

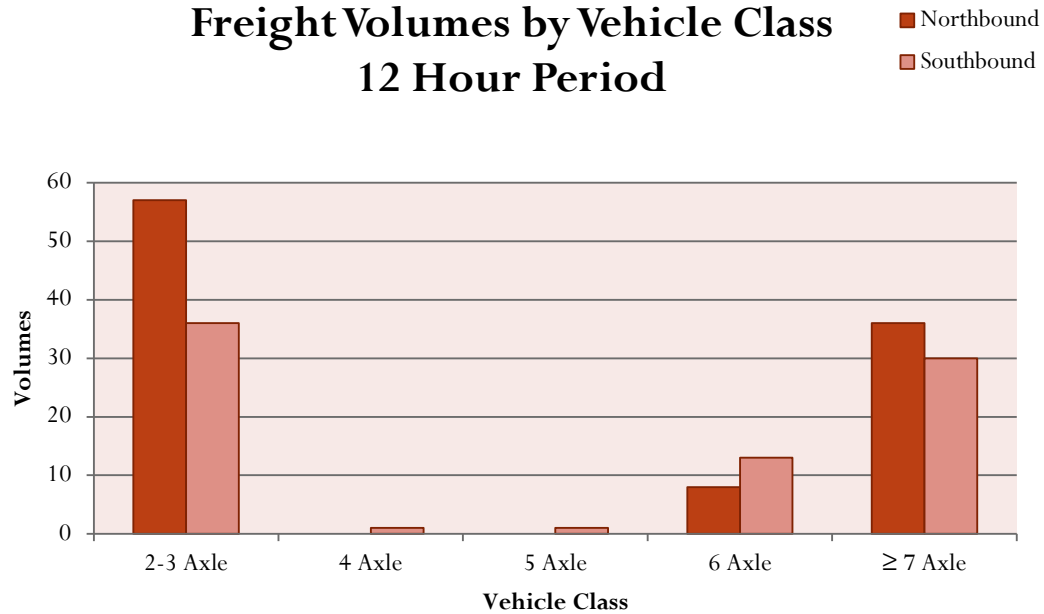
TRAFFIC HIGHLIGHTS OF SITE 1103			
1.1	Site Identifier		1103
1.2	Site Name		Eston
1.3	Site Description	MR21 (Between Umbumbulu & Pietermaritzburg)	
1.4	Road Description	Route : R 603 Road : MR 21 Section : Distance : 17.9km	
1.5	GPS Position	30 36 02.0E -29 56 02.4S	
1.6	Number of Lanes		2
1.7	Station 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)		8759
1.12	Percentage good data available for requested period		100.0
		To Pietermaritzburg	Total
2.1a	Total number of vehicles (counted)	370339	758648
2.1b	Total number of vehicles (projected for period)	370350	758670
2.2	Average daily traffic (ADT)	1015	2079
2.3	Average daily truck traffic (ADTT)	74	155
2.4	Percentage of trucks	7.3	7.5
2.5	Truck split % (short:medium:long)	48 : 14 : 38	51 : 14 : 35
2.6	Percentage of night traffic (20:00 - 06:00)	11.6	11.3
3.1	Speed limit (km/hr)		80
3.2	Average speed (km/hr)	96.2	93.5
3.3	Average speed - light vehicles (km/hr)	98.0	95.0
3.4	Average speed - heavy vehicles (km/hr)	73.8	74.0
3.5	Average night speed (km/hr)	90.2	88.7
3.6	15th centile speed (km/hr)	75.9	73.9
3.7	85th centile speed (km/hr)	116.0	113.0
3.8	Percentage vehicles in excess of speed limit	79.5	75.8
4.1	Percentage vehicles in flows over 600 vehicles/hr	0.0	0.0
4.2	Highest volume on the road (vehicles/hr)	2022/12/16 14:00:00	307
4.3	Highest volume in the North (vehs/hr)	2022/03/22 08:00:00	180
4.4	Highest volume in the South (vehs/hr)	2022/05/13 17:00:00	201
4.5	Highest volume in a lane (vehicles/hr)	2022/05/13 17:00:00	201
4.6	15th highest volume on the road (vehicles/hr)	2022/04/14 15:00:00	279
4.7	15th highest volume in the North direction (vehs/hr)	2022/04/13 09:00:00	152
4.8	15th highest volume in the South direction (vehs/hr)	2022/02/25 16:00:00	174
4.9	30th highest volume on the road (vehicles/hr)	2022/06/03 17:00:00	257
4.10	30th highest volume in the North direction (vehs/hr)	2022/02/28 08:00:00	143
4.11	30th highest volume in the South direction (vehs/hr)	2022/12/15 17:00:00	164
5.1	Percentage of vehicles less than 2s behind vehicle ahead	7.7	7.9
6.1	Total number of heavy vehicles (projected for period)	27044	56746
6.2	Estimated average number of axles per truck	4.3	4.1
6.3	Estimated truck mass (Ton/truck)	23.3	18.5
6.4	Estimated average E80/truck	2.4	1.4
6.5	Estimated daily E80 on the road		219
6.6	Estimated daily E80 in the North direction		176
6.7	Estimated daily E80 in the South direction		43
6.8	Actual average daily E80 in the worst North lane		170
6.9	Actual average daily E80 in the worst South lane		40
6.10	Actual average Axles/Truck (Short:Medium:Long)	(2.2 : 4.4 : 6.8)	(2.2 : 4.4 : 6.8)
6.11	Actual average Mass/Truck (Short:Medium:Long)	(9.3 : 18.6 : 42.7)	(8.4 : 18.0 : 33.3)
6.12	Actual average E80s/Truck (Short:Medium:Long)	(0.6 : 1.4 : 4.9)	(0.4 : 1.1 : 3.0)

L/H/Volume Report

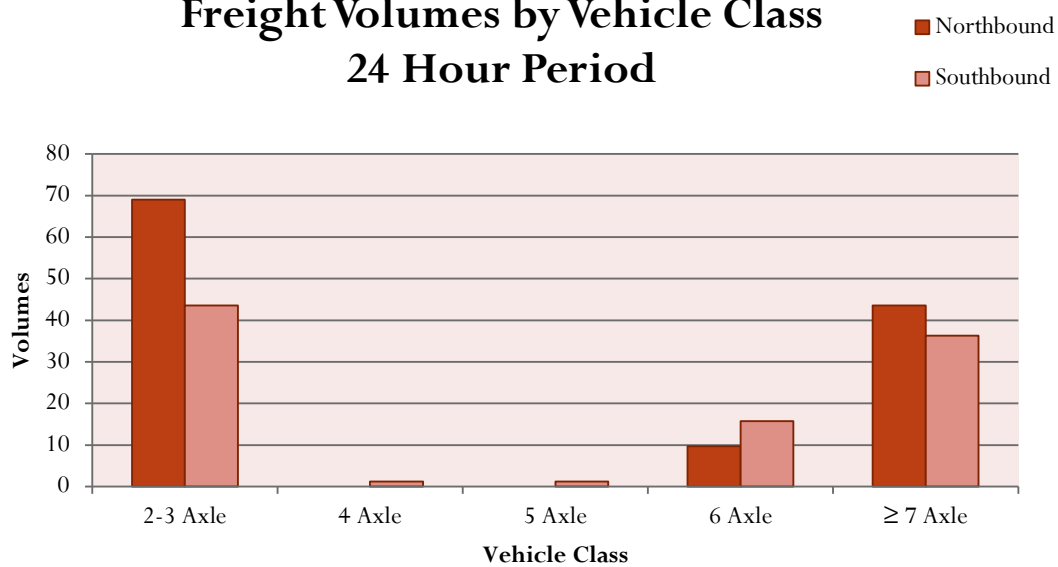
Date : 2023/10/02
Site : 1103 - Eston
Description : MR21 (Between Umbumbulu & Pietermaritzburg)

Date	Time	Dur.	Lane 1			Lane 2			To Pietermaritzburg			To Umbumbulu		
			Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total
231002	00:00	24:00	981	80	1061	903	56	959	981	80	1061	903	56	959
231003	00:00	24:00	753	73	826	779	85	864	753	73	826	779	85	864
231004	00:00	24:00	826	107	933	835	98	933	826	107	933	835	98	933
231005	00:00	24:00	829	94	923	842	90	932	829	94	923	842	90	932
231006	00:00	24:00	1066	87	1153	1035	73	1108	1066	87	1153	1035	73	1108
231007	00:00	24:00	1123	63	1186	1082	55	1137	1123	63	1186	1082	55	1137
231008	00:00	24:00	1071	73	1144	1097	58	1155	1071	73	1144	1097	58	1155

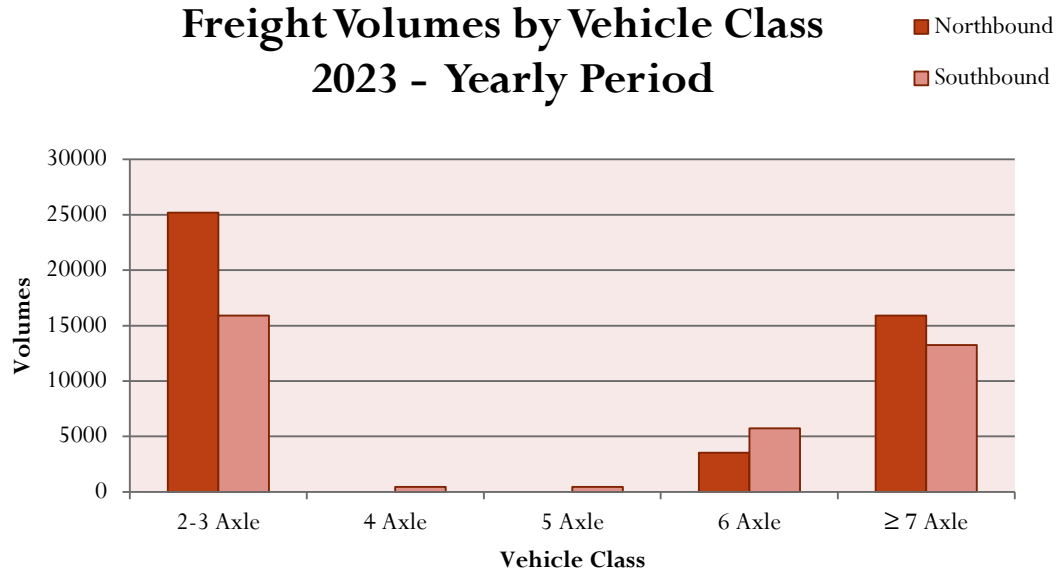
Freight Volumes by Vehicle Class 12 Hour Period

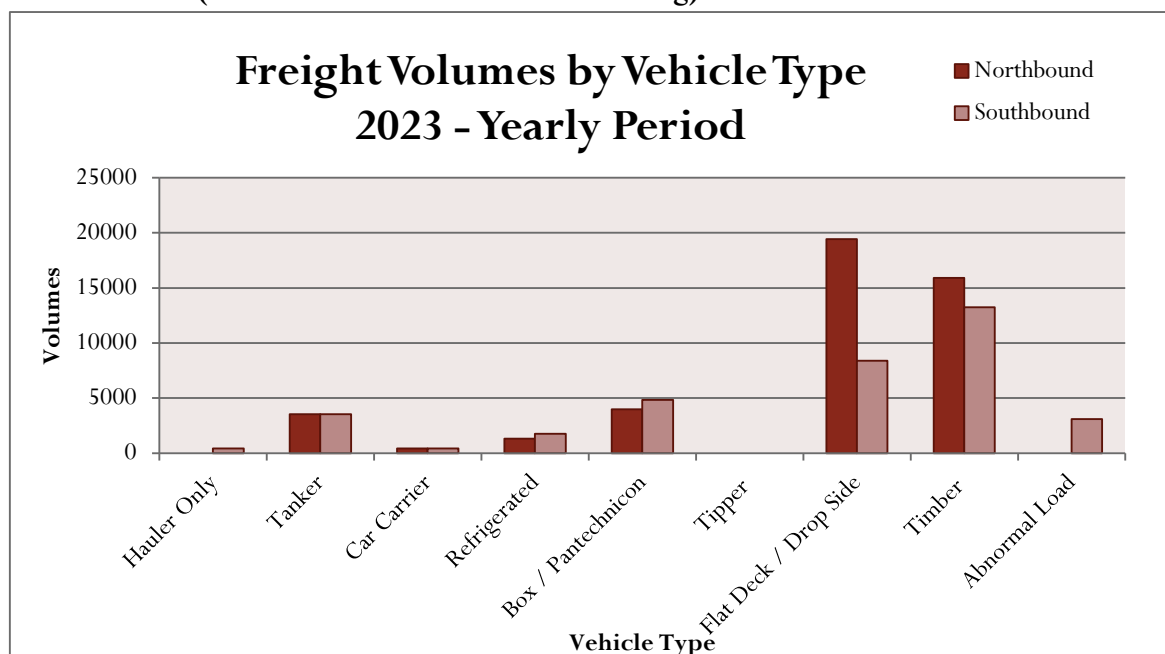
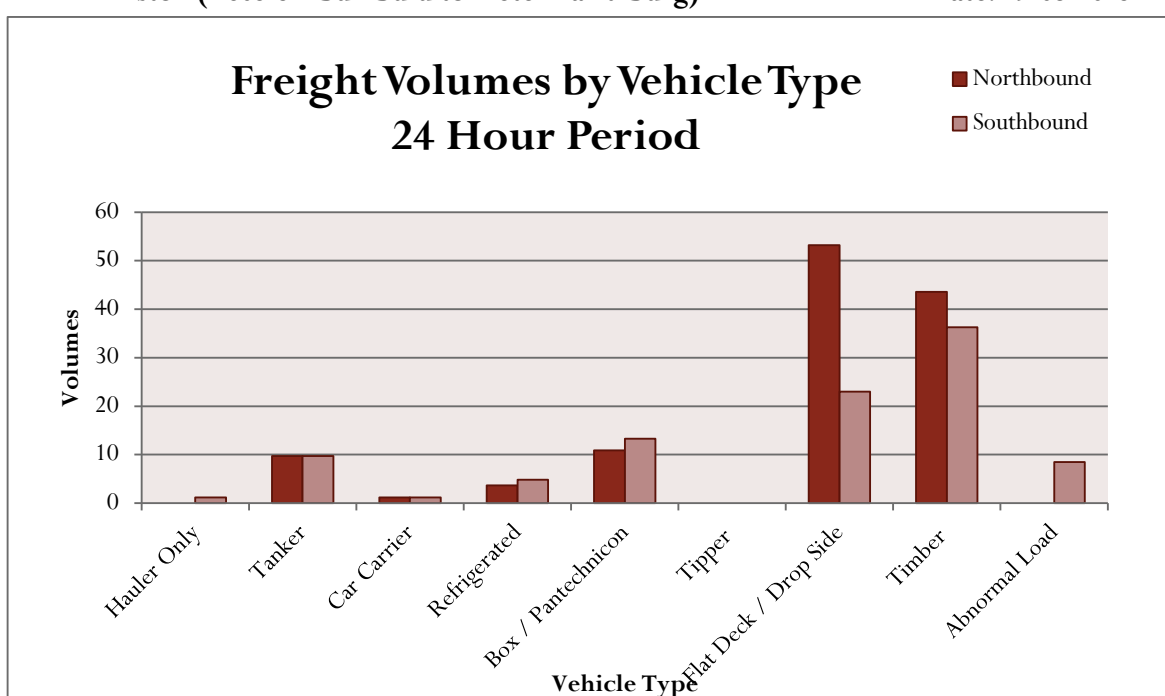
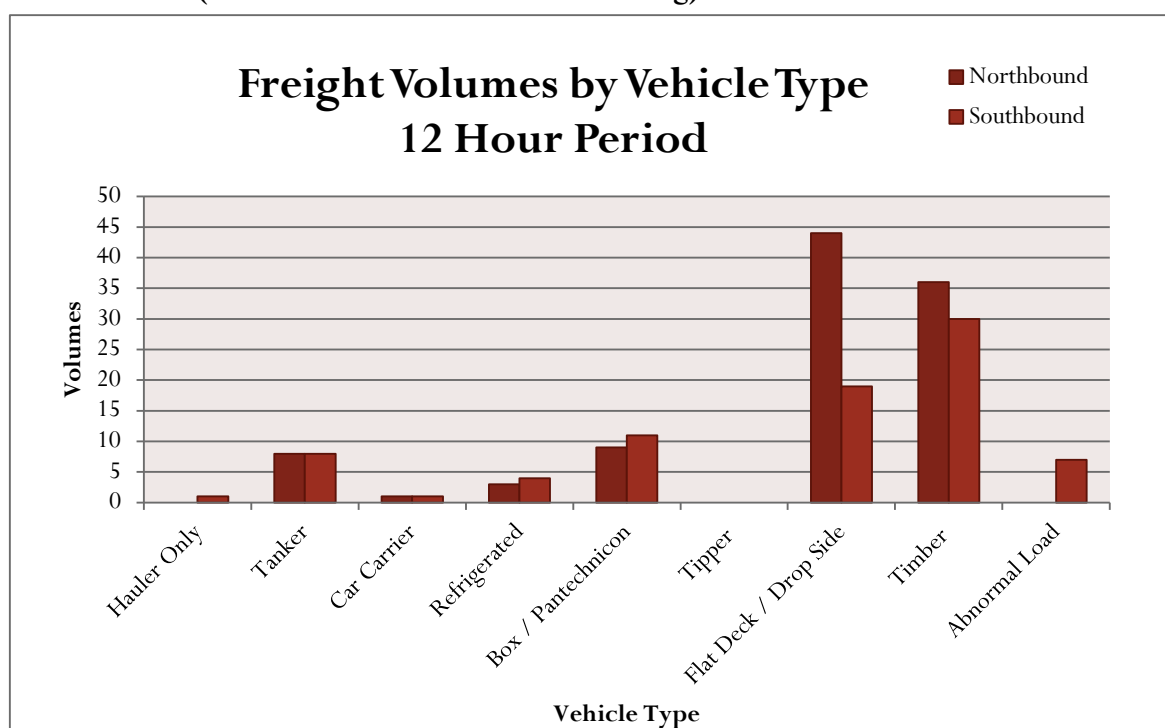


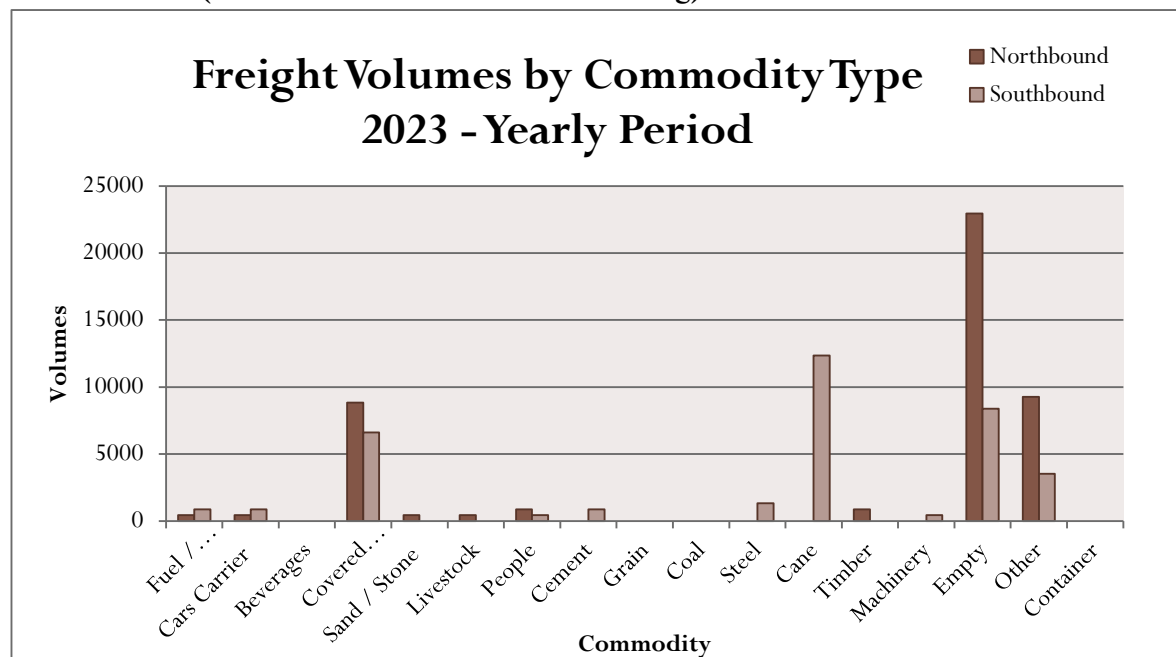
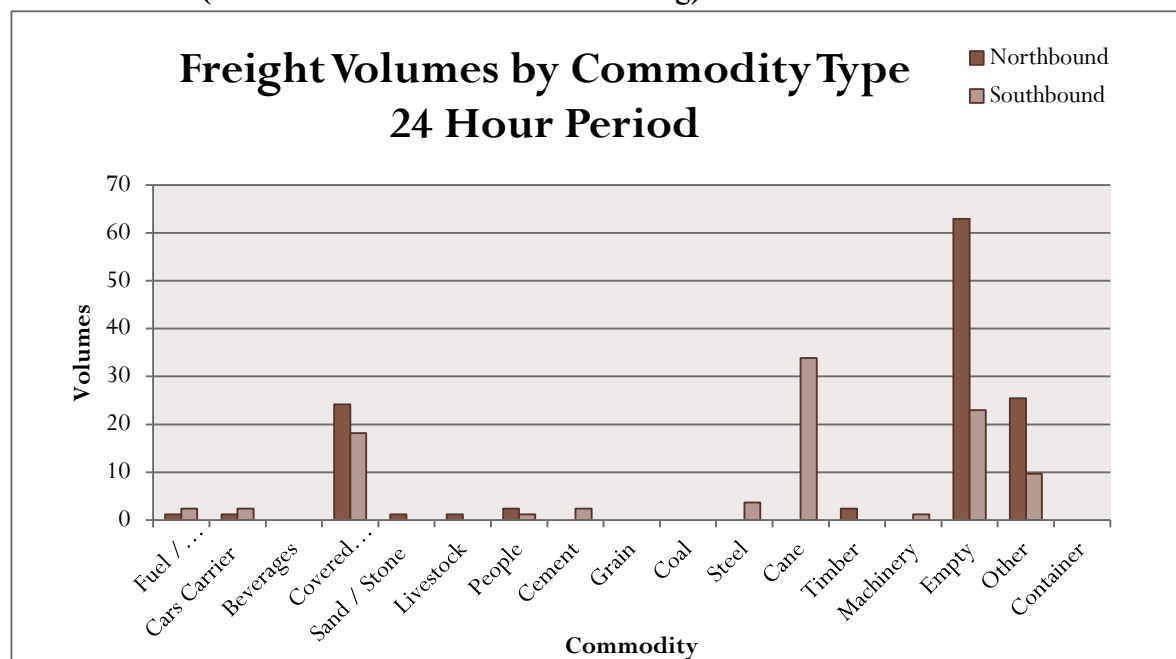
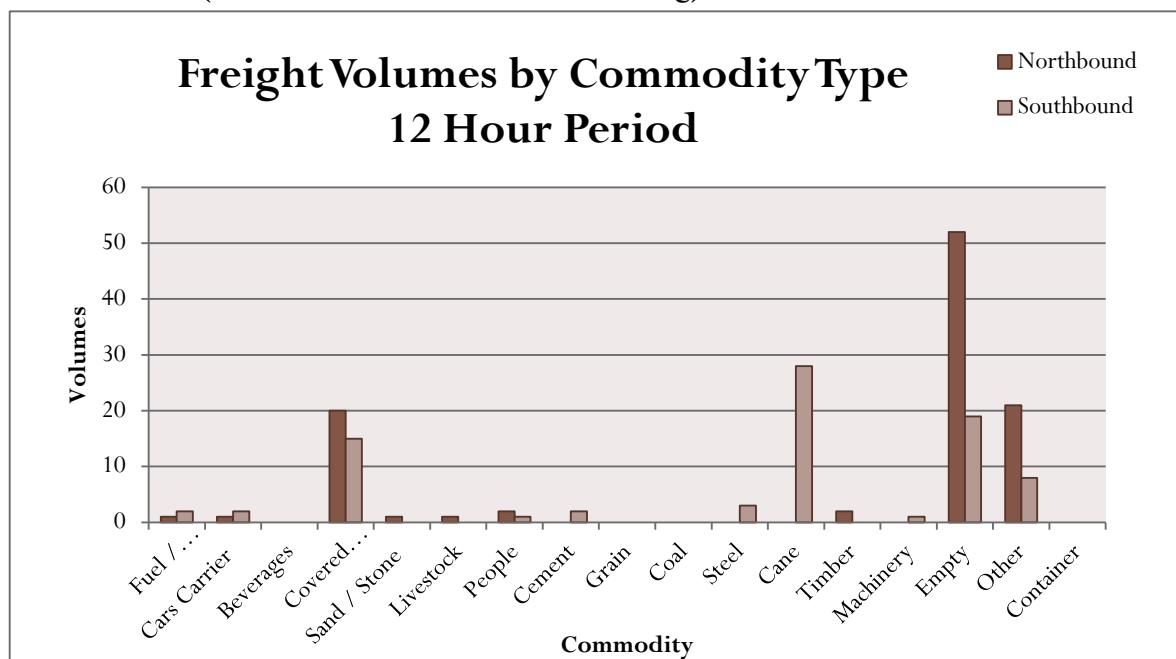
Freight Volumes by Vehicle Class 24 Hour Period



Freight Volumes by Vehicle Class 2023 - Yearly Period

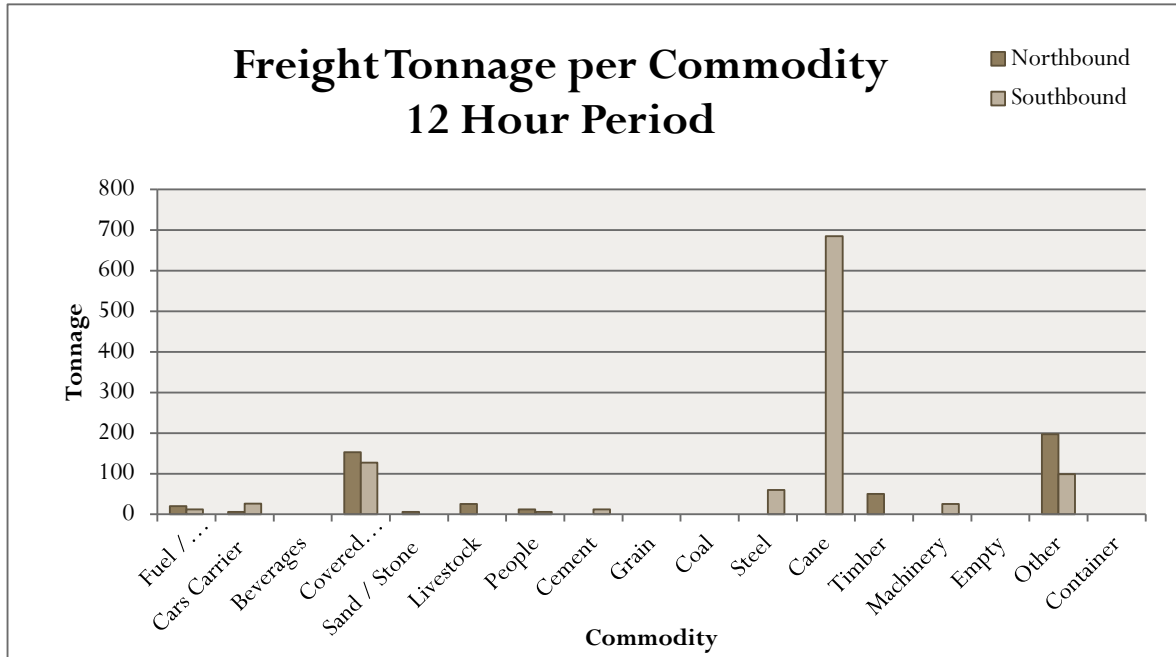






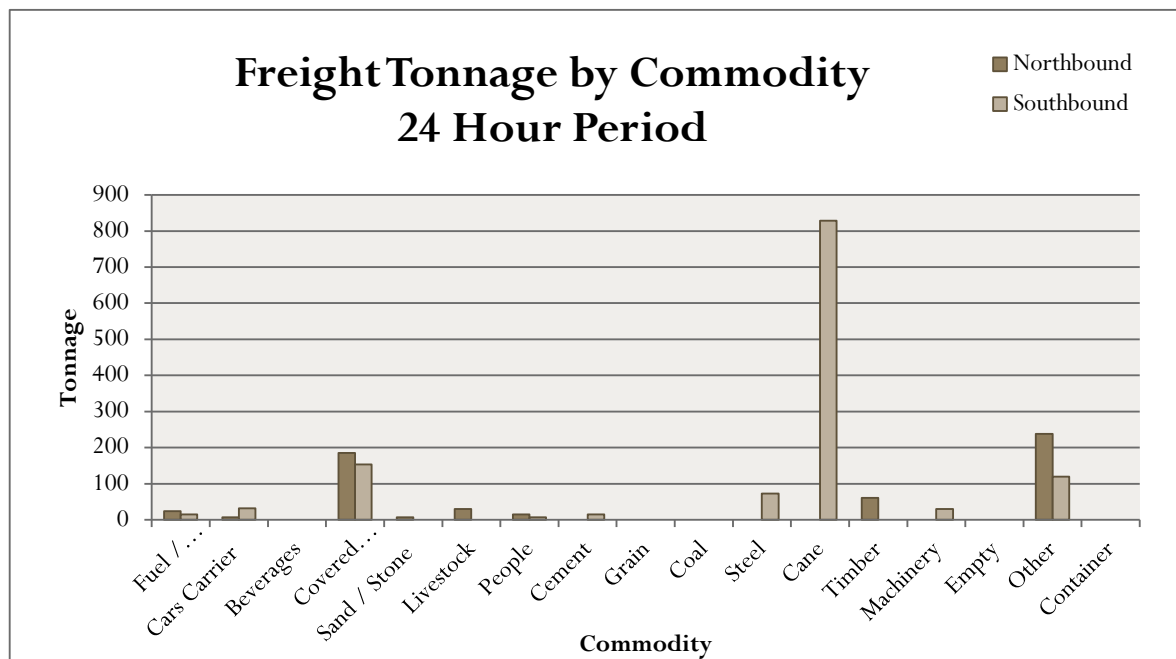
Eston (R603 Umbumbulu to Pietermaritzburg)

Date: 29-08-2023

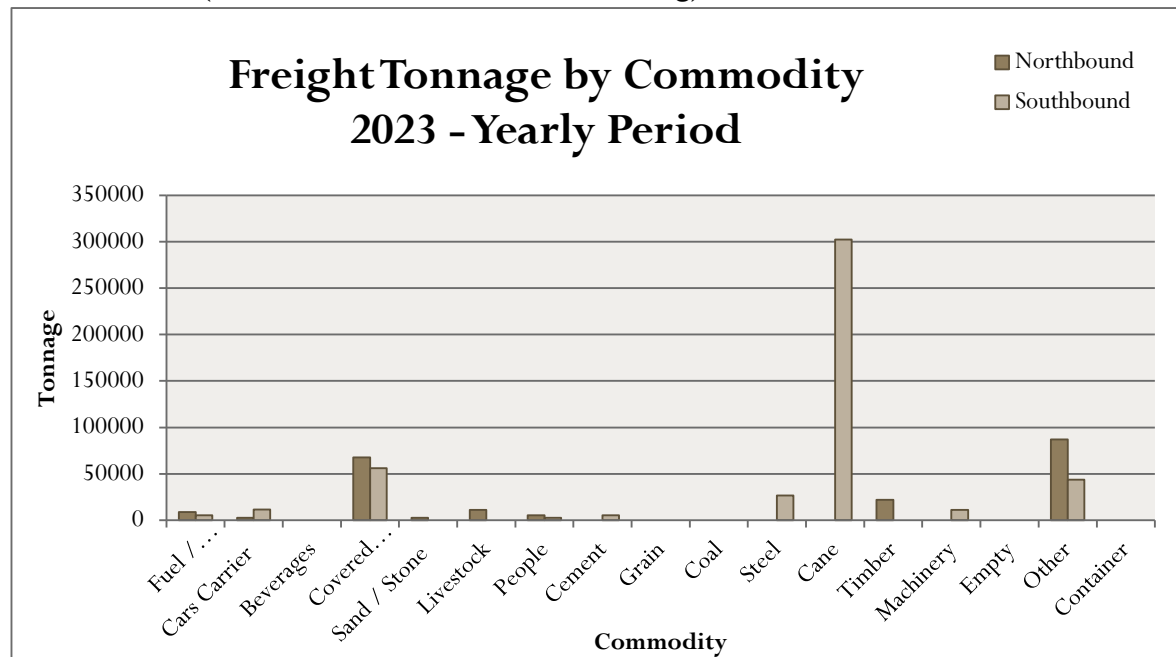


Eston (R603 Umbumbulu to Pietermaritzburg)

Date: 29-08-2023



Eston (R603 Umbumbulu to Pietermaritzburg)



Eston (R603 Umbumbulu to Pietermaritzburg)													
Freight Tonnage by Commodity by Vehicle Class (12 Hours)												Date: 29-08-2023	
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	20	0	20	Fuel / Chemicals	12	0	0	0	0	12
Cars Carrier	6	0	0	0	0	6	Cars Carrier	6	0	0	20	0	26
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	108	0	0	20	25	153	Covered Load / Sail or Tarp	72	10	0	20	25	127
Sand / Stone	6	0	0	0	0	6	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	25	25	Livestock	0	0	0	0	0	0
People	12	0	0	0	0	12	People	6	0	0	0	0	6
Cement	0	0	0	0	0	0	Cement	12	0	0	0	0	12
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	60	0	60
Cane	0	0	0	0	0	0	Cane	0	0	0	60	625	685
Timber	0	0	0	0	50	50	Timber	0	0	0	0	0	0
Machinery	0	0	0	0	0	0	Machinery	0	0	0	0	25	25
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	102	0	0	20	75	197	Other	24	0	15	60	0	99
Container	0	0	0	0	0	0	Container	0	0	0	0	0	0

Eston (R603 Umbumbulu to Pietermaritzburg)													
Freight Tonnage by Commodity by Vehicle Class (24 Hours)												Date: 29-08-2023	
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	24	0	24	Fuel / Chemicals	15	0	0	0	0	15
Cars Carrier	7	0	0	0	0	7	Cars Carrier	7	0	0	24	0	31
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	131	0	0	24	30	185	Covered Load / Sail or Tarp	87	12	0	24	30	154
Sand / Stone	7	0	0	0	0	7	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	30	30	Livestock	0	0	0	0	0	0
People	15	0	0	0	0	15	People	7	0	0	0	0	7
Cement	0	0	0	0	0	0	Cement	15	0	0	0	0	15
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	73	0	73
Cane	0	0	0	0	0	0	Cane	0	0	0	73	756	829
Timber	0	0	0	0	61	61	Timber	0	0	0	0	0	0
Machinery	0	0	0	0	0	0	Machinery	0	0	0	0	30	30
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	123	0	0	24	91	238	Other	29	0	18	73	0	120
Container	0	0	0	0	0	0	Container	0	0	0	0	0	0

Eston (R603 Umbumbulu 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	0	0	0	8833	0	8833	Fuel / Chemicals	5300	0	0	0	0	5300
Cars Carrier	2650	0	0	0	0	2650	Cars Carrier	2650	0	0	8833	0	11483
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	47698	0	0	8833	11041	67572	Covered Load / Sail or Tarp	31799	4417	0	8833	11041	56090
Sand / Stone	2650	0	0	0	0	2650	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	11041	11041	Livestock	0	0	0	0	0	0
People	5300	0	0	0	0	5300	People	2650	0	0	0	0	2650
Cement	0	0	0	0	0	0	Cement	5300	0	0	0	0	5300
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	26499	0	26499
Cane	0	0	0	0	0	0	Cane	0	0	0	26499	276031	302530
Timber	0	0	0	0	22083	22083	Timber	0	0	0	0	0	0
Machinery	0	0	0	0	0	0	Machinery	0	0	0	0	11041	11041
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	45048	0	0	8833	33124	87005	Other	10600	0	6625	26499	0	43723
Container	0	0	0	0	0	0	Container	0	0	0	0	0	0

Eston (R603 Umbumbulu to Pietermaritzburg)													
Twenty Foot Equivalent Unit (TEU) (12 Hours)												Date: 29-08-2023	
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						0	6 Axle						0
≥ 7 Axle						0	≥ 7 Axle						0
TOTAL						0	TOTAL						0

Eston (R603 Umbumbulu to Pietermaritzburg)													
Twenty Foot Equivalent Unit (TEU) (24 Hours)												Date: 29-08-2023	
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	0	0	0	6 Axle	0	0	0	0	0	0
≥ 7 Axle	0	0	0	0	0	0	≥ 7 Axle	0	0	0	0	0	0
TOTAL						0	TOTAL						0

Eston (R603 Umbumbulu 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	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	0	0	0	6 Axle	0	0	0	0	0	0
≥ 7 Axle	0	0	0	0	0	0	≥ 7 Axle	0	0	0	0	0	0
TOTAL						0	TOTAL						0