

TRAFFIC HIGHLIGHTS OF SITE 8239				
1.1	Site Identifier	8239		
1.2	Site Name	Mkuze South		
1.3	Site Description	Between R22 Hluhluwe I/C & Mkuze		
1.4	Road Description	Route : N002 Road : N002 Section : 30 Distance : 71.5km		
1.5	GPS Position	32 10 40.3E -27 52 30.2S		
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)	8527		
1.12	Percentage good data available for requested period	97.3		
		To Mkuze	To Mtubatuba	Total
2.1a	Total number of vehicles (counted)	942469	953869	1896338
2.1b	Total number of vehicles (projected for period)	968181	979892	1948072
2.2	Average daily traffic (ADT)	2653	2685	5337
2.3	Average daily truck traffic (ADTT)	1281	1324	2604
2.4	Percentage of trucks	48.3	49.3	48.8
2.5	Truck split % (short:medium:long)	7 : 5 : 88	7 : 4 : 89	8 : 4 : 88
2.6	Percentage of night traffic (20:00 - 06:00)	14.5	19.2	16.9
3.1	Speed limit (km/hr)	120		
3.2	Average speed (km/hr)	89.8	96.3	93.1
3.3	Average speed - light vehicles (km/hr)	104.2	107.6	105.9
3.4	Average speed - heavy vehicles (km/hr)	74.4	84.6	79.6
3.5	Average night speed (km/hr)	83.9	91.5	88.3
3.6	15th centile speed (km/hr)	70.9	78.8	73.9
3.7	85th centile speed (km/hr)	116.0	118.0	117.0
3.8	Percentage vehicles in excess of speed limit	10.8	13.1	12.0
4.1	Percentage vehicles in flows over 600 vehicles/hr	0.0	0.0	0.1
4.2	Highest volume on the road (vehicles/hr)	2023/11/15 15:00:00		636
4.3	Highest volume in the North (vehs/hr)	2023/11/15 15:00:00		495
4.4	Highest volume in the South (vehs/hr)	2023/12/15 13:00:00		378
4.5	Highest volume in a lane (vehicles/hr)	2023/11/15 15:00:00		495
4.6	15th highest volume on the road (vehicles/hr)	2023/12/15 12:00:00		549
4.7	15th highest volume in the North direction (vehs/hr)	2023/05/01 15:00:00		291
4.8	15th highest volume in the South direction (vehs/hr)	2023/04/06 13:00:00		281
4.9	30th highest volume on the road (vehicles/hr)	2023/04/10 17:00:00		504
4.10	30th highest volume in the North direction (vehs/hr)	2023/12/15 14:00:00		268
4.11	30th highest volume in the South direction (vehs/hr)	2023/12/15 15:00:00		273
5.1	Percentage of vehicles less than 2s behind vehicle ahead	14.6	15.9	15.3
6.1	Total number of heavy vehicles (projected for period)	467450	483187	950637
6.2	Estimated average number of axles per truck	6.5	6.6	6.5
6.3	Estimated truck mass (Ton/truck)	37.2	37.4	37.3
6.4	Estimated average E80/truck	2.0	2.0	2.0
6.5	Estimated daily E80 on the road	5222		
6.6	Estimated daily E80 in the North direction	2566		
6.7	Estimated daily E80 in the South direction	2656		
6.8	Estimated daily E80 in the worst North lane	2566		
6.9	Estimated daily E80 in the worst South lane	2656		
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)		

<b>L/H/Volume Report</b>
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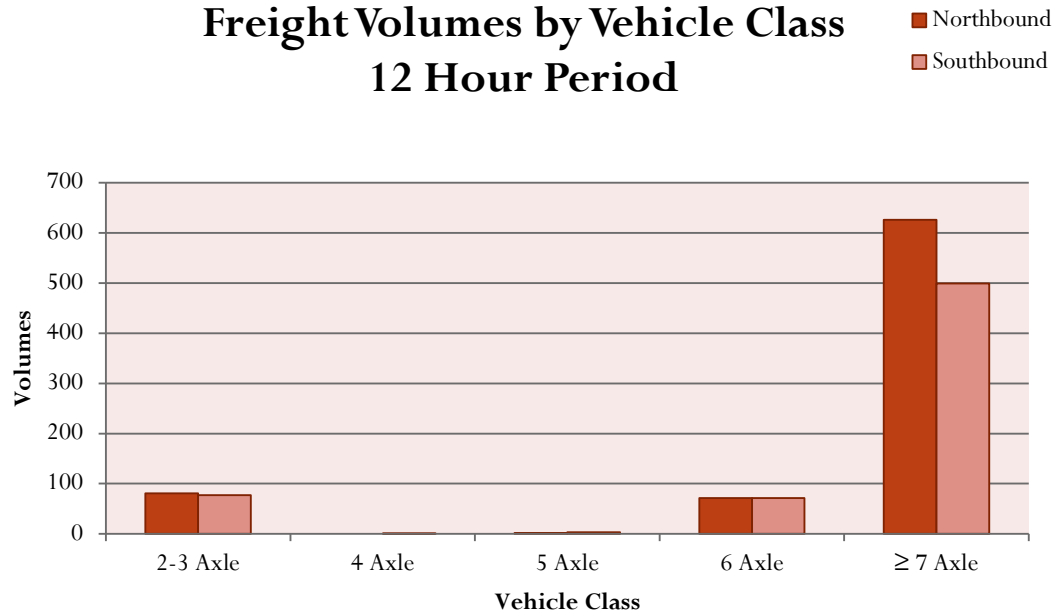
<b>Date</b>	: 2023/10/02
<b>Site</b>	: 8239 - Mkuze South
<b>Description</b>	: Between R22 Hluhluwe I/C & Mkuze

Date	Time	Dur.	Lane 1			Lane 2			N002-30 KM71.5		
			Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total
231002	00:00	24:00	1648	1061	2709	1524	1026	2550	3172	2087	5259
231003	00:00	24:00	1365	1237	2602	1390	1125	2515	2755	2362	5117
231004	00:00	24:00	1413	1211	2624	1384	1299	2683	2797	2510	5307
231005	00:00	24:00	1485	1219	2704	1550	1336	2886	3035	2555	5590
231006	00:00	24:00	1933	1442	3375	1825	1361	3186	3758	2803	6561
231007	00:00	24:00	1510	1359	2869	1514	1381	2895	3024	2740	5764
231008	00:00	24:00	1664	1453	3117	1590	1480	3070	3254	2933	6187

Pongola (N002 Pongola to Mkuze)

Date: 31-10-2023

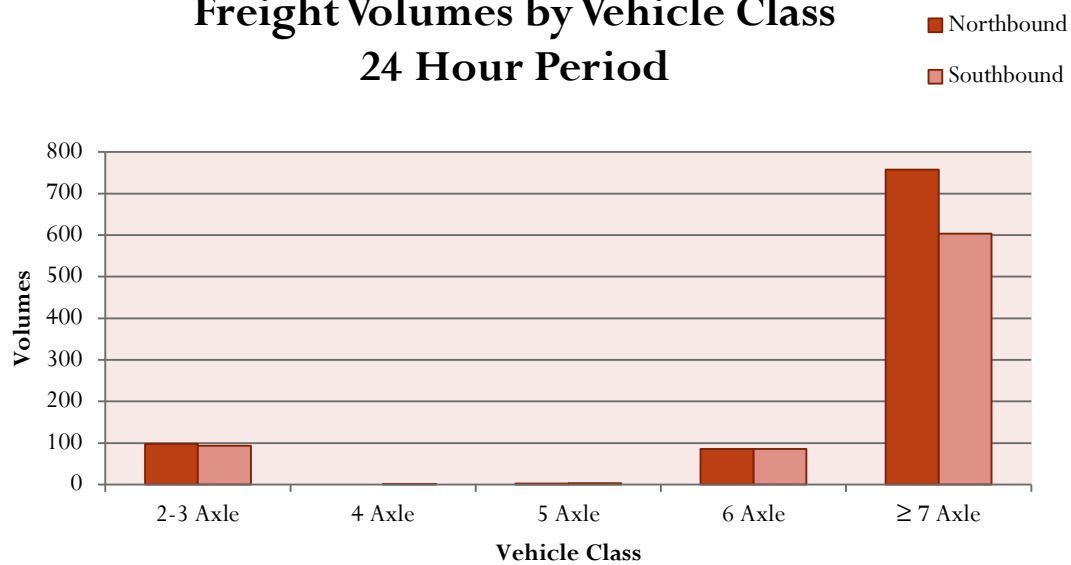
### Freight Volumes by Vehicle Class 12 Hour Period



Pongola (N002 Pongola to Mkuze)

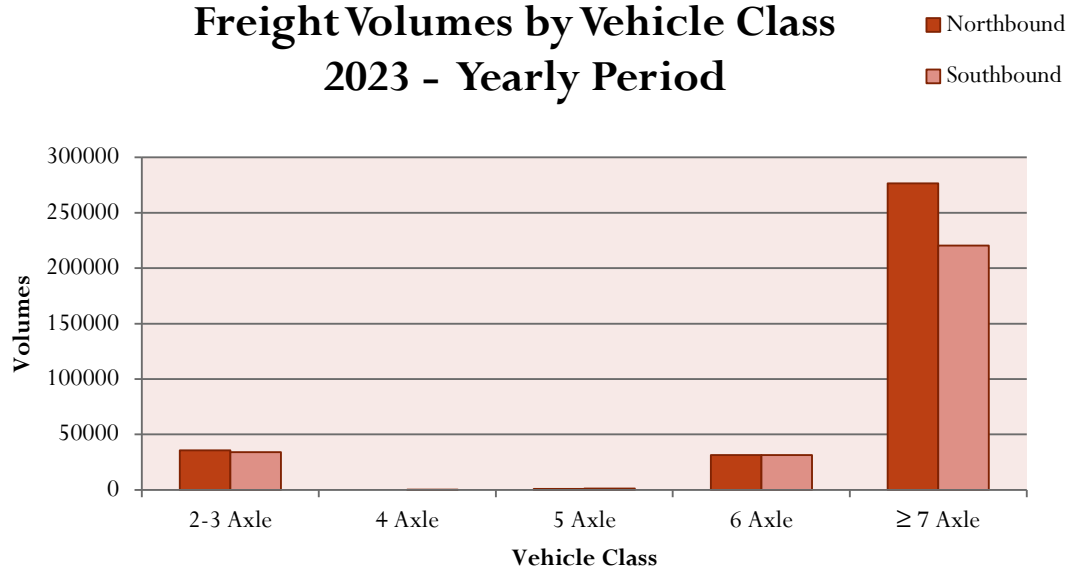
Date: 31-10-2023

### Freight Volumes by Vehicle Class 24 Hour Period



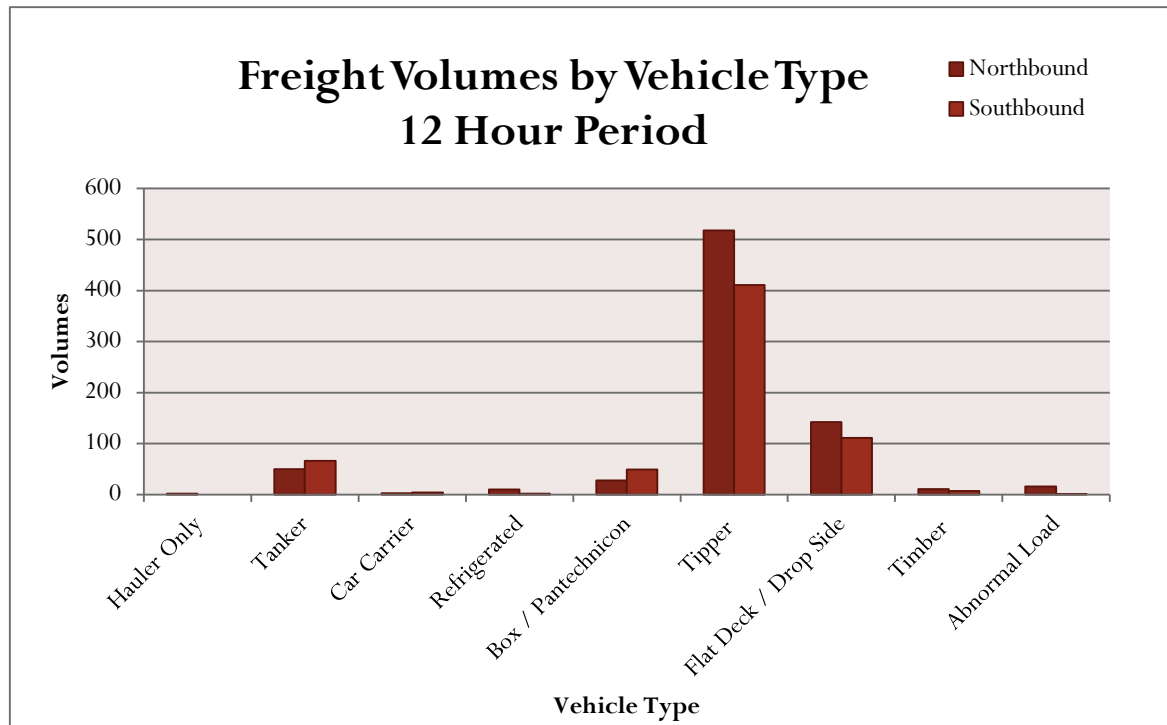
Pongola (N002 Pongola to Mkuze)

### Freight Volumes by Vehicle Class 2023 - Yearly Period



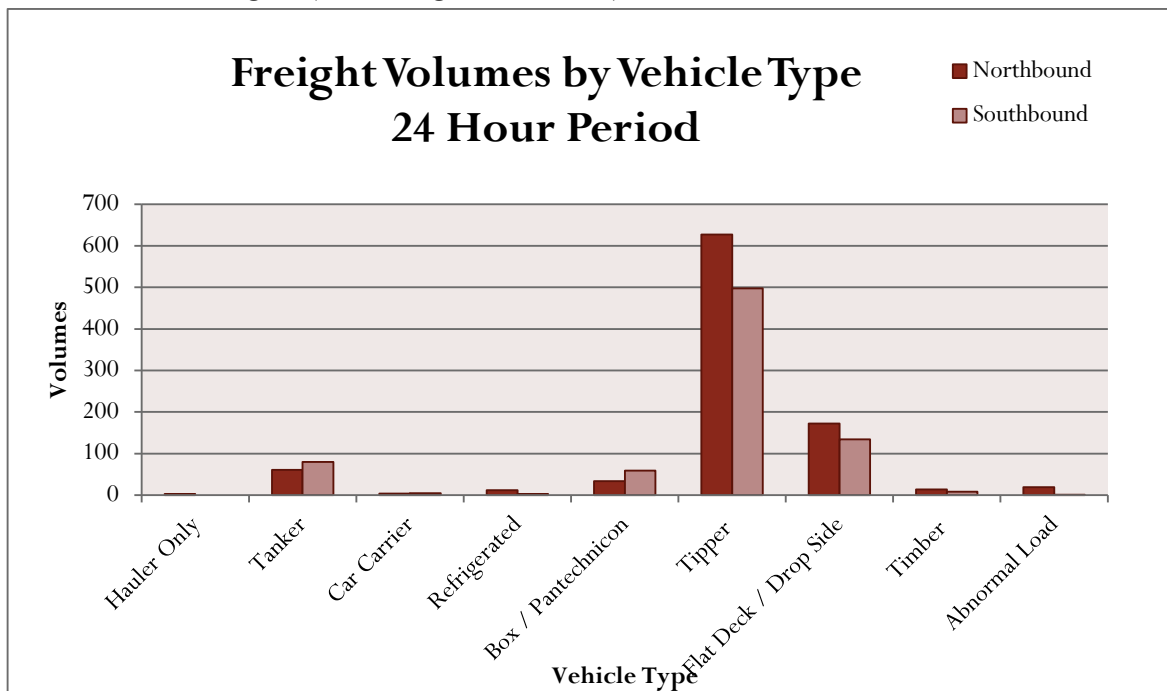
Pongola (N002 Pongola to Mkuze)

Date: 31-10-2023

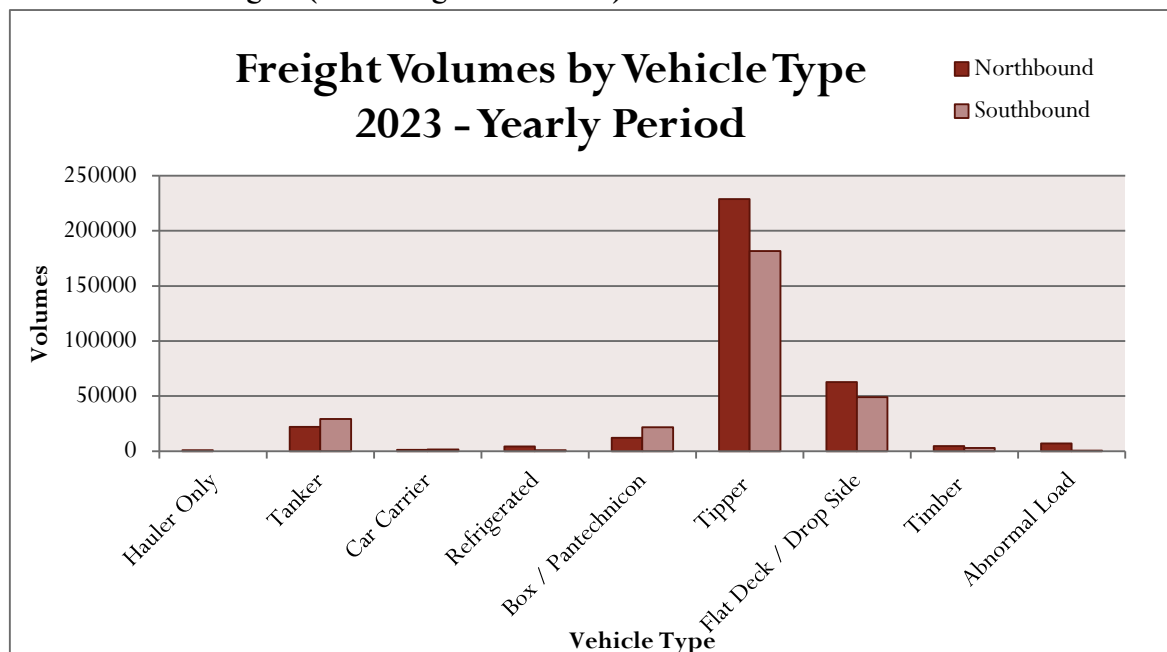


Pongola (N002 Pongola to Mkuze)

Date: 31-10-2023



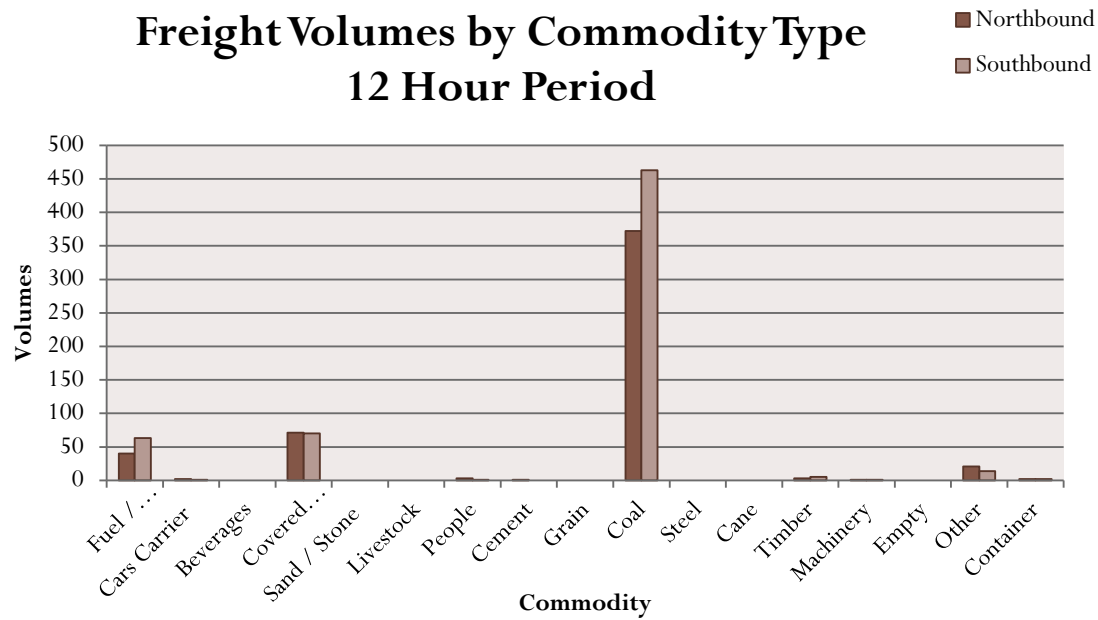
Pongola (N002 Pongola to Mkuze)



Pongola (N002 Pongola to Mkuze)

Date: 31-10-2023

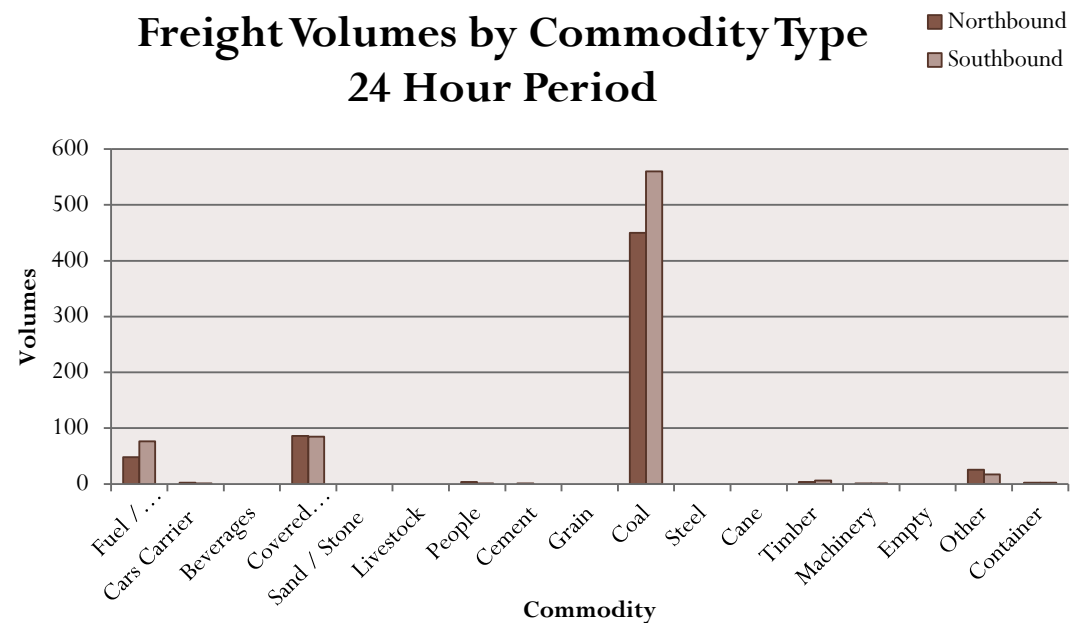
### Freight Volumes by Commodity Type 12 Hour Period



Pongola (N002 Pongola to Mkuze)

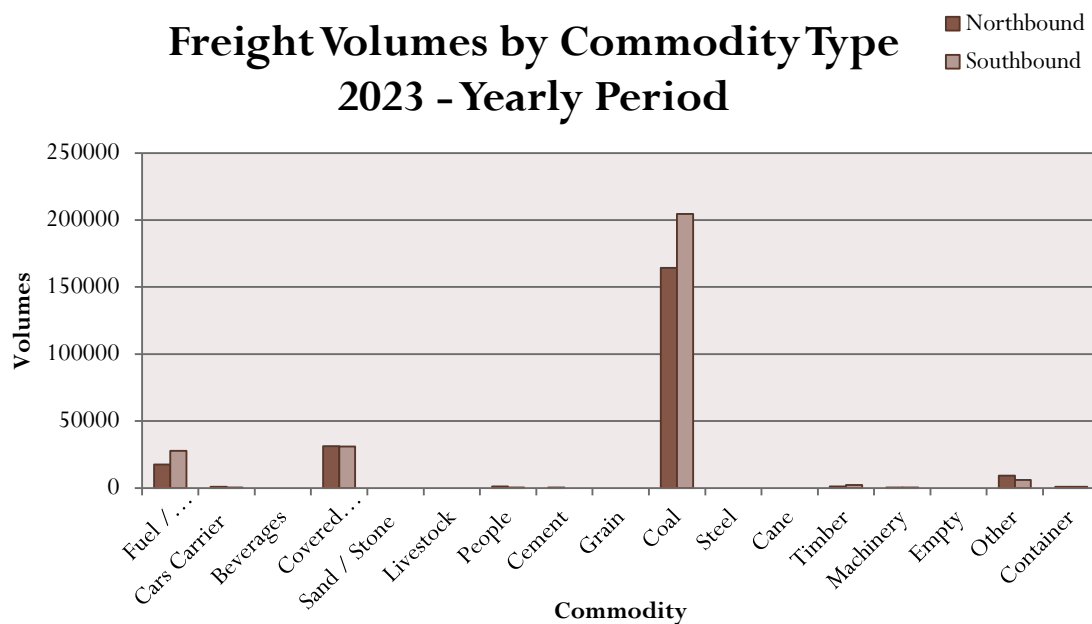
Date: 31-10-2023

### Freight Volumes by Commodity Type 24 Hour Period



Pongola (N002 Pongola to Mkuze)

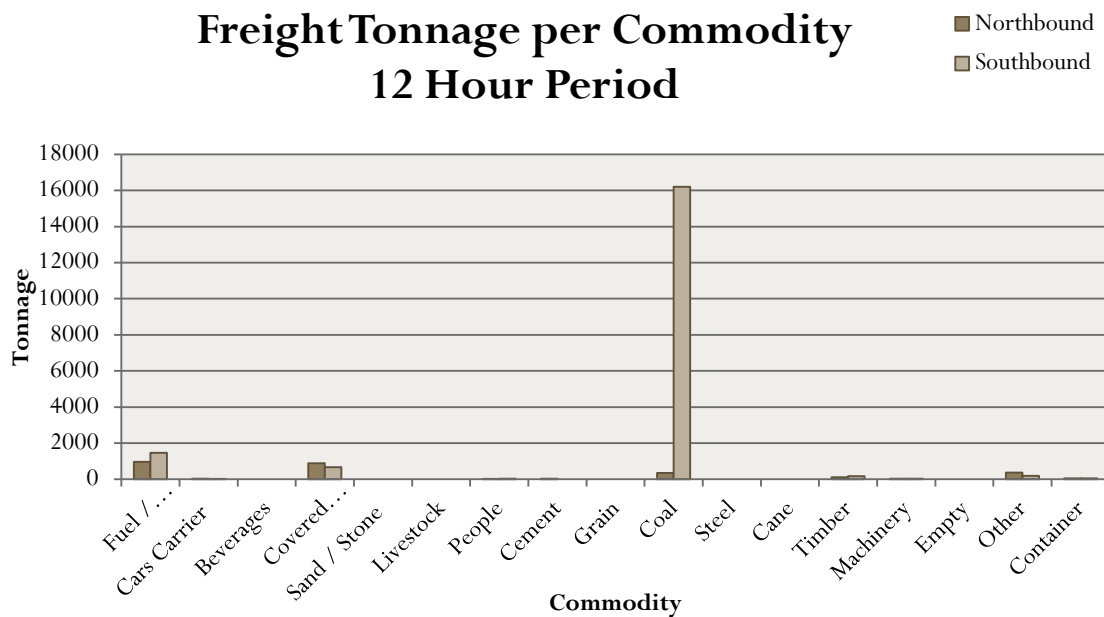
### Freight Volumes by Commodity Type 2023 - Yearly Period



Pongola (N002 Pongola to Mkuze)

Date: 31-10-2023

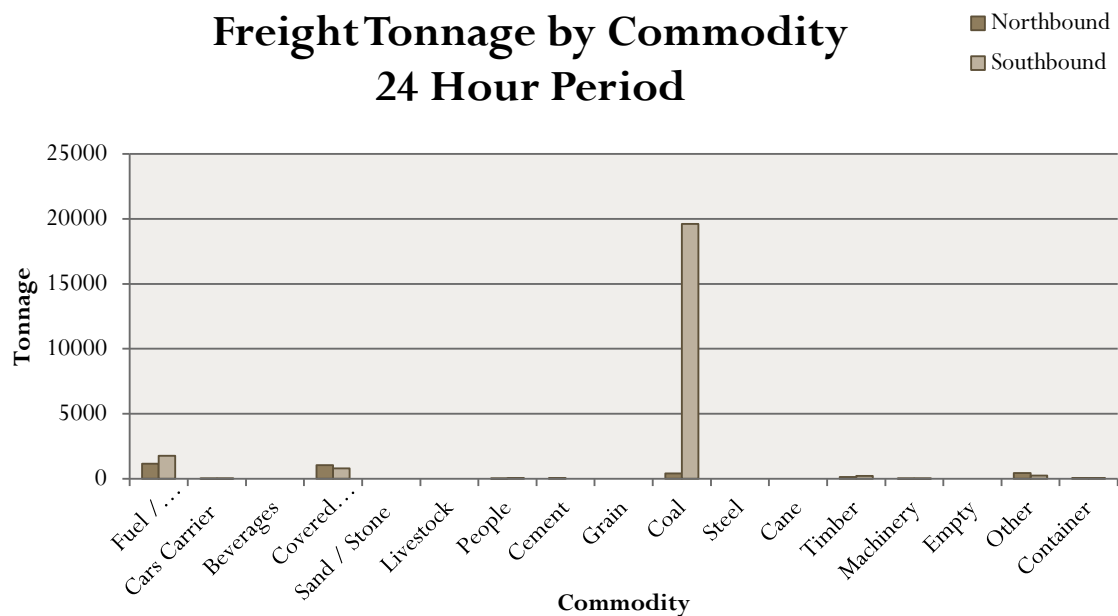
### Freight Tonnage per Commodity 12 Hour Period



Pongola (N002 Pongola to Mkuze)

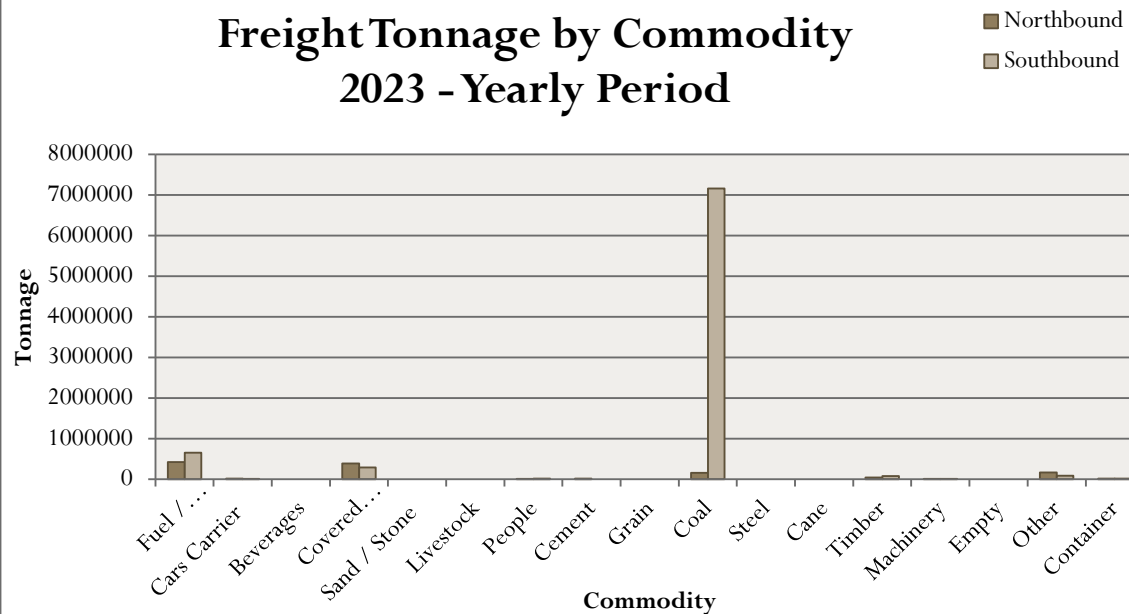
Date: 31-10-2023

### Freight Tonnage by Commodity 24 Hour Period



Pongola (N002 Pongola to Mkuze)

### Freight Tonnage by Commodity 2023 - Yearly Period



Pongola (N002 Pongola to Mkuze)													
Freight Tonnage by Commodity by Vehicle Class (12 Hours)												Date: 31-10-2023	
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	6	0	0	540	420	966	Fuel / Chemicals	6	0	0	940	525	1471
Cars Carrier	6	0	0	20	0	26	Cars Carrier	6	0	0	0	0	6
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	228	0	30	620	0	878	Covered Load / Sail or Tarp	306	10	30	320	0	666
Sand / Stone	0	0	0	0	0	0	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	18	0	0	0	0	18	People	0	0	0	0	35	35
Cement	0	0	0	0	35	35	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	350	350	Coal	0	0	0	0	16205	16205
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	105	105	Timber	0	0	0	0	175	175
Machinery	0	0	0	20	0	20	Machinery	0	0	0	20	0	20
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	54	0	0	140	175	369	Other	48	0	0	80	70	198
Container	0	0	0	40	0	40	Container	0	0	0	40	0	40

Pongola (N002 Pongola to Mkuze)													
Freight Tonnage by Commodity by Vehicle Class (24 Hours)												Date: 31-10-2023	
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	7	0	0	653	508	1169	Fuel / Chemicals	7	0	0	1137	635	1780
Cars Carrier	7	0	0	24	0	31	Cars Carrier	7	0	0	0	0	7
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	276	0	36	750	0	1062	Covered Load / Sail or Tarp	370	12	36	387	0	806
Sand / Stone	0	0	0	0	0	0	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	22	0	0	0	0	22	People	0	0	0	0	42	42
Cement	0	0	0	0	42	42	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	424	424	Coal	0	0	0	0	19608	19608
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	127	127	Timber	0	0	0	0	212	212
Machinery	0	0	0	24	0	24	Machinery	0	0	0	24	0	24
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	65	0	0	169	212	446	Other	58	0	0	97	85	240
Container	0	0	0	48	0	48	Container	0	0	0	48	0	48

Pongola (N002 Pongola to Mkuze)													
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	0	0	238491	185493	426634	Fuel / Chemicals	2650	0	0	415151	231866	649667
Cars Carrier	2650	0	0	8833	0	11483	Cars Carrier	2650	0	0	0	0	2650
Beverages	0	0	0	0	0	0	Beverages	0	0	0	0	0	0
Covered Load / Sail or Tarp	100696	0	13250	273823	0	387769	Covered Load / Sail or Tarp	135145	4417	13250	141328	0	294139
Sand / Stone	0	0	0	0	0	0	Sand / Stone	0	0	0	0	0	0
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	7950	0	0	0	0	7950	People	0	0	0	0	15458	15458
Cement	0	0	0	0	15458	15458	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	154578	154578	Coal	0	0	0	0	7156938	7156938
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	46373	46373	Timber	0	0	0	0	77289	77289
Machinery	0	0	0	8833	0	8833	Machinery	0	0	0	8833	0	8833
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	23849	0	0	61831	77289	162969	Other	21199	0	0	35332	30916	87447
Container	0	0	0	17666	0	17666	Container	0	0	0	17666	0	17666

Pongola (N002 Pongola to Mkuze)													
Twenty Foot Equivalent Unit (TEU) (12 Hours)												Date: 31-10-2023	
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			1		3	6 Axle	1			1		3
≥ 7 Axle						0	≥ 7 Axle						0
TOTAL						3	TOTAL						3

Pongola (N002 Pongola to Mkuze)													
Twenty Foot Equivalent Unit (TEU) (24 Hours)											Date: 31-10-2023		
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	1	0	4	6 Axle	1	0	0	1	0	4
≥ 7 Axle	0	0	0	0	0	0	≥ 7 Axle	0	0	0	0	0	0
TOTAL						4	TOTAL						4

Pongola (N002 Pongola to Mkuze)													
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	442	0	1325	6 Axle	442	0	0	442	0	1325
≥ 7 Axle	0	0	0	0	0	0	≥ 7 Axle	0	0	0	0	0	0
TOTAL						1325	TOTAL						1325