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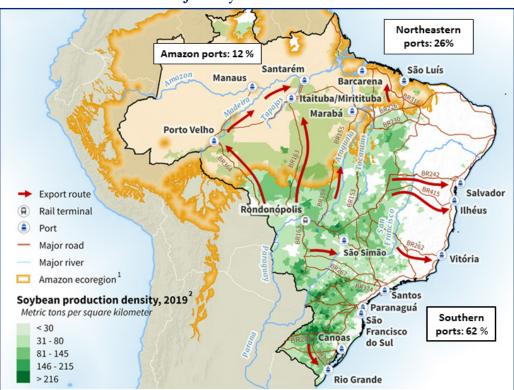
First Quarter 2021 (January, February, March) Published May 2021

Delayed Soybean Exports and High Global Demand Led to Higher Prices in First Quarter 2021

Brazil's soybean export season typically starts in January, peaks in May, and declines through the end of the year. However, this season, planting and harvest were delayed.¹ The delay pushed the export window to overlap with the sugarcane harvest season and caused vessel delays and backups in March, especially in the southern port of Santos. These vessel disruptions increased ocean freight rates (tables 1, 2, and 9) (Reuters). Strong Chinese demand for iron-ore and grain, as well as heavy rain in northern Brazil, also contributed to a significant increase in ocean freight rates. This was particularly true for the routes from the northern and northeastern ports of Santarém and São Luís, Brazil, to Shanghai, China, and Hamburg, Germany, as vessels waited either to load grain or iron-ore (tables 1, 1a, 2, 2a, and 9) (Safety4Sea and Mining.com). Further contributing to the continued rise of ocean freight and charter rates, from January through March, was the reopening of major economies around the world after their pandemic lockdowns (Grain Transportation Report (GTR), April 15). Santos is still the largest Brazilian soybean export port, followed by Paranaguá, Barcarena, São

Luís, Santarém, and Manaus. These six ports accounted for nearly 88 percent of Brazil's total exports in first quarter 2021. With the shares broken down from a north/south perspective, the southern ports of Santos, Rio Grande, Paranaguá, and São Francisco do Sul dominated the soybean trade, accounting for about 62 percent of Brazil's soybean

Figure 1. Southern ports exported 62 percent of Brazilian soybeans, January-March 2021



World Wildlife Fund.

¹ In Brazil, early October through mid-December is the main soybean planting period, and February-April is the harvest season. Brazil begins exporting soybeans in early January. U.S. soybeans are planted in May and early June and are generally harvested in September and October. The United States begins exporting soybeans in late September.

² Brazilian Institute of Geography and Statistics—Produção Agricola Municipal.
Source: USDA/Agricultural Marketing Service (AMS) and USDA/Foreign Agricultural Service (FAS).



exports (fig. 1). Meanwhile, the northeastern ports of São Luís, Vitória, Salvador, and Barcarena accounted for 26 percent of soybean exports. The Amazon River ports of Manaus and Santarém exported 12 percent of Brazil's total soybean exports.

From first quarter 2020 to first quarter 2021 (year to year), Brazilian soybean exports declined from 17.1 million metric tons (mmt) to 16.2 mmt (Comex Stat, Ministério da Economia).² Year to year, the cost of shipping a metric ton (mt) of soybeans 100 miles by truck decreased about 12 percent from \$6.33 per mt to \$5.60 per mt (table 8). This reduction also partially reflects the weakening of the Brazilian real (R\$) against the U.S. dollar. The Brazilian real depreciated nearly 23 percent against the U.S. dollar, from R\$4.47 per U.S. dollar to R\$5.48 per U.S. dollar (Brazil Central Bank). In the State of Mato Grosso, lower transportation costs and higher farm gate prices led to lower costs for transporting Brazilian soybeans from the southern ports to Shanghai and Hamburg. (Transportation costs fell because the decline in truck and rail rates offset the increase in ocean rates.) As a share of total landed costs, transportation costs from northern Mato Grosso to Santos, Paranaguá, and Rio Grande decreased 33-37 percent (tables 1 and 2).

Year to year, average Brazilian soybean export prices rose by 14 percent, from \$347.69 per mt to \$396.30 per mt. Brazilian farmers have benefitted from the real's depreciation against the U.S. dollar, because soybeans are priced in U.S. dollars, but paid in reais. Measured in U.S. dollars, soybean average farm gate prices increased nearly 60 percent, from \$296.27/mt to \$473.15/mt year to year. The depreciation of the real led to higher domestic prices. On average, in reais, first-quarter 2021 farm gate prices nearly doubled, from R\$1,316.94/mt to R\$2,589.04 (Companhia Nacional de Abastecimento (CONAB)).

A couple of factors diverted soybean trade from South America to the United States during the first quarter of 2021: first, Brazil's inability to supply large export volumes to China at the beginning of its harvest season and, second, Argentinean producers' reluctance to sell additional supplies of soybeans beyond what they needed to meet expenses (ERS, Oil Crops Outlook, April 2021; FAS, Grain: World Markets and Trade, March 2021 and April 2021). In the first 3 months of 2021, Brazil exported 11.6 mmt of soybeans to China, valued at \$4.6 billion, nearly 8 percent less than its total of 12.6 mmt in first quarter 2020. The next highest shares of Brazil's soybean exports (in declining order) went to Thailand, Spain, Turkey, and the Netherlands. The southern ports of Santos, Rio Grande, Paranaguá, and São Francisco do Sul still dominate the soybean trade to China, accounting for 73 percent of Brazil's soybean exports to China. The northeastern ports of São Luís, Vitória, Salvador, and Barcarena accounted for 27 percent of soybean exports to China. The Amazon River ports of Manaus and Santarém did not export to China. These ports exported mostly to the European Union (91 percent) and Africa (9 percent). The ocean freight spread between the Shanghai routes from the northeastern port of São Luís (\$41/mt) and the port of Santos (\$37/mt) was \$4/mt (table 9). For more information, contact Delmy L. Salin at delmy.salin@usda.gov.



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

| | 2020 1st qtr. | 2021 1st qtr. | % Change 2020-21 | 2020 1st qtr. | 2021 1st qtr. | % Change 2020-21 |
|------------------------------|------------------|------------------------------|---------------------|------------------|-------------------------------|---------------------|
| | North I | MT¹ - Santos² b —US\$/mt— | y truck | Northy | vest RS¹ - Rio G —US\$/mt— | Grande ² |
| Truck | 68.33 | 60.94 | -10.8 | 22.92 | 19.91 | -13.1 |
| Ocean | 35.50 | 37.00 | 4.2 | 37.00 | 37.25 | 0.7 |
| Total transportation | 103.83 | 97.94 | -5.7 | 59.92 | 57.16 | -4.6 |
| Farm gate price ³ | 282.59 | 463.10 | 63.9 | 300.04 | 475.64 | 58.5 |
| Landed cost | 386.43 | 561.04 | 45.2 | 359.97 | 532.80 | 48.0 |
| Transport % of landed cost | 26.9 | 17.5 | -35.0 | 16.6 | 10.7 | -35.6 |
| | North | MT¹ - Santos² —US\$/mt— | by rail | Norti | h MT¹ - Parana —US\$/mt— | aguá² |
| Truck | 24.79 | 22.18 | -10.5 | 67.48 | 58.57 | -13.2 |
| Rail ⁴ | 37.73 | 30.95 | -18.0 | - | - | - |
| Ocean | 35.50 | 37.00 | 4.2 | 37.25 | 38.75 | 4.0 |
| Total transportation | 98.02 | 90.13 | -8.0 | 104.73 | 97.32 | -7.1 |
| Farm gate price ³ | 282.59 | 463.10 | 63.9 | 282.59 | 463.10 | 63.9 |
| Landed cost | 380.61 | 553.22 | 45.4 | 387.32 | 560.42 | 44.7 |
| Transport % of landed cost | 25.8 | 16.3 | -36.7 | 27.0 | 17.4 | -35.8 |

¹Producing regions: RS = Rio Grande do Sul and MT= Mato Grosso.

Note: qtr. = quarter. mt = metric ton.

²Export port.

³The source of the farm gate price is the Brazilian Government, Companhia Nacional de Abastecimento (CONAB).

⁴In Brazil, there are no public/official rail tariff rates. Rail rates can be up to 30 percent lower than truck rates, depending on volumes hauled and the terms of contracts signed between the railroad company and shippers.



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

| | 2020 1st qtr. | 2021 1st qtr. | % Change 2020-21 | 2020 1st qtr. | 2021 1st qtr. | % Change 2020-21 |
|------------------------------|------------------|------------------------------|---------------------|------------------|-----------------------------|---------------------|
| | Nort | h MT¹ - Santa —US\$/mt— | rém² | Sou | th MA¹ - São L —US\$/mt— | uís² |
| Truck | 44.10 | 40.01 | -9.3 | 28.86 | 25.06 | -13.2 |
| Ocean | 36.50 | 50.54 | 38.5 | 36.75 | 41.00 | 11.6 |
| Total transportation | 80.60 | 90.55 | 12.3 | 65.61 | 66.06 | 0.7 |
| Farm gate price ³ | 282.59 | 463.10 | 63.9 | 300.23 | 466.73 | 55.5 |
| Landed cost | 363.20 | 553.64 | 52.4 | 365.83 | 532.79 | 45.6 |
| Transport % of landed cost | 22.2 | 16.4 | -26.3 | 17.9 | 12.4 | -30.9 |
| | Soutl | nwest PI¹ - São —US\$/mt— | Luís² | Nort | h MT¹ - Barcar —US\$/mt— | rena² |
| Truck | 32.49 | 29.27 | -9.9 | 37.11 | 34.86 | -6.1 |
| Barge⁴ | - | - | - | 16.42 | 16.37 | -0.3 |
| Ocean | 36.75 | 41.00 | 11.6 | 38.50 | 42.00 | 9.1 |
| Total transportation | 69.24 | 70.27 | 1.5 | 92.03 | 93.23 | 1.3 |
| Farm gate price ³ | 302.03 | 484.07 | 60.3 | 282.59 | 463.10 | 63.9 |
| Landed cost | 371.27 | 554.34 | 49.3 | 374.62 | 556.33 | 48.5 |
| | | | | | | |

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

Note: qtr. = quarter. mt = metric ton.

²Export port.

³The source of the farm gate price is the Brazilian Government, Companhia Nacional de Abastecimento (CONAB).

⁴In Brazil, there are no public/official Barge rates. Barge rates can be up to 60 percent lower than truck rates, depending on volumes hauled and the terms of contracts signed between the barge company and shippers. The distance is in nautical miles.



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

| | 2020 1st qtr. | 2021 1st qtr. | % Change 2020-21 | 2020 1st qtr. | 2021 1st qtr. | % Change 2020-21 |
|------------------------------|------------------|-----------------------------|---------------------|------------------|-------------------------------|---------------------|
| | No | rth MT¹ - Sant —US\$/mt— | os² | Northy | vest RS¹ - Rio G —US\$/mt— | irande² |
| Truck | 68.33 | 60.94 | -10.8 | 22.92 | 19.91 | -13.1 |
| Ocean | 29.25 | 31.25 | 6.8 | 29.50 | 32.00 | 8.5 |
| Total transportation | 97.58 | 92.19 | -5.5 | 52.42 | 51.91 | -1.0 |
| Farm gate price ³ | 282.59 | 463.10 | 63.9 | 300.04 | 475.64 | 58.5 |
| Landed cost | 380.18 | 555.29 | 46.1 | 352.47 | 527.55 | 49.7 |
| Transport % of landed cost | 25.7 | 16.6 | -35.3 | 14.9 | 9.8 | -33.8 |
| | No | rth MT¹ - Sant —US\$/mt— | OS ² | Nort | h MT¹ - Parana —US\$/mt— | nguá² |
| Truck | 24.79 | 22.18 | -10.5 | 67.48 | 58.57 | -13.2 |
| Rail ⁴ | 37.73 | 30.95 | -18.0 | - | - | - |
| Ocean | 29.25 | 31.25 | 6.8 | 30.00 | 31.00 | 3.3 |
| Total transportation | 91.77 | 84.38 | -8.1 | 97.48 | 89.57 | -8.1 |
| Farm gate price ³ | 282.59 | 463.10 | 63.9 | 282.59 | 463.10 | 63.9 |
| Landed cost | 374.36 | 547.47 | 46.2 | 380.07 | 552.67 | 45.4 |
| Transport % of landed cost | 24.5 | 15.4 | -37.1 | 25.6 | 16.2 | -36.8 |

¹Producing regions: RS = Rio Grande do Sul and MT= Mato Grosso.

Note: qtr. = quarter. mt = metric ton.

²Export port.

³The source of the farm gate price is the Brazilian Government, Companhia Nacional de Abastecimento (CONAB).

⁴In Brazil, there are no public/official rail tariff rates. Rail rates can be up to 30 percent lower than truck rates, depending on volumes hauled and the terms of contracts signed between the railroad company and shippers.



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

| | 2020 1st qtr. | 2021 1st qtr. | % Change 2020-21 | 2020 1st qtr. | 2021 1st qtr. | % Change 2020-21 |
|------------------------------|------------------|------------------------------|---------------------|------------------|-----------------------------|---------------------|
| | Nort | th MT¹ - Santa —US\$/mt— | rém² | Sou | th MA¹ - São L —US\$/mt— | uís² |
| Truck | 44.10 | 40.01 | -9.3 | 28.86 | 25.06 | -13.2 |
| Ocean | 25.00 | 28.65 | 14.6 | 22.25 | 33.25 | 49.4 |
| Total transportation | 69.10 | 68.66 | -0.6 | 51.11 | 58.31 | 14.1 |
| Farm gate price ³ | 282.59 | 463.10 | 63.9 | 300.23 | 466.73 | 55.5 |
| Landed cost | 351.70 | 531.75 | 51.2 | 351.33 | 525.04 | 49.4 |
| Transport % of landed cost | 19.6 | 12.9 | -34.3 | 14.5 | 11.1 | -23.7 |
| | South | nwest PI¹ - São —US\$/mt— | Luís² | Nort | h MT¹ - Barcar US\$/mt | ena² |
| Truck | 32.49 | 29.27 | -9.9 | 37.11 | 34.86 | -6.1 |
| Barge ⁴ | - | - | - | 16.42 | 16.37 | -0.3 |
| Ocean | 22.25 | 33.25 | 49.4 | 24.00 | 28.10 | 17.1 |
| Total transportation | 54.74 | 62.52 | 14.2 | 77.53 | 79.33 | 2.3 |
| Farm gate price ³ | 302.03 | 484.07 | 60.3 | 282.59 | 463.10 | 63.9 |
| Landed cost | 356.77 | 546.59 | 53.2 | 360.12 | 542.43 | 50.6 |
| Transport % of landed cost | 15.3 | 11.4 | -25.5 | 21.5 | 14.6 | -32.1 |

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

Note: qtr. = quarter. mt = metric ton.

²Export port.

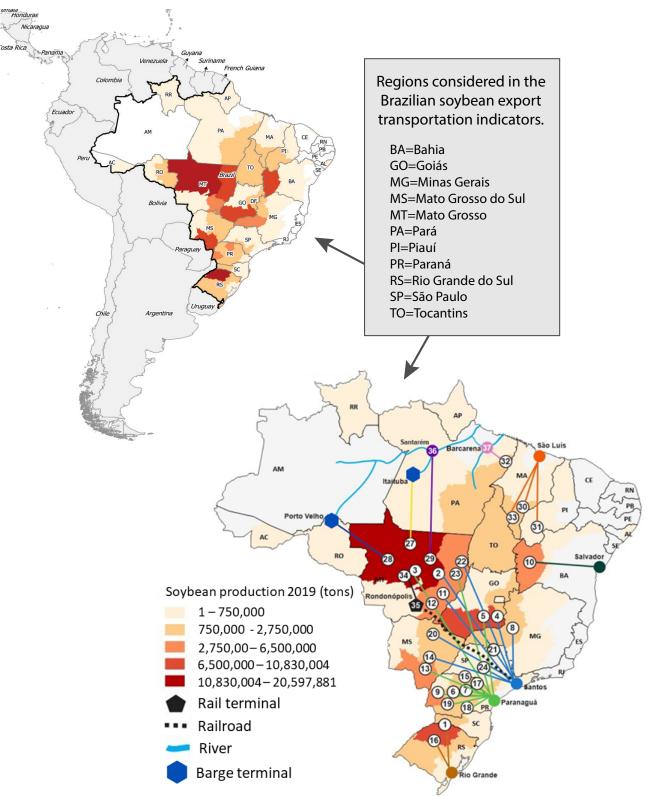
³The source of the farm gate price is the Brazilian Government, Companhia Nacional de Abastecimento (CONAB).

⁴In Brazil, there are no public/official Barge rates. Barge rates can be up to 60 percent lower than truck rates, depending on volumes hauled and the terms of contracts signed between the barge company and shippers. The distance is in nautical miles.



Indicators

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 79 percent of Brazilian soybean production, 2019 (Brazilian Institute of Geography and Statistics—Produção Agricola



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

| | | | | | —20 | 21— | | | | | |
|------------------------------|----------|--|------------------------------------|----------|------------|----------|-------------------------|---------------------------|----------|--|--|
| | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. | |
| | ı | North MT¹ - Santos² by truck —US\$/mt— | | | | | MT¹ - Para -US\$/mt- | _ | | | |
| Truck | 60.94 | | | | 60.94 | 58.57 | | | | 58.57 | |
| Ocean | 37.00 | | | | 37.00 | 38.75 | | | | 38.75 | |
| Total transportation | 97.94 | | | | 97.94 | 97.32 | | | | 97.32 | |
| Farm gate price ³ | 463.10 | | | | 463.10 | 463.10 | | | | 463.10 | |
| Landed cost | 561.04 | | | | 561.04 | 560.42 | | | | 560.42 | |
| Transport % of landed cost | 17.5 | | | | 17.5 | 17.4 | | | | 17.4 | |
| | | North M | T ¹ - Santo -US\$/mt | • | | 1 | Northwes – | st RS¹ - Rid -US\$/mt- | | 38.75 97.32 463.10 560.42 17.4 19.91 - 37.25 57.16 475.64 | |
| Truck | 22.18 | | | | 22.18 | 19.91 | | | | 19.91 | |
| Rail ⁴ | 30.95 | | | | 30.95 | - | | | | - | |
| Ocean | 37.00 | | | | 37.00 | 37.25 | | | | 37.25 | |
| Total transportation | 90.13 | | | | 90.13 | 57.16 | | | | 57.16 | |
| Farm gate price ³ | 463.10 | | | | 463.10 | 475.64 | | | | 475.64 | |
| Landed cost | 553.22 | | | | 553.22 | 532.80 | | | | 532.80 | |
| Transport % of landed cost | 16.3 | | | | 16.3 | 10.7 | | | | 10.7 | |

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

Note: qtr. = quarter. mt = metric ton. Avg. = average.

²Export port.

³The source of the farm gate price is the Brazilian Government, Companhia Nacional de Abastecimento (CONAB).

⁴ In, Brazil, there are no public/official rail tariff rates. Rail rates can be up to 30 percent lower than truck rates, depending on volumes hauled and the terms of contracts signed between the railroad company and shippers.



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

| | | | | | —20 | 21— | | | | |
|------------------------------|--|----------|-------------------------------------|----------|------------|----------|---------------|--------------------------|----------|--------|
| | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. |
| | North MT¹ - Santos² by truck —US\$/mt— North MT¹ - Parana —US\$/mt— | | | | | _ | | | | |
| Truck | 60.94 | | | | 60.94 | 58.57 | | | | 58.57 |
| Ocean | 31.25 | | | | 31.25 | 31.00 | | | | 31.00 |
| Total transportation | 92.19 | | | | 92.19 | 89.57 | | | | 89.57 |
| Farm gate price ³ | 463.10 | | | | 463.10 | 463.10 | | | | 463.10 |
| Landed cost | 555.29 | | | | 555.29 | 552.67 | | | | 552.67 |
| Transport % of landed cost | 16.6 | | | | 16.6 | 16.2 | | | | 16.2 |
| | | | T ¹ - Santo -US\$/mt- | • | | ı | Northwes – | t RS¹ - Rid -US\$/mt- | | 2 |
| Truck | 22.18 | | | | 22.18 | 19.91 | | | | 19.91 |
| Rail ⁴ | 30.95 | | | | 30.95 | - | | | | - |
| Ocean | 31.25 | | | | 31.25 | 32.00 | | | | 32.00 |
| Total transportation | 84.38 | | | | 84.38 | 51.91 | | | | 51.91 |
| Farm gate price ³ | 463.10 | | | | 463.10 | 475.64 | | | | 475.64 |
| Landed cost | 547.47 | | | | 547.47 | 527.55 | | | | 527.55 |
| Transport % of landed cost | 15.4 | | | | 15.4 | 9.8 | | | | 9.8 |

¹Producing regions: RS = Rio Grande do Sul and MT= Mato Grosso.

Note: qtr. = quarter. mt = metric ton. Avg. = average.

²Export port

³The source of the farm gate price is the Brazilian Government, Companhia Nacional de Abastecimento (CONAB).

⁴In, Brazil, there are no public/official rail tariff rates. Rail rates can be up to 30 percent lower than truck rates, depending on volumes hauled and the terms of contracts signed between the railroad company and shippers.



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

| | | | | | —20 | 21— | | | | |
|------------------------------|----------|----------|-------------------------------------|----------|------------|------------------------------------|----------|----------------------|----------|--------|
| | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. |
| | | | MT¹ - San -US\$/mt | | | South MA¹ - São Luís² —US\$/mt— | | | | |
| Truck | 40.01 | | | | 40.01 | 25.06 | | | | 25.06 |
| Ocean | 50.54 | | | | 50.54 | 41.00 | | | | 41.00 |
| Total transportation | 90.55 | | | | 90.55 | 66.06 | | | | 66.06 |
| Farm gate price ³ | 463.10 | | | | 463.10 | 466.73 | | | | 466.73 |
| Landed cost | 553.64 | | | | 553.64 | 532.79 | | | | 532.79 |
| Transport % of landed cost | 16.4 | | | | 16.4 | 12.4 | | | | 12.4 |
| | | | est PI ¹ - S -US\$/mt | | | | | MT¹ - Bar US\$/mt | | |
| Truck | 29.27 | | | | 29.27 | 34.86 | | | | 34.86 |
| Barge ⁴ | - | | | | - | 16.37 | | | | 16.37 |
| Ocean | 41.00 | | | | 41.00 | 42.00 | | | | 42.00 |
| Total transportation | 70.27 | | | | 70.27 | 93.23 | | | | 93.23 |
| Farm gate price ³ | 484.07 | | | | 484.07 | 463.10 | | | | 463.10 |
| Landed cost | 554.34 | | | | 554.34 | 556.33 | | | | 556.33 |
| Transport % of landed cost | 12.7 | | | | 12.7 | 16.8 | | | | 16.8 |

 $^{^{1}}$ Producing regions: MT= Mato Grosso, PI = Piauí, and MA = Maranhão.

Note: qtr. = quarter. mt = metric ton. Avg. = average.

²Export port

³The source of the farm gate price is the Brazilian Government, Companhia Nacional de Abastecimento (CONAB).

⁴In Brazil, there are no public/official Barge rates. Barge rates can be up to 60 percent lower than truck rates, depending on volumes hauled and the terms of contracts signed between the barge company and shippers. The distance is in nautical miles.



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

| | | | | | —20 | 21— | | | | |
|------------------------------|----------|--|-------------------------------------|----------|------------|----------|----------|----------------------|----------|--------|
| | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. |
| | | North MT¹ - Santarém² South MA¹ - São Luís² —US\$/mt— US\$/mt— | | | | | | | | |
| Truck | 40.01 | | | | 40.01 | 25.06 | | | | 25.06 |
| Ocean | 28.65 | | | | 28.65 | 33.25 | | | | 33.25 |
| Total transportation | 68.66 | | | | 68.66 | 58.31 | | | | 58.31 |
| Farm gate price ³ | 463.10 | | | | 463.10 | 466.73 | | | | 466.73 |
| Landed cost | 531.75 | | | | 531.75 | 525.04 | | | | 525.04 |
| Transport % of landed cost | 12.9 | | | | 12.9 | 11.1 | | | | 11.1 |
| | | | est PI ¹ - S -US\$/mt | | | | | MT¹ - Bar US\$/mt | | |
| Truck | 29.27 | | | | 29.27 | 34.86 | | | | 34.86 |
| Barge ⁴ | - | | | | - | 16.37 | | | | 16.37 |
| Ocean | 33.25 | | | | 33.25 | 28.10 | | | | 28.10 |
| Total transportation | 62.52 | | | | 62.52 | 79.33 | | | | 79.33 |
| Farm gate price ³ | 484.07 | | | | 484.07 | 463.10 | | | | 463.10 |
| Landed cost | 546.59 | | | | 546.59 | 542.43 | | | | 542.43 |
| Transport % of landed cost | 11.4 | | | | 11.4 | 14.6 | | | | 14.6 |

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

Note: qtr. = quarter. mt = metric ton. Avg. = average.

²Export port.

³The source of the farm gate price is the Brazilian Government, Companhia Nacional de Abastecimento (CONAB).

⁴In Brazil, there are no public/official Barge rates. Barge rates can be up to 60 percent lower than truck rates, depending on volumes hauled and the terms of contracts signed between the barge company and shippers. The distance is in nautical miles.



Table 7. Quarterly truck rates for selected Brazilian soybean export transportation routes, 2021

| Route | Origin ¹ | Destination | Distance | Share | Frei | ght price | (US\$/mt | :/100 mile | es)⁴ |
|-------|---|-------------|----------------------|-------|----------|-----------|----------|------------|------|
| # | (reference city) | Destination | (miles) ² | (%)³ | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. |
| 1 | Northwest RS ⁵ (Cruz Alta) | Rio Grande | 288 | 12.0 | 6.91 | | | | 6.91 |
| 2 | North MT (Sorriso) | Santos | 1,190 | 3.3 | 5.12 | | | | 5.12 |
| 3 | North MT (Sorriso) | Paranaguá | 1,262 | 3.1 | 4.64 | | | | 4.64 |
| 4 | South GO (Rio Verde) | Santos | 587 | 4.9 | 4.96 | | | | 4.96 |
| 5 | South GO (Rio Verde) | Paranaguá | 726 | 3.9 | 5.07 | | | | 5.07 |
| 6 | North Central PR (Londrina) | Paranaguá | 268 | 2.8 | 7.17 | | | | 7.17 |
| 7 | Western Central PR (Mamborê) | Paranaguá | 311 | 2.2 | 6.63 | | | | 6.63 |
| 8 | Triangle MG (Uberaba) | Santos | 339 | 3.0 | 6.86 | | | | 6.86 |
| 9 | West PR (Assis Chateaubriand) | Paranaguá | 377 | 1.7 | 6.08 | | | | 6.08 |
| 10 | West Extreme BA (São Desidério) | Salvador | 535 | 5.9 | 5.28 | | | | 5.28 |
| 11 | Southeast MT (Primavera do Leste) | Santos | 901 | 2.5 | 4.69 | | | | 4.69 |
| 12 | Southeast MT (Primavera do Leste) | Paranaguá | 975 | 2.3 | 4.58 | | | | 4.58 |
| 13 | Southwest MS (Maracaju) | Paranaguá | 612 | 3.0 | 5.68 | | | | 5.68 |
| 14 | Southwest MS (Maracaju) | Santos | 652 | 2.8 | 5.47 | | | | 5.47 |
| 15 | West PR (Assis Chateaubriand) | Santos | 550 | 1.2 | 5.35 | | | | 5.35 |
| 16 | East GO (Cristalina) | Santos | 585 | 1.9 | 5.72 | | | | 5.72 |
| 17 | North PR (Cornélio Procópio) | Paranaguá | 306 | 1.7 | 5.84 | | | | 5.84 |
| 18 | Eastern Central PR (Castro) | Paranaguá | 130 | 2.0 | 8.74 | | | | 8.74 |
| 19 | South Central PR (Guarapuava) | Paranaguá | 204 | 2.3 | 8.46 | | | | 8.46 |
| 20 | North Central MS (São Gabriel do Oeste) | Santos | 720 | 2.4 | 4.61 | | | | 4.61 |
| 21 | Ribeirão Preto SP (Guairá) | Santos | 314 | 0.0 | 5.42 | | | | 5.42 |
| 22 | Northeast MT (Canarana) | Santos | 950 | 3.6 | 4.78 | | | | 4.78 |
| 23 | East MS (Chapadão do Sul) | Santos | 607 | 0.0 | 4.64 | | | | 4.64 |

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.

Note: qtr. = quarter. mt = metric ton. Avg. = average.

For more details, on the definitions/calculations contact $\underline{esalqlog@esalqlog.esalq.usp.br}.$

³Share is measured as a percentage of total production.

⁴Average monthly exchange rate from "Banco Central do Brasil" was used to convert Brazilian reais to the U.S. dollars.

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, and TO=Tocantins.

⁶In Brazil, there are no public/official rail tariff rates. Rail rates can be up to 30 percent lower than truck rates, depending on the volumes hauled and the terms of contracts signed between the railroad company and shippers.

⁷In Brazil, there are no public/official Barge rates. Barge rates can be up to 60 percent lower than truck rates, depending on the volumes hauled and the terms of contracts signed between the barge company and shippers. The distance is in nautical miles.



Table 7. Quarterly truck rates for selected Brazilian soybean export transportation routes, 2021

| Route | Origin¹ | Destination | Distance | Share | Frei | ght price | (US\$/mt | /100 mile | es) ⁴ |
|-------|--|---------------------------------|----------------------|-------|----------|-----------|----------|-----------|------------------|
| # | (reference city) | Destination | (miles) ² | (%)³ | 1st qtr. | 2nd qtr. | 3rd qtr. | 4th qtr. | Avg. |
| 24 | Northeast MT (Canarana) | Paranaguá | 1,075 | 3.2 | 4.23 | | | | 4.23 |
| 25 | Western Central RS (Tupanciretã) | Rio Grande | 273 | 2.7 | 5.42 | | | | 5.42 |
| 26 | Southwest PR(Chopinzinho) | Paranaguá | 291 | 1.5 | 6.83 | | | | 6.83 |
| 27 | North MT (Sorriso) | Itaituba | 672 | 5.8 | 5.19 | | | | 5.19 |
| 28 | North MT (Sorriso) | Porto Velho | 632 | 6.2 | 4.55 | | | | 4.55 |
| 29 | North MT (Sorriso) | Santarém | 876 | 4.4 | 4.57 | | | | 4.57 |
| 30 | South MA (Balsas) | São Luís | 482 | 2.2 | 5.20 | | | | 5.20 |
| 31 | Southwest PI (Bom Jesus) | São Luís | 606 | 2.5 | 4.83 | | | | 4.83 |
| 32 | Southeast PA (Paragominas) | Barcarena | 249 | 1.6 | 6.61 | | | | 6.61 |
| 33 | East TO (Campos Lindos) | São Luís | 842 | 1.4 | 4.51 | | | | 4.51 |
| | Weighted average | | 587 | 100.0 | 5.60 | | | | 5.60 |
| 34 | North MT (Sorriso) | Rondonópolis (Rail terminal) | 382 | | 5.81 | | | | 5.81 |
| 35 | Rondonópolis MT (Rail terminal) ⁶ | Santos | 1,019 | | 3.04 | | | | 3.04 |
| 36 | Itaituba PA (Barge terminal) ⁷ | Santarém | 224 | | 5.97 | | | | 5.97 |
| 37 | Itaituba PA (Barge terminal) ⁷ | Barcarena | 738 | | 2.22 | | | | 2.22 |

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.

Note: qtr. = quarter. mt = metric ton. Avg. = average.

For more details, on the definitions/calculations contact esalqlog@esalqlog.esalq.usp.br.

³Share is measured as a percentage of total production.

⁴Average monthly exchange rate from "Banco Central do Brasil" was used to convert Brazilian reais to the U.S. dollars.

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, and TO=Tocantins.

⁶In Brazil, there are no public/official rail tariff rates. Rail rates can be up to 30 percent lower than truck rates, depending on the volumes hauled and the terms of contracts signed between the railroad company and shippers.

⁷In Brazil, there are no public/official Barge rates. Barge rates can be up to 60 percent lower than truck rates, depending on the volumes hauled and the terms of contracts signed between the barge company and shippers. The distance is in nautical miles.



Table 8. Monthly Brazilian soybean export truck transportation cost index

| | | • | J | 1 | • | | |
|--------|-----------------------------------|--|-----------------------------------|--------|--------------------------------------|--|-----------------------------------|
| Month | Freight price (US\$/mt/100 miles) | Index variation (%) (Base: prior month) | Index value (Base: Jan-05=100) | Month | Freight price (US\$/mt/100 miles) | Index variation (%) (Base: prior month) | Index value (Base: Jan-05=100) |
| Jan-14 | 8.86 | -0.6 | 152.73 | Jan-18 | 7.59 | 5.0 | 130.90 |
| Feb-14 | 10.34 | 16.7 | 178.24 | Feb-18 | 8.65 | 13.9 | 149.04 |
| Mar-14 | 11.61 | 12.3 | 200.13 | Mar-18 | 10.59 | 22.5 | 182.61 |
| Apr-14 | 11.35 | -2.2 | 195.65 | Apr-18 | 9.78 | -7.7 | 168.59 |
| May-14 | 10.90 | -4.0 | 187.89 | May-18 | 8.96 | -8.4 | 154.45 |
| Jun-14 | 10.34 | -5.1 | 178.24 | Jun-18 | 8.89 | -0.8 | 153.24 |
| Jul-14 | 10.16 | -1.7 | 175.21 | Jul-18 | 8.97 | 0.9 | 154.58 |
| Aug-14 | 10.10 | -0.6 | 174.08 | Aug-18 | 8.24 | -8.1 | 142.00 |
| Sep-14 | 9.66 | -4.3 | 166.54 | Sep-18 | 7.24 | -12.1 | 124.78 |
| Oct-14 | 8.77 | -9.3 | 151.13 | Oct-18 | 7.69 | 6.2 | 132.55 |
| Nov-14 | 8.36 | -4.6 | 144.16 | Nov-18 | 7.51 | -2.3 | 129.44 |
| Dec-14 | 7.96 | -4.9 | 137.15 | Dec-18 | 7.19 | -4.3 | 123.87 |
| Jan-15 | 8.01 | 0.7 | 138.15 | Jan-19 | 7.72 | 7.5 | 133.13 |
| Feb-15 | 8.02 | 0.1 | 138.29 | Feb-19 | 8.19 | 6.0 | 141.15 |
| Mar-15 | 8.32 | 3.7 | 143.44 | Mar-19 | 7.34 | -10.3 | 126.61 |
| Apr-15 | 9.00 | 8.2 | 155.13 | Apr-19 | 7.16 | -2.6 | 123.35 |
| May-15 | 8.39 | -6.8 | 144.58 | May-19 | 6.73 | -5.9 | 116.02 |
| Jun-15 | 8.01 | -4.5 | 138.12 | Jun-19 | 6.94 | 3.1 | 119.56 |
| Jul-15 | 7.56 | -5.7 | 130.25 | Jul-19 | 8.33 | 20.1 | 143.60 |
| Aug-15 | 7.38 | -2.4 | 127.15 | Aug-19 | 7.85 | -5.8 | 135.23 |
| Sep-15 | 6.60 | -10.5 | 113.78 | Sep-19 | 7.09 | -9.7 | 122.17 |
| Oct-15 | 6.70 | 1.5 | 115.43 | Oct-19 | 6.57 | -7.4 | 113.19 |
| Nov-15 | 7.08 | 5.8 | 122.08 | Nov-19 | 6.41 | -2.3 | 110.54 |
| Dec-15 | 6.76 | -4.5 | 116.56 | Dec-19 | 5.93 | -7.5 | 102.21 |
| Jan-16 | 6.42 | -5.1 | 110.63 | Jan-20 | 6.03 | 1.7 | 103.90 |
| Feb-16 | 6.73 | 4.8 | 115.98 | Feb-20 | 6.76 | 12.2 | 116.52 |
| Mar-16 | 7.79 | 15.8 | 134.33 | Mar-20 | 6.20 | -8.2 | 106.95 |
| Apr-16 | 8.30 | 6.5 | 143.05 | Apr-20 | 5.86 | -5.5 | 101.09 |
| May-16 | 7.28 | -12.3 | 125.43 | May-20 | 5.26 | -10.4 | 90.58 |
| Jun-16 | 7.16 | -1.5 | 123.51 | Jun-20 | 5.45 | 3.7 | 93.95 |
| Jul-16 | 7.46 | 4.2 | 128.64 | Jul-20 | 5.44 | -0.2 | 93.74 |
| Aug-16 | 7.33 | -1.7 | 126.41 | Aug-20 | 5.41 | -0.4 | 93.34 |
| Sep-16 | 6.35 | -13.3 | 109.53 | Sep-20 | 5.58 | 3.0 | 96.14 |
| Oct-16 | 5.88 | -7.5 | 101.35 | Oct-20 | 4.97 | -10.8 | 85.71 |
| Nov-16 | 5.00 | -14.9 | 86.21 | Nov-20 | 4.58 | -7.9 | 78.95 |
| Dec-16 | 5.47 | 9.4 | 94.32 | Dec-20 | 4.32 | -5.8 | 74.39 |
| Jan-17 | 7.32 | 33.8 | 126.20 | Jan-21 | 4.26 | -1.3 | 73.39 |
| Feb-17 | 9.85 | 34.6 | 169.85 | Feb-21 | 5.60 | 31.5 | 96.50 |
| Mar-17 | 10.38 | 5.3 | 178.90 | Mar-21 | 6.93 | 23.8 | 119.49 |
| Apr-17 | 9.52 | -8.3 | 164.05 | | | | |
| May-17 | 8.75 | -8.0 | 150.90 | | | | |
| Jun 17 | 0.10 | 6.5 | 141.04 | | | | |

Jun-17

Jul-17

Aug-17

Sep-17

Oct-17

Nov-17

Dec-17

8.18

8.74

9.85

8.97

8.64

8.36

7.23

-6.5

6.8

12.7

-9.0

-3.6

-3.2

-13.5

141.04

150.66

169.76

154.55

148.93

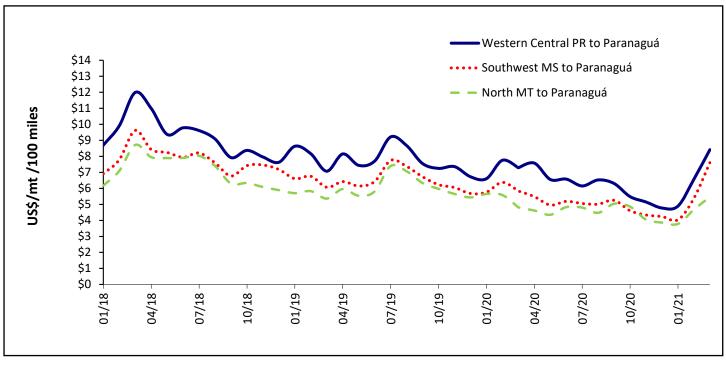
144.11

124.63

^{*}Weighted average.



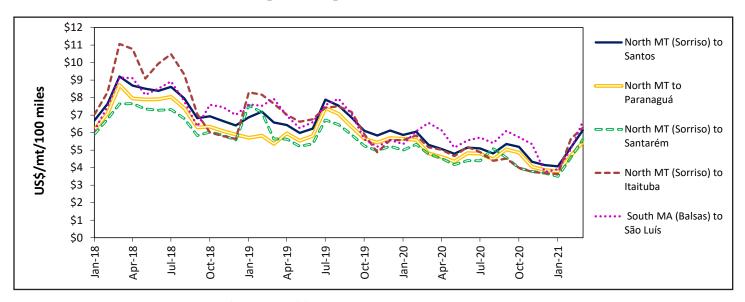
Figure 3. Truck rates for selected southern Brazilian soybean export transportation routes, 2018-21



Note: mt = metric ton. PR = Paraná, MT= Mato Grosso, and MS = Mato Grosso do Sul.

Source: University of São Paulo, Escola Superior de Agricultura "Luiz de Queiroz," Brazil (ESALQ/ USP) and USDA, Agricultural Marketing Service.

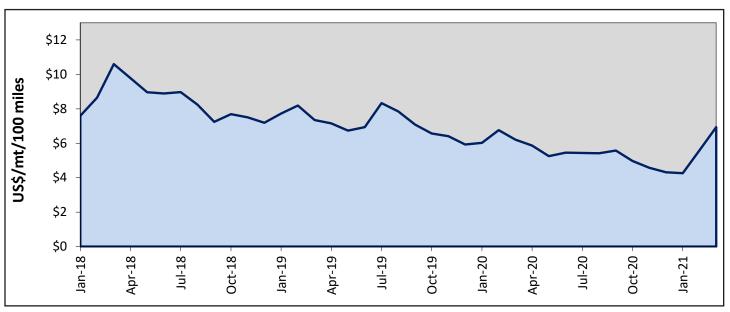
Figure 4. Truck rates for selected north, south, and northeastern Brazilian soybean export transportation routes, 2018-21



Note: mt = metric ton. MT= Mato Grosso and MA = Maranhão.



Figure 5. Brazilian soybean export truck transportation weighted average prices, 2018-21



Note: mt = metric ton.



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

| 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 | 27.00 |
| Paranaguá | Germany (Hamburg) | 22.00 | 25.00 | 27.00 | 28.00 |
| Rio Grande | Germany (Hamburg) | 22.00 | 25.00 | 27.00 | 28.00 |
| Santarém | Germany (Hamburg) | 21.00 | 23.60 | 25.00 | 26.00 |
| São Luís | Germany (Hamburg) | 17.60 | 20.00 | 21.20 | 22.00 |
| Barcarena | Germany (Hamburg) | 18.00 | 20.60 | 21.80 | 22.70 |
| Santos | China (Shanghai) | 18.50 | 29.00 | 30.00 | 30.00 |
| Paranagua | China (Shanghai) | 20.50 | 30.50 | 31.00 | 31.50 |
| Rio Grande | China (Shanghai) | 18.00 | 29.50 | 31.00 | 30.70 |
| Santarém | China (Shanghai) | 24.00 | 33.50 | 31.00 | 34.50 |
| São Luís | China (Shanghai) | 23.50 | 30.25 | 31.00 | 33.50 |
| Barcarena | China (Shanghai) | 24.00 | 33.50 | 31.00 | 34.50 |
| Port | Destination | 1st qtr. 2018 | 2nd qtr. 2018 | 3rd qtr. 2018 | 4th qtr. 2018 |
| Santos | Germany (Hamburg) | 27.00 | 25.00 | 24.00 | 25.00 |
| Paranaguá | Germany (Hamburg) | 28.00 | 26.00 | 25.00 | 26.00 |
| Rio Grande | Germany (Hamburg) | 28.00 | 26.00 | 25.00 | 26.00 |
| Santarém | Germany (Hamburg) | 25.00 | 22.90 | 22.50 | 23.00 |
| São Luís | Germany (Hamburg) | 21.00 | 19.10 | 18.50 | 19.00 |
| Barcarena | Germany (Hamburg) | 23.00 | 20.90 | 20.20 | 20.00 |
| Santos | China (Shanghai) | 32.50 | 31.00 | 27.75 | 30.00 |
| Paranagua | China (Shanghai) | 32.00 | 32.00 | 28.75 | 31.00 |
| Rio Grande | China (Shanghai) | 33.00 | 31.50 | 28.25 | 31.50 |
| Santarém | China (Shanghai) | 38.50 | 35.50 | 31.25 | 34.00 |
| São Luís | China (Shanghai) | 37.00 | 34.80 | 30.75 | 33.00 |
| Barcarena | China (Shanghai) | 37.50 | 33.80 | 32.25 | 35.00 |

^{*}The rates correspond to the average actual values negotiated between shippers and carriers and qtr. = weighted according to the magnitude of the shipped volume.

Note: qtr. = quarter.



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

| Port | Destination | 1st qtr. 2019 | 2nd qtr. 2019 | 3rd qtr. 2019 | 4th qtr. 2019 |
|------------|-------------------|---------------|---------------|---------------|---------------|
| Santos | Germany (Hamburg) | 23.00 | 21.50 | 27.00 | 31.00 |
| Paranaguá | Germany (Hamburg) | 23.00 | 21.25 | 27.00 | 30.75 |
| Rio Grande | Germany (Hamburg) | 23.00 | 21.25 | 27.00 | 31.25 |
| Santarém | Germany (Hamburg) | 21.00 | 20.25 | 25.92 | 26.50 |
| São Luís | Germany (Hamburg) | 18.00 | 17.10 | 22.77 | 23.50 |
| Barcarena | Germany (Hamburg) | 19.00 | 17.85 | 23.52 | 24.25 |
| Santos | China (Shanghai) | 32.25 | 30.92 | 33.25 | 38.17 |
| Paranagua | China (Shanghai) | 33.75 | 31.42 | 34.75 | 39.50 |
| Rio Grande | China (Shanghai) | 31.58 | 30.25 | 34.25 | 39.67 |
| Santarém | China (Shanghai) | 32.25 | 30.58 | 38.25 | 39.17 |
| São Luís | China (Shanghai) | 31.00 | 30.58 | 38.25 | 39.42 |
| Barcarena | China (Shanghai) | 32.25 | 29.92 | 38.25 | 39.42 |
| Port | Destination | 1st qtr. 2020 | 2nd qtr. 2020 | 3rd qtr. 2020 | 4th qtr. 2020 |
| Santos | Germany (Hamburg) | 29.25 | 20.50 | 24.00 | 25.25 |
| Paranaguá | Germany (Hamburg) | 30.00 | 21.50 | 25.00 | 25.35 |
| Rio Grande | Germany (Hamburg) | 29.50 | 20.75 | 24.50 | 25.75 |
| Santarém | Germany (Hamburg) | 25.00 | 16.00 | 20.75 | 22.00 |
| São Luís | Germany (Hamburg) | 22.25 | 17.50 | 25.00 | 26.30 |
| Barcarena | Germany (Hamburg) | 24.00 | 15.00 | 20.50 | 21.75 |
| Santos | China (Shanghai) | 35.50 | 27.08 | 31.33 | 31.67 |
| Paranagua | China (Shanghai) | 37.25 | 28.83 | 33.08 | 33.42 |
| Rio Grande | China (Shanghai) | 37.00 | 28.58 | 32.83 | 33.17 |
| Santarém | China (Shanghai) | 36.50 | 28.08 | 34.83 | 35.21 |
| São Luís | China (Shanghai) | 36.75 | 28.33 | 35.33 | 35.67 |
| Barcarena | China (Shanghai) | 38.50 | 28.33 | 36.33 | 36.67 |
| Port | Destination | 1st qtr. 2021 | 2nd qtr. 2021 | 3rd qtr. 2021 | 4th qtr. 2021 |
| Santos | Germany (Hamburg) | 31.25 | | | |
| Paranaguá | Germany (Hamburg) | 31.00 | | | |
| Rio Grande | Germany (Hamburg) | 32.00 | | | |
| Santarém | Germany (Hamburg) | 28.65 | | | |
| São Luís | Germany (Hamburg) | 33.25 | | | |
| Barcarena | Germany (Hamburg) | 28.10 | | | |
| Santos | China (Shanghai) | 37.00 | | | |
| Paranagua | China (Shanghai) | 38.75 | | | |
| Rio Grande | China (Shanghai) | 37.25 | | | |
| Santarém | China (Shanghai) | 50.54 | | | |
| São Luís | China (Shanghai) | 41.00 | | | |
| Barcarena | China (Shanghai) | 42.00 | | | |

^{*}The rates correspond to the average actual values negotiated between shippers and carriers and qtr. = weighted according to the magnitude of the shipped volume.

Note: qtr. = quarter.



Contact Information:

Delmy L. Salin Senior Economist, Project Manager delmy.salin@usda.gov 202.720.0833 Jessica Ladd
Supervisory Visual Information Specialist
jessica.ladd@usda.gov
202.720.6494

Data Sets (XLS files):

- Figure 3. Truck rates for selected southern Brazilian soybean export transportation routes, 2018-21
- <u>Figure 4. Truck rates for selected north, south, and northeastern Brazilian soybean export transportation routes, 2018-21</u>
- Figure 5. Brazilian soybean export truck transportation weighted average prices, 2018-21
- Table 1. Quarterly costs of transporting Brazilian soybeans from the southern ports to Shanghai, China
- <u>Table 1a. Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports to Shanghai, China</u>
- <u>Table 2. Quarterly costs of transporting Brazilian soybeans from the southern ports to Hamburg, Germany</u>
- <u>Table 2a. Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports</u> to Hamburg, Germany
- Table 3. Quarterly costs of transporting Brazilian soybeans from the southern ports to Shanghai, China
- <u>Table 4. Quarterly costs of transporting Brazilian soybeans from the southern ports to Hamburg,</u>
 <u>Germany</u>
- <u>Table 5. Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports</u> to Shanghai, China
- <u>Table 6. Quarterly costs of transporting Brazilian soybeans from the northern and northeastern ports</u> to Hamburg, Germany
- Table 7. Quarterly truck rates for selected Brazilian soybean export transportation routes, 2021
- Table 8. Monthly Brazilian soybean export truck transportation cost index
- <u>Table 9. Quarterly ocean freight rates for shipping soybeans from selected Brazilian ports to Germany</u> and China (US\$/metric ton)

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