

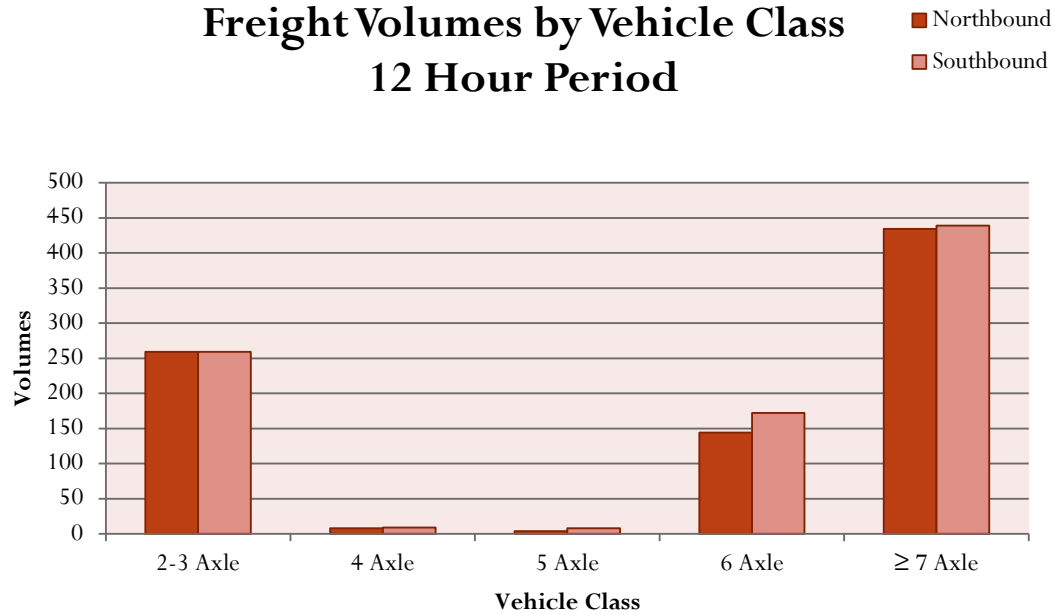
TRAFFIC HIGHLIGHTS OF SITE 1059			
1.1	Site Identifier	1059	
1.2	Site Name	Elandslaagte	
1.3	Site Description	Between Ladysmith & Newcastle	
1.4	Road Description	Route : N011 Road : N011 Section : 03 Distance : 26.9km	
1.5	GPS Position	29 55 41.2E -28 24 11.3S	
1.6	Number of Lanes	2	
1.7	Station Type	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 - 2023/12/22	
1.11	Actual available good data (hours)	8523	
1.12	Percentage good data available for requested period	97.3	
		To Newcastle	Total
2.1a	Total number of vehicles (counted)	1266648	2567366
2.1b	Total number of vehicles (projected for period)	1301723	2638460
2.2	Average daily traffic (ADT)	3566	7229
2.3	Average daily truck traffic (ADTT)	975	2056
2.4	Percentage of trucks	27.3	28.4
2.5	Truck split % (short:medium:long)	21 : 9 : 70	20 : 8 : 72
2.6	Percentage of night traffic (20:00 - 06:00)	12.9	13.0
3.1	Speed limit (km/hr)		120
3.2	Average speed (km/hr)	80.0	80.6
3.3	Average speed - light vehicles (km/hr)	82.8	84.8
3.4	Average speed - heavy vehicles (km/hr)	72.3	70.0
3.5	Average night speed (km/hr)	83.3	81.6
3.6	15th centile speed (km/hr)	65.9	64.9
3.7	85th centile speed (km/hr)	99.0	100.0
3.8	Percentage vehicles in excess of speed limit	2.4	2.7
4.1	Percentage vehicles in flows over 600 vehicles/hr	0.0	9.5
4.2	Highest volume on the road (vehicles/hr)	2023/05/01 16:00:00	837
4.3	Highest volume in the North (vehs/hr)	2023/09/22 18:00:00	459
4.4	Highest volume in the South (vehs/hr)	2023/07/09 18:00:00	467
4.5	Highest volume in a lane (vehicles/hr)	2023/07/09 18:00:00	467
4.6	15th highest volume on the road (vehicles/hr)	2023/04/11 18:00:00	766
4.7	15th highest volume in the North direction (vehs/hr)	2023/07/17 16:00:00	389
4.8	15th highest volume in the South direction (vehs/hr)	2023/06/23 15:00:00	414
4.9	30th highest volume on the road (vehicles/hr)	2023/09/25 15:00:00	737
4.10	30th highest volume in the North direction (vehs/hr)	2023/07/03 17:00:00	373
4.11	30th highest volume in the South direction (vehs/hr)	2023/07/28 16:00:00	405
5.1	Percentage of vehicles less than 2s behind vehicle ahead		
6.1	Total number of heavy vehicles (projected for period)	355950	750498
6.2	Estimated average number of axles per truck	5.8	5.8
6.3	Estimated truck mass (Ton/truck)	32.9	33.3
6.4	Estimated average E80/truck	1.8	1.8
6.5	Estimated daily E80 on the road		3767
6.6	Estimated daily E80 in the North direction		1770
6.7	Estimated daily E80 in the South direction		1997
6.8	Estimated daily E80 in the worst North lane		1770
6.9	Estimated daily E80 in the worst South lane		1997
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

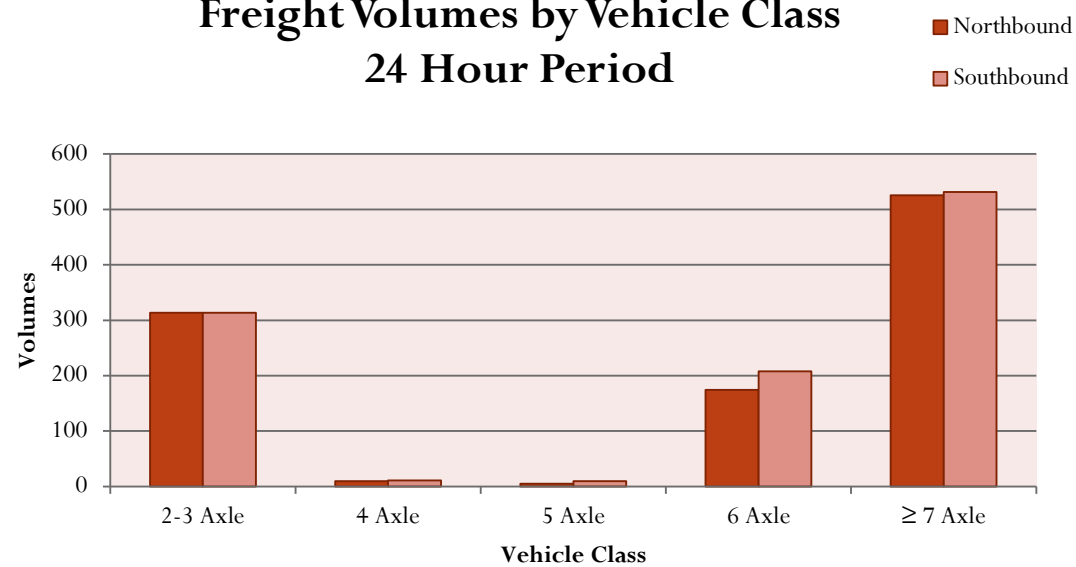
Date : 2023/10/02
Site : 1059 - Elandslaagte
Description : Between Ladysmith & Newcastle

Date	Time	Dur.	Lane 1			Lane 2			To Newcastle			To Ladysmith		
			Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total
231002	00:00	24:00	3034	1159	4193	2927	1228	4155	3034	1159	4193	2927	1228	4155
231003	00:00	24:00	2767	1310	4077	2708	1378	4086	2767	1310	4077	2708	1378	4086
231004	00:00	24:00	2677	1273	3950	2686	1270	3956	2677	1273	3950	2686	1270	3956
231005	00:00	24:00	2990	1330	4320	3034	1445	4479	2990	1330	4320	3034	1445	4479
231006	00:00	24:00	3300	1183	4483	3518	1231	4749	3300	1183	4483	3518	1231	4749
231007	00:00	24:00	2756	802	3558	2769	926	3695	2756	802	3558	2769	926	3695
231008	00:00	24:00	2931	695	3626	2646	605	3251	2931	695	3626	2646	605	3251

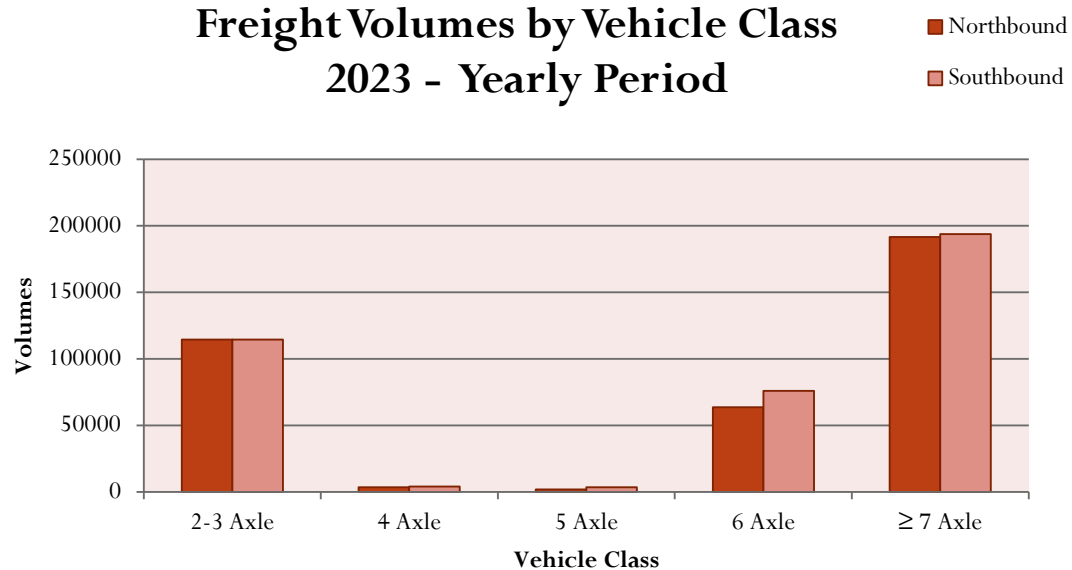
Freight Volumes by Vehicle Class 12 Hour Period

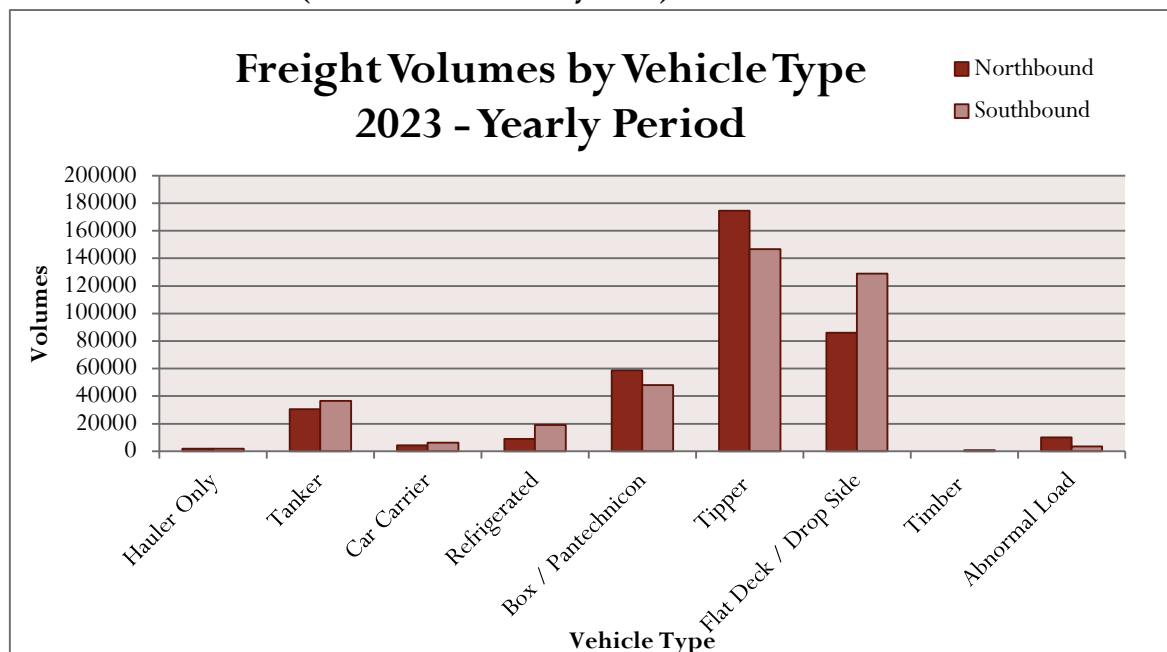
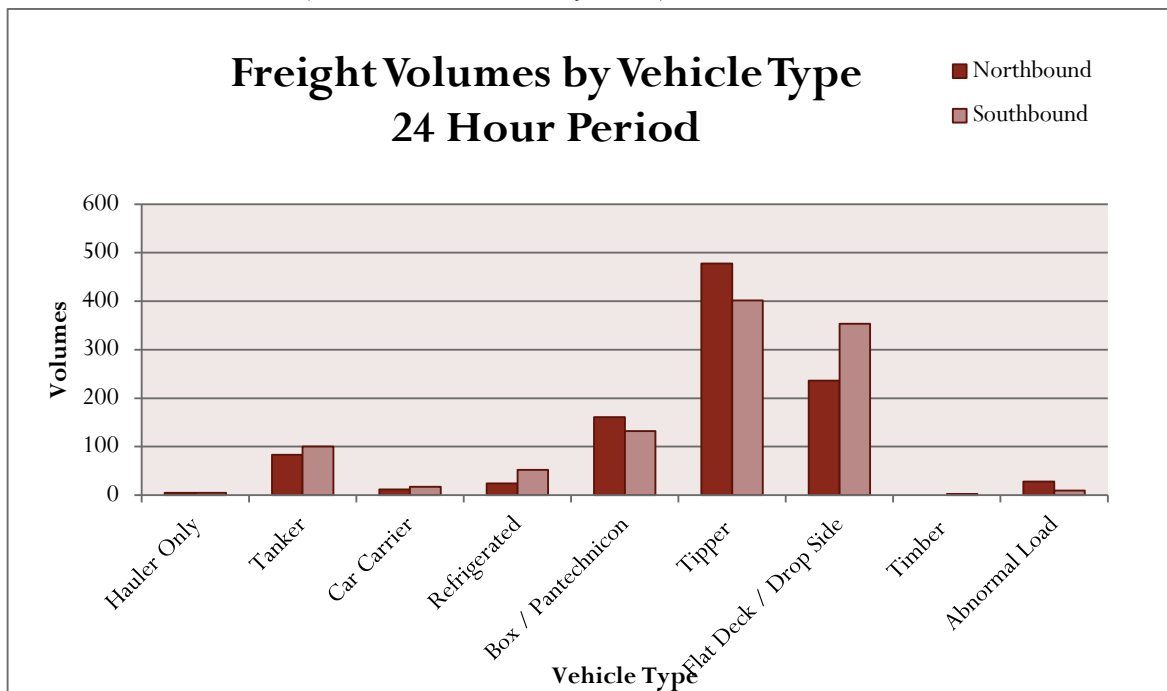
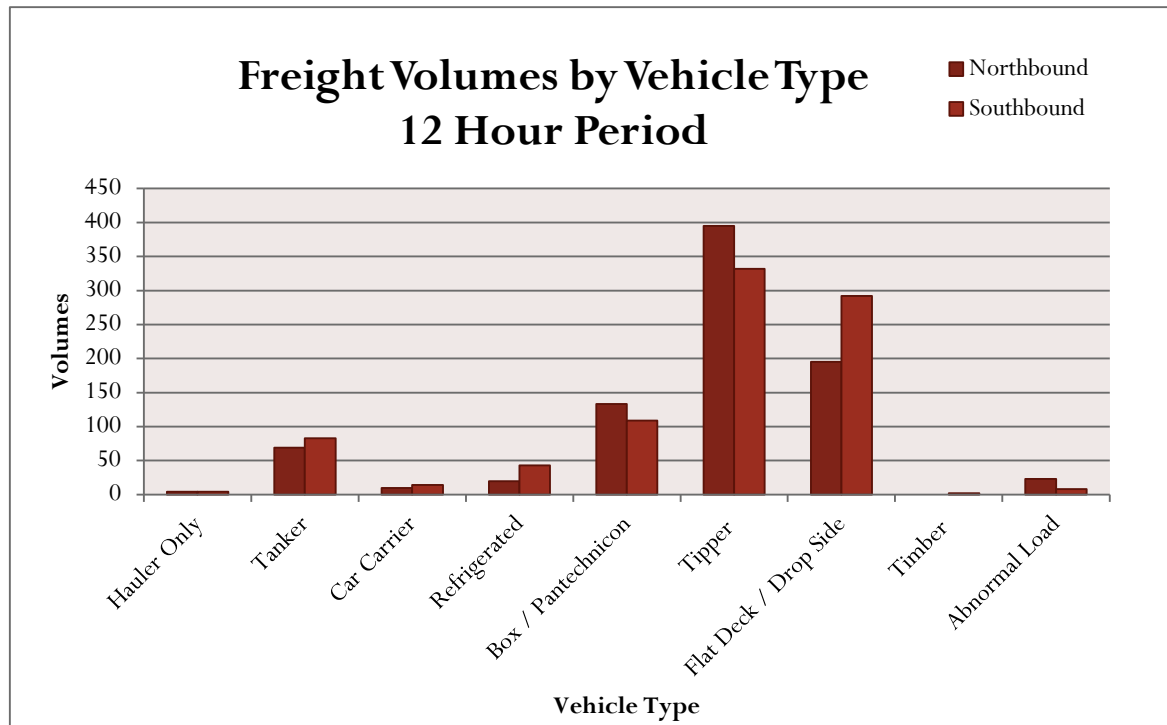


Freight Volumes by Vehicle Class 24 Hour Period

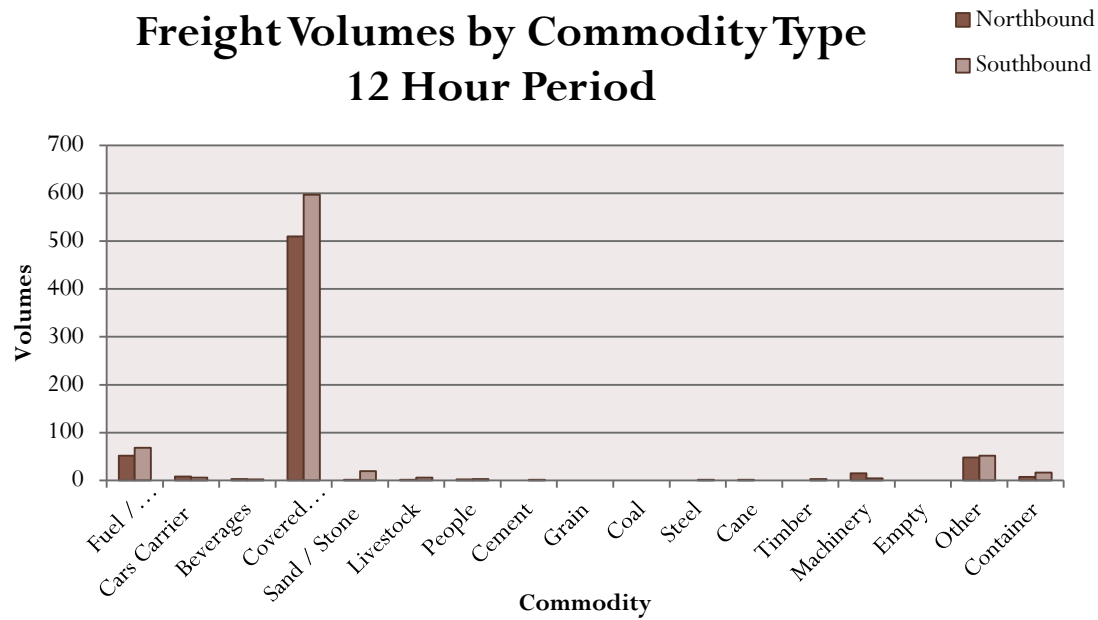


Freight Volumes by Vehicle Class 2023 - Yearly Period

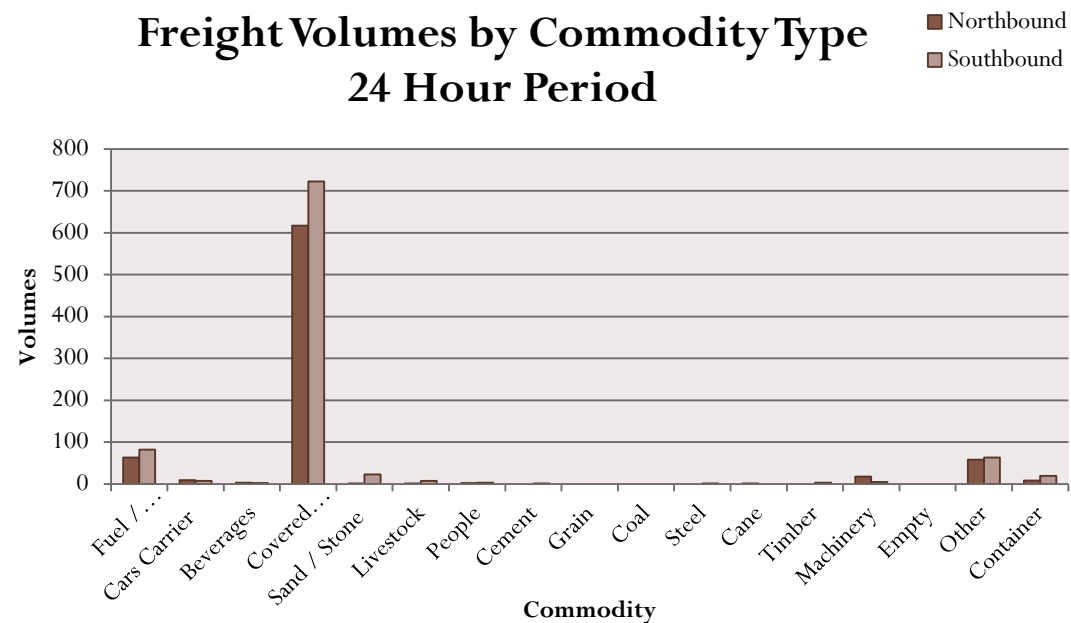




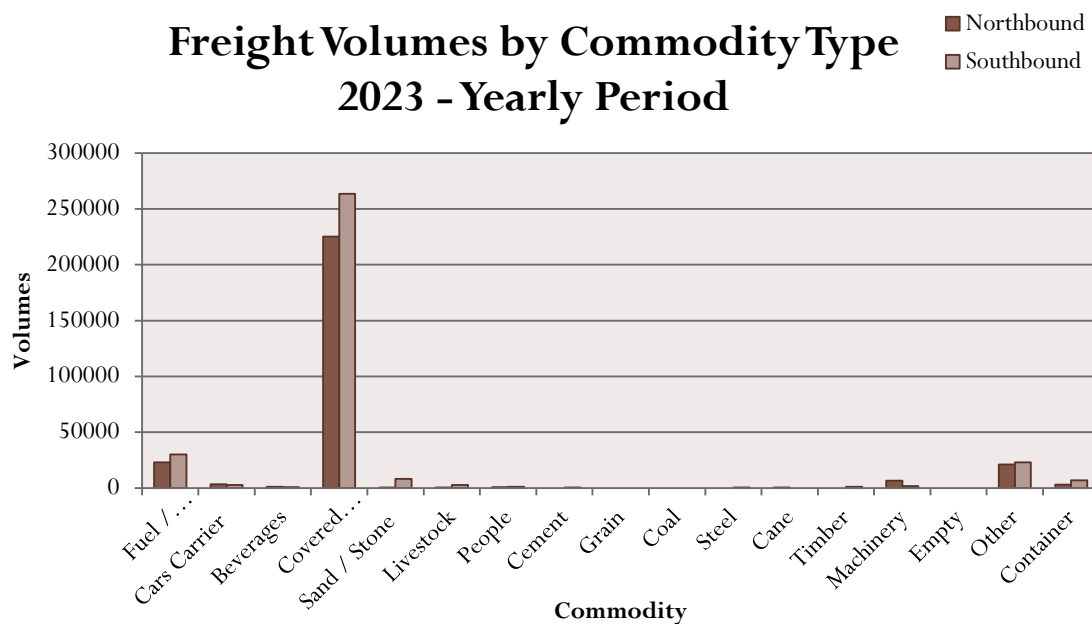
Freight Volumes by Commodity Type 12 Hour Period



Freight Volumes by Commodity Type 24 Hour Period

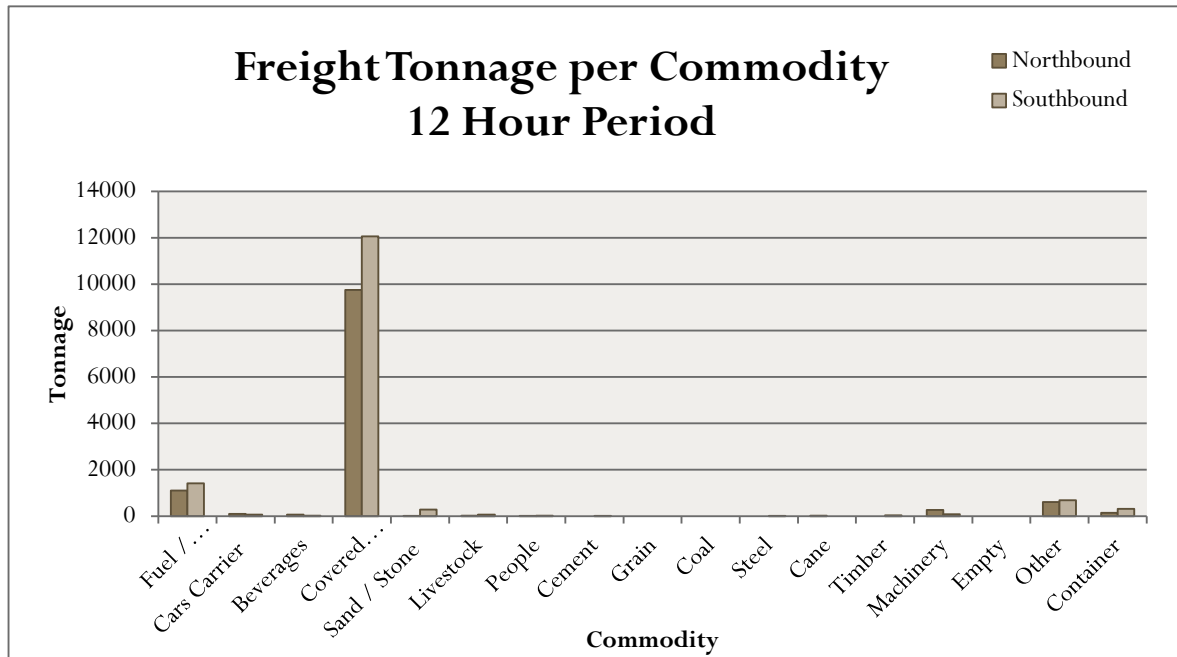


Freight Volumes by Commodity Type 2023 - Yearly Period



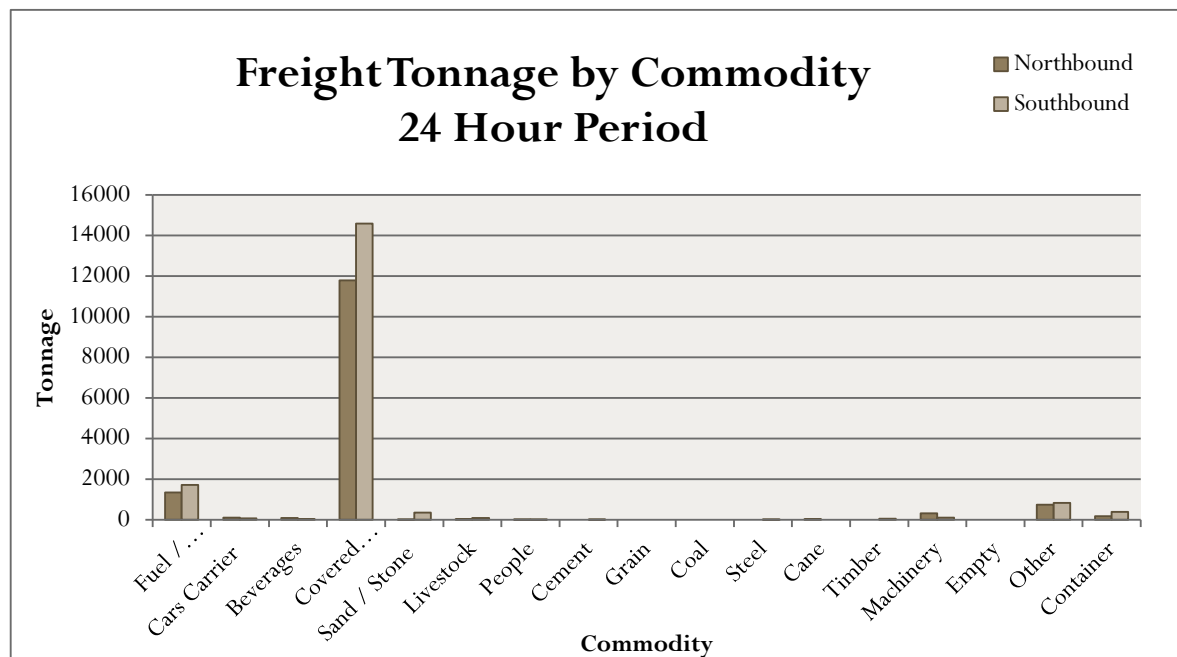
Elandslaate (N11 Newcastle to Ladysmith)

Date: 18-10-2023

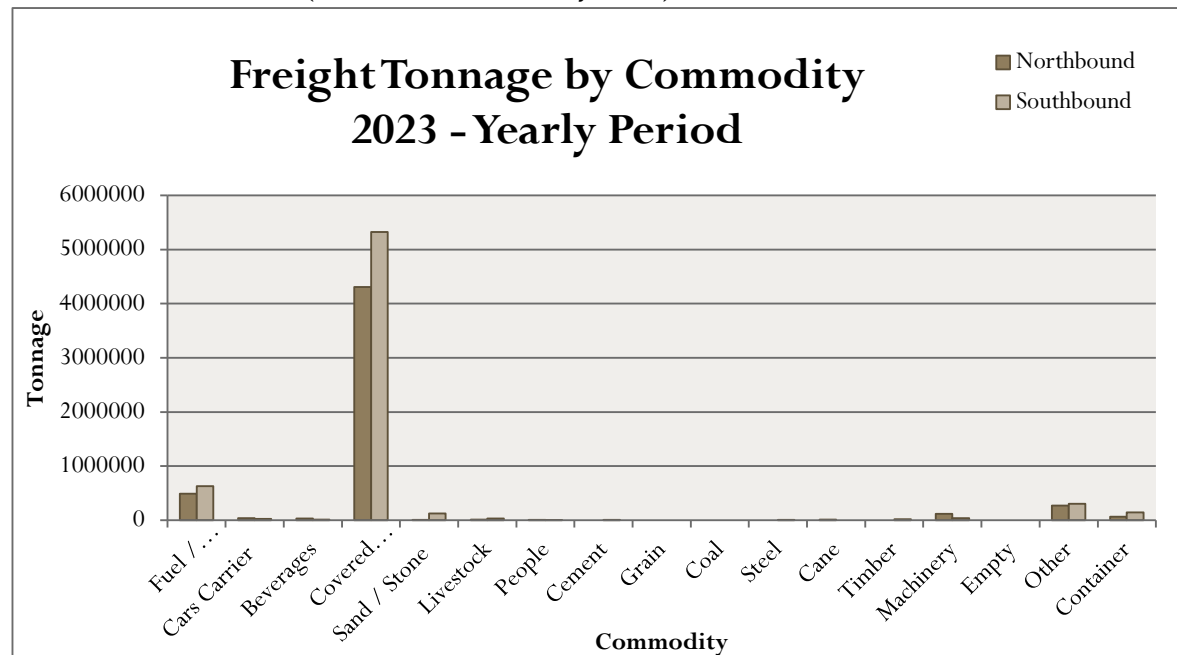


Elandslaate (N11 Newcastle to Ladysmith)

Date: 18-10-2023



Elandslaate (N11 Newcastle to Ladysmith)



Elandslaate (N11 Newcastle to Ladysmith)													
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	0	0	0	780	325	1105	Fuel / Chemicals	6	0	0	1040	375	1421
Cars Carrier	18	20	15	40	0	93	Cars Carrier	18	10	15	20	0	63
Beverages	0	0	0	20	50	70	Beverages	6	0	0	20	0	26
Covered Load / Sail or Tarp	864	40	30	740	8075	9749	Covered Load / Sail or Tarp	768	70	45	1200	9975	12058
Sand / Stone	6	0	0	0	0	6	Sand / Stone	48	10	15	40	175	288
Livestock	0	0	0	0	25	25	Livestock	24	0	0	0	50	74
People	12	0	0	0	0	12	People	18	0	0	0	0	18
Cement	0	0	0	0	0	0	Cement	6	0	0	0	0	6
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	6	0	0	0	0	6
Cane	0	0	0	0	25	25	Cane	0	0	0	0	0	0
Timber	0	0	0	0	0	0	Timber	12	0	0	0	25	37
Machinery	18	0	0	200	50	268	Machinery	0	0	0	60	25	85
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	156	0	0	360	100	616	Other	162	0	0	400	125	687
Container	0	0	0	120	25	145	Container	0	0	0	320	0	320

Elandslaate (N11 Newcastle to Ladysmith)													
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	0	0	0	944	393	1337	Fuel / Chemicals	7	0	0	1258	454	1719
Cars Carrier	22	24	18	48	0	113	Cars Carrier	22	12	18	24	0	76
Beverages	0	0	0	24	61	85	Beverages	7	0	0	24	0	31
Covered Load / Sail or Tarp	1045	48	36	895	9771	11796	Covered Load / Sail or Tarp	929	85	54	1452	12070	14590
Sand / Stone	7	0	0	0	0	7	Sand / Stone	58	12	18	48	212	348
Livestock	0	0	0	0	30	30	Livestock	29	0	0	0	61	90
People	15	0	0	0	0	15	People	22	0	0	0	0	22
Cement	0	0	0	0	0	0	Cement	7	0	0	0	0	7
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	7	0	0	0	0	7
Cane	0	0	0	0	30	30	Cane	0	0	0	0	0	0
Timber	0	0	0	0	0	0	Timber	15	0	0	0	30	45
Machinery	22	0	0	242	61	324	Machinery	0	0	0	73	30	103
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	189	0	0	436	121	745	Other	196	0	0	484	151	831
Container	0	0	0	145	30	175	Container	0	0	0	387	0	387

Elandslaate (N11 Newcastle to Ladysmith)													
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	344487	143536	488023	Fuel / Chemicals	2650	0	0	459316	165619	627585
Cars Carrier	7950	8833	6625	17666	0	41073	Cars Carrier	7950	4417	6625	8833	0	27824
Beverages	0	0	0	8833	22083	30916	Beverages	2650	0	0	8833	0	11483
Covered Load / Sail or Tarp	381586	17666	13250	326821	3566324	4305646	Covered Load / Sail or Tarp	339187	30916	19874	529980	4405459	5325416
Sand / Stone	2650	0	0	0	0	2650	Sand / Stone	21199	4417	6625	17666	77289	127195
Livestock	0	0	0	0	11041	11041	Livestock	10600	0	0	0	22083	32682
People	5300	0	0	0	0	5300	People	7950	0	0	0	0	7950
Cement	0	0	0	0	0	0	Cement	2650	0	0	0	0	2650
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	2650	0	0	0	0	2650
Cane	0	0	0	0	11041	11041	Cane	0	0	0	0	0	0
Timber	0	0	0	0	0	0	Timber	5300	0	0	0	11041	16341
Machinery	7950	0	0	88330	22083	118362	Machinery	0	0	0	26499	11041	37540
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	68897	0	0	158994	44165	272056	Other	71547	0	0	176660	55206	303414
Container	0	0	0	52998	11041	64039	Container	0	0	0	141328	0	141328

Elandslaate (N11 Newcastle to Ladysmith) 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						0	2 Axle						0	
3 Axle						0	3 Axle						0	
4 Axle						0	4 Axle						0	
5 Axle						0	5 Axle						0	
6 Axle	1			5		11	6 Axle	13			3		19	
≥ 7 Axle		1				2	≥ 7 Axle						0	
TOTAL						13	TOTAL						19	

Elandslaate (N11 Newcastle to Ladysmith) 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	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	1	0	0	6	0	13	6 Axle	16	0	0	4	0	23	
≥ 7 Axle	0	1	0	0	0	2	≥ 7 Axle	0	0	0	0	0	0	
TOTAL						16	TOTAL						23	

Elandslaate (N11 Newcastle to Ladysmith) 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	442	0	0	2208	0	4858	6 Axle	5741	0	0	1325	0	8391	
≥ 7 Axle	0	442	0	0	0	883	≥ 7 Axle	0	0	0	0	0	0	
TOTAL						5741	TOTAL						8391	