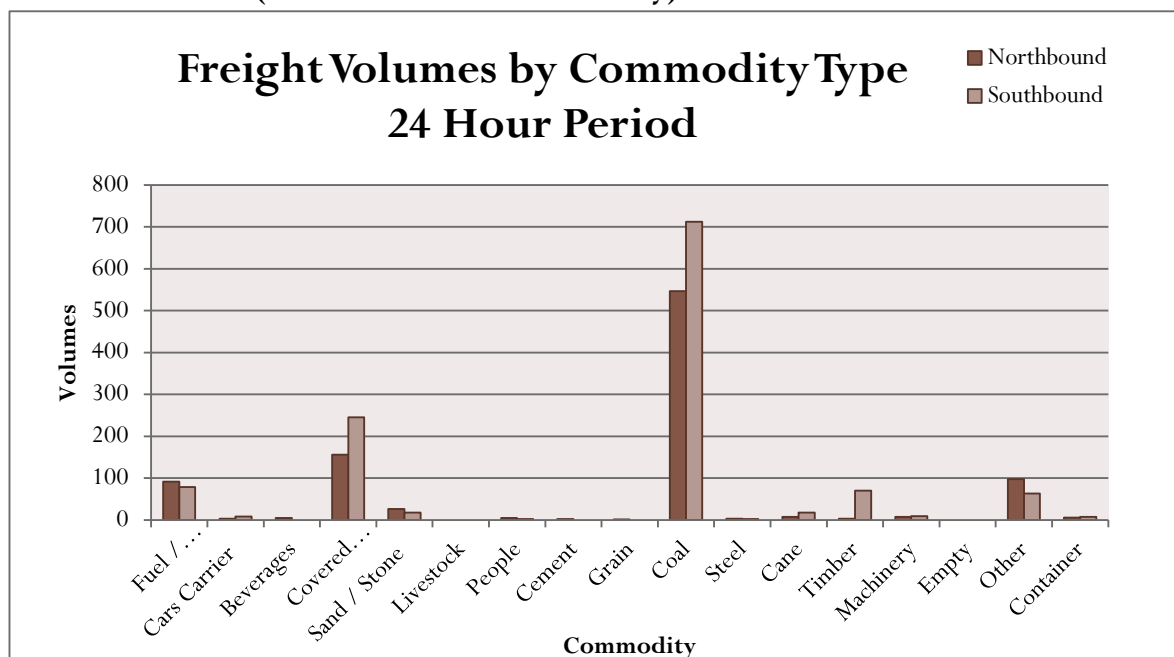
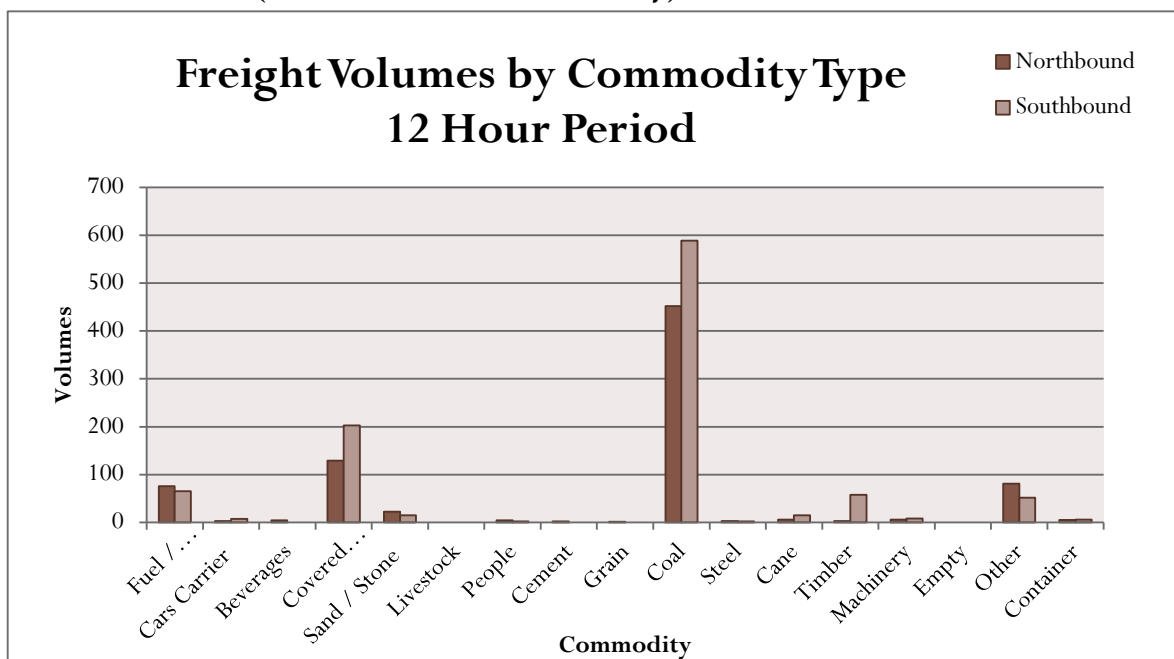
Enseleni (N002 Mtubatuba to Richardsbay)

Date: 27-09-2023



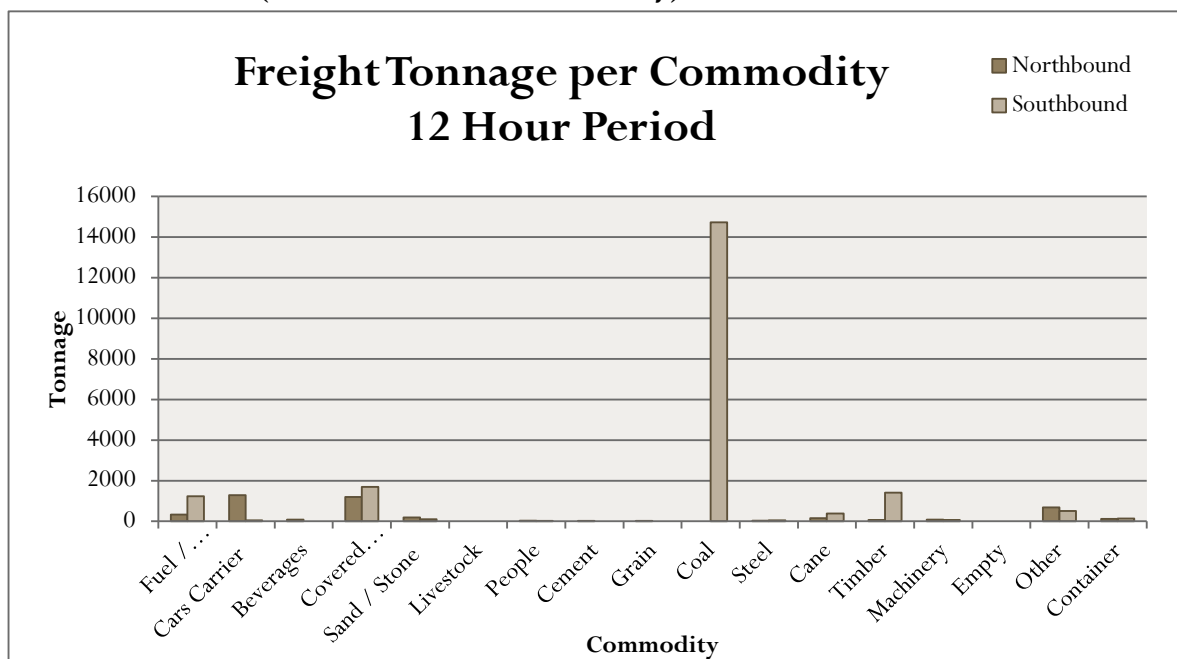
Enseleni (N002 Mtubatuba to Richardsbay)





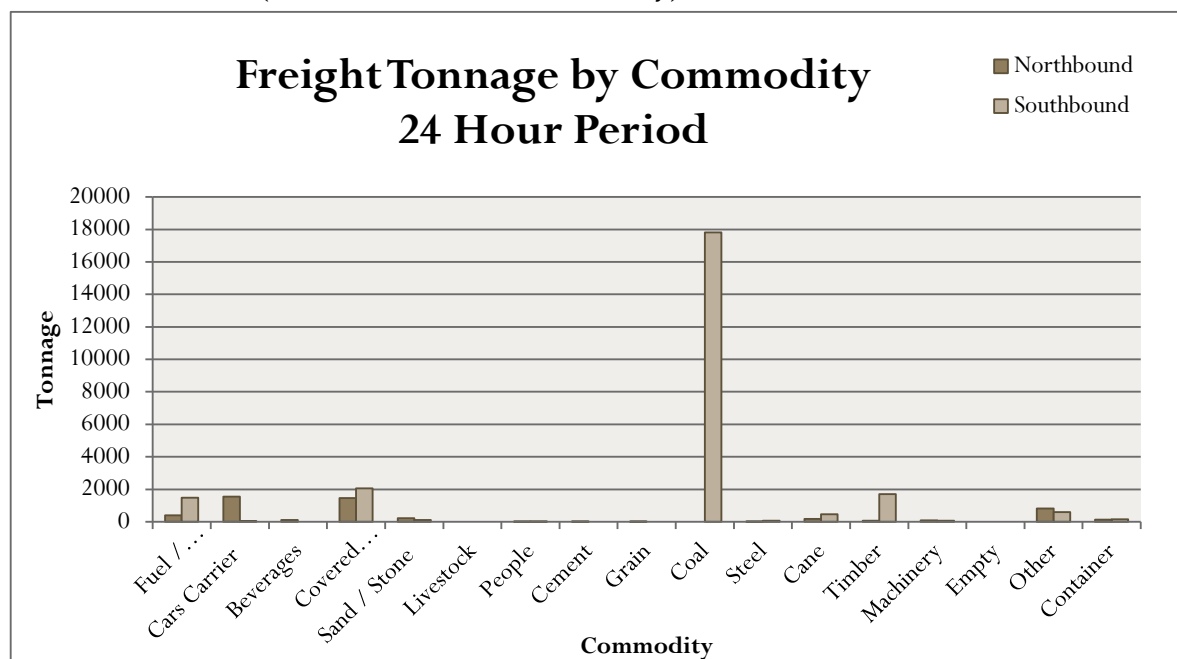
Enseleni (N002 Mtubatuba to Richardsbay)

Date: 27-09-2023

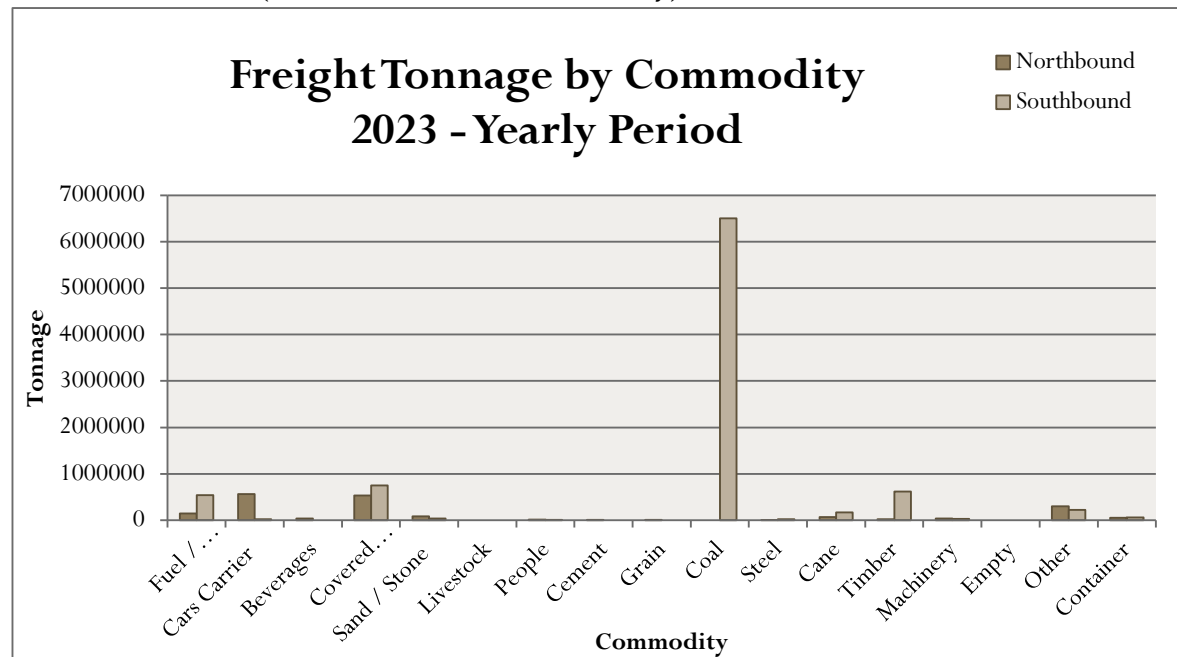


Enseleni (N002 Mtubatuba to Richardsbay)

Date: 27-09-2023



Enseleni (N002 Mtubatuba to Richardsbay)



Enseleni (N002 Mtubatuba to Richardsbay)													
Freight Tonnage by Commodity by Vehicle Class (12 Hours)												Date: 27-09-2023	
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	0	0	0	0	325	325	Fuel / Chemicals	54	0	0	920	250	1224
Cars Carrier	12	10	0	1260	0	1282	Cars Carrier	42	0	0	0	0	42
Beverages	0	0	0	60	25	85	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	588	10	0	600	0	1198	Covered Load / Sail or Tarp	1008	10	15	660	0	1693
Sand / Stone	102	0	60	0	25	187	Sand / Stone	90	0	0	0	0	90
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	24	0	0	0	0	24	People	12	0	0	0	0	12
Cement	12	0	0	0	0	12	Cement	0	0	0	0	0	0
Grain	6	0	0	0	0	6	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	14725	14725
Steel	18	0	0	0	0	18	Steel	0	0	0	20	25	45
Cane	0	0	0	0	150	150	Cane	0	0	0	0	375	375
Timber	6	0	0	0	50	56	Timber	12	0	0	20	1375	1407
Machinery	18	0	0	60	0	78	Machinery	42	0	0	20	0	62
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	414	0	0	140	125	679	Other	246	0	15	40	200	501
Container	0	0	0	40	75	115	Container	0	0	0	80	50	130

Enseleni (N002 Mtubatuba to Richardsbay)													
Freight Tonnage by Commodity by Vehicle Class (24 Hours)												Date: 27-09-2023	
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	0	0	0	0	393	393	Fuel / Chemicals	65	0	0	1113	303	1481
Cars Carrier	15	12	0	1525	0	1551	Cars Carrier	51	0	0	0	0	51
Beverages	0	0	0	73	30	103	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	711	12	0	726	0	1450	Covered Load / Sail or Tarp	1220	12	18	799	0	2049
Sand / Stone	123	0	73	0	30	226	Sand / Stone	109	0	0	0	0	109
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	29	0	0	0	0	29	People	15	0	0	0	0	15
Cement	15	0	0	0	0	15	Cement	0	0	0	0	0	0
Grain	7	0	0	0	0	7	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	17817	17817
Steel	22	0	0	0	0	22	Steel	0	0	0	24	30	54
Cane	0	0	0	0	182	182	Cane	0	0	0	0	454	454
Timber	7	0	0	0	61	68	Timber	15	0	0	24	1664	1702
Machinery	22	0	0	73	0	94	Machinery	51	0	0	24	0	75
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	501	0	0	169	151	822	Other	298	0	18	48	242	606
Container	0	0	0	48	91	139	Container	0	0	0	97	61	157

Enseleni (N002 Mtubatuba to Richardsbay)													
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	0	0	0	0	143536	143536	Fuel / Chemicals	23849	0	0	406318	110413	540580
Cars Carrier	5300	4417	0	556479	0	566195	Cars Carrier	18549	0	0	0	0	18549
Beverages	0	0	0	26499	11041	37540	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	259690	4417	0	264990	0	529097	Covered Load / Sail or Tarp	445183	4417	6625	291489	0	747713
Sand / Stone	45048	0	26499	0	11041	82589	Sand / Stone	39749	0	0	0	0	39749
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	10600	0	0	0	0	10600	People	5300	0	0	0	0	5300
Cement	5300	0	0	0	0	5300	Cement	0	0	0	0	0	0
Grain	2650	0	0	0	0	2650	Grain	0	0	0	0	0	0
Coal	0	0	0	0	0	0	Coal	0	0	0	0	6503296	6503296
Steel	7950	0	0	0	0	7950	Steel	0	0	0	8833	11041	19874
Cane	0	0	0	0	66248	66248	Cane	0	0	0	0	165619	165619
Timber	2650	0	0	0	22083	24732	Timber	5300	0	0	8833	607269	621402
Machinery	7950	0	0	26499	0	34449	Machinery	18549	0	0	8833	0	27382
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	182843	0	0	61831	55206	299880	Other	108646	0	6625	17666	88330	221267
Container	0	0	0	17666	33124	50790	Container	0	0	0	35332	22083	57415

Enseleni (N002 Mtubatuba to Richardsbay) Twenty Foot Equivalent Unit (TEU) (12 Hours) Date: 27-09-2023													
Northbound							Southbound						
	1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL		1x6	2x6	3x6	1x12	1x6 + 1x12	TOTAL
2 Axle						0	2 Axle						0
3 Axle						0	3 Axle						0
4 Axle						0	4 Axle						0
5 Axle						0	5 Axle						0
6 Axle				2		4	6 Axle				4		8
≥ 7 Axle		3				6	≥ 7 Axle		1			1	5
TOTAL						10	TOTAL						13

Enseleni (N002 Mtubatuba to Richardsbay) Twenty Foot Equivalent Unit (TEU) (24 Hours) Date: 27-09-2023													
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	0	0	0	0	0	0	3 Axle	0	0	0	0	0	0
4 Axle	0	0	0	0	0	0	4 Axle	0	0	0	0	0	0
5 Axle	0	0	0	0	0	0	5 Axle	0	0	0	0	0	0
6 Axle	0	0	0	2	0	5	6 Axle	0	0	0	5	0	10
≥ 7 Axle	0	4	0	0	0	7	≥ 7 Axle	0	1	0	0	1	6
TOTAL						12	TOTAL						16

Enseleni (N002 Mtubatuba to Richardsbay) 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	0	0	0	0	0	0	3 Axle	0	0	0	0	0	0
4 Axle	0	0	0	0	0	0	4 Axle	0	0	0	0	0	0
5 Axle	0	0	0	0	0	0	5 Axle	0	0	0	0	0	0
6 Axle	0	0	0	883	0	1767	6 Axle	0	0	0	1767	0	3533
≥ 7 Axle	0	1325	0	0	0	2650	≥ 7 Axle	0	442	0	0	442	2208
TOTAL						4417	TOTAL						5741