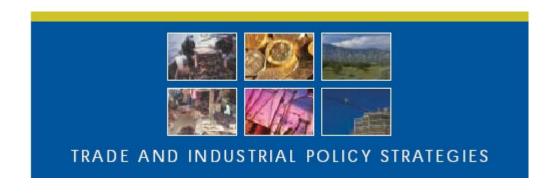


TIPS FOCUS ON DATA SERIES - DECEMBER 2003

Bilateral Trade Between South Africa and Brazil



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In this short report we examine South African trade with Brazil for decade up to 2001. First we look at the absolute values, trends, patterns at the aggregate level and somehow disaggregated level of 22 commodities clusters. The aim of this section is to provide a first round analysis of those commodities that feature prominently in trade flows between South Africa and Brazil. It provides a descriptive analysis of trade between two countries, this includes imports and total trade defined as the sum of imports and exports) of merchandise, and a measure of changes in trade patterns. In the last two tables of this note we will look into the finer details of the trade flows at the HS4 level. Our analysis takes a gradual approach from the aggregated to the more detailed level and it is based on the annual data from Customs and Exercise at current prices.

Aggregate trade

Table 1 provides an aggregate analysis of trade between South Africa and Brazil for the period 1992 to 2001. This includes imports, exports and total trade together with Brazil's share in these flows. In row1 it can be seen that South African imports from Brazil have been increasing from R477 million in 1990 to R3.3 billion in 2001 at current (Rand) prices. This constitutes an 20% weighted annual average increase in nominal terms over the period. Total imports by South Africa increased by 17% over the same period of 10 years (row 4). The share of Brazil 's imports therefore has increased, from 0.9% in 1990 to 1.6% in 2000.

Table 1: Aggregate imports, exports and total trade between South Africa and Brazil, 1997-2001, Rmillion current prices

		1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Ave 92-01
1	South African Imports from Brazil (Rm current pr)	477	574	752	909	1,134	1,490	1,272	1,376	2,053	3,344	
2	growth (%)	-4	20	31	21	25	31	-15	8	49	63	20.5
3	South African Imports Total (Rm current pr)	52,819	59,854	77,086	99,051	113,642	127,940	144,171	147,340	188,058	215,441	
4	growth (%)	9	13	29	28	15	13	13	2	28	15	16.5
5	Brazil's share of South African imports (%)	0.9	1.0	1.0	0.9	1.0	1.2	0.9	0.9	1.1	1.6	
6	South African Export to Brazil (Rm current pr)	248	425	624	992	1,170	1,412	1,066	944	1,361	1,779	
7	growth (%)	6	72	47	59	18	21	-25	-11	44	31	18.8
8	South African Exports Total (Rm current pr)	67,603	79,832	88,270	100,357	112,778	128,426	140,739	161,444	207,913	215,248	
9	growth (%)	2	18	11	14	12	14	10	15	29	4	13.8
10	Brazil's share of South African exp orts (%)	0.4	0.5	0.7	1.0	1.0	1.1	8.0	0.6	0.7	0.8	
11	South African Trade Balance with Brazil (Rm current pr)	-229	-149	-128	83	36	-78	-206	-432	-693	-1565	
12	South African Trade with Brazil (Rm current pr)	725	999	1,376	1,902	2,304	2,902	2,339	2,320	3,414	5,123	
13	growth (%)	-1	38	38	38	21	26	-19	-1	47	50	19.7
14	South African Total Trade (Rm current pr)	120,421	139,686	165,356	199,408	226,420	256,366	284,910	308,784	395,971	430,689	
15	growth (%)(%)	5	16	18	21	14	13	11	8	28	9	15.0
16	Brazil's share of South African trade (%)	0.6	0.7	0.8	1.0	1.0	1.1	0.8	0.8	0.9	1.2	

Source: Customs & Excise

Exports from South Africa to Brazil increased over the same period from R248 million in 1992 to R1.8 billion in 2001 which constitutes annual average growth rate of 19% over this period. South Africa 's total exports increased by 14% per annum and the share of exports to Brazil in total South African exports has therefore shown an increase. However, the trend has displayed some volatility, it rose from 0.4% in 1992 to 1.4% in 1994 but decreased again to 1% in 1997 and to 0.6% in 1999 after which it rose to 0.8% in 2001, suggesting that trade patterns between the two countries have not settled down.

Row 11 shows South Africa's trade balance with Brazil, which has been in favour of Brazil from 1992 until 1994. The trade balance turned around 1995 to 1996, but from 1997 to 2001 it was in favour of Brazil again. It can be seen that South African exports to Brazil suffered a considerable set back probably as a result of financial crisis during 1998 and 1999, again highlighting some volatility in trade between the two countries.

Row 12 to 16 presents the analysis of total trade defined here simply as the sum of imports and exports. South Africa's total trade has been increasing at annual average of 15% (row 15) and

growth in trade between South Africa and Brazil has been increasing at an annual rate of 20% (row 13). Brazil's share in South African total trade has been at an average of 1% from 1990 to 2000.

23 commodity chapters

At a slightly disaggregated level of 23 commodity chapters (or sections as they are sometimes labeled) we report in the next table on nominal growth in imports and exports as well as the change in the patterns of trade. In the first three columns we report imports from Brazil. Growth rates recorded in column 1 vary from 0% to 45%. The composition of imports from Brazil is measured in column 2 and 3 for the first and second half of the 1992-2001 decade. Comparing column 2 and 3 it can be seen that shares for a number of commodity groups have declined, which seems to be absorbed by "special classifications provisions". From examining trade flows at a finer detail (not shown here) it appears that this is mainly due to the imports of "original equipment components" of the motor vehicle industry as is reported in the last row of the table. In particular, *chemicals* and *prepared food* stuffs have seen a decline in their share of imports from Brazil. *Machinery* has maintained its share, while *live animals animal products* and *transport equipment* imports from Brazil has increased in importance in the import basket from Brazil.

Table 2: Growth and pattern of South African imports from, exports to trade with Brazil

	Chapter		Import			Exports			Trade	
		average								
		growth	distrib	distrib	growth	distrib	distrib	growth	distrib	distrib
		1997-01	1992-96	1997-01	1997-01	1992-96	1997-01	1997-01	1992-96	1997-01
01	Live animals animal products	58.5%	0.4%	3.0%	3.6%	0.4%	0.3%	54.8%	0.4%	1.9%
02	Vegetable products	27.8%	2.2%	2.3%	54.6%	0.6%	0.4%	29.6%	1.5%	1.6%
03	Animal or vegetable fats & oils	49.6%	2.1%	1.8%		0.0%	0.0%	50.5%	1.1%	1.1%
04	Prepared foodstuffs, beverages, tobacco	11.1%	8.1%	4.5%	-36.1%	21.8%	5.7%	-14.5%	14.6%	5.0%
05	Mineral products	14.3%	0.7%	0.5%	-4.6%	26.8%	25.5%	-4.1%	13.0%	10.7%
06	Products of chemical or allied industries	15.2%	20.0%	11.8%	12.1%	23.3%	25.4%	13.3%	21.6%	17.4%
07	Plastics and rubber	14.7%	5.7%	3.2%	-4.1%	0.7%	1.0%	10.8%	3.3%	2.3%
80	Raw hides and skins, leather	31.5%	2.8%	2.8%	18.9%	0.1%	0.3%	32.3%	1.5%	1.8%
09	Wood, cork, straw	5.2%	3.1%	2.5%	-3.6%	0.5%	0.8%	3.4%	1.9%	1.8%
10	Pulp, paper & paperboard, books	1.9%	3.7%	1.4%	50.9%	5.6%	3.2%	24.9%	4.6%	2.2%
11	Textiles, fabrics, clothing	40.0%	1.5%	1.2%	12.6%	1.4%	4.4%	19.2%	1.5%	2.5%
12	Footwear, headgear, umbrellas	10.2%	0.9%	0.8%	75.1%	0.0%	0.0%	10.1%	0.5%	0.5%
13	Articles of stone asbestos ceramics glass	23.7%	4.4%	3.3%	-12.3%	0.8%	1.1%	16.4%	2.7%	2.4%
14	Precious metals	-38.9%	0.7%	0.3%	24.4%	0.0%	0.0%	-37.6%	0.4%	0.2%
15	Base metals	31.5%	9.7%	10.3%	44.7%	9.4%	22.1%	39.4%	9.6%	15.1%
16	Machinery, mechanical & electrical	22.8%	18.8%	18.0%	0.0%	3.3%	4.8%	18.6%	11.4%	12.6%
17	Vehicles, aircraft, ships	46.6%	9.0%	11.8%	7.1%	4.4%	3.8%	38.6%	6.8%	8.5%
18	Optical photograph measuring musical inst	25.5%	0.5%	0.4%	53.6%	0.1%	0.4%	34.9%	0.3%	0.4%
19	Unkown		0.0%	0.0%		0.0%	0.0%		0.0%	0.0%
20	Miscellaneous manufactured articles	59.8%	0.2%	0.4%	21.6%	0.0%	0.1%	57.5%	0.1%	0.2%
21	Works of art collectors pieces & antiques		0.0%	0.0%	-24.3%	0.0%	0.0%	14.6%	0.0%	0.0%
22	Other unclassified goods	8.3%	0.6%	0.0%	-33.3%	0.6%	0.7%	-22.2%	0.6%	0.3%
23	Spec class: orig equipm comp for mot veh.	10.8%	5.0%	19.6%		0.1%	0.0%	10.8%	2.7%	11.6%

Source: Customs & Excise and own calculation

In terms of exports (column 4-6) it can be seen that in particular the share of *base metals* and *chemicals* has increased over the decade, while the share of *mineral products*, albeit still the largest contributor, has reported a small decline and the share of *foodstuffs & beverages* has declined rapidly. Very high growth rates for *leather products* and *footwear* have been recorded off a very low base.

We summarise these findings in the following figure where we rank those commodities with above average growth in imports from and exports to Brazil (top half), as well as the proportional contribution to imports from and exports to Brazil (bottom half). The trade pattern between the two countries that appears, suggests that South African exports to Brazil are biased towards more primary products such as *minerals*, *chemicals* and *base metals*, while South African imports from Brazil are more concentrated in *machinery* and *transport* related equipment, with some apparent intraindustry trade in the broad category of *chemicals*. Trade in *prepared foods* in both directions has declined considerably in the second half of the past decade (up to 2001) while South Africa imports of life animals and animal products has increased

Ave annual growth in reports bilines, 97-01 current prices

Averanual growth in reports bilines, 97-01 current prices

Averanual growth in reports bilines, 97-01 current prices

Averanual growth in reports bilines, 97-01 current prices

Final foot prices

Averanual growth in reports bilines, 97-01 current prices

Final foot prices

Averanual growth in reports bilines, 97-01 current prices

Averanual growth in reports bilines, 97-01 current prices

Final foot prices

Averanual growth in reports bilines, 97-01 current prices

Averanual growth in reports bilines, 97-0

Figure 1: Growth and pattern of imports from and exports to Brazil for selected sectors

Source: Customs & Excise and own calculation

Another way of looking at the growth-share interplay is by means of a matrix as shown in the next table. Based on a set of rather arbitrarily selected cut-off points it can be seen in Table 3 that machinery and transport equipment imports from Brazil experienced high growth rate (>20%) and high share (>10%).

Table 3: Growth-share nexus of SA imports from Brazil for 22 Chapters (annual ave, 1997-2001)

	high growth	medium growth	low growth
high share	16: Mach,17: Trnsp eq	23: Spec class OEC	
medium share	15: Base metals	06: Chem prods	
low share	01: Animal prods,02: Veg prods,03: Fats & oils,08: Leath prods,13: Glass & prods,18: Scient eq,20: Misc fabr,Total		09: Wood prods,10: Paper prods,14: Prec metals,19: Unknown,21: Arts & antiq,22: Other,,

Upper boundary of the share bands

low share 5%
medium share 10%
high share

Upper boundary of the growth bands

upper bound
low growth 10%
medium growth 10%
medium growth 20%
high growth
Source: Customs & Excise and own calculation

Commodity groups with high export shares do not all display high growth as can be seen in the first row of Table 4. In the first column it can be seen that there are a number of commodity groups that have reported high growth in the second half of the decade up to 2001 but their shares are low. They include *footwear*, *paper products* and *vegetable products*.

Table 4: Growth-share nexus of SA exports to Brazil for 22 Chapters (annual ave. 1997-2001)

	high growth	medium growth	low growth
high share	15_Base metal,	06_Chem prod,	05_Mineral prod,
medium share			
low share	02_Veg prods,10_Paper prods,12_Footwear,14_Prec metals,18_Scient eq,20_Misc fab,	08_Leath prod,	01_Animal prods,03_Fats & oils,04_Food & bev,07_Plast & rub,09_Wood prods,13_Glass & prods,16_Mach,17_Tmsp eq,19_Unknown,21_Arts & antiq,22_Other,23_Spec class OEC,_Total,,

Upper boundary of the share bands

low share 5%
medium share 10%
high share

Upper boundary of the growth bands

low growth 10% medium growth 20%

Source: Customs & Excise and own calculation

In Table 5 we examine in more detailed commodity groups that have relatively high growth rates (ranked from the highest to the lowest) in imports from Brazil. The proportion of total South African imports in those commodities is also considered. The third column with data entries shows growth rates over the last 5 years. It can be seen that in the case of some of the highest imports (in terms of value) no growth rates are recorded as there are not enough observations to do so. This suggests that those commodity groups are fairly new kids on the block in terms of imports from Brazil. They include HS8802: Aircraft, powered; spacecraft & launch vehicles, HS7203: Spongy ferrous prod & iron 99.94% pure, lumps etc, HS1512: Sunfl-seed, safflow or cottonsd oil etc, no ch mod and HS1005: Corn (maize). High growth in imports of the latter two commodity groups may be due to the deregulation of the agricultural sector in South Africa, while the first commodity group mentioned (aircrafts) may have to do with the recent orders of small airplanes to bolster SAA's regional airline fleet.

Table 5: South African imports from Brazil at the HS4 code level for selected commodities (R'000 current prices)

		SA imports	Growth	% of total	
		from Brazil	SA imports	imports	
		2001	from Brazil	2001	
HS4 code	HS4 description		1997-01		
	Total	3,344,189	23.3%	1.6%	
8802	Aircraft, powered; spacecraft & launch vehicles	592,273		10.7%	
9801	Special classification of parts for motor vehicles	572,397	10.8%	3.1%	
7203	Spongy ferrous prod & iron 99.94% pure, lumps etc	155,908		100.0%	
0207	Meat & ed offal of poultry, fresh, chill or frozen	125,934	53.1%	39.7%	
8414	Air or vac pumps, compr & fans; hoods & fans; pts	110,097	27.5%	10.0%	
1512	Sunfl-seed, safflow or cottonsd oil etc, no ch mod	108,353		27.2%	
4104	Bovine or equine leather, no hair NESOI	70,409	33.0%	15.0%	
1005	Corn (maize)	69,103		51.2%	
8409	Parts for engines of heading 8407 or 8408	68,549	27.3%	9.1%	
2401	Tobacco, unmanufactured; tobacco refuse	68,354	15.4%	15.0%	
8501	Electric motors and generators (no sets)	63,897	2.9%	13.3%	
6908	Glazed ceramic flags & paving, hearth tiles, etc	61,714	58.6%	21.6%	
8429	Self-propelled bulldozers, graders, scrapers etc	58,968	93.7%	3.5%	
4 8702	Motor vehicle f trnspt >ten persons includ driver	57,816	30.0%	47.5%	
5 8708	Parts & access for motor vehicles (head 8701-8705)	51,721	21.9%	1.8%	
3504	Peptones, other proteins & deriv etc; hide powder	47,945	39.7%	30.0%	
7 2926	Nitrile-function compounds	46,867	130.1%	40.3%	
8 8503	Parts of electric motors, generators & sets	34,089	103.1%	23.6%	
9 3901	Polymers of ethylene, in primary forms	32,669	37.6%	5.9%	
0 1704	Sugar confection (incl white chocolate), no cocoa	31,316	110.2%	37.8%	
1 8413	Pumps for liquids; liquid elevators; parts thereof	29,240	9.7%	3.0%	
2 2929	Nitrogen function compounds NESOI	26,115	-6.7%	9.6%	
3 3004	Medicaments NESOI, mixed or not, in dosage etc fm	25,329	47.1%	0.6%	
4 5201	Cotton, not carded or combed	25,218		6.3%	
5 4415	Packings etc, wood; pallets, collars etc, of wood	23,872	19.6%	57.8%	
6 2922	Oxygen-function amino-compounds	20,107	8.2%	6.9%	
7 7202	Ferroalloys	16,200	14.7%	19.3%	
8707	Bodies (including cabs), for specif motor vehicles	15,626		62.4%	
9 0203	Meat of swine (pork), fresh, chilled or frozen	14,930		13.5%	
0 4407	Wood sawn or chipped length, sliced etc, ov6mm th	14,529	-8.3%	2.8%	
1 8467	Tools for working in the hand, pneum hyd etc, pts	14,464	25.7%	8.0%	
2 8450	Washing machines, household or laundry-type, pts	13,546	1157.5%	5.7%	
3 8540	Thermionic, cold cathode or photocathode tubes, pt	13,393	1275.2%	4.9%	
4 8418	Refrigerators, freezers etc; heatpumps NESOI, pts	13,273	51.5%	2.0%	
5 7005	Float glass & surf ground or polished sheets etc	12,728	157.2%	17.6%	
6 0801	Coconuts, brazil nuts & cashew nuts, fresh or dry	12,464	18.0%	25.1%	
7 8701	Tractors (other than works trucks of heading 8709)	11,431	-32.4%	1.3%	
3 1507	Soybean oil & its fractions, not chemic modified	11,415	-0.3%	5.1%	
9 3912	Cellulose and chemical deriv NESOI , primary forms	11,157	9.9%	7.3%	
3907	Polyethers, expoxides & polyesters, primary forms	11,132	12.4%	1.8%	
1 4811	Paper, paperboard, wad etc, coat etc NESOI , rl etc	10,965		1.9%	
2 4810	Paper & paperboard, coated with kaolin etc, rl etc	10,905	120.3%	1.2%	
3 7321	Stoves, ranges etc, nonel domest & pts, ir & steel	10,746	-4.6%	15.3%	
4 7601	Aluminum, unwrought	10,655		13.0%	
5 2507	Kaolin and other kaolinic clays, incl calcined	10,630	20.3%	33.8%	
8483	Transmission shafts, bearings, gears etc; parts	9,827	10.6%	0.9%	
7 6403	Footwear, outer sole rub, plast or lea & upper lea	9,738	5.1%	1.8%	
8 4011	New pneumatic tires, of rubber	9,622	37.7%	1.1%	
9 2849	Carbides	9,428	23.0%	9.8%	
8508	Electromechanical tools, working in hand; parts	9,136	22.0%	3.3%	

Source: Customs & Excise and own calculation

The earlier observation that South African exports to Brazil are concentrated in the more primary commodity groups such as minerals, basic metals and chemicals is emphasized in Table 6. Most of the top 15 commodity groups by value are located in these categories with the exception of some *paper products* and *machinery*.

Table 6: South African exports to Brazil at the HS4 code level for selected commodities (R'000 current prices)

н	IS4 code	HS4 description	SA exports to Brazil 2001	Growth SA exports from Brazil 1997-01	% of total SA exports 2001
•	10+ 0000	Total	1,779,291	7.3%	0.8%
1 2	701	Coal; briquettes, ovoids etc. mfr from coal	297,390	2.1%	2.0%
	808	Insecticides, rodenticides; fungicides etc, retail	286,260	36.7%	28.9%
3 7	606	Aluminum plates, sheets & strip over .2mm thick	145,751		14.3%
4 7:	202	Ferroalloys	105,995	26.5%	1.5%
5 7	506	Nickle plates, sheets, strip and foil	56,546		14.5%
6 5	402	Synthetic filament yarn (no sew thread), no retail	54,657	7.6%	9.6%
7 4	802	Paper, uncoat, for writing etc, rolls; hndmd paper	47,169	73.1%	6.8%
B 28	809	Diphosphorus pentaoxide; phosphoric acid etc	43,897	-30.1%	5.3%
9 7:	219	FI-rl stainless steel products, not und 600mm wide	40,709	9.2%	1.5%
10 7	201	Pig iron & spiegeleisen in pigs, blocks etc.	31,945		3.7%
11 2	901	Acyclic hydrocarbons	31,563	65.2%	3.2%
12 3	822	Composite diagnostic/lab reagents, exc pharmaceut	28,022	383.9%	19.0%
	615	Niobium, tantalum, vanadium & zirconium ore & conc	26,904	50.9%	2.6%
14 8	409	Parts for engines of heading 8407 or 8408	25,556	177.7%	5.0%
15 2	820	Manganese oxides	24,779	61.3%	3.5%
	802	Aircraft, powered; spacecraft & launch vehicles	23,030		7.4%
	601	Aluminum, unwrought	22,671		0.4%
	207	Interchange tools for hand- or machine-tools, bmpt	22,505	15.5%	6.3%
	902	Tire cord fabric of high tenacity yarn, nylon etc	20,860	76.1%	76.4%
	933	Heterocyclic comp, nit hetero-atoms only	20,417		27.0%
	819	Cartons etc paper; office box files etc, paper etc	19,936	65.5%	8.1%
	914	Ketones & quinones & halogenatd, sulfonatd der etc	19,194	37.4%	2.7%
	706	Chas w eng f trac, mtr veh f pass/gd & special pur	19,143		88.2%
	811	Antiknock preps & other additives for mineral oils	19,045		25.4%
	707	Oils etc from high temp coal tar; sim aromatic etc	15,896	16.9%	7.1%
	209	FI-rl iron & na steel nun600mm wd cold-rl, no clad	15,640	0.4.007	2.6%
	609	Containers for one or more modes of transport	13,083	24.2%	1.9%
	208	Ethyl alcohol, undenat, und80% alc; spirit beverag	11,926	42.6%	4.4%
	801	Newsprint, in rolls or sheets	10,639	15.3%	2.5%
	415	Packings etc, wood; pallets, collars etc, of wood	10,350	6.4%	11.7%
	811	Inorganic acids & inorganic oxy nonmet comp NESOI	10,063	19.8%	35.9%
	529	Feldspar; leucite; nepheline, n syenite; fluorspar	9,859	47.00/	4.9%
	708 907	Parts & access for motor vehicles (head 8701-8705) Phenols; phenol-alcohols	9,182 9,161	-17.8% 41.2%	0.3% 5.5%
	482	**		134.3%	6.1%
		Ball or roller bearings and parts	8,991	134.376	
	904 474	Pepper, genus piper; genus capsicum or pimenta Machinery for sorting screening etc minerals, pts	7,841 7,692	42.5%	11.1% 1.0%
	312	Stranded wire, ropes etc, no elec ins, ir or steel	7,609	38.7%	3.6%
	483	Transmission shafts, bearings, gears etc; parts	6,686	30.7 /0	2.9%
	614	Titanium ores and concentrates	6,651	34.7%	0.4%
	443	Print mach incl inkjet mach ancil t prnt pt NESOI	6,320	J4.1 /0	10.0%
	921	Amine-function compounds	6,038	17.6%	13.8%
	306	Tubes, pipes & hollow profiles NESOI, iron & steel	5,937	070	1.7%
	019	Glass fibers & articles thereof (yarn etc.)	5,444		14.1%
	712	Petroleum jelly; mineral waxes & similar products	5,410	20.6%	1.0%
	905	Acyclic alcohols & halogenat, sulfonatd etc derivs	5,290	11.2%	1.4%
	903	Yachts & other vessels for pleas etc; row boat etc	4,945	534.8%	2.0%
	405	Polishes & creams for leather, wood etc, scour prp	4,777		17.7%
	010	Conveyor or transmiss belts of vulcanized rubber	3,902		7.7%
	436	Agri etc & poultry etc equip, inc incubators, pts	3,818	12.2%	6.1%

Source: Customs & Excise and own calculation

This Focus on Data was compiled by Carol Molate and Dirk Ernst van Seventer