

TRAFFIC HIGHLIGHTS OF SITE 1106				
1.1	Site Identifier	1106		
1.2	Site Name	Thornville		
1.3	Site Description	Between Thornville & PMB		
1.4	Road Description	Route : 56 Road : MR 5 Section : 4 Distance : 28.4km		
1.5	GPS Position	30 22 47.6E -29 40 41.8S		
1.6	Number of Lanes	2		
1.7	Station Type	Permanent		
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)	8754		
1.12	Percentage good data available for requested period	99.9		
		To P.M.B	To Thornville	Total
2.1a	Total number of vehicles (counted)	1511537	1548331	3059868
2.1b	Total number of vehicles (projected for period)	1512538	1549357	3061895
2.2	Average daily traffic (ADT)	4144	4245	8389
2.3	Average daily truck traffic (ADTT)	447	464	910
2.4	Percentage of trucks	10.8	10.9	10.8
2.5	Truck split % (short:medium:long)	72 : 13 : 15	70 : 15 : 15	71 : 14 : 15
2.6	Percentage of night traffic (20:00 - 06:00)	10.0	12.1	11.1
3.1	Speed limit (km/hr)	80		
3.2	Average speed (km/hr)	67.6	72.3	70.0
3.3	Average speed - light vehicles (km/hr)	68.3	73.3	70.8
3.4	Average speed - heavy vehicles (km/hr)	62.2	64.0	63.1
3.5	Average night speed (km/hr)	69.9	72.8	71.5
3.6	15th centile speed (km/hr)	55.8	57.9	55.8
3.7	85th centile speed (km/hr)	81.0	88.0	85.0
3.8	Percentage vehicles in excess of speed limit	15.2	27.4	21.4
4.1	Percentage vehicles in flows over 600 vehicles/hr	0.0	0.5	35.9
4.2	Highest volume on the road (vehicles/hr)	2022/02/12 09:00:00		1295
4.3	Highest volume in the North (vehs/hr)	2022/06/21 13:00:00		555
4.4	Highest volume in the South (vehs/hr)	2022/10/21 17:00:00		916
4.5	Highest volume in a lane (vehicles/hr)	2022/10/21 17:00:00		916
4.6	15th highest volume on the road (vehicles/hr)	2022/08/05 18:00:00		937
4.7	15th highest volume in the North direction (vehs/hr)	2022/02/28 07:00:00		476
4.8	15th highest volume in the South direction (vehs/hr)	2022/03/17 18:00:00		589
4.9	30th highest volume on the road (vehicles/hr)	2022/09/30 17:00:00		889
4.10	30th highest volume in the North direction (vehs/hr)	2022/11/14 07:00:00		460
4.11	30th highest volume in the South direction (vehs/hr)	2022/02/12 07:00:00		525
5.1	Percentage of vehicles less than 2s behind vehicle ahead	26.6	14.0	20.2
6.1	Total number of heavy vehicles (projected for period)	162975	169227	332202
6.2	Estimated average number of axles per truck	3.1	3.1	3.1
6.3	Estimated truck mass (Ton/truck)	14.5	16.9	15.7
6.4	Estimated average E80/truck	1.2	2.5	1.9
6.5	Estimated daily E80 on the road	1710		
6.6	Estimated daily E80 in the North direction	557		
6.7	Estimated daily E80 in the South direction	1177		
6.8	Actual average daily E80 in the worst North lane	425		
6.9	Actual average daily E80 in the worst South lane	836		
6.10	Actual average Axles/Truck (Short:Medium:Long)	(2.4 : 3.2 : 6.3)	(2.4 : 3.1 : 6.3)	(2.4 : 3.1 : 6.3)
6.11	Actual average Mass/Truck (Short:Medium:Long)	(11.0 : 16.4 : 30.0)	(12.7 : 18.2 : 35.8)	(11.8 : 17.3 : 32.9)
6.12	Actual average E80s/Truck (Short:Medium:Long)	(0.9 : 1.3 : 2.7)	(2.4 : 2.2 : 3.5)	(1.6 : 1.8 : 3.1)

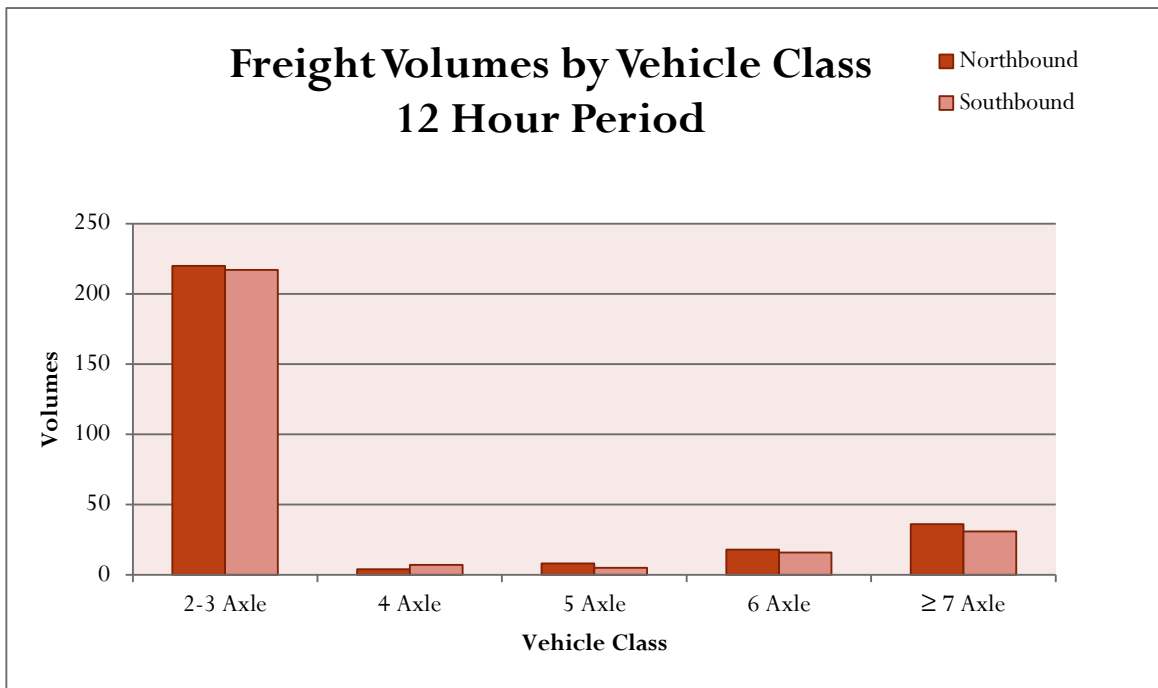
L/H/Volume Report

Date : 2023/10/02
Site : 1106 - Thornville
Description : Between Thornville & PMB

Date	Time	Dur.	Lane 1			Lane 2			To P.M.B			To Thornville		
			Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total	Light	Hvy	Total
231002	00:00	24:00	4250	434	4684	4229	428	4657	4250	434	4684	4229	428	4657
231003	00:00	24:00	4048	473	4521	4058	508	4566	4048	473	4521	4058	508	4566
231004	00:00	24:00	3875	491	4366	4032	500	4532	3875	491	4366	4032	500	4532
231005	00:00	24:00	4202	478	4680	4371	496	4867	4202	478	4680	4371	496	4867
231006	00:00	24:00	4489	442	4931	4766	464	5230	4489	442	4931	4766	464	5230
231007	00:00	24:00	3876	295	4171	3970	278	4248	3876	295	4171	3970	278	4248
231008	00:00	24:00	3926	114	4040	3416	115	3531	3926	114	4040	3416	115	3531

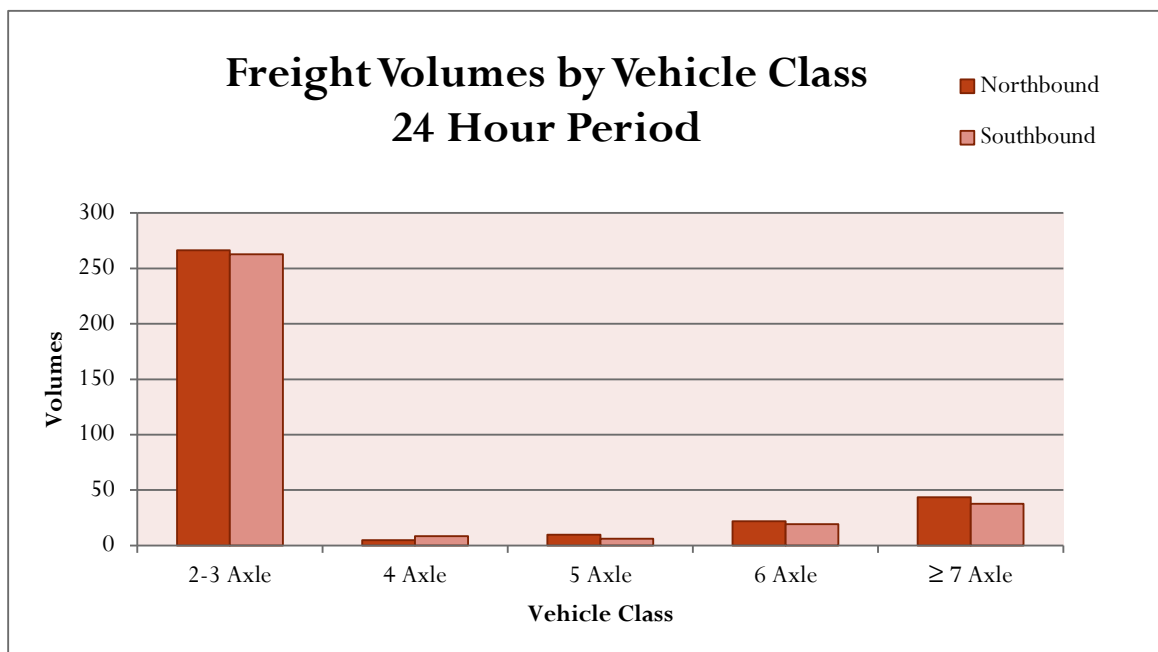
Thornville (R56 Thornville to Pietermaritzburg)

Date: 16-08-2023

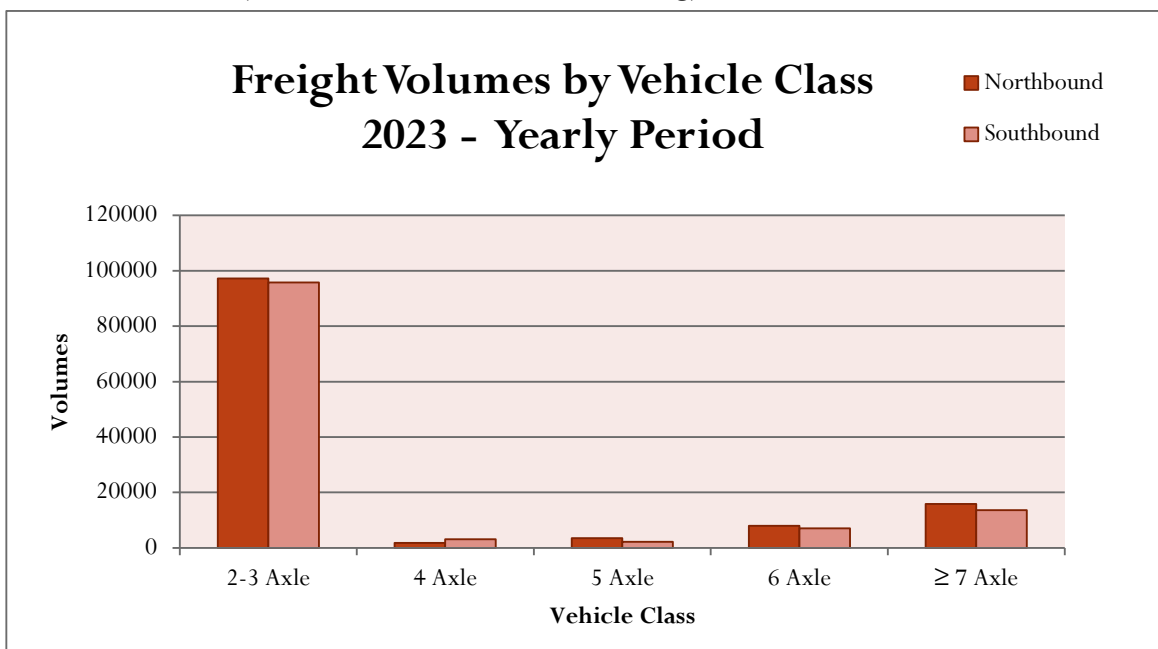


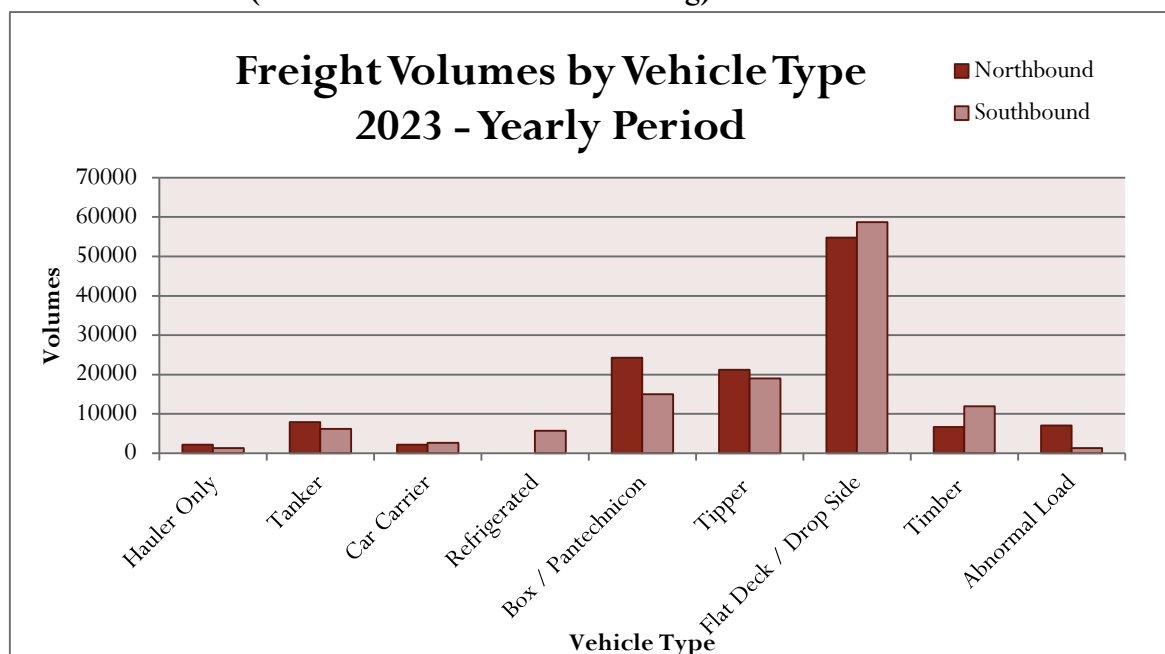
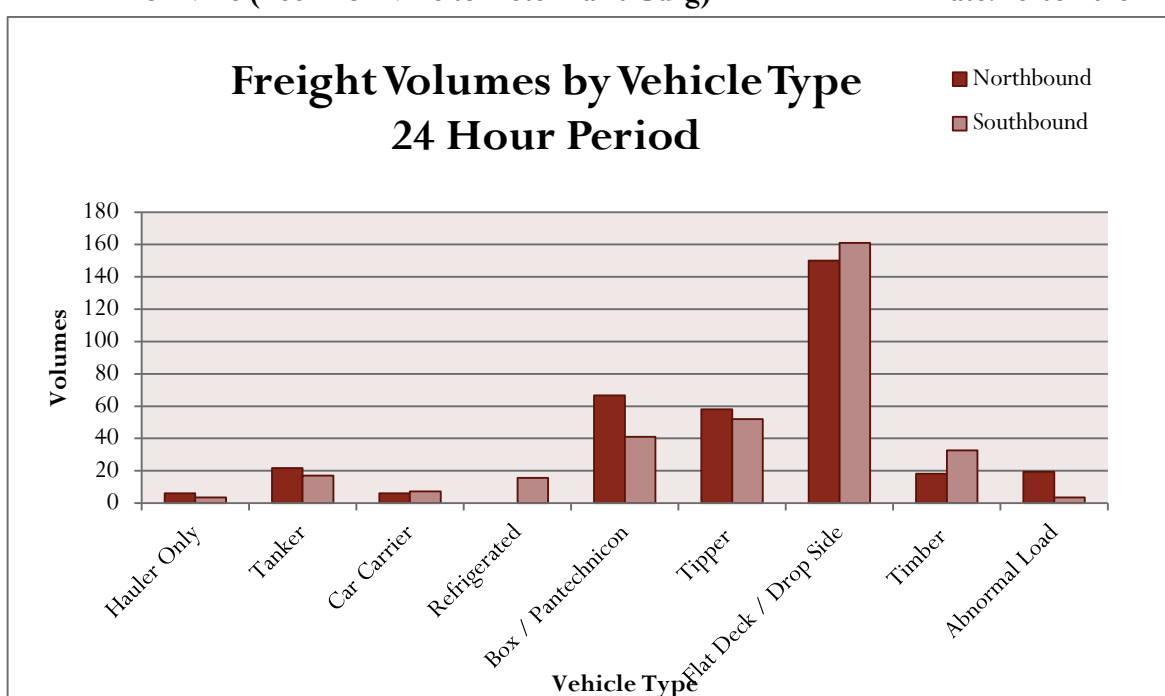
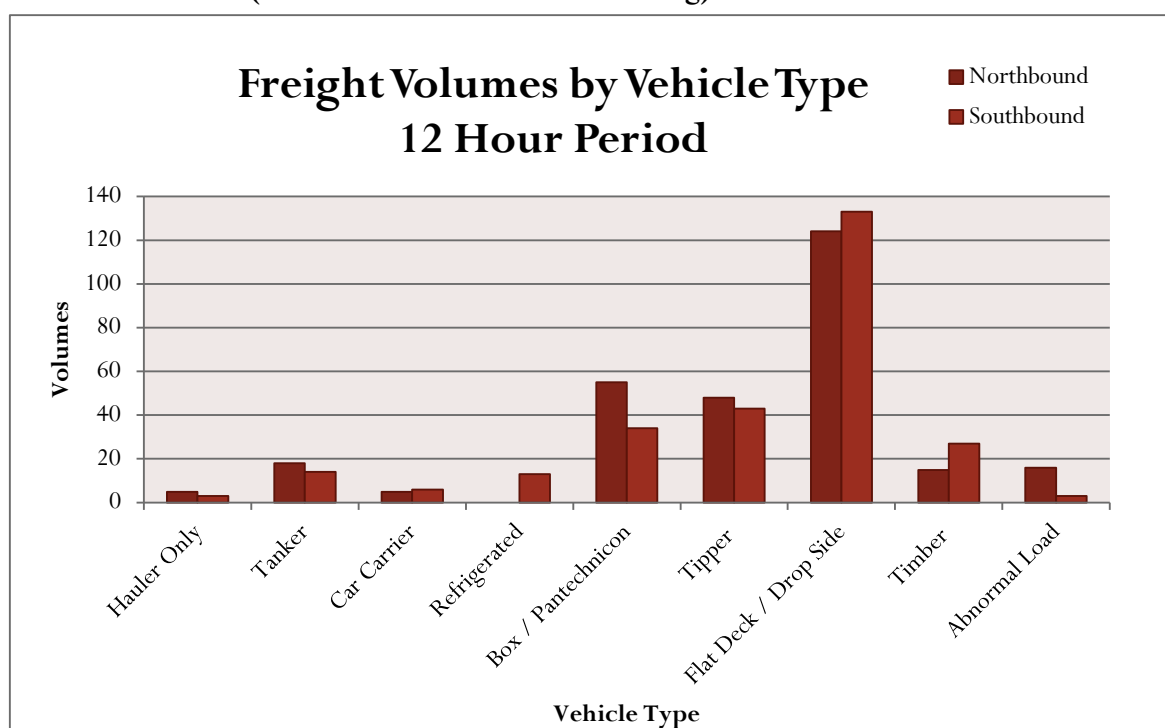
Thornville (R56 Thornville to Pietermaritzburg)

Date: 16-08-2023

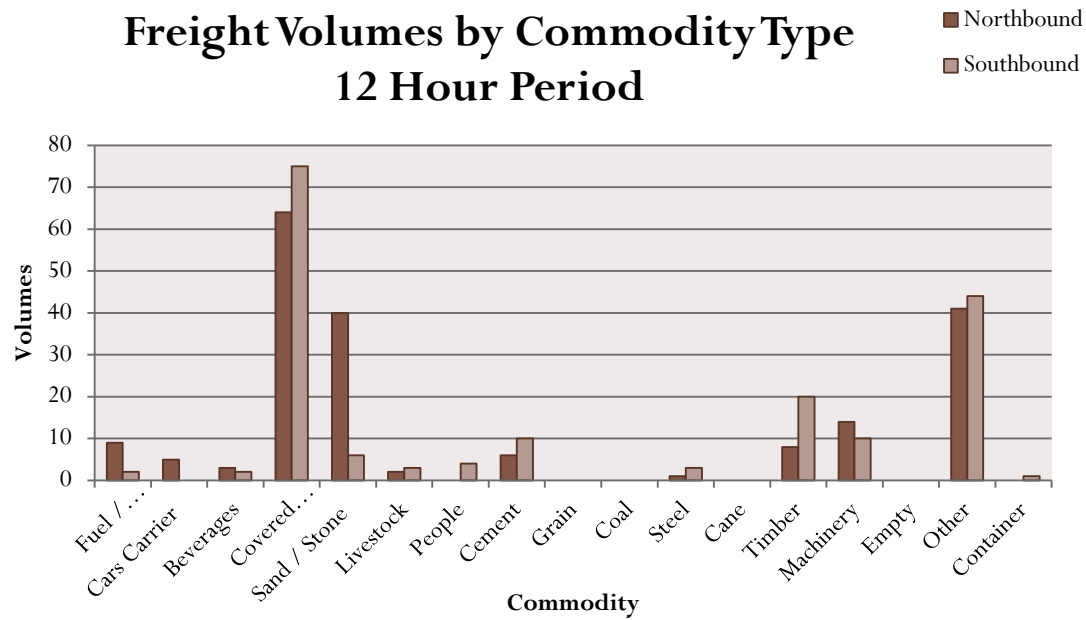


Thornville (R56 Thornville to Pietermaritzburg)

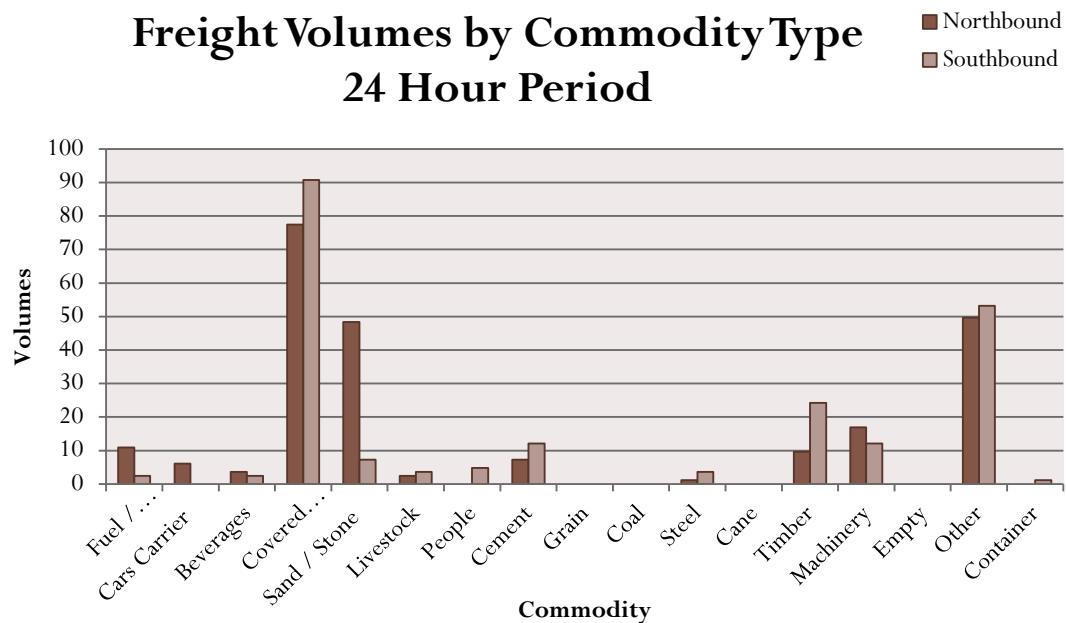




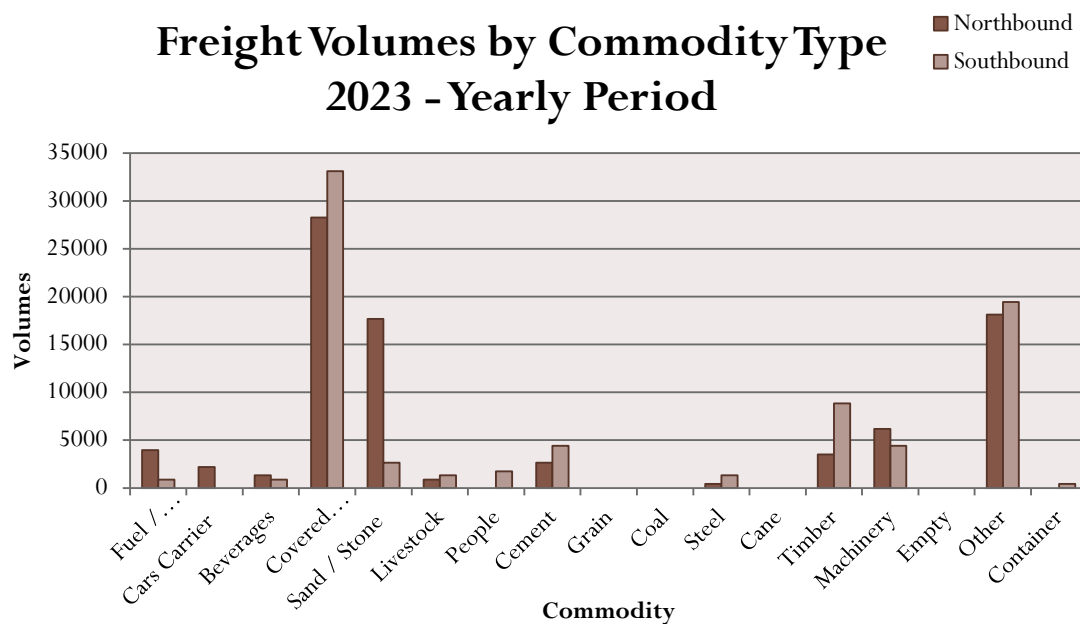
Freight Volumes by Commodity Type 12 Hour Period

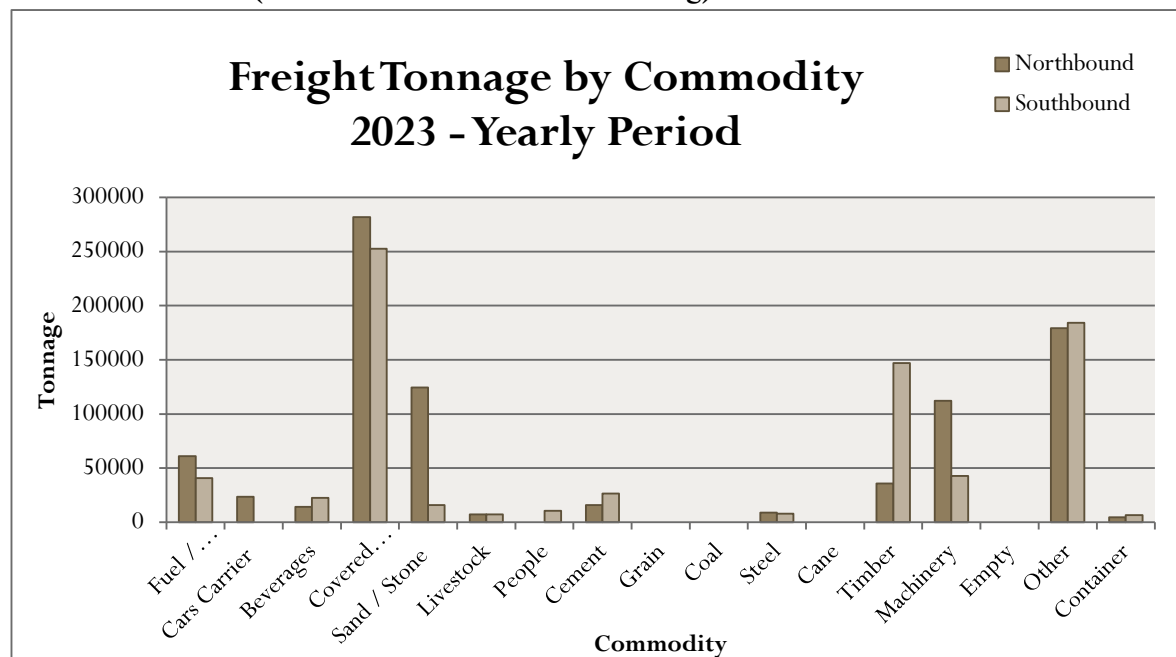
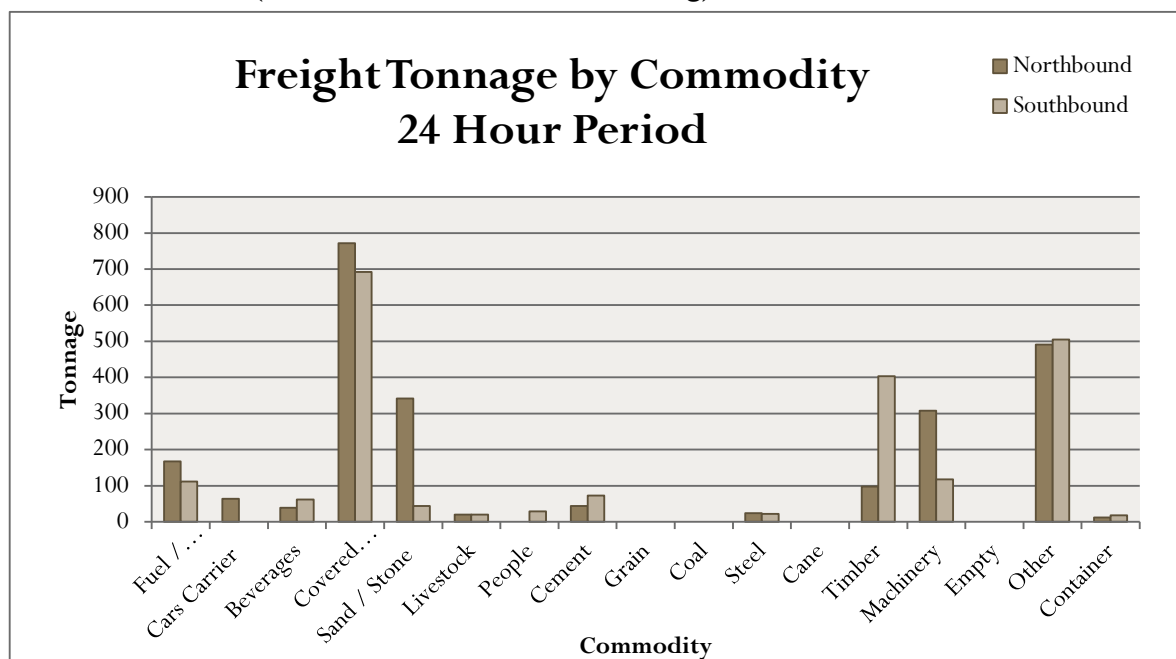
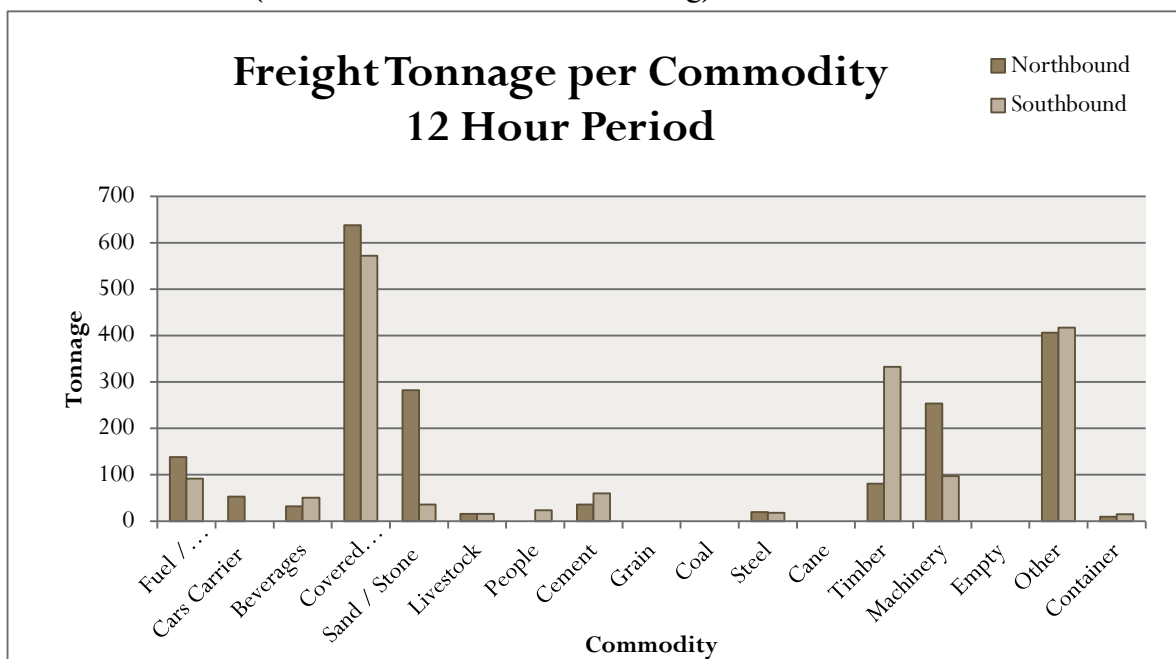


Freight Volumes by Commodity Type 24 Hour Period



Freight Volumes by Commodity Type 2023 - Yearly Period





Thornville (R56 Thornville to Pietermaritzburg)													
Freight Tonnage by Commodity by Vehicle Class (12 Hours)												Date: 16-08-2023	
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	18	0	15	80	25	138	Fuel / Chemicals	12	0	0	80	0	92
Cars Carrier	18	0	15	20	0	53	Cars Carrier	0	0	0	0	0	0
Beverages	12	0	0	20	0	32	Beverages	6	0	0	20	25	51
Covered Load / Sail or Tarp	288	10	45	20	275	638	Covered Load / Sail or Tarp	372	10	15	0	175	572
Sand / Stone	222	0	15	20	25	282	Sand / Stone	36	0	0	0	0	36
Livestock	6	10	0	0	0	16	Livestock	6	10	0	0	0	16
People	0	0	0	0	0	0	People	24	0	0	0	0	24
Cement	36	0	0	0	0	36	Cement	60	0	0	0	0	60
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	20	0	20	Steel	18	0	0	0	0	18
Cane	0	0	0	0	0	0	Cane	0	0	0	0	0	0
Timber	36	0	0	20	25	81	Timber	48	0	0	60	225	333
Machinery	24	0	0	80	150	254	Machinery	42	10	0	20	25	97
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	186	10	15	20	175	406	Other	192	30	0	120	75	417
Container	0	10	0	0	0	10	Container	0	0	15	0	0	15

Thornville (R56 Thornville to Pietermaritzburg)													
Freight Tonnage by Commodity by Vehicle Class (24 Hours)													Date: 16-08-2023
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	22	0	18	97	30	167	Fuel / Chemicals	15	0	0	97	0	111
Cars Carrier	22	0	18	24	0	64	Cars Carrier	0	0	0	0	0	0
Beverages	15	0	0	24	0	39	Beverages	7	0	0	24	30	62
Covered Load / Sail or Tarp	348	12	54	24	333	772	Covered Load / Sail or Tarp	450	12	18	0	212	692
Sand / Stone	269	0	18	24	30	341	Sand / Stone	44	0	0	0	0	44
Livestock	7	12	0	0	0	19	Livestock	7	12	0	0	0	19
People	0	0	0	0	0	0	People	29	0	0	0	0	29
Cement	44	0	0	0	0	44	Cement	73	0	0	0	0	73
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	24	0	24	Steel	22	0	0	0	0	22
Cane	0	0	0	0	0	0	Cane	0	0	0	0	0	0
Timber	44	0	0	24	30	98	Timber	58	0	0	73	272	403
Machinery	29	0	0	97	182	307	Machinery	51	12	0	24	30	117
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	225	12	18	24	212	491	Other	232	36	0	145	91	505
Container	0	12	0	0	0	12	Container	0	0	18	0	0	18

2379

2095

Thornville (R56 Thornville 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	7950	0	6625	35332	11041	60948	Fuel / Chemicals	5300	0	0	35332	0	40632
Cars Carrier	7950	0	6625	8833	0	23407	Cars Carrier	0	0	0	0	0	0
Beverages	5300	0	0	8833	0	14133	Beverages	2650	0	0	8833	11041	22524
Covered Load / Sail or Tarp	127195	4417	19874	8833	121454	281773	Covered Load / Sail or Tarp	164294	4417	6625	0	77289	252624
Sand / Stone	98046	0	6625	8833	11041	124545	Sand / Stone	15899	0	0	0	0	15899
Livestock	2650	4417	0	0	0	7066	Livestock	2650	4417	0	0	0	7066
People	0	0	0	0	0	0	People	10600	0	0	0	0	10600
Cement	15899	0	0	0	0	15899	Cement	26499	0	0	0	0	26499
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	8833	0	8833	Steel	7950	0	0	0	0	7950
Cane	0	0	0	0	0	0	Cane	0	0	0	0	0	0
Timber	15899	0	0	8833	11041	35774	Timber	21199	0	0	26499	99371	147069
Machinery	10600	0	0	35332	66248	112179	Machinery	18549	4417	0	8833	11041	42840
Empty	0	0	0	0	0	0	Empty	0	0	0	0	0	0
Other	82147	4417	6625	8833	77289	179310	Other	84797	13250	0	52998	33124	184168
Container	0	4417	0	0	0	4417	Container	0	0	6625	0	0	6625

Thornville (R56 Thornville to Pietermaritzburg)													
Twenty Foot Equivalent Unit (TEU) (12 Hours)												Date: 16-08-2023	
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		1				2
6 Axle						0	6 Axle						0
≥ 7 Axle						0	≥ 7 Axle						0
TOTAL						0	TOTAL						2

Thornville (R56 Thornville to Pietermaritzburg)													
Twenty Foot Equivalent Unit (TEU) (24 Hours)												Date: 16-08-2023	
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	1	0	0	0	2
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						2

Thornville (R56 Thornville 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	442	0	0	0	883
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						883