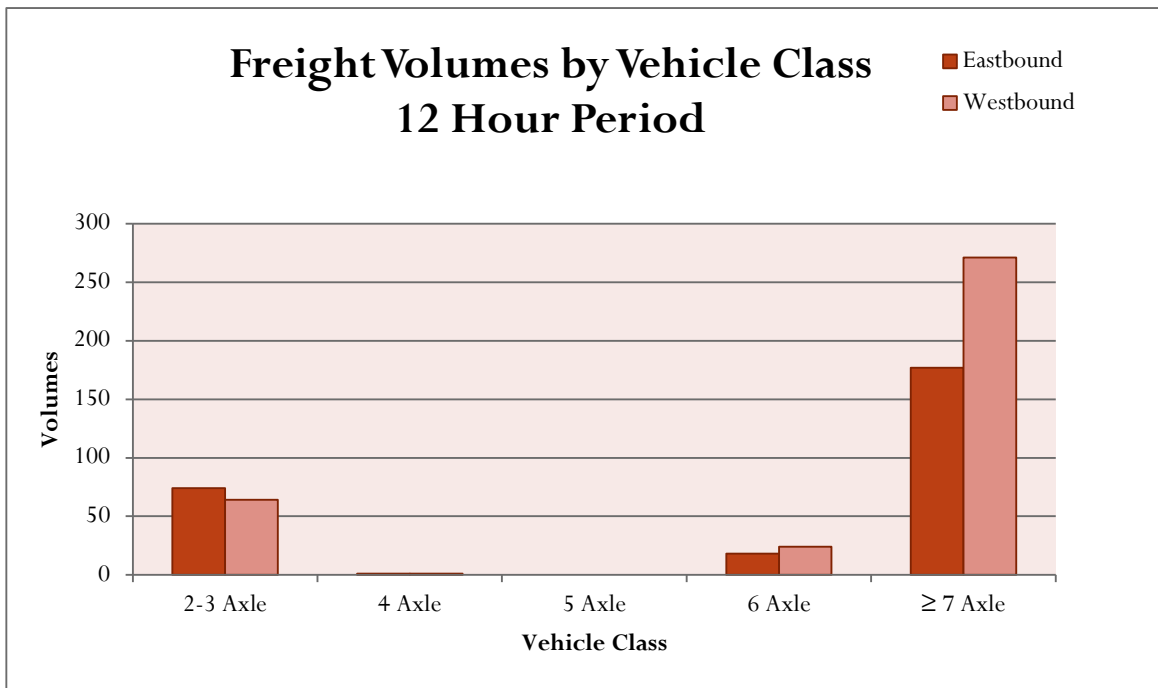


TRAFFIC HIGHLIGHTS OF SITE V9187			
1.1	Site Identifier	V9187	
1.2	Site Name	P230 Station 19	
1.3	Site Description	Segment 19	
1.4	Road Description	Route : Road : P230 Section : Distance : 0.0km	
1.5	GPS Position	31 50 59.1E -28 43 29.3S	
1.6	Number of Lanes	2	
1.7	Station Type	Secondary	
1.8	Requested Period	2021/02/15 - 2021/02/26	
1.9	Length of record requested (hours)	288	
1.10	Actual First & Last Dates	2021/02/15 - 2021/02/17	
1.11	Actual available good data (hours)	56	
1.12	Percentage good data available for requested period	19.6	
		To Richards Bay	Total
2.1a	Total number of vehicles (counted)	10515	21197
2.1b	Total number of vehicles (projected for period)	53608	108067
2.2	Average daily traffic (ADT)	4467	9006
2.3	Average daily truck traffic (ADTT)	435	951
2.4	Percentage of trucks	9.7	10.6
2.5	Truck split % (short:medium:long)	39 : 34 : 27	42 : 31 : 27
2.6	Percentage of night traffic (20:00 - 06:00)	6.8	6.2
3.1	Speed limit (km/hr)		60
3.2	Average speed (km/hr)	77.6	76.2
3.3	Average speed - light vehicles (km/hr)	78.0	76.6
3.4	Average speed - heavy vehicles (km/hr)	73.6	73.2
3.5	Average night speed (km/hr)	80.4	78.1
3.6	15th centile speed (km/hr)	65.6	63.5
3.7	85th centile speed (km/hr)	91.9	89.9
3.8	Percentage vehicles in excess of speed limit	91.5	90.7
4.1	Percentage vehicles in flows over 600 vehicles/hr	0.0	31.3
4.2	Highest volume on the road (vehicles/hr)	2021/02/17 16:00:00	759
4.3	Highest volume in the East (vehs/hr)	2021/02/17 16:00:00	435
4.4	Highest volume in the West (vehs/hr)	2021/02/17 18:00:00	431
4.5	Highest volume in a lane (vehicles/hr)	2021/02/17 16:00:00	435
4.6	15th highest volume on the road (vehicles/hr)	2021/02/16 08:00:00	580
4.7	15th highest volume in the East direction (vehs/hr)	2021/02/17 08:00:00	277
4.8	15th highest volume in the West direction (vehs/hr)	2021/02/15 14:00:00	286
4.9	30th highest volume on the road (vehicles/hr)	2021/02/16 11:00:00	464
4.10	30th highest volume in the East direction (vehs/hr)	2021/02/16 13:00:00	239
4.11	30th highest volume in the West direction (vehs/hr)	2021/02/16 14:00:00	225
5.1	Percentage of vehicles less than 2s behind vehicle ahead		
6.1	Total number of heavy vehicles (projected for period)	5215	11415
6.2	Estimated average number of axles per truck	4.4	4.3
6.3	Estimated truck mass (Ton/truck)	25.6	24.9
6.4	Estimated average E80/truck	1.6	1.6
6.5	Estimated daily E80 on the road		1509
6.6	Estimated daily E80 in the East direction		715
6.7	Estimated daily E80 in the West direction		794
6.8	Estimated daily E80 in the worst East lane		715
6.9	Estimated daily E80 in the worst West lane		794
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)

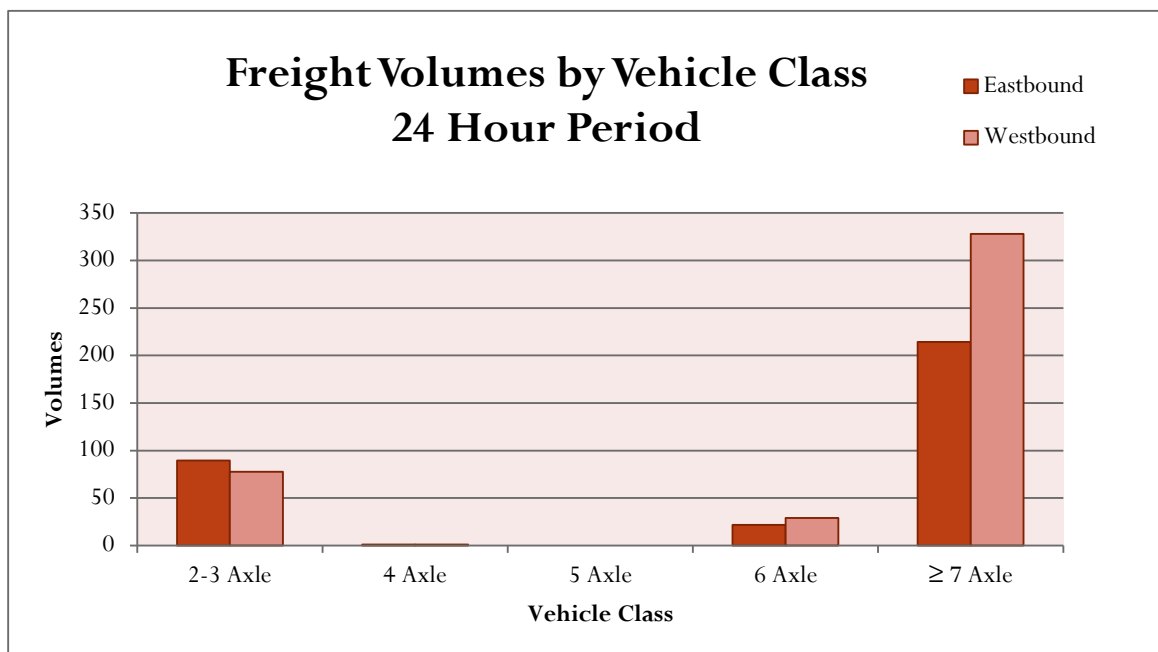
Empangeni (R43 Empangeni to Nkwalini)

Date: 04-10-2023

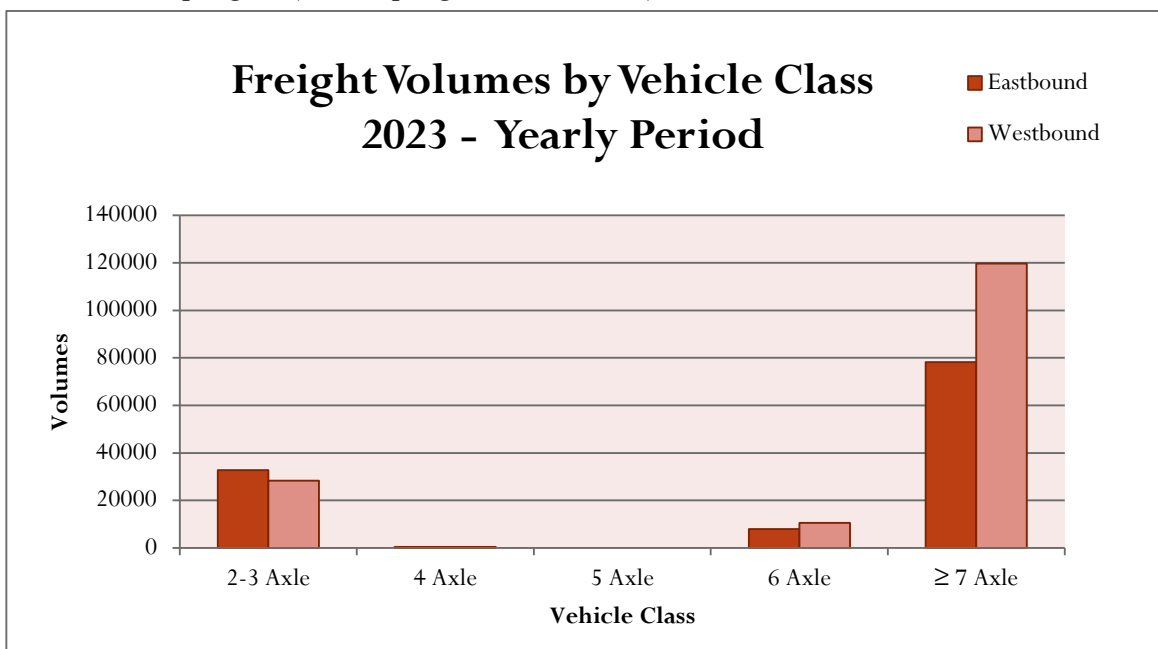


Empangeni (R43 Empangeni to Nkwalini)

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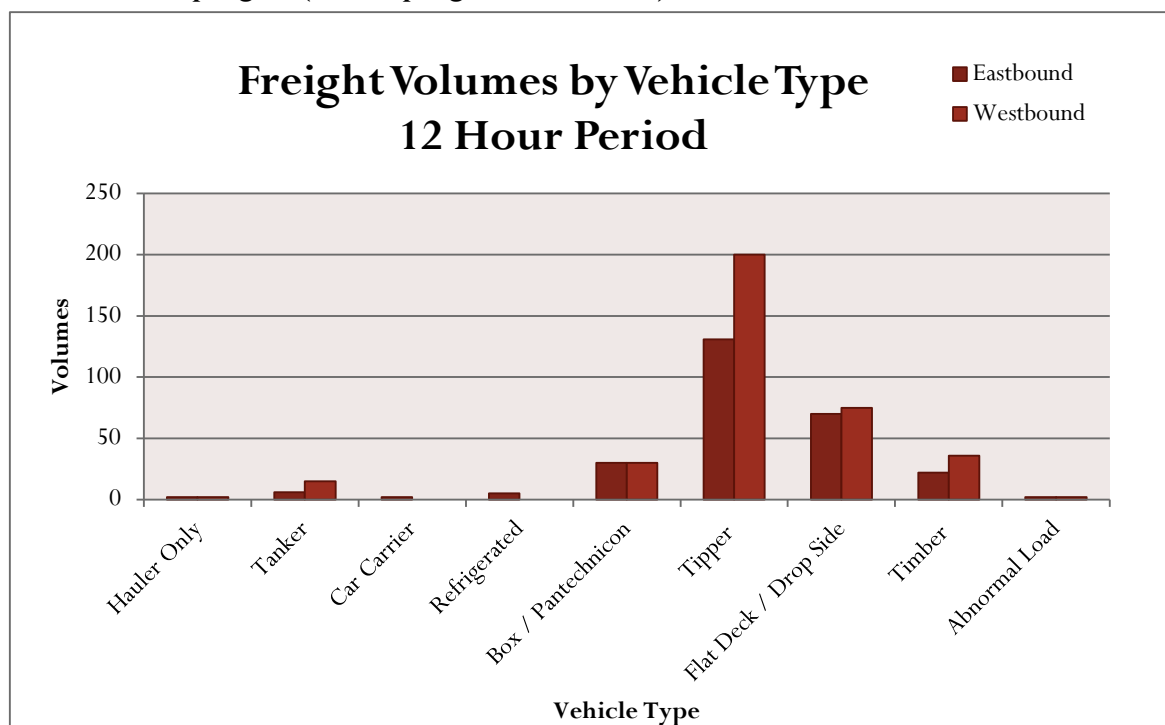


Empangeni (R43 Empangeni to Nkwalini)



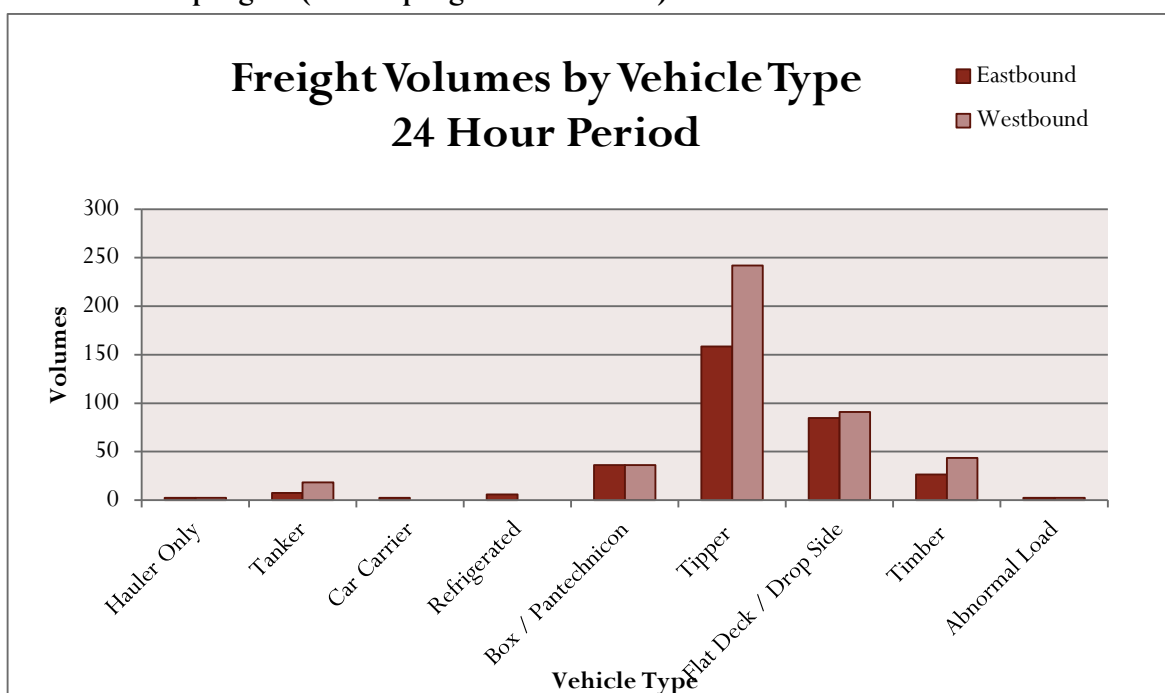
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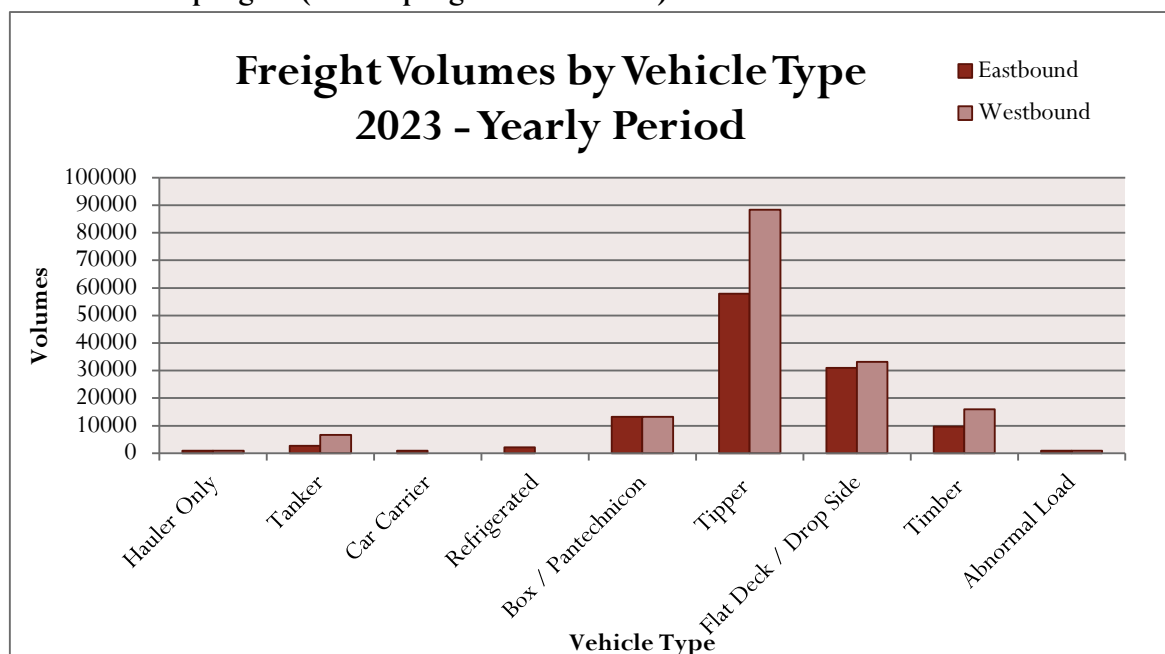


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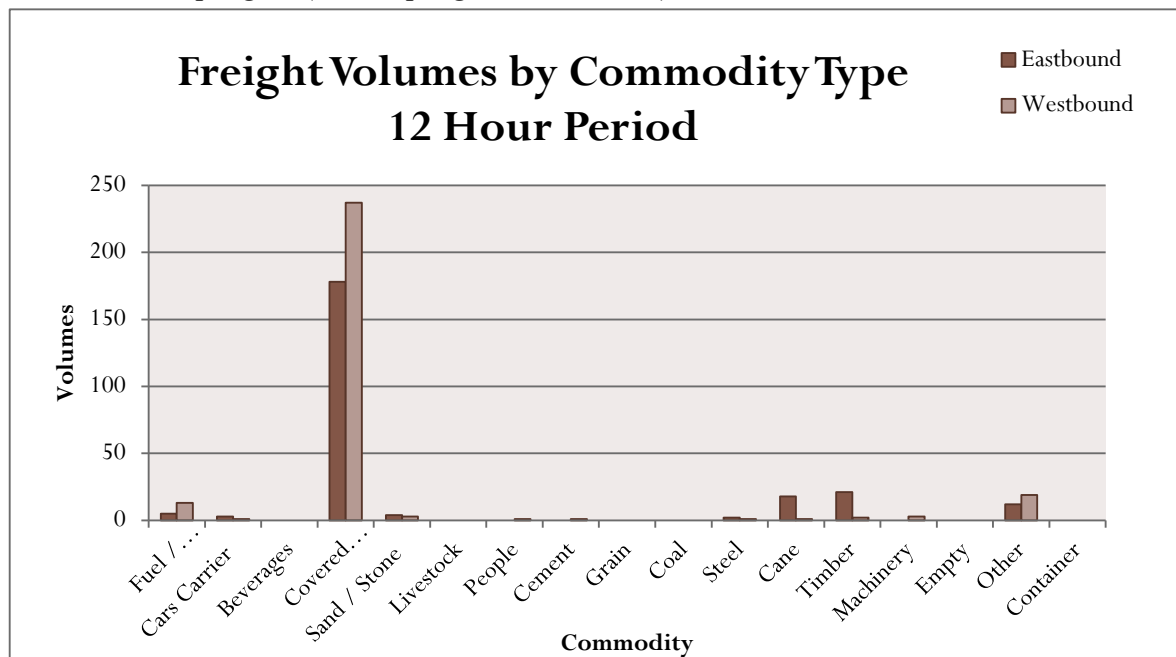


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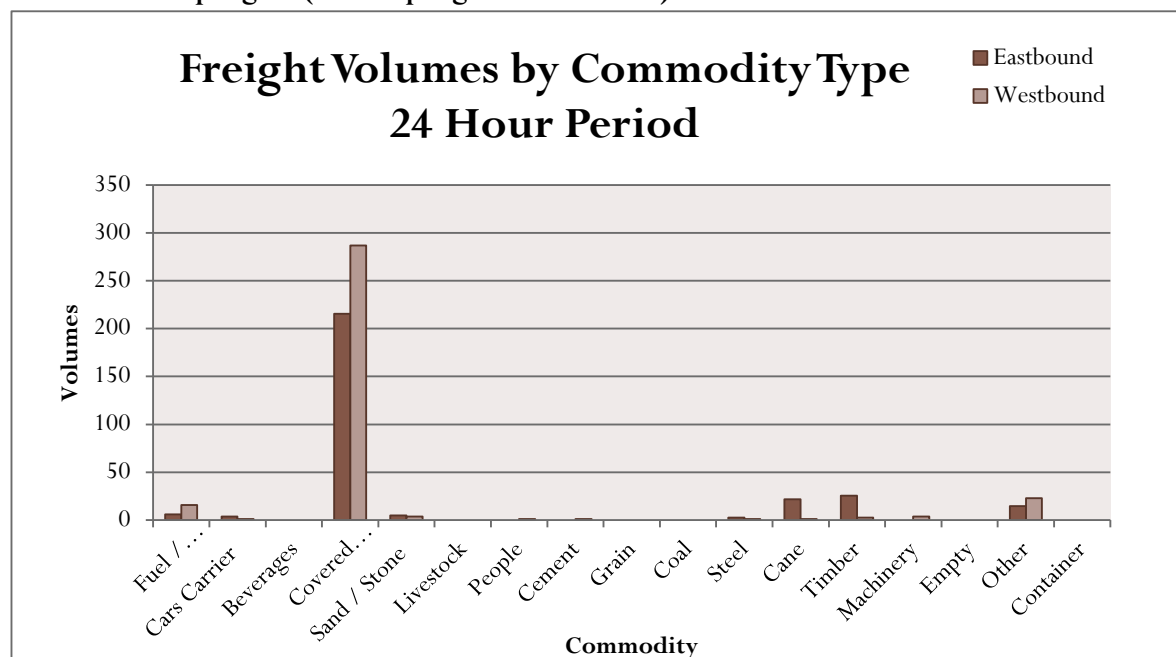
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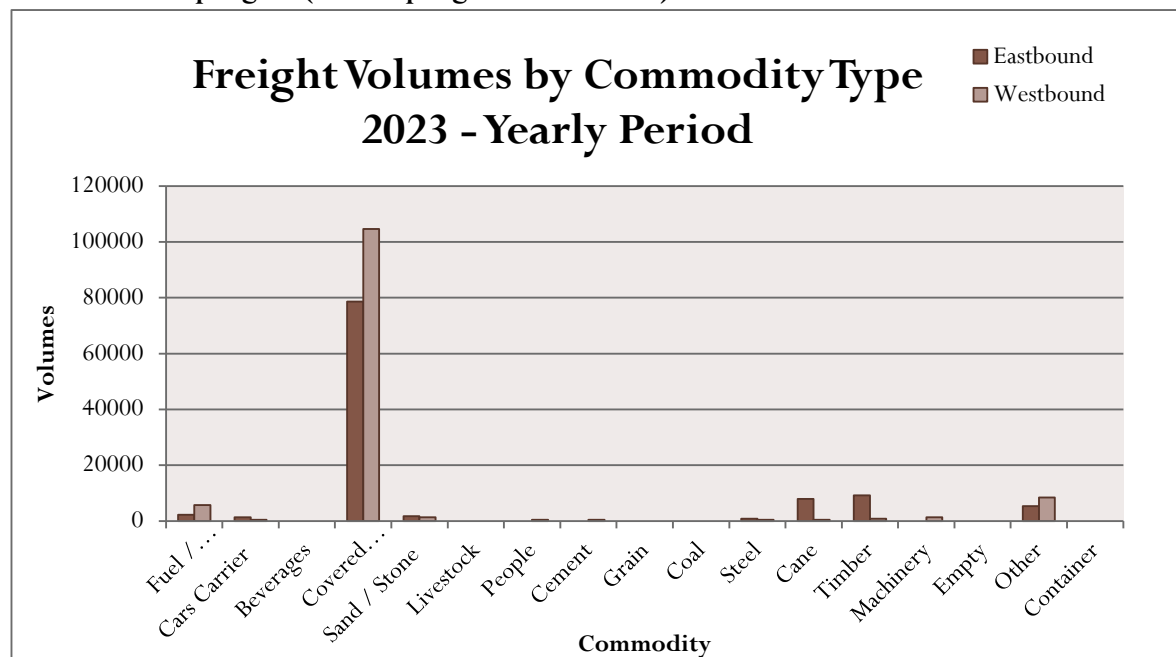


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Date: 04-10-2023

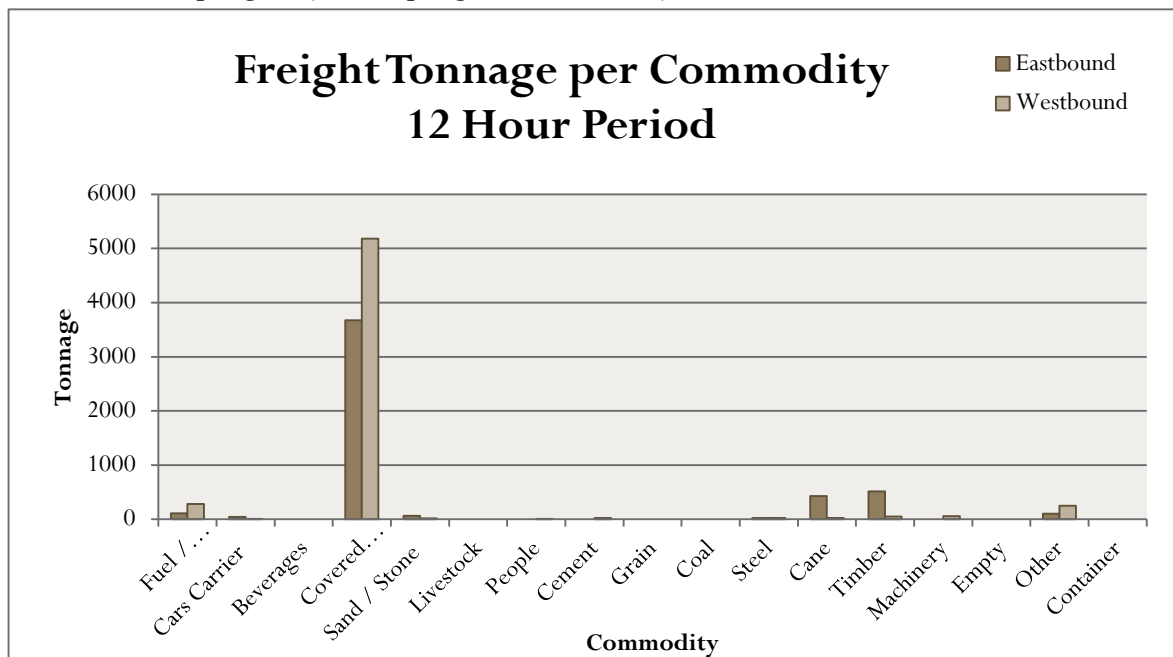


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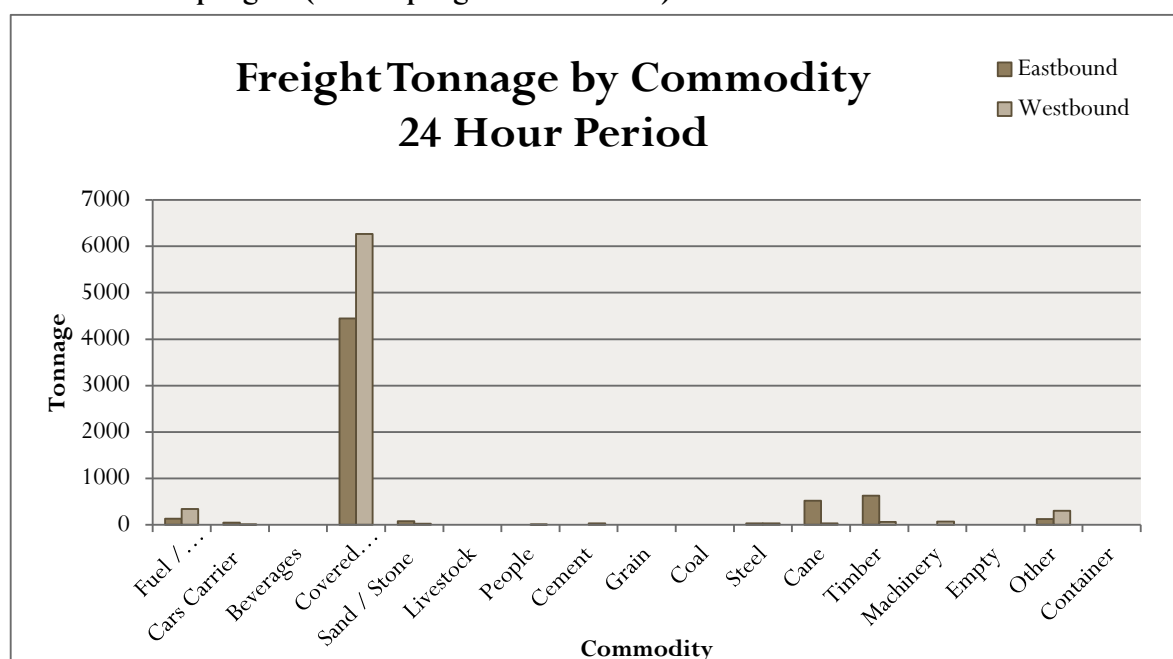
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Date: 04-10-2023

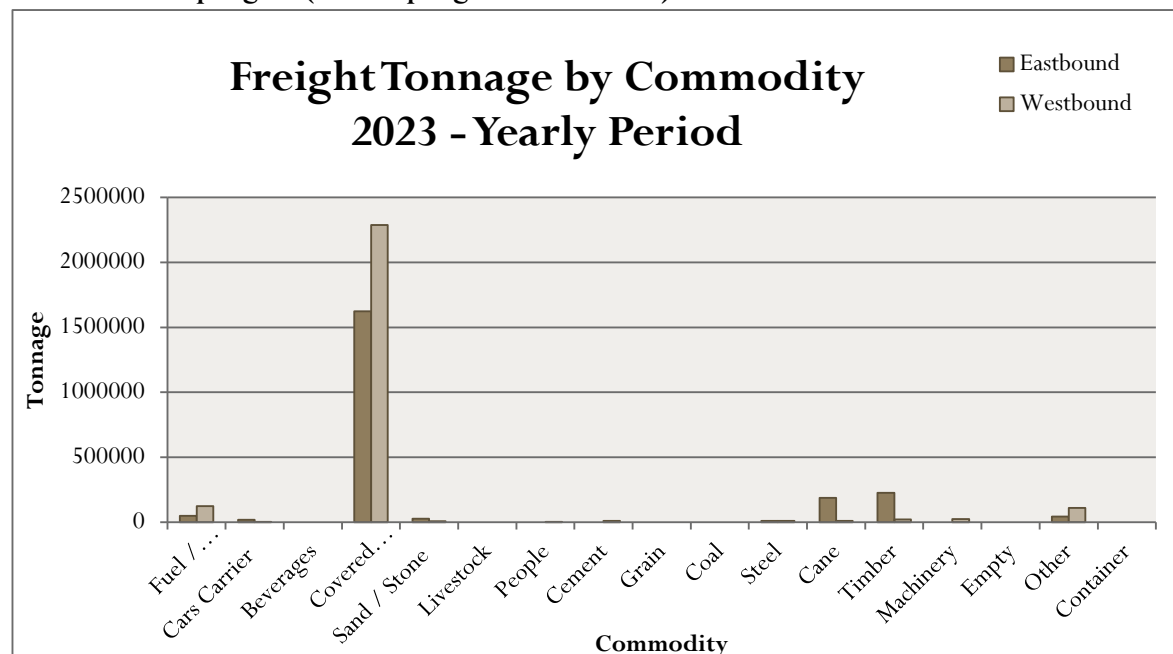


Empangeni (R43 Empangeni to Nkwalini)

Date: 04-10-2023



Empangeni (R43 Empangeni to Nkwalini)



Empangeni (R43 Empangeni to Nkwalini)													
Freight Tonnage by Commodity by Vehicle Class (12 Hours)												Date: 04-10-2023	
Eastbound							Westbound						
	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	60	50	110	Fuel / Chemicals	0	0	0	180	100	280
Cars Carrier	6	10	0	0	25	41	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	234	0	0	140	3300	3674	Covered Load / Sail or Tarp	210	10	0	260	4700	5180
Sand / Stone	12	0	0	0	50	62	Sand / Stone	18	0	0	0	0	18
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	0	0	0	0	0	0	People	6	0	0	0	0	6
Cement	0	0	0	0	0	0	Cement	0	0	0	0	25	25
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	6	0	0	20	0	26	Steel	0	0	0	0	25	25
Cane	6	0	0	20	400	426	Cane	0	0	0	0	25	25
Timber	0	0	0	40	475	515	Timber	0	0	0	0	50	50
Machinery	0	0	0	0	0	0	Machinery	6	0	0	0	50	56
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	60	0	0	40	0	100	Other	72	0	0	0	175	247
Container	0	0	0	0	0	0	Container	0	0	0	0	0	0

Empangeni (R43 Empangeni to Nkwalini)													
Freight Tonnage by Commodity by Vehicle Class (24 Hours)												Date: 04-10-2023	
Eastbound							Westbound						
	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	73	61	133	Fuel / Chemicals	0	0	0	218	121	339
Cars Carrier	7	12	0	0	30	50	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	283	0	0	169	3993	4446	Covered Load / Sail or Tarp	254	12	0	315	5687	6268
Sand / Stone	15	0	0	0	61	75	Sand / Stone	22	0	0	0	0	22
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	0	0	0	0	0	0	People	7	0	0	0	0	7
Cement	0	0	0	0	0	0	Cement	0	0	0	0	30	30
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	7	0	0	24	0	31	Steel	0	0	0	0	30	30
Cane	7	0	0	24	484	515	Cane	0	0	0	0	30	30
Timber	0	0	0	48	575	623	Timber	0	0	0	0	61	61
Machinery	0	0	0	0	0	0	Machinery	7	0	0	0	61	68
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	73	0	0	48	0	121	Other	87	0	0	0	212	299
Container	0	0	0	0	0	0	Container	0	0	0	0	0	0

Empangeni (R43 Empangeni to Nkwalini)													
Freight Tonnage by Commodity by Vehicle Class (Yearly Period)													
Eastbound							Westbound						
	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	26499	22083	48582	Fuel / Chemicals	0	0	0	79497	44165	123662
Cars Carrier	2650	4417	0	0	11041	18108	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	103346	0	0	61831	1457445	1622622	Covered Load / Sail or Tarp	92747	4417	0	114829	2075755	2287747
Sand / Stone	5300	0	0	0	22083	27382	Sand / Stone	7950	0	0	0	0	7950
Livestock	0	0	0	0	0	0	Livestock	0	0	0	0	0	0
People	0	0	0	0	0	0	People	2650	0	0	0	0	2650
Cement	0	0	0	0	0	0	Cement	0	0	0	0	11041	11041
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	2650	0	0	8833	0	11483	Steel	0	0	0	0	11041	11041
Cane	2650	0	0	8833	176660	188143	Cane	0	0	0	0	11041	11041
Timber	0	0	0	17666	209784	227450	Timber	0	0	0	0	22083	22083
Machinery	0	0	0	0	0	0	Machinery	2650	0	0	0	22083	24732
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	26499	0	0	17666	0	44165	Other	31799	0	0	0	77289	109088
Container	0	0	0	0	0	0	Container	0	0	0	0	0	0

Empangeni (R43 Empangeni to Nkwalini)													
Twenty Foot Equivalent Unit (TEU) (12 Hours)											Date: 04-10-2023		
Eastbound							Westbound						
	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

Empangeni (R43 Empangeni to Nkwalini)													
Twenty Foot Equivalent Unit (TEU) (24 Hours)												Date: 04-10-2023	
Eastbound							Westbound						
	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

Empangeni (R43 Empangeni to Nkwalini)													
Twenty Foot Equivalent Unit (TEU) (Yearly Period)													
Eastbound							Westbound						
	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