Brazil Soybean Transportation

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Brazilian Soybean Export Season Closes with Higher Transportation Costs and Lower Farm Prices.

From January to September, Brazil exported 61.1 million metric tons (mmt) of soybeans, 23 percent more than last year's total of 49.6 mmt (figure 1) ([Secretariat of Foreign Trade \(SECEX\)](#)). Each year, Brazilian soybean exports usually peak in May and finish by the end of September. Average Brazilian soybean export prices decreased 11 percent to \$372 per metric ton (mt), down from \$419 per mt at the same time last year ([SECEX](#)). The cost of shipping a metric ton of soybeans 100 miles by truck increased nearly 30 percent to \$9.18 from \$7.09 in the third quarter of 2016 (table 9). Truck rates increased because the end of the soybean exports season overlapped with the peak of the second corn harvest season called "safrinha", especially at the Center-west region and the southern State of Paraná (PR). In the selected routes of North Mato Grosso (MT) to Santos, truck rates increased 18 percent to R\$325.40/mt. From North Central PR to Paranaguá, truck rates increased 41 percent to R\$97.09/mt. Truck rates from Northwest Rio Grande do Sul (RS) to Rio Grande increased 22 percent to R\$94.86.89/mt. Ocean rates increased significantly because of higher grain exports (mostly to China), increases in bunker fuel prices, and strong iron ore trade ([Grain Transportation Report \(GTR\)](#)). The Brazilian real (R\$) appreciated 4 percent against the dollar, to R\$3.16 per US\$1.00 from R\$3.29 in the third quarter of 2016. Higher transportation costs lowered average farm prices by 18 percent when measured in U.S. dollars, down to US\$311.81/mt from US\$381.86 in the third quarter of 2016. The third quarter average farm prices in 2017 in Brazilian Reais (R\$) decreased 20 percent, to R\$986.59/mt from R\$1,240.05/mt ([Brazil Central Bank](#) and [CONAB](#)).

Figure 1. Brazil soybean monthly exports

Source: Secretariat of Foreign Trade (SECEX), MDIC

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China is Brazil's major soybean buyer, accounting for 78 percent of total exports, followed by Spain, Thailand, Netherlands, Iran, and Taiwan. By the end of September, China bought 47.7 million mt of Brazilian soybeans, valued at US\$18 billion ([SECEX](#)). The southern ports of Santos, Paranaguá, Rio Grande, and São Francisco do Sul accounted for 66 percent of total soybean exports and 74 percent of exports to China (figure 1). The Northeastern ports of São Luís, Barcarena, and Salvador exported nearly 26 percent of Brazilian soybeans and about 24 percent of exports to China. The Northern ports of Santarém and Manaus represented 7 percent of total Brazil exports and 1 percent of exports to China.

In Sorriso, North MT (the largest Brazilian soybean-producing State), transportation costs represented nearly 32 percent of the total landed costs of shipping soybeans to Shanghai through Santos and about 24 percent through the port of Santarém (tables 1 and 1a). In the third quarter of 2017, the cost of shipping soybeans from Sorriso, North MT, to Shanghai, China was \$ 43.67 more per metric ton through the Port of Santos, than from the Port of Santarém (tables 1 and 1a). Sorriso is located 1,190 miles from the Port of Santos, and 876 miles from the Port of Santarém (table 7). For more information, contact Delmy L. Salin at delmy.salin@ams.usda.gov.

Figure 1a. Brazil soybean exports by port, January-September 2017

Source: Bureau of Foreign Trade (SECEX), MDIC

Table 1. Quarterly costs of transporting Brazilian soybeans from the southern ports to Shanghai, China

	2016 3rd qtr	2017 3rd qtr	% Change	2016 3rd qtr	2017 3rd qtr	% Change
	North MT¹ - Santos² --US\$/mt--			Northwest RS¹ - Rio Grande² --US\$/mt--		
Truck	85.01	102.87	21.0	23.99	30.00	25.0
Ocean	12.50	30.00	140.0	13.00	31.00	138.5
Total transportation	97.51	132.87	36.3	36.99	61.00	64.9
Farm price ³	367.25	288.62	-21.4	373.12	317.17	-15.0
Landed cost	464.76	421.49	-9.3	410.11	378.16	-7.8
Transport % of landed cost	21.0	31.5	50.2	9.0	16.1	78.8
	North Central PR¹ - Paranaguá² --US\$/mt--			South GO¹ - Santos² --US\$/mt--		
Truck	21.15	30.69	45.1	36.24	45.99	26.9
Ocean	14.50	31.00	113.8	12.50	30.00	140.0
Total transportation	35.65	61.69	73.1	48.74	75.99	55.9
Farm price ³	362.80	313.53	-13.6	359.07	291.58	-18.8
Landed cost	398.45	375.23	-5.8	407.81	367.57	-9.9
Transport % of landed cost	8.9	16.4	83.8	12.0	20.7	73.0

¹Producing regions: RS = Rio Grande do Sul, MT= Mato Grosso, GO = Goiás, PR = Paraná

²Export ports

³Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 1a. Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports to Shanghai, China

	2016 3rd qtr	2017 3rd qtr	% Change	2016 3rd qtr	2017 3rd qtr	% Change
	North MT¹ - Santarém² --US\$/mt--			South MA¹ - São Luís² --US\$/mt--		
Truck	48.27	58.19	20.6	32.12	39.78	23.9
Ocean	19.40	31.00	59.8	17.50	31.00	77.1
Total transportation	67.67	89.19	31.8	49.62	70.78	42.6
Farm price ³	367.25	288.62	-21.4	447.42	340.58	-23.9
Landed cost	434.91	377.81	-13.1	497.05	411.37	-17.2
Transport % of landed cost	15.6	23.6	51.7	10.0	17.2	72.4
	Southwest PI¹ - São Luís² --US\$/mt--					
Truck	35.9	48.27	34.4			
Ocean	17.5	31.00	77.1			
Total transportation	53.4	79.27	48.4			
Farm price ³	379.0	306.34	-19.2			
Landed cost	432.4	385.61	-10.8			
Transport % of landed cost	12.4	20.6	66.4			

¹Producing regions: MT= Mato Grosso, PI = Piauí, MA = Maranhão

²Export ports

³Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 2. Quarterly costs of transporting Brazilian soybeans from the southern ports to Hamburg, Germany

	2016 3rd qtr	2017 3rd qtr	% Change	2016 3rd qtr	2017 3rd qtr	% Change
	North MT¹ - Santos² --US\$/mt--			Northwest RS¹ - Rio Grande² --US\$/mt--		
Truck	85.01	102.87	21.0	23.99	30.00	25.0
Ocean	16.50	26.00	57.6	13.00	27.00	107.7
Total transportation	101.51	128.87	27.0	36.99	57.00	54.1
Farm price ³	367.25	288.62	-21.4	373.12	317.17	-15.0
Landed cost	468.76	417.49	-10.9	410.11	374.16	-8.8
Transport % of landed cost	21.7	30.9	42.5	9.0	15.2	68.9
	North Central PR¹ - Paranaguá² --US\$/mt--			South GO¹ - Santos² --US\$/mt--		
Truck	21.15	30.69	45.1	36.24	45.99	26.9
Ocean	16.50	27.00	63.6	16.50	26.00	57.6
Total transportation	37.65	57.69	53.2	52.74	71.99	36.5
Farm price ³	362.80	313.53	-13.6	359.07	291.58	-18.8
Landed cost	400.45	371.23	-7.3	411.81	363.57	-11.7
Transport % of landed cost	9.4	15.5	65.3	12.8	19.8	54.6

¹Producing regions: RS = Rio Grande do Sul, MT= Mato Grosso, GO = Goiás, PR = Paraná

²Export ports

³Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 2a. Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports to Hamburg, Germany

	2016 3rd qtr	2017 3rd qtr	% Change	2016 3rd qtr	2017 3rd qtr	% Change
	North MT¹ - Santarém² --US\$/mt--			South MA¹ - São Luís² --US\$/mt--		
Truck	48.27	58.19	20.6	32.12	39.78	23.9
Ocean	15.00	25.00	66.7	11.80	21.20	79.7
Total transportation	63.27	83.19	31.5	43.92	60.98	38.8
Farm price ³	367.25	288.62	-21.4	447.42	340.58	-23.9
Landed cost	430.51	371.81	-13.6	491.35	401.57	-18.3
Transport % of landed cost	14.7	22.4	52.3	8.9	15.2	69.9
	Southwest PI¹ - São Luís² --US\$/mt--					
Truck	32.12	48.27	50.3			
Ocean	11.80	21.20	79.7			
Total transportation	43.92	69.47	58.2			
Farm price ³	378.98	306.34	-19.2			
Landed cost	422.90	375.81	-11.1			
Transport % of landed cost	10.4	18.5	78.0			

¹Producing regions: MT= Mato Grosso, PI = Piauí, MA = Maranhão

²Export ports

³Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Figure 2. Routes¹ and regions considered in the Brazilian soybean export transportation indicator²

¹Table defining routes by number is shown on page 12

²Regions comprised about 81 percent of Brazilian soybean production, 2015

Source: ESALQ/ USP (University of São Paulo, Brazil) and USDA/AMS

Table 3. Quarterly costs of transporting Brazilian soybeans from the southern ports to Shanghai, China

	-----2017-----									
	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
	North MT¹ - Santos² --US\$/mt--					North MT¹ - Paranaguá² --US\$/mt--				
Truck	93.28	90.63	102.87		95.59	90.67	87.47	95.36		91.17
Ocean	18.50	29.00	30.00		25.83	18.00	30.50	31.00		26.50
Total transportation	111.78	119.63	132.87		121.43	108.67	117.97	126.36		117.67
Farm price ³	314.10	275.60	288.62		292.77	314.10	275.60	288.62		292.77
Landed cost	425.88	395.23	421.49		414.20	422.77	393.57	414.98		410.44
Transport % of landed cost	26.2	30.3	31.5		29.3	25.7	30.0	30.4		28.7
	Southeast MT¹ - Santos² --US\$/mt--					North Central PR¹ - Paranaguá² --US\$/mt--				
Truck	66.68	61.94	67.29		65.30	31.26	28.25	30.69		30.07
Ocean	18.50	29.00	30.00		25.83	20.50	30.50	31.00		27.33
Total transportation	85.18	90.94	97.29		91.14	51.76	58.75	61.69		57.40
Farm price ³	314.10	275.60	288.62		292.77	344.08	313.78	313.53		323.80
Landed cost	399.27	366.54	385.91		383.91	395.85	372.53	375.23		381.20
Transport % of landed cost	21.3	24.8	25.2		23.8	13.1	15.8	16.4		15.1
	South GO¹ - Santos² --US\$/mt--					Northwest RS¹ - Rio Grande² --US\$/mt--				
Truck	46.97	43.39	45.99		45.45	33.20	30.66	30.00		31.29
Ocean	18.50	29.00	30.00		25.83	18.00	29.50	31.00		26.17
Total transportation	65.47	72.39	75.99		71.29	51.20	60.16	61.00		57.45
Farm price ³	332.40	281.73	291.58		301.90	347.99	302.06	317.2		322.41
Landed cost	397.86	354.12	367.57		373.19	399.19	362.22	378.2		379.86
Transport % of landed cost	16.5	20.4	20.7		19.2	12.8	16.6	16.1		15.2

¹Producing regions: RS = Rio Grande do Sul, MT= Mato Grosso, GO = Goiás, PR = Paraná

²Export ports

³Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

Source: ESALQ/ USP (University of São Paulo, Brazil) and USDA/AMS

Table 4. Quarterly costs of transporting Brazilian soybeans from the southern ports to Hamburg, Germany

	-----2017-----									
	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
	North MT¹ - Santos² --US\$/mt--					North MT¹ - Paranaguá² --US\$/mt--				
Truck	93.28	90.63	102.87		95.59	90.67	87.47	95.36		91.17
Ocean	21.00	24.00	26.00		23.67	22.00	25.00	27.00		24.67
Total transportation	114.28	114.63	128.87		119.26	112.67	112.47	122.36		115.83
Farm price ³	314.10	275.60	288.62		292.77	314.10	275.60	288.62		292.77
Landed cost	428.38	390.23	417.49		412.03	426.77	388.07	410.98		408.61
Transport % of landed cost	26.7	29.4	30.9		29.0	26.4	29.0	29.8		28.4
	Southeast MT¹ - Santos² --US\$/mt--					North Central PR¹ - Paranaguá² --US\$/mt--				
Truck	66.68	61.94	67.29		65.30	31.26	28.25	30.69		30.07
Ocean	21.00	24.00	26.00		23.67	22.00	25.00	27.00		24.67
Total transportation	87.68	85.94	93.29		88.97	53.26	53.25	57.69		54.74
Farm price ³	314.10	275.60	288.62		292.77	344.08	313.78	313.53		323.80
Landed cost	401.77	361.54	381.91		381.74	397.35	367.03	371.23		378.54
Transport % of landed cost	21.8	23.8	24.4		23.3	13.4	14.5	15.5		14.5
	South GO¹ - Santos² --US\$/mt--					Northwest RS¹ - Rio Grande² --US\$/mt--				
Truck	46.97	43.39	45.99		45.45	33.20	30.66	30.00		31.29
Ocean	21.00	24.00	26.00		23.67	22.00	25.00	27.00		24.67
Total transportation	67.97	67.39	71.99		69.12	55.20	55.66	57.00		55.95
Farm price ³	332.40	281.73	291.58		301.90	347.99	302.06	317.17		322.41
Landed cost	400.36	349.12	363.57		371.02	403.19	357.72	374.16		378.36
Transport % of landed cost	17.0	19.3	19.8		18.7	13.7	15.6	15.2		14.8

¹Producing regions: RS = Rio Grande do Sul, MT= Mato Grosso, GO = Goiás, PR = Paraná

²Export ports

³Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

Source: ESALQ/ USP (University of São Paulo, Brazil) and USDA/AMS

Table 5. Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports to Shanghai, China

	-----2017-----									
	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
	North MT¹ - Santarém² --US\$/mt--					South MA¹ - São Luís² --US\$/mt--				
Truck	53.28	53.69	58.19		55.05	38.56	38.89	39.78		39.08
Ocean	24.00	33.50	31.00		29.50	23.50	30.25	31.00		28.25
Total transportation	77.28	87.19	89.19		84.55	62.06	69.14	70.78		67.33
Farm price ³	314.10	275.60	288.62		292.77	356.01	327.17	340.58		341.25
Landed cost	391.38	362.78	377.81		377.32	418.07	396.30	411.37		408.58
Transport % of landed cost	19.7	24.0	23.6		21.9	14.8	17.4	17.2		16.5
	Southwest PI¹ - São Luís² --US\$/mt--									
Truck	45.60	44.05	48.27		45.97					
Ocean	23.50	30.25	31.00		28.25					
Total transportation	69.10	74.30	79.27		74.22					
Farm price ³	210.49	304.16	306.34		273.66					
Landed cost	279.59	378.46	385.61		347.89					
Transport % of landed cost	24.7	19.6	20.6		21.6					

¹Producing regions: MT= Mato Grosso, PI = Piauí, MA = Maranhão

²Export ports

³Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

Source: ESALQ/ USP (University of São Paulo, Brazil) and USDA/AMS

Table 6. Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports to Hamburg, Germany

	-----2017-----									
	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
	North MT¹ - Santarém² --US\$/mt--					South MA¹ - São Luís² --US\$/mt--				
Truck	53.28	53.69	58.19		55.05	38.56	38.89	39.78		39.08
Ocean	21.00	23.60	25.00		23.20	17.60	20.00	21.20		19.60
Total transportation	74.28	77.29	83.19		78.25	56.16	58.89	60.98		58.68
Farm price ³	314.10	275.60	288.62		292.77	356.01	327.17	340.58		341.25
Landed cost	388.38	352.88	371.81		371.02	412.17	386.05	401.57		399.93
Transport % of landed cost	19.1	21.9	22.4		21.1	13.6	15.3	15.2		14.7
	Southwest PI¹ - São Luís² --US\$/mt--									
Truck	45.60	44.05	48.27		45.97					
Ocean	17.60	20.00	21.20		19.60					
Total transportation	63.20	64.05	69.47		65.57					
Farm price ³	210.49	304.16	306.34		273.66					
Landed cost	273.69	368.21	375.81		339.24					
Transport % of landed cost	23.1	17.4	18.5		19.7					

¹Producing regions: MT= Mato Grosso, PI = Piauí, MA = Maranhão

²Export ports

³Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

Source: ESALQ/ USP (University of São Paulo, Brazil) and USDA/AMS

Table 7. Truck rates for selected Brazilian soybean export transportation routes, 2017

Route #	Origin ¹ (reference city)	Destination	Distance (miles) ²	Share (%) ³	Freight Price (US\$)				
					1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
					--- (per 100 miles) ⁴ ---				
1	Northwest RS (Cruz Alta)	Rio Grande	288	11.8	11.53	10.65	10.42		11.09
2	North MT (Sorriso)	Santos	1,190	3.2	7.84	7.62	8.64		7.73
3	North MT (Sorriso)	Paranaguá	1,262	3.0	7.18	6.93	7.56		7.06
4	South GO (Rio Verde)	Santos	587	4.3	8.00	7.39	7.84		7.70
5	South GO (Rio Verde)	Paranaguá	726	3.5	7.82	7.50	8.18		7.66
6	North Central PR (Londrina)	Paranaguá	268	3.5	11.67	10.54	11.45		11.10
7	Western Central PR (Mamborê)	Paranaguá	311	2.8	10.89	10.05	11.05		10.47
8	Triangle MG (Uberaba)	Santos	339	2.3	11.17	10.29	11.07		10.73
9	West PR (Assis Chateaubriand)	Paranaguá	377	2.7	9.84	9.02	9.50		9.43
10	West Extreme BA (São Desidério)	Salvador	535	5.7	8.41	8.79	8.89		8.60
11	Southeast MT (Primavera do Leste)	Santos	901	2.7	7.40	6.88	7.47		7.14
12	Southeast MT (Primavera do Leste)	Paranaguá	975	2.5	6.66	6.48	7.11		6.57
13	Southwest MS (Maracaju)	Paranaguá	612	3.1	8.48	7.92	8.45		8.20
14	Southwest MS (Maracaju)	Santos	652	2.9	8.14	7.87	8.53		8.00
15	West PR (Assis Chateaubriand)	Santos	550	1.8	8.45	7.98	8.76		8.21
16	East GO (Cristalina)	Santos	585	1.8	9.02	8.60	9.17		8.81
17	North PR (Cornélio Procópio)	Paranaguá	306	1.9	9.64	8.74	9.49		9.19
18	Eastern Central PR (Castro)	Paranaguá	130	2.3	16.61	14.74	15.91		15.67
19	South Central PR (Guarapuava)	Paranaguá	204	2.2	14.14	13.51	14.43		13.83
20	North Central MS (São Gabriel do Oeste)	Santos	720	2.1	7.14	6.80	7.33		6.97
21	Ribeirão Preto SP (Guairá)	Santos	314	0.0	9.47	8.65	9.25		9.06
22	Northeast MT (Canarana)	Santos	950	2.7	8.00	8.09	8.07		8.04
23	East MS (Chapadão do Sul)	Santos	607	0.0	7.27	6.84	7.35		7.06
24	Northeast MT (Canarana)	Paranaguá	1,075	3.0	6.90	7.42	7.72		7.16
25	Western Central RS (Tupanciretã)	Rio Grande	273	3.4	10.14	9.55	8.24		9.85
26	Southwest PR (Chopinzinho)	Paranaguá	291	1.8	14.04	13.55	13.84		13.79
27	North MT (Sorriso)	Itaituba	672	5.7	9.05	9.38	9.77		9.22
28	North MT (Sorriso)	Porto Velho	632	6.0	7.44	7.49	7.92		7.46
29	North MT (Sorriso)	Santarém	876	4.3	6.08	6.13	6.64		6.10
30	South MA (Balsas)	São Luís	482	2.2	8.01	8.07	8.26		8.04
31	Southwest PI (Bom Jesus)	São Luís	606	2.2	7.53	7.27	7.97		7.40
32	Southeast PA (Paragominas)	Barcarena	249	1.1	10.96	9.99	10.03		10.47
33	East TO (Campos Lindos)	São Luís	842	1.5	7.46	8.47	7.13		7.96
Average			587	100.0	9.18	8.82	9.18		9.00

¹Although each origin region comprises several cities, the main city is considered as a reference to establish the freight price; na = not available

²Distance from the main city of the considered region to the mentioned ports

³Share is measured as a percentage of total production

⁴US\$ per metric ton (average monthly exchange rate from "Banco Central do Brasil" was used to convert Brazilian reais to the U.S. dollar)

⁵RS = Rio Grande do Sul, MT = Mato Grosso, GO = Goiás, PR = Paraná, MG = Minas Gerais, BA = Bahia, MS = Mato Grosso do Sul, SP = São Paulo, PI = Piauí, MA = Maranhão, PA = Pará, TO = Tocantins

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 8. Monthly Brazilian soybean export truck transportation cost index

Month	Freight price* (per 100 miles)	Index variation (%) (Base: prior month)	Index value (Base: Jan. 05 = 100)	Month	Freight price* (per 100 miles)	Index variation (%) (Base: prior month)	Index value (Base: Jan. 05 = 100)
Jan-10	9.17	1.7	158.10	Jan-14	8.86	-0.6	152.73
Feb-10	9.99	8.9	172.16	Feb-14	10.34	16.7	178.24
Mar-10	10.77	7.8	185.67	Mar-14	11.61	12.3	200.13
Apr-10	10.91	1.3	188.10	Apr-14	11.35	-2.2	195.65
May-10	10.80	-1.1	186.10	May-14	10.90	-4.0	187.89
Jun-10	10.61	15.7	182.95	Jun-14	10.34	-5.1	178.24
Jul-10	10.86	2.3	187.14	Jul-14	10.16	-1.7	175.21
Aug-10	11.21	3.3	193.23	Aug-14	10.10	-0.6	174.08
Sep-10	11.46	2.2	197.57	Sep-14	9.66	-4.3	166.54
Oct-10	11.51	0.4	198.41	Oct-14	8.77	-9.3	151.13
Nov-10	10.86	-5.6	187.20	Nov-14	8.36	-4.6	144.16
Dec-10	10.72	-1.3	184.79	Dec-14	7.96	-4.9	137.15
Jan-11	10.84	1.1	186.89	Jan-15	8.01	0.7	138.15
Feb-11	11.21	3.4	193.30	Feb-15	8.02	0.1	138.29
Mar-11	12.07	7.6	208.04	Mar-15	8.32	3.7	143.44
Apr-11	13.30	10.2	229.22	Apr-15	9.00	8.2	155.13
May-11	12.01	-9.7	207.04	May-15	8.39	-6.8	144.58
Jun-11	12.25	2.0	211.20	Jun-15	8.01	-4.5	138.12
Jul-11	12.72	3.9	219.34	Jul-15	7.56	-5.7	130.25
Aug-11	12.64	-0.7	217.84	Aug-15	7.38	-2.4	127.15
Sep-11	11.43	-9.6	196.95	Sep-15	6.60	-10.5	113.78
Oct-11	11.09	-3.0	191.10	Oct-15	6.70	1.5	115.43
Nov-11	10.70	-3.4	184.52	Nov-15	7.08	5.8	122.08
Dec-11	10.04	-6.2	173.00	Dec-15	6.76	-4.5	116.56
Jan-12	10.20	1.7	175.90	Jan-16	6.42	-5.1	110.63
Feb-12	10.76	5.4	185.45	Feb-16	6.73	4.8	115.98
Mar-12	10.55	-2.0	181.82	Mar-16	7.79	15.8	134.33
Apr-12	10.45	-1.0	180.06	Apr-16	8.30	6.5	143.05
May-12	9.64	-7.7	166.20	May-16	7.28	-12.3	125.43
Jun-12	9.37	-2.9	161.44	Jun-16	7.16	-1.5	123.51
Jul-12	9.76	4.2	168.16	Jul-16	7.46	4.2	128.64
Aug-12	10.17	4.3	175.33	Aug-16	7.33	-1.7	126.41
Sep-12	10.30	1.3	177.54	Sep-16	6.35	-13.3	109.53
Oct-12	10.13	-1.6	174.66	Oct-16	5.88	-7.5	101.35
Nov-12	9.84	-2.8	169.69	Nov-16	5.00	-14.9	86.21
Dec-12	9.73	-1.1	167.74	Dec-16	5.47	9.4	94.32
Jan-13	10.11	3.9	174.31	Jan-17	7.32	33.8	126.20
Feb-13	10.79	6.7	185.96	Feb-17	9.85	34.6	169.85
Mar-13	11.14	3.3	192.04	Mar-17	10.38	5.3	178.90
Apr-13	10.95	-1.7	188.71	Apr-17	9.52	-8.3	164.05
May-13	10.40	-5.0	179.31	May-17	8.75	-8.0	150.90
Jun-13	9.49	-8.8	163.61	Jun-17	8.18	-6.5	141.04
Jul-13	9.65	1.7	166.41	Jul-17	8.74	6.8	150.66
Aug-13	9.80	1.5	168.95	Aug-17	9.85	12.7	169.76
Sep-13	10.21	4.2	176.02	Sep-17	8.97	-9.0	154.55
Oct-13	10.17	-0.4	175.28				
Nov-13	9.29	-8.6	160.18				
Dec-13	8.91	-4.1	153.63				

*Weighted average and quoted in US\$ per metric ton
Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Figure 3. Truck rates for selected southern Brazilian soybean export transportation route

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Figure 4. Truck rates for selected north and northeastern Brazilian soybean export transportation route

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Figure 5. Brazilian soybean export truck transportation weighted average prices, 2015/17

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 9. Quarterly ocean freight rates for shipping soybeans from selected Brazilian ports to Germany and China (US\$/metric ton)*

Port	Destination	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010
Santos	Germany (Hamburg)	32.25	36.17	34.42	31.67
Paranagua	Germany (Hamburg)	31.83	38.08	36.92	33.50
Rio Grande	Germany (Hamburg)	33.50	39.00	37.08	34.54
Santos	China (Shanghai)	52.33	55.08	58.17	57.79
Paranagua	China (Shanghai)	52.50	58.58	63.10	61.50
Rio Grande	China (Shanghai)	53.00	58.75	63.27	57.83
Port	Destination	1st qtr 2011	2nd qtr 2011	3rd qtr 2011	4th qtr 2011
Santos	Germany (Hamburg)	34.96	35.00	36.65	32.00
Paranagua	Germany (Hamburg)	33.86	36.00	37.29	32.63
Rio Grande	Germany (Hamburg)	35.43	36.00	37.81	35.22
Santos	China (Shanghai)	50.00	50.05	52.31	49.65
Paranagua	China (Shanghai)	56.25	57.62	59.61	55.80
Rio Grande	China (Shanghai)	50.50	50.60	53.02	50.26
Port	Destination	1st qtr 2012	2nd qtr 2012	3rd qtr 2012	4th qtr 2012
Santos	Germany (Hamburg)	32.00	35.00	32.00	28.00
Paranagua	Germany (Hamburg)	31.58	35.00	34.30	34.30
Rio Grande	Germany (Hamburg)	32.08	36.50	32.00	32.00
Santos	China (Shanghai)	46.62	51.35	50.42	50.42
Paranagua	China (Shanghai)	52.32	57.63	55.42	55.42
Rio Grande	China (Shanghai)	47.92	52.78	49.02	49.02
Port	Destination	1st qtr 2013	2nd qtr 2013	3rd qtr 2013	4th qtr 2013
Santos	Germany (Hamburg)	30.00	29.00	29.00	30.00
Paranagua	Germany (Hamburg)	30.00	29.00	29.00	30.00
Rio Grande	Germany (Hamburg)	30.00	29.00	29.00	30.00
Santos	China (Shanghai)	52.34	34.50	34.50	42.50
Paranagua	China (Shanghai)	56.03	36.75	36.75	46.00
Rio Grande	China (Shanghai)	51.34	35.25	35.25	44.25
Port	Destination	1st qtr 2014	2nd qtr 2014	3rd qtr 2014	4th qtr 2014
Santos	Germany (Hamburg)	31.00	30.00	26.00	24.00
Paranagua	Germany (Hamburg)	31.00	30.00	28.00	26.00
Rio Grande	Germany (Hamburg)	31.00	30.00	24.50	22.50
Santos	China (Shanghai)	44.83	38.07	34.00	30.50
Paranagua	China (Shanghai)	47.22	41.13	36.00	32.50
Rio Grande	China (Shanghai)	44.83	38.75	32.50	30.50

*Correspond to the average actual values negotiated between shippers and carriers and weighted according to the magnitude of the shipped volume

Source: Sistema de Informações de Fretes, SIFRECA, ESALQ/USP (University of São Paulo, Brazil)

(Continued on following page)

Table 9. Quarterly ocean freight rates for shipping soybeans from selected Brazilian ports to Germany and China (continued) (US\$/metric ton)*

Port	Destination	1st qtr 2015	2nd qtr 2015	3rd qtr 2015	4th qtr 2015
Santos	Germany (Hamburg)	22.00	21.00	19.00	17.00
Paranaguá	Germany (Hamburg)	22.00	21.00	19.00	17.00
Rio Grande	Germany (Hamburg)	22.00	21.00	19.00	17.00
Santarém	Germany (Hamburg)	20.00	14.50	13.50	20.00
São Luís	Germany (Hamburg)	20.00	18.25	16.38	20.50
Barcarena	Germany (Hamburg)	20.00	16.00	15.20	21.00
Santos	China (Shanghai)	29.50	22.50	23.25	20.00
Paranagua	China (Shanghai)	31.50	23.50	24.18	20.50
Rio Grande	China (Shanghai)	29.50	25.00	25.75	21.00
Santarém	China (Shanghai)	32.00	25.00	25.75	23.50
São Luís	China (Shanghai)	32.00	25.00	25.75	23.50
Barcarena	China (Shanghai)	32.00	25.00	25.75	23.50
Port	Destination	1st qtr 2016	2nd qtr 2016	3rd qtr 2016	4th qtr 2016
Santos	Germany (Hamburg)	16.00	17.00	16.50	23.00
Paranaguá	Germany (Hamburg)	16.00	17.00	16.50	24.00
Rio Grande	Germany (Hamburg)	16.00	17.00	16.50	23.00
Santarém	Germany (Hamburg)	11.03	14.13	15.00	19.80
São Luís	Germany (Hamburg)	8.25	11.00	11.80	15.80
Barcarena	Germany (Hamburg)	9.60	12.45	13.20	17.35
Santos	China (Shanghai)	17.50	16.50	12.50	20.00
Paranagua	China (Shanghai)	18.00	18.50	14.50	21.50
Rio Grande	China (Shanghai)	18.50	17.00	13.00	20.50
Santarém	China (Shanghai)	22.00	21.00	19.40	23.75
São Luís	China (Shanghai)	20.00	18.40	17.50	22.00
Barcarena	China (Shanghai)	22.50	21.50	20.00	23.75
Port	Destination	1st qtr 2017	2nd qtr 2017	3rd qtr 2017	4th qtr 2017
Santos	Germany (Hamburg)	21.00	24.00	26.00	
Paranaguá	Germany (Hamburg)	22.00	25.00	27.00	
Rio Grande	Germany (Hamburg)	22.00	25.00	27.00	
Santarém	Germany (Hamburg)	21.00	23.60	25.00	
São Luís	Germany (Hamburg)	17.60	20.00	21.20	
Barcarena	Germany (Hamburg)	18.00	20.60	21.80	
Santos	China (Shanghai)	18.50	29.00	30.00	
Paranagua	China (Shanghai)	20.50	30.50	31.00	
Rio Grande	China (Shanghai)	18.00	29.50	31.00	
Santarém	China (Shanghai)	24.00	33.50	31.00	
São Luís	China (Shanghai)	23.50	30.25	31.00	
Barcarena	China (Shanghai)	24.00	33.50	31.00	

*Correspond to the average actual values negotiated between shippers and carriers and weighted according to the magnitude of the shipped volume

Source: Sistema de Informações de Fretes, SIFRECA, ESALQ/USP (University of São Paulo, Brazil)

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Data Sets:

- ◆ [Figure 3: Truck rates for selected Brazilian soybean export transportation route \(XLS\)](#)
- ◆ [Figure 4: Truck rates for selected north and Northeast Brazilian soybean export transportation route \(XLS\)](#)
- ◆ [Figure 5: Brazilian soybean export truck transportation weighted average prices, 2015/17 \(XLS\)](#)
- ◆ [Table 1: Quarterly costs of transporting Brazilian soybeans from the southern ports to Shanghai, China \(XLS\)](#)
- ◆ [Table 1a: Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports to Shanghai, China \(XLS\)](#)
- ◆ [Table 2: Quarterly costs of transporting Brazilian soybeans from the southern ports to Hamburg, Germany \(XLS\)](#)
- ◆ [Table 2a: Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports to Hamburg, Germany \(XLS\)](#)
- ◆ [Table 3: Quarterly costs of transporting Brazilian soybeans from the southern ports to Shanghai, China \(XLS\)](#)
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- ◆ [Table 8: Monthly Brazilian soybean export truck transportation cost index \(XLS\)](#)
- ◆ [Table 9: Quarterly ocean freight rates for shipping soybeans from selected Brazilian ports to Germany and China \(XLS\)](#)

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