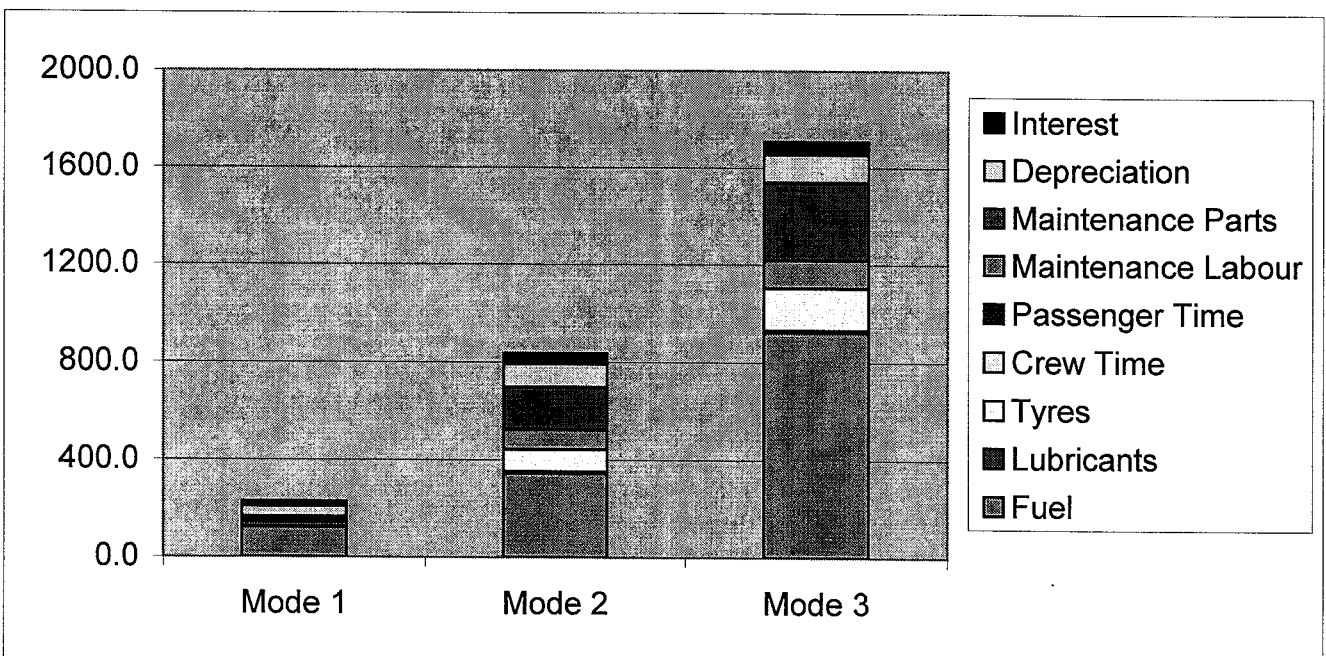


Physical Quantities per 1000 vehicle-km		Mode 1	Mode 2	Mode 3
Fuel Consumption	Litres	135.3	399.7	1069.1
Lubricants	Litres	2.0	4.8	5.6
Tyre	% of equivalent new tyres	0.1	0.3	0.6
Crew Time	Hours	0.0	14.0	0.0
Passenger Time	Hours	0.0	0.0	0.0
Cargo Holding (1)	Hours	0.0	0.0	0.0
Maintenance Labour	Hours	2.8	24.9	35.0
Maintenance Parts	% of new vehicle price	0.2	0.3	0.4
Depreciation	% of new vehicle price	0.7	0.2	0.1
Interest	% of new vehicle price	0.3	0.1	0.1
Vehicle Speed	Km/hour	83.0	72.3	66.4
Vehicle Operating Costs in \$US per 1000 vehicle km		Mode 1	Mode 2	Mode 3
Fuel		122.7	344.7	922.1
Lubricants		2.5	6.0	7.0
Tyres		15.3	90.6	174.4
Crew Time		0.0	0.0	0.0
Passenger Time		0.0	0.0	0.0
Maintenance Labour		9.2	82.2	115.5
Maintenance Parts		14.4	173.8	320.4
Depreciation		43.4	94.9	115.7
Interest		20.6	43.2	53.4
TOTAL		228.1	835.4	1708.5



The Roads and Road Traffic Act
(Laws, Volume XV, Cap. 766)

Notice of the Maximum Vehicle Dimensions and Maximum Axle Loadings Permissible on the Zambian Roads

IT IS HEREBY NOTIFIED for public information with emphasis to all transporters, importers, exporters, clearing agents, and all industries making use of Road Transport for distribution of Produce that the current legislation as regards Axle Loads and Vehicle Dimensions is as follows:

Axle Loadings

- Single Steering Axle (2 tyres)
- Single Load/Drive Axle (4 tyres)
- Tandem Axle Group (8 tyres)
- Tandem Axle Group (6 tyres)
- Triple Axle Group (12 tyres)

Maximum Tonnage

- 8.0 tonnes
- 10.0 tonnes
- 16.0 tonnes
- 12.0 tonnes
- 24.0 tonnes

Tandem Axle Group (6 tyres) (Independent Axles)—Each Axle to be weighed separately. Permitted weight is 10.0 tonnes on 4 tyres Axle and 4 tonnes on 2 tyres Axle.

Tandem and Triple Axle Groups means Axles suspended and Interconnected in such a manner that any load imposed upon them will automatically be distributed proportionally between them regardless of the road profile and condition.

In the case of Tandem Axles, the distance between the centre of rotation shall not exceed 1.7 metres, and in the case of Triple Axle groups, the distance between the centre of rotation of the outermost Axles shall not exceed 3.0 metres.

Vehicle Dimensions

Length:

- Rigid Chassis Single Vehicle
- Articulated vehicles
- Truck and Drawbar Trailer
- Articulated vehicle with Articulated or Inter-link Trailer

Maximum Length

- 12.5 metres
- 17.0 metres
- 22.0 metres
- 22.0 metres
- 2.65 metres
- 4.60 metres

- Width
- Height

All those to whom it may concern are further informed that this Legislation will be strictly enforced with effect from 1st December, 1993. In addition to any fines imposed and in terms of Cap. 766 (Roads and Road Traffic Act), overloaded vehicles will be detained at weighbridges until such time as any excess load has been removed from the truck. Incorrectly distributed loads will have to be adjusted before trucks are allowed to continue.

Shippers of goods should also note that they may be liable for any fines imposed.

LUSAKA
24th November, 1993
[RDHQ.101/12/55]

T. NGOMA,
Director of Roads

Summary of Traffic Count Survey on the Feasibility Study on the Proposed Kazungula Bridge, September 2000

Traffic Direction	Botswana→Zambia				Zambia→Botswana			
	Junction of KASANE		Pontoon		Junction of Kasane		Pontoon	
	Date	13/09	14/09	15/09	16/09	13/09	14/09	15/09
Pedestrian	18	11	49	62	12	18	42	87
Bicycle	0	0	0	0	0	0	0	0
Motor Cycle	2	0	0	0	0	0	0	0
Passenger Car	27	14	13	12	19	15	21	10
Pick up or Light Truck	45	24	18	20	32	19	16	18
Mini Bus	2	6	5	5	2	2	1	5
Bus	0	0	0	0	0	0	1	0
2&3 axle Truck	6	5	0	0	2	1	0	0
Rigid+Trailer	6	0	0	0	4	0	0	0
Articulated Truck	11	11	4	6	14	5	0	1
Articulated Trailer	47	34	39	40	25	20	7	35
Total	164	105	128	145	110	80	88	156
Vehicle Total	144	94	79	83	98	62	46	69

Traffic Direction	Botswana→Zimbabwe		Zimbabwe→Botswana		Zimbabwe→Zambia		Zambia→Zimbabwe	
	Junction of Kasane		Junction of Kasane		Junction of Kasane		Junction of Kasane	
	Date	13/09	14/09	13/09	14/09	13/09	14/09	13/09
Pedestrian	3	0	2	2	0	0	0	0
Bicycle	1	0	0	0	0	0	0	0
Motor Cycle	0	0	2	0	0	0	0	0
Passenger Car	24	9	28	19	5	3	3	3
Pick up or Light Truck	69	31	62	28	7	9	9	11
Mini Bus	23	23	19	29	1	2	0	0
Bus	0	1	0	0	0	0	0	0
2&3 axle Truck	9	0	4	1	1	0	0	0
Rigid+Trailer	1	3	4	0	0	0	0	0
Articulated Truck	8	5	6	4	0	0	0	0
Articulated Trailer	11	5	6	15	0	0	0	3
Total	149	77	133	98	14	14	12	17
Vehicle Total	145	77	129	96	14	14	12	17

Survey Location Junction of KASANE

Traffic Direction BOTSWANA→ZAMBIA

Date 13/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07				5	1			1	1		9	17	17
07-08	6			1	7					1	1	16	10
08-09					3				3	2		8	8
09-10					6				2	4	3	15	15
10-11	3		2	4	4					1	3	17	12
11-12	3				6						6	15	12
12-13	2				4					1		7	5
13-14	2			2	5	2		3		1	4	19	17
14-15				4	2					1	5	12	12
15-16					2						4	6	6
16-17				8	2			2			2	14	14
17-18	2			3	3						10	18	16
Total	18	0	2	27	45	2	0	6	6	11	47	164	144

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of KASANE

Traffic Direction BOTSWANA→ZAMBIA

Date 14/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07	2			3	2			2		1	6	16	14
07-08				2	3	1		1		2	7	16	16
08-09				3	2	3					4	12	12
09-10	4			1	1						2	8	4
10-11	1			1	3	2					3	10	9
11-12				1	3					2	2	8	8
12-13	1							2		4		7	6
13-14				2						2	7	11	11
14-15					3						2	5	5
15-16	3			1	7						1	12	9
16-17												0	0
17-18												0	0
Total	11	0	0	14	24	6	0	5	0	11	34	105	94

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Pontoon

Traffic Direction BOTSWANA→ZAMBIA

Date 15/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07	4			2						1	3	10	6
07-08	10				3						5	18	8
08-09	4			1							2	7	3
09-10	8					1				1	3	13	5
10-11	1			5	2						2	10	9
11-12	3										5	8	5
12-13	2										1	3	1
13-14	4			1						2	5	12	8
14-15	1				3						3	7	6
15-16	1				4	1					3	9	8
16-17				4	1						2	7	7
17-18	11				5	3					5	24	13
Total	49	0	0	13	18	5	0	0	0	4	39	128	79

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Pontoon

Traffic Direction BOTSWANA→ZAMBIA

Date 16/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07	5			1	3						4	13	8
07-08	12				1					1	3	17	5
08-09	3			1							3	7	4
09-10	2			2	3					1	2	10	8
10-11	5										4	9	4
11-12	5			2		1				1	5	14	9
12-13	11				1	1					5	18	7
13-14	6				1						1	8	2
14-15	4										2	6	2
15-16	2			1	2						2	7	5
16-17	4			2	4	3				2	6	21	17
17-18	3			3	5					1	3	15	12
Total	62	0	0	12	20	5	0	0	0	6	40	145	83

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction ZAMBIA→BOTSWANA

Date 13/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07				2	2						1	5	5
07-08					7	1			1	1		10	10
08-09				1	5			1		2	1	10	10
09-10	2				2	1			2	1	2	10	8
10-11				2						2	1	5	5
11-12	6				3			1		1	3	14	8
12-13									1			1	1
13-14	3			3	3					3	5	17	14
14-15	1			3	1					1		6	5
15-16				2	4						1	7	7
16-17				3						2	4	9	9
17-18				3	5					1	7	16	16
Total	12	0	0	19	32	2	0	2	4	14	25	110	98

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction ZAMBIA→BOTSWANA

Date 14/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07				1	3							4	4
07-08	3			1	1	1		1			4	11	8
08-09	2			1	3	1					2	9	7
09-10	3			3	2						3	11	8
10-11				2	1						1	4	4
11-12	6			2	1					1	1	11	5
12-13				1	1					1		3	3
13-14				1	2					2	6	11	11
14-15	2			2	1						1	6	4
15-16	2			1	4					1	2	10	8
16-17												0	0
17-18												0	0
Total	18	0	0	15	19	2	0	1	0	5	20	80	62

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Pontoon

Traffic Direction ZAMBIA→BOTSWANA

Date 15/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07	7				4		1				2	14	7
07-08	4			4							2	10	6
08-09	3										1	4	1
09-10	7			2	1							10	3
10-11	3					1						4	1
11-12	1				3							4	3
12-13				5								5	5
13-14					4							4	4
14-15	2			3							1	6	4
15-16	1											1	0
16-17	5			3	4						1	13	8
17-18	9			4								13	4
Total	42	0	0	21	16	1	1	0	0	0	7	88	46

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Pontoon

Traffic Direction ZAMBIA→BOTSWANA

Date 16/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07	11										2	13	2
07-08	16				1	1					2	20	4
08-09	14				1						1	16	2
09-10	4				4						3	11	7
10-11	5				1						3	9	4
11-12	7			1	1					1	4	14	7
12-13	4				1						5	10	6
13-14	12			1	1						2	16	4
14-15				1							3	4	4
15-16	4										1	5	1
16-17	4			4	3	3					4	18	14
17-18	6			3	5	1					5	20	14
Total	87	0	0	10	18	5	0	0	0	1	35	156	69

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction BOTSWANA→ZIMBABWE

Date 13/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07	3			4	2	2					3	14	11
07-08				2	11	1						14	14
08-09		1		1	4	4		1				11	10
09-10				5	9	5			1	2		22	22
10-11				4	6	6						16	16
11-12					5			1		1	2	9	9
12-13				1	4	1						6	6
13-14				3	5	3				1	2	14	14
14-15					3			2		1	1	7	7
15-16					7	1		4			2	14	14
16-17				2	7			1			1	11	11
17-18				2	6					3		11	11
Total	3	1	0	24	69	23	0	9	1	8	11	149	145

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction BOTSWANA→ZIMBABWE

Date 14/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07				2	4							6	6
07-08				2	7	2						11	11
08-09				1	1				1		2	5	5
09-10					5	2	1		2	1	1	12	12
10-11					5	4				1	1	11	11
11-12				2	6	2						10	10
12-13					2	1				1		4	4
13-14				1	1	4				1	1	8	8
14-15						2						2	2
15-16				1		6				1		8	8
16-17												0	0
17-18												0	0
Total	0	0	0	9	31	23	1	0	3	5	5	77	77

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction ZIMBABWE→BOTSWANA

Date 13/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07					4	1						5	5
07-08				4	7			1		2	1	15	15
08-09	2				6	6			2			16	14
09-10				2	7	1					3	13	13
10-11				2	5	3				2		12	12
11-12			2		1					1	2	6	4
12-13				5	3	3		1				12	12
13-14				3	5							8	8
14-15				2	4	2		2	2			12	12
15-16				2	5							7	7
16-17				4	6					1		11	11
17-18				4	9	3						16	16
Total	2	0	2	28	62	19	0	4	4	6	6	133	129

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction ZIMBABWE→BOTSWANA

Date 14/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07				1		1						2	2
07-08				3	4	3		1			6	17	17
08-09				3	2	2					4	11	11
09-10	2			5	6	2						15	13
10-11				3	4	2				1	4	14	14
11-12				1	2	3						6	6
12-13				2	4	3					1	10	10
13-14				1	3	5				3		12	12
14-15					1	5						6	6
15-16					2	1						3	3
16-17						2						2	2
17-18												0	0
Total	2	0	0	19	28	29	0	1	0	4	15	98	96

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction ZIMBABWE→ZAMBIA

Date 13/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07				3	2							5	5
07-08						1		1				2	2
08-09												0	0
09-10					1							1	1
10-11												0	0
11-12					4							4	4
12-13												0	0
13-14												0	0
14-15												0	0
15-16				2								2	2
16-17												0	0
17-18												0	0
Total	0	0	0	5	7	1	0	1	0	0	0	14	14

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction ZIMBABWE→ZAMBIA

Date 14/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07				2	3	2						7	7
07-08												0	0
08-09												0	0
09-10												0	0
10-11												0	0
11-12												0	0
12-13					2							2	2
13-14												0	0
14-15												0	0
15-16												0	0
16-17					3							3	3
17-18				1	1							2	2
Total	0	0	0	3	9	2	0	0	0	0	0	14	14

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction ZAMBIA→ZIMBABWE

Date 13/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07				3								3	3
07-08					4							4	4
08-09					3							3	3
09-10												0	0
10-11												0	0
11-12												0	0
12-13												0	0
13-14												0	0
14-15												0	0
15-16												0	0
16-17												0	0
17-18					2							2	2
Total	0	0	0	3	9	0	0	0	0	0	0	12	12

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.

Survey Location Junction of Kasane

Traffic Direction ZAMBIA→ZIMBABWE

Date 14/09/2000

	Pedestrian	Bicycle	Motor Cycle	Passenger Car	Pick up or Light Truck	Mini Bus	Bus	2&3 axle Truck	Rigid+ Trailer	Articulated Truck	Articulated Trailer	Total	Vehicle Total
06-07												0	0
07-08					3						1	4	4
08-09				2	3						2	7	7
09-10				1	1							2	2
10-11					2							2	2
11-12					1							1	1
12-13												0	0
13-14												0	0
14-15												0	0
15-16					1							1	1
16-17												0	0
17-18												0	0
Total	0	0	0	3	11	0	0	0	0	0	3	17	17

Vehicle Total excludes Pedestrian, Bicycle and Motorcycle.