



Agricultural Refrigerated Truck Quarterly

a quarterly publication of the Agricultural Marketing Service

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NATIONAL SUMMARY

Quarterly Overview

Fruit and Vegetable Shipments

USDA reported first quarter 2023 U.S. truck shipments of fresh produce were 9.59 million tons—8 percent higher than the previous quarter and 6 percent higher than first quarter 2022.

Also, in first quarter 2023, shipments from Mexico were 3.68 million tons, which was higher than from any other reported origin. Shipments from Mexico accounted for 38 percent of the total reported shipments of fresh fruit and vegetables. Shipments from the next four top regions by volume were as follows: California, 1.80 million tons (19 percent of the total); Pacific Northwest (PNW), 1.49 million tons (16 percent of the total); Arizona, 708,000 tons (7 percent of the total); and finally, Florida, 651,000 tons (7 percent of the total).

These top five commodities accounted for 37 percent of reported truck movements in first quarter 2023:

- ▶ Potatoes (12 percent)
- ▶ Apples (7 percent)
- ▶ Oranges (7 percent)
- ▶ Onions, dry (6 percent)
- ▶ Avocados (4 percent)

Truck Rates

The table below provides a snapshot of quarterly truck rates for U.S. produce shipments over four mileage categories—1-500; 501-1,500; 1,501-2,500; and 2,501+ miles. Please note the U.S. average truck rates provided below were calculated using weighted regional rates and volumes.

Average U.S. Truck Rates for Selected Routes Between 501 and 1,500 Miles (\$/Mile)

	0-500 miles	501-1,500 miles	1,501-2,500 miles	2,501+ miles
Q1 2022	6.86	3.61	3.19	1.96
Q2 2022	8.09	3.65	2.87	1.64
Q3 2022	8.40	3.23	2.86	1.50
Q4 2022	6.82	3.03	2.81	1.39
Q1 2023	6.50	2.84	2.47	1.60
Q1 Change from Previous Quarter	-5%	-6%	-12%	15%
Q1 Change from Same Quarter Last Year	-5%	-21%	-23%	-18%

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Note: Table values may not conform exactly due to rounding.

Note: The rates for 8 long-haul fruit and vegetable truck corridors are included in the national rate, weighted by commodity and origin volume.

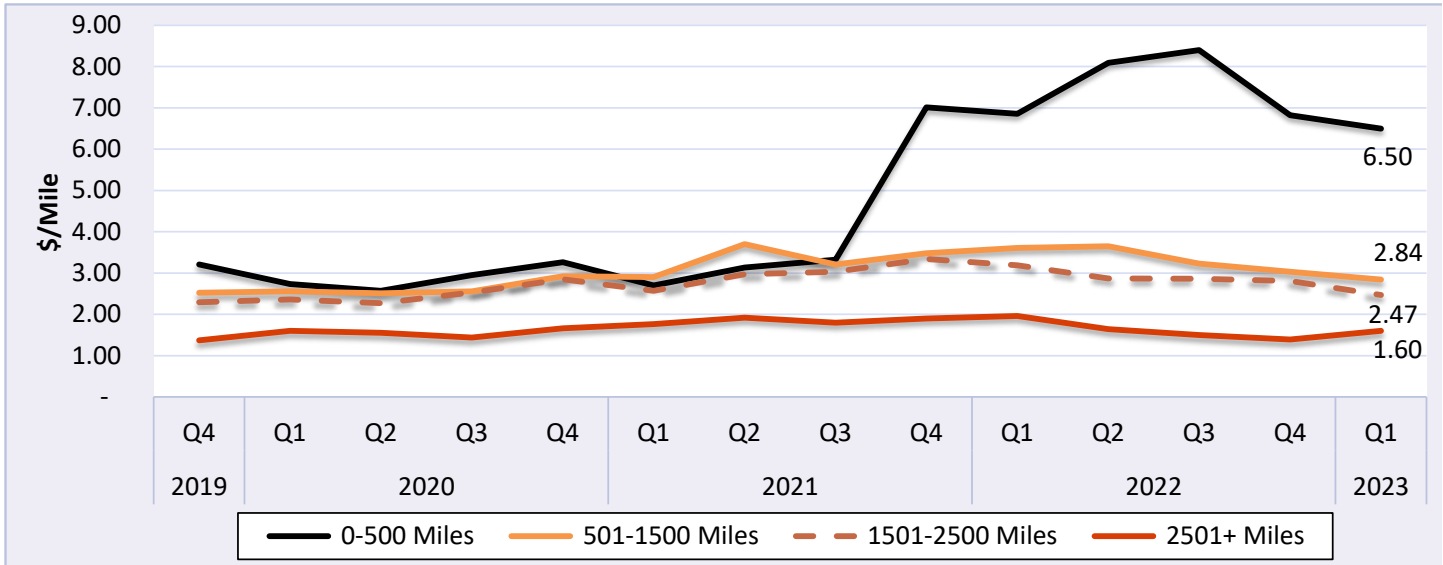
Diesel Fuel

During first quarter 2023, the U.S. diesel fuel price averaged \$4.40 per gallon—down 13 percent from the previous quarter, but up 3 percent from the same quarter in 2022.



U.S. Truck Rates

Figure 1: Average Truck Rates for Selected Routes (\$/Mile)



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Note: The rates for 8 long-haul fruit and vegetable truck corridors are included in the national rates, weighted by commodity and origin volume.

Table 1: Average U.S. Truck Rates for Selected Routes Between 501 and 1,500 Miles (\$/Mile)

Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2023	2.84			
2022	3.61	3.65	3.23	3.03
2021	2.90	3.70	3.21	3.48
2020	2.56	2.51	2.56	2.92
2019	2.59	2.60	2.47	2.52
2018	2.82	2.99	2.74	2.84
2017	1.86	2.41	2.33	2.56
2016	2.22	2.37	2.49	2.06
2015	2.47	2.63	2.59	2.36
2014	2.32	2.67	2.64	2.49
2013	2.24	2.60	2.62	2.27
2012	2.10	2.54	2.45	2.29
2011	2.02	2.60	2.77	2.26

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Note: The rates for 8 long-haul fruit and vegetable truck corridors are included in the national rate, weighted by commodity and origin volume.

Note: Table values may not conform exactly due to rounding.



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Table 2: Quarterly Rates for Key Origins by Month; 501-1,500 miles (\$/Mile)

U.S. Origin	1st Quarter, 2023			4th Quarter, 2022		
	January	February	March	October	November	December
Arizona	3.02	2.90	2.75	n/a	3.5	3.21
California	3.19	3.05	2.98	3.92	3.72	3.54
Florida	2.42	2.51	2.18	1.78	2.04	2.32
Great Lakes	4.27	4.25	4.14	4.34	4.17	4.17
Mexico-Arizona	2.94	2.97	2.67	3.16	2.92	2.69
Mexico-Texas	3.38	2.89	2.91	2.90	2.93	3.44
New York	3.49	3.48	3.44	3.49	3.49	3.49
Other	3.06	2.99	2.99	3.51	3.16	3.09
PNW	3.36	3.07	3.05	2.47	2.81	3.43
Southeast	5.47	5.48	5.37	7.43	5.40	5.46

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Note: "n/a" indicates rates not available.

Truck Rates for Selected Routes

Table 3: Origin-Destination Truck Rates for Selected Routes, 1st Quarter 2023 (\$/Mile)

U.S. Origin	Atlanta	Baltimore	Boston	Chicago	Dallas	Los Angeles	Miami	New York	Philadelphia	Seattle
Arizona	2.60	2.67	2.55	2.48	3.20	9.03	2.66	2.57	n/a	2.60
California	2.63	2.59	2.49	2.43	3.09	16.50	2.59	2.56	2.57	2.73
Florida	2.72	2.46	2.48	1.73	n/a	2.13	3.96	2.64	2.33	n/a
Great Lakes	4.34	4.34	4.15	5.23	3.87	n/a	3.81	4.72	3.69	n/a
Mexico-Arizona	2.82	2.67	2.65	2.52	2.95	2.78	2.66	2.62	2.80	n/a
Mexico-Texas	3.20	3.05	2.93	3.01	3.66	2.67	2.95	3.05	3.07	3.75
New York	3.85	5.93	15.93	3.04	2.78	n/a	3.37	18.01	n/a	n/a
Other	3.14	3.26	2.84	2.84	3.18	n/a	n/a	n/a	3.22	n/a
PNW	2.96	3.04	2.87	2.95	2.97	3.18	2.79	3.11	3.03	8.27
Southeast	6.25	6.45	5.86	5.88	n/a	n/a	4.74	5.27	5.58	n/a

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Note: "n/a" indicates rates not available.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

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Table 4: Origin-Destination Truck Rates for Selected Routes, 1st Quarter 2023 (\$/Truck)

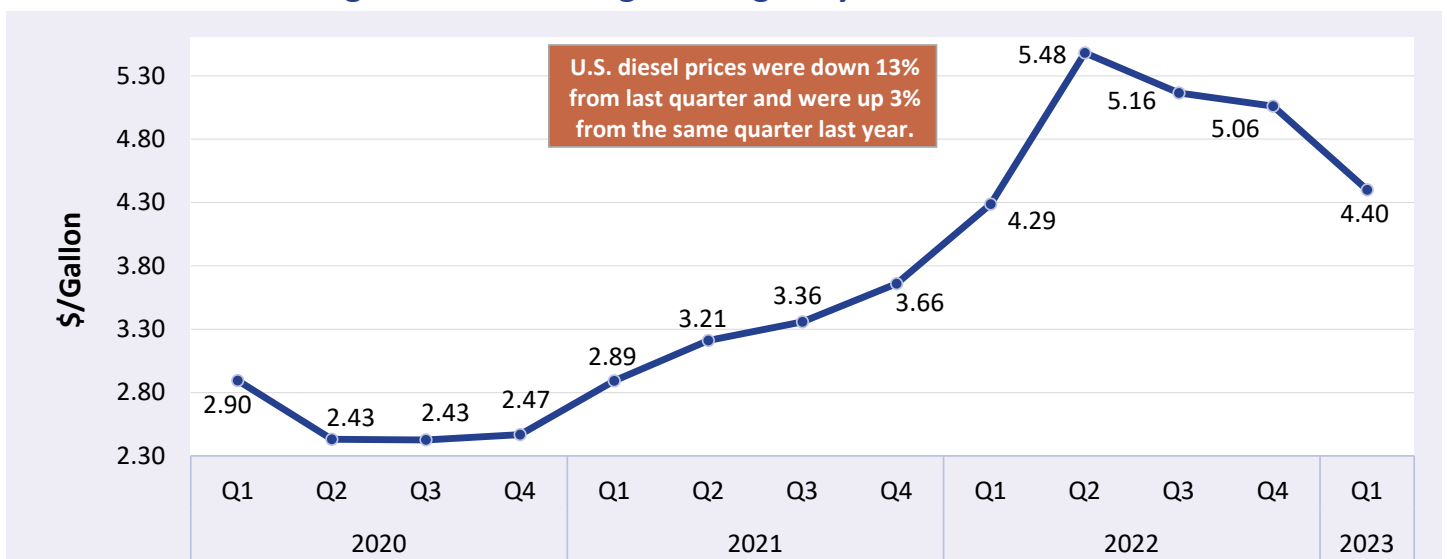
U.S. Origin	Atlanta	Baltimore	Boston	Chicago	Dallas	Los Angeles	Miami	New York	Philadelphia	Seattle
Arizona	5,469	6,935	7,408	5,035	4,162	1,354	6,912	6,938	n/a	3,381
California	5,756	6,903	7,411	5,020	4,358	1,396	6,963	7,095	7,095	3,554
Florida	1,322	2,435	3,442	2,129	n/a	5,350	950	3,053	2,485	n/a
Great Lakes	4,922	4,078	4,991	2,133	4,220	n/a	6,176	4,861	5,160	n/a
Mexico-Arizona	5,085	6,265	7,150	4,542	2,893	1,558	6,058	6,562	6,712	n/a
Mexico-Texas	3,675	5,454	6,442	4,304	1,829	4,267	4,508	6,108	5,833	9,000
New York	3,850	1,958	2,708	2,550	4,650	n/a	4,892	2,702	n/a	n/a
Other	3,088	5,838	5,025	2,100	2,325	n/a	n/a	n/a	5,925	n/a
PNW	6,832	7,409	7,834	5,232	5,367	3,084	8,261	7,898	7,602	1,158
Southeast	2,500	2,127	4,337	5,000	n/a	n/a	3,650	2,742	2,400	n/a

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Note: "n/a" indicates rates not available.

U.S. Diesel Fuel Prices

The diesel fuel price provides a proxy for trends in U.S. truck rates. Diesel fuel is a significant component underlying truck rates.

Figure 2: U.S. Average On-Highway Diesel Fuel Prices



Source: AMS Transportation Services Division analysis of Energy Information Administration/U.S. Department of Energy data.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

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Table 5: Average Diesel Fuel Prices (All Types)

Region	1st Quarter 2023 Price \$/Gallon	Change From Last Quarter	Change From Last Year
East Coast	4.58	-12%	6%
California	5.38	-10%	1%
New England	4.93	-12%	15%
Central Atlantic	4.89	-13%	9%
Lower Atlantic	4.43	-11%	4%
Gulf Coast	4.12	-12%	1%
Midwest	4.24	-16%	3%
Rocky Mountain	4.58	-12%	10%
West Coast Except California	4.64	-12%	2%
U.S.	4.40	-13%	3%

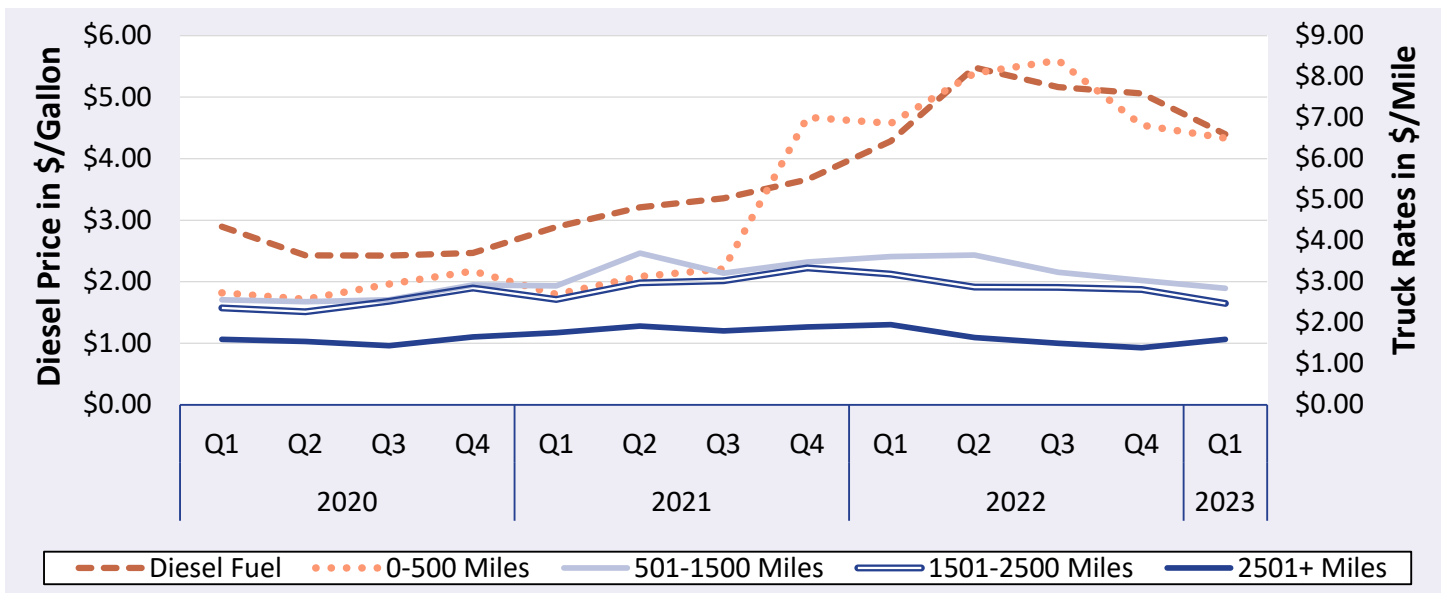
Source: AMS Transportation Services Division analysis of Energy Information Administration/U.S. Department of Energy data.

Note: Table values may not conform exactly due to rounding.

Relationship Between Diesel Fuel and Truck Rates

The diesel fuel price provides a proxy for trends in U.S. truck rates. Diesel fuel is a significant expense for fruit and vegetable movements.

Figure 3: U.S. Average On-Highway Diesel Fuel Prices and Truck Rates



Sources: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data and Energy Information Administration/U.S. Department of Energy data.

Note: The rates for 8 long-haul fruit and vegetable truck corridors are included in the national rates, weighted by origin volume.



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Table 6: Average Diesel Fuel Prices and Truck Rates

Year	Quarter	Diesel Fuel (\$/gallon)	Truck Rates (\$/mile) 501-1500 miles	% Change From			
				Last Quarter		Last Year	
				Diesel	Truck	Diesel	Truck
2020	Q1	2.90	2.56	-5%	2%	-4%	-1%
	Q2	2.43	2.51	-16%	-2%	-22%	-3%
	Q3	2.43	2.56	> -1%	2%	-20%	4%
	Q4	2.47	2.92	2%	14%	-19%	16%
2021	Q1	2.89	2.90	17%	-1%	> -1%	14%
	Q2	3.21	3.70	11%	27%	32%	47%
	Q3	3.36	3.21	5%	-13%	38%	25%
	Q4	3.66	3.48	9%	8%	48%	19%
2022	Q1	4.29	3.61	17%	4%	48%	24%
	Q2	5.48	3.65	28%	1%	71%	-1%
	Q3	5.16	3.23	-6%	-12%	54%	1%
	Q4	5.06	3.03	-2%	-6%	38%	-13%
2023	Q1	4.40	2.84	-13%	-6%	3%	-21%

Sources: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data and Energy Information Administration/U.S. Department of Energy data.

Note: Table values may not conform exactly due to rounding.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Quarterly Truck Availability

Table 7: U.S. Fresh Fruit and Vegetable Truck Availability

Truck availability legend														
1=Surplus	2=Slight surplus	3=Adequate	4=Slight shortage					5=Shortage						
California, Central, And Western Arizona	Commodities	1/3	1/10	1/17	1/24	1/31	2/7	2/14	2/21	2/28	3/7	3/14	3/21	3/28
Imperial, Coachella Valleys Ca, Central And Western Az, Mexico Crossings Through Calexico And San Luis	Anise, Beets, Bok Choy, Broccoli, Brussels Sprouts, Fresh Cut Cabbage, Cauliflower, Chinese Cabbage, Cilantro, Endive, Escarole, Kale Greens, Leeks, Green Leaf Lettuce, Iceberg Lettuce, Red Leaf Lettuce, Romaine Lettuce, Green Onions, Parsley, Radishes, Spinach	3	3	3	3	3	2	3	3	2	2	2	3	2
Kern District California	Carrots, Grapes	3	3	3	3	3	2	3	3	2	2	2	3	2
Oxnard District California	Artichokes, Brussels Sprouts, Fresh Cut Cabbage, Celery, Cilantro, Kale Greens, Parsley, Radishes, Spinach	3	3	3	3	3	2	3	3	2	2	2	3	2
Santa Maria California	Broccoli, Cabbage, Cauliflower, Celery	3	3	3	3	3	2	3	3	2	2	2	3	2
South District California	Grapefruit, Lemons, Oranges, Tangelos	3	3	3	2	3	3	3	3	3	3	3	3	3
Florida	Commodities	1/3	1/10	1/17	1/24	1/31	2/7	2/14	2/21	2/28	3/7	3/14	3/21	3/28
Central And South Florida	Round Green Beans, Cabbage, Sweet Corn, Cucumbers, Eggplant, Endive, Escarole, Bell Peppers, Other Peppers, Radishes, Squash, Strawberries, Tomatoes, Cherry Tomatoes, Grape Tomatoes, Plum Tomatoes, Watermelons	3	2	2	2	2	4	3	3	2	2	4	3	3
Florida	Potatoes									3	3	3	3	3
Great Lakes (MI & WI)	Commodities	1/3	1/10	1/17	1/24	1/31	2/7	2/14	2/21	2/28	3/7	3/14	3/21	3/28
Central Wisconsin	Dry Onions, Potatoes	3	3	3	3	3	3	3	3	3	3	3	3	3

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Note: Empty cells were not reported.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

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Table 7, continued: U.S. Fresh Fruit and Vegetable Truck Availability

Truck availability legend															
1=Surplus		2=Slight surplus			3=Adequate			4=Slight shortage			5=Shortage				
U.S.-Mexico border	Commodities	1/3	1/10	1/17	1/24	1/31	2/7	2/14	2/21	2/28	3/7	3/14	3/21	3/28	
Imperial, Coachella Valleys Ca, Central And Western Az, Mexico Crossings Through Calexico And San Luis	Anise, Beets, Bok Choy, Broccoli, Brussels Sprouts, Fresh Cut Cabbage, Cauliflower, Chinese Cabbage, Cilantro, Endive, Escarole, Kale Greens, Leeks, Green Leaf Lettuce, Iceberg Lettuce, Red Leaf Lettuce, Romaine Lettuce, Green Onions, Parsley, Radishes, Spinach	3	3	3	3	3	2	3	3	2	2	2	3	2	
	Nogales, Arizona	Cucumbers, Honeydews, Acorn Squash, Butternut Squash, Grey Squash, Kabocha Squash, Spaghetti Squash, Yellow Squash Straightneck, Zucchini Squash, Tomatoes, Grape Tomatoes, Plum Tomatoes, Watermelons, Cantaloupe	3	3	3	3	3	3	3	3	3	3	3	3	2
		South Texas	Asparagus, Broccoli, Carrots, Chayote, Cilantro, Cucumbers, Grapefruit, Limes, Mangos, Oranges, Papaya, Anaheim Peppers, Bell Peppers, Habanero Peppers, Jalapeno Peppers, Poblano Peppers, Serrano Peppers, Pineapples, Tomatillos, Tomatoes, Grape Tomatoes, Plum Tomatoes, Watermelons	3	3	3	3	3		1	1	1	1	1	1
Pacific Northwest (ID, OR, & WA)	Commodities	1/3	1/10	1/17	1/24	1/31	2/7	2/14	2/21	2/28	3/7	3/14	3/21	3/28	
Columbia Basin Washington	Dry Onions, Potatoes	3	3	3	3	3	3	3	3	3	3	3	3	3	
Idaho And Malheur County, Oregon	Dry Onions	3	3	3	3	3	3	3	3	3	3	3	3	3	
Upper Valley, Twin Falls-Burley District Idaho	Potatoes	3	3	3	3	3	3	3	3	3	3	3	3	3	
Yakima Valley And Wenatchee District, Washington	Apples, Pears	3	3	3	2	2	2	1	1	1	1	1	1	1	
Southeast (GA, SC, & NC)	Commodities	1/3	1/10	1/17	1/24	1/31	2/7	2/14	2/21	2/28	3/7	3/14	3/21	3/28	
Eastern North Carolina	Sweet Potatoes	3	4	4	3	3	4	4	4	4	4	4	4	4	

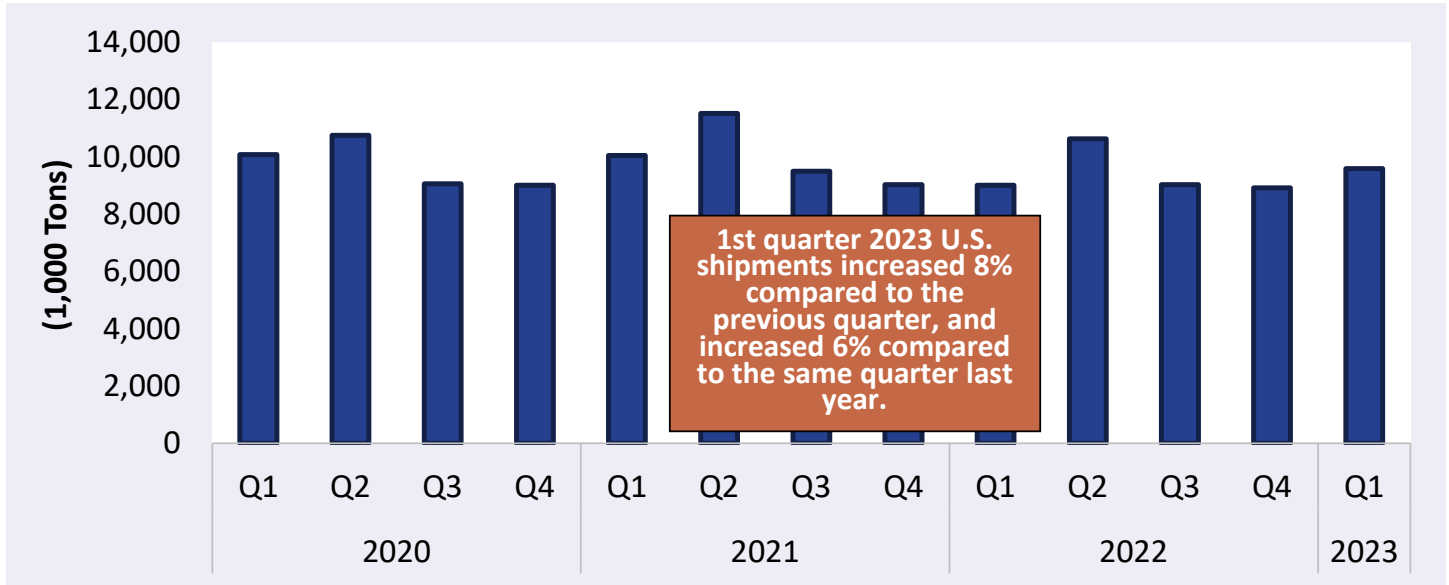
Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Note: Empty cells were not reported.



Reported U.S. Shipments

Figure 4: Reported U.S. Fruit and Vegetable Shipments (1,000 Tons)



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Table 8: Reported U.S. Fruit and Vegetable Shipments (1,000 Tons)

Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Annual
2023	9,594				9,594
2022	9,010	10,636	9,032	8,922	37,600
2021	10,051	11,520	9,498	9,034	40,103
2020	10,081	10,750	9,058	9,007	38,895
2019	9,381	10,246	8,687	8,714	37,028
2018	9,421	10,795	8,789	8,503	37,508
2017	8,072	9,642	8,479	8,267	34,459
2016	8,094	9,761	8,541	8,188	34,583
2015	8,118	9,630	8,324	7,771	33,842
2014	7,733	9,139	8,080	7,725	32,677
2013	7,451	8,972	7,762	7,527	31,712
2012	7,577	9,008	7,774	7,532	31,890
2011	7,007	8,981	7,887	7,988	31,863
2010	7,065	8,881	7,985	7,522	31,454
2009	7,158	8,728	7,990	7,270	31,147
2008	7,059	8,666	7,426	6,904	30,057
2007	6,959	8,585	7,475	7,099	30,118

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Note: Table values may not conform exactly due to rounding.



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Reported Shipments by Selected Commodities

Table 9: Reported Top 10 Commodity Shipments (1,000 Tons)

Commodity	1st Quarter 2023	Previous Quarter	Same Quarter Last Year	Current Quarter as % change from:	
				Previous Qtr	Same Qtr Last Year
Potatoes	1,133	1,172	1,087	-3%	4%
Apples	710	819	784	-13%	-9%
Oranges	709	424	198	67%	259%
Onions Dry	570	529	595	8%	-4%
Avocados	380	641	621	-41%	-39%
Tomatoes	370	492	524	-25%	-29%
Cucumbers	364	536	597	-32%	-39%
Tangerines	345	27	341	1202%	1%
Peppers, Bell Type	337	396	560	-15%	-40%
Lemons	315	275	368	15%	-14%

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Note: Table values may not conform exactly due to rounding.

Table 10: Reported Top 10 Regions (1,000 Tons)

Origin	1st Quarter 2023 Volume	% Change from Last Quarter	% Change From Same Quarter Last Year
Mexico	3,677	30%	9%
California	1,800	-11%	26%
PNW	1,493	-8%	-6%
Arizona	708	76%	3%
Florida	651	152%	-3%
Canada	344	-37%	29%
Colorado	225	-11%	2%
Great Lakes	196	-31%	1%
Texas	118	16%	-2%
New York	95	-27%	-6%

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Note: Table values may not conform exactly due to rounding.
 Note: Due to a lack of rate and availability data, Canada is excluded from the Regional Markets section of this report.



REGIONAL MARKETS

U.S.-Mexico Border

Volume

Total reported shipments of fruit and vegetables from Mexico in first quarter 2023 were 3.68 million tons—9 percent higher than first quarter 2022 (year to year). The summed weight of the top five commodities shipped from the U.S.-Mexico border increased 11 percent year to year. Four of the top five commodities saw year-to-year volume increases in the first quarter, including avocados (up 29 percent); tomatoes (up 23 percent); cucumbers (up 13 percent); and peppers, bell type (up 8 percent). Shipments of tomatoes, plum type decreased 14 percent.

Rates

The quarterly average truck rate for shipments between 501 miles and 1,500 miles from Arizona-Mexico border crossings was \$2.87 per mile—down 2 percent from fourth quarter 2022 to first quarter 2023 (quarter to quarter), and down 22 percent year to year. Rates for shipments between 501 miles and 1,500 miles from Texas-Mexico border crossings averaged \$3.10 per mile—up 1 percent quarter to quarter and down 18 percent year to year.

Truck Overview

Diesel fuel prices for border crossings from Arizona averaged \$4.64 per gallon—down 12 percent quarter to quarter and up 2 percent year to year. Diesel fuel prices for border crossings from Texas averaged \$4.12 per gallon—down 12 percent quarter to quarter and up 1 percent year to year. Mexico crossings through Calexico and San Luis reported adequate truck availability in January and February, and a slight surplus of trucks in March. Mexico crossings through Nogales, AZ, reported adequate truck availability throughout the quarter. Mexico crossings through South Texas reported adequate truck availability in January, and a surplus of trucks in February and March.

Table 11: Reported Top Five Commodities Shipped from Mexico (1,000 tons)

Commodity	1st Quarter 2023	Share of Mexico-Total Total	Previous Quarter	Same Quarter Last Year	Current Quarter as % change from:	
					Previous Qtr	Same Qtr Last Year
Avocados	379	10%	318	293	19%	29%
Cucumbers	313	9%	228	276	37%	13%
Peppers, Bell Type	270	7%	137	251	98%	8%
Tomatoes, Plum Type	256	7%	215	296	19%	-14%
Tomatoes	235	6%	177	191	33%	23%
Top 5 Total	1,453	40%	1,074	1,308	35%	11%
Mexico Total	3,677	100%	2,823	3,366	30%	9%

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Any "-" in the table indicates no reported shipments during the quarter or a percentage change with an at- or near-zero denominator.

Note: Table values may not conform exactly due to rounding.



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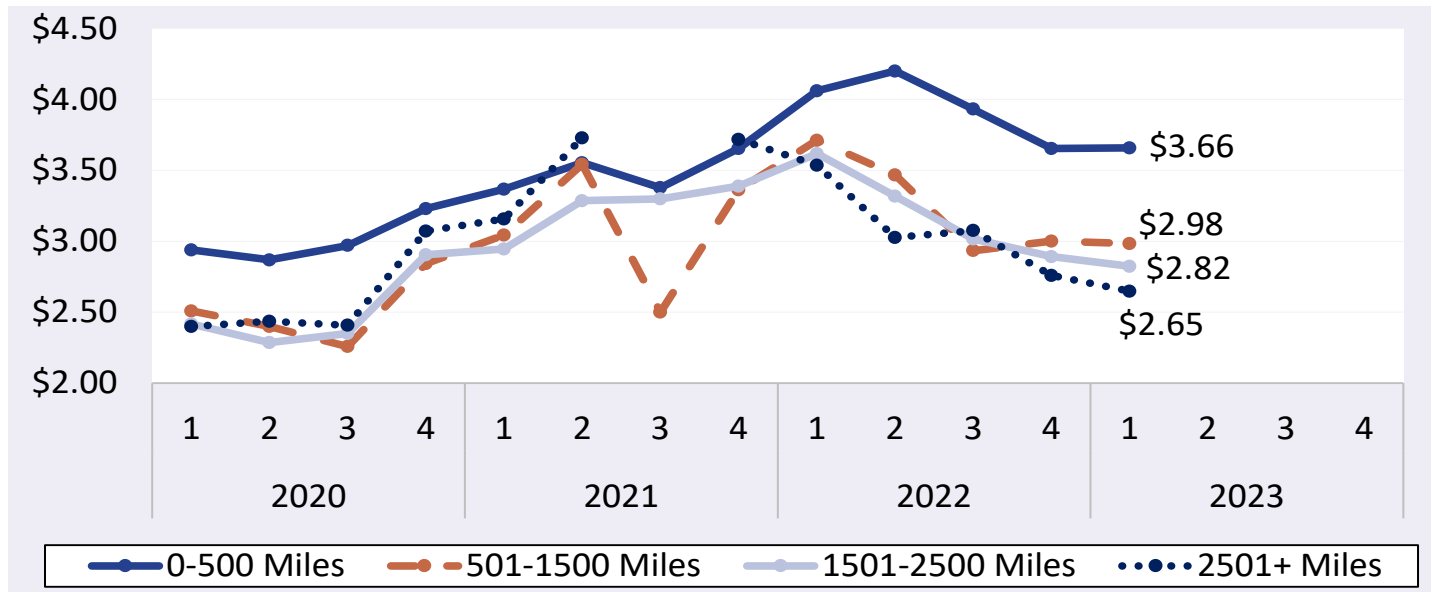
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Table 12: Top 5 Commodities Shipped to U.S. from Mexico by State of Entry (1,000 tons)

Texas		California		Arizona		New Mexico	
Commodity	1st Quarter 2023	Commodity	1st Quarter 2023	Commodity	1st Quarter 2023	Commodity	1st Quarter 2023
Avocados	368	Strawberries	46	Cucumbers	193	Peppers, Other	4
Tomatoes	137	Onions Green	45	Squash	158	Misc Tropical	< 1
Limes	130	Asparagus	45	Peppers, Bell Type	158	Onions Dry	< 1
Tomatoes, Plum Type	110	Misc Tropical	44	Tomatoes, Plum Type	123	Onions Green	< 1
Peppers, Bell Type	108	Peppers, Other	25	Tomatoes	95		
Mexico through TX Total	1,996	Mexico through CA Total	505	Mexico through AZ Total	1,172	Mexico through NM Total	4

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Any "-" in the table indicates no reported shipments during the quarter.
 Note: Table values may not conform exactly due to rounding.

Figure 5: Truck Rates from U.S.-Mexico Border (\$/Mile by Distance Traveled)



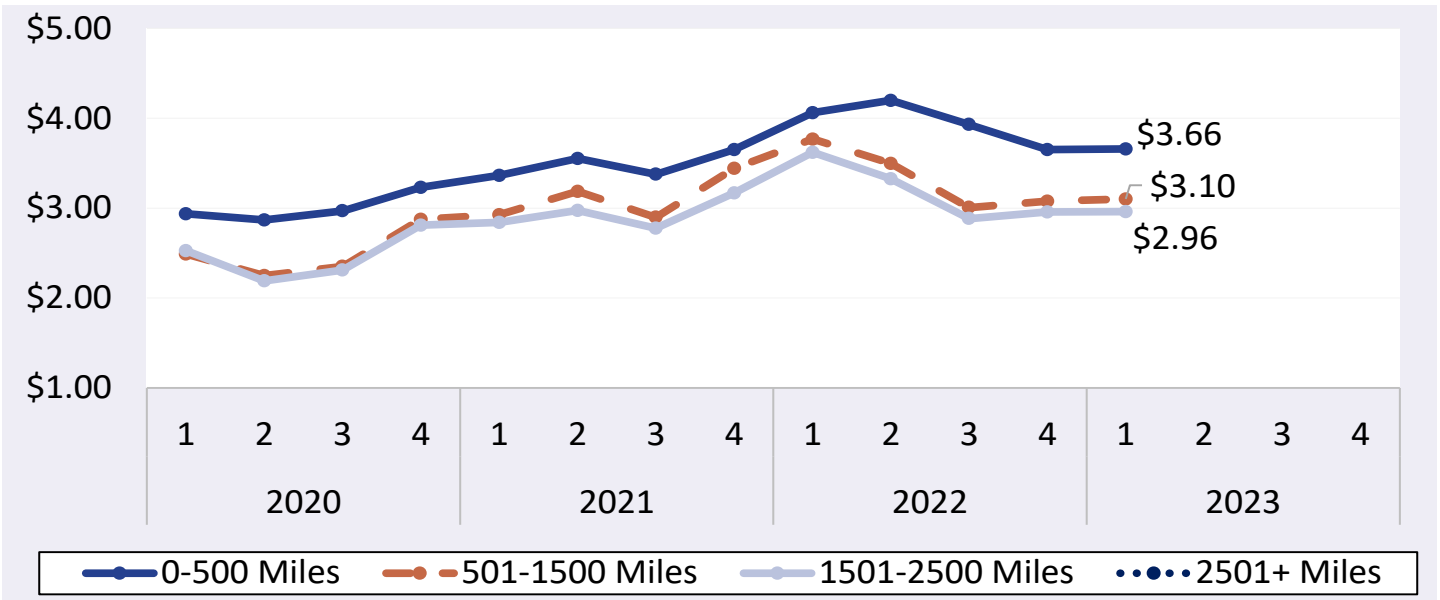
Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Any gaps in the chart lines are the result of quarters with no reported data for the region.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

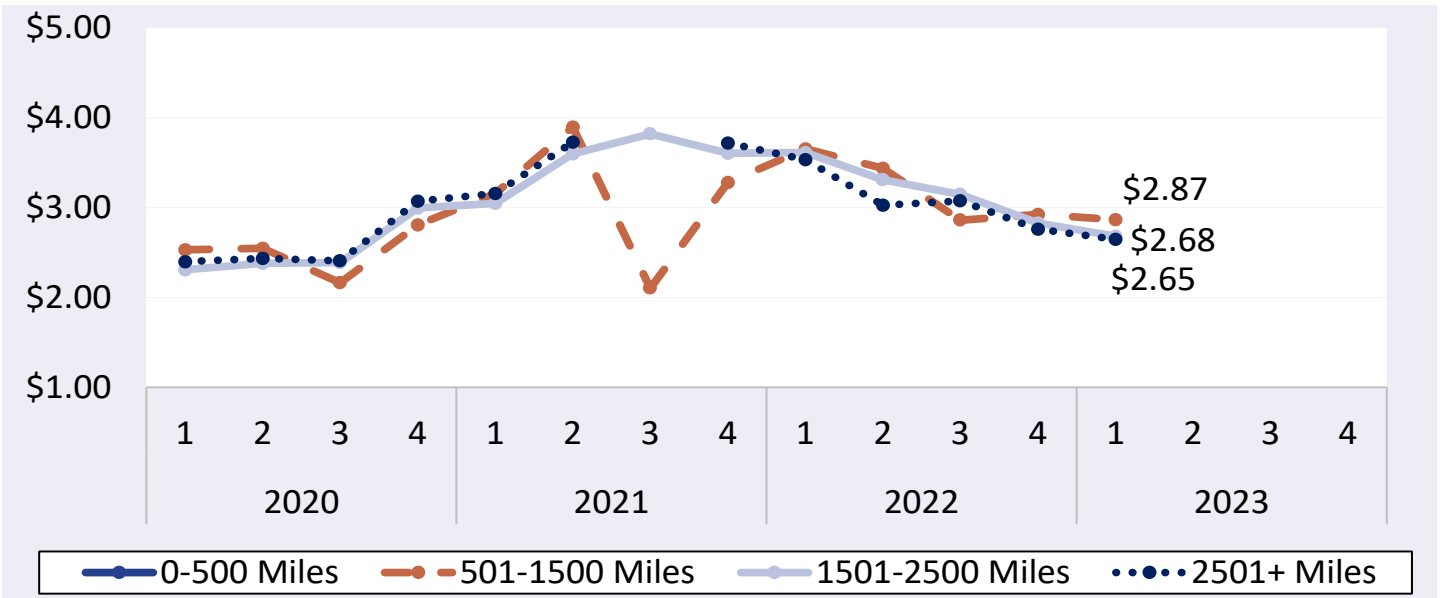
Quarter 1, 2023

Figure 6: Texas Truck Rates from U.S.-Mexico Border (\$/Mile by Distance Traveled)



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data. Any gaps in the chart lines are the result of quarters with no reported data for the region.

Figure 7: Arizona Truck Rates from U.S.-Mexico Border (\$/Mile by Distance Traveled)



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data. Any gaps in the chart lines are the result of quarters with no reported data for the region.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Table 13: Truck Overview from the U.S.-Mexico Border

Region/Reporting District	January	February	March	1st Quarter
Imperial, Coachella Valleys Ca, Central And Western Az, Mexico Crossings Through Calexico And San Luis	3	2.5	2.33	2.61
Mexico Crossings Through Nogales, Arizona	3.11	3	2.81	2.97
Mexico Crossings Through South Texas	3	1	1	1.67
Regional Average Availability	3.04	2.17	2.05	2.42
Diesel Fuel Price (\$/gallon), through Texas	4.28	4.13	3.96	4.12
Diesel Fuel Price (\$/gallon), through Arizona	4.75	4.64	4.52	4.64

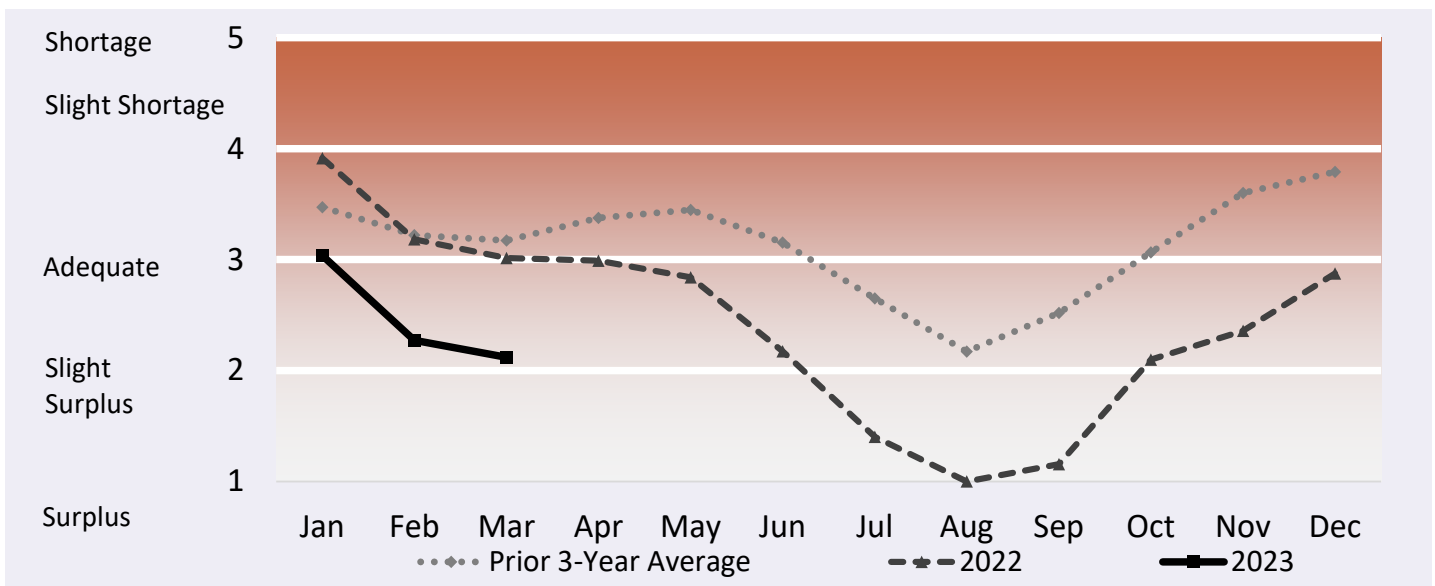
Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Any "-" in the table indicates no reported shipments during the quarter.

Note: Table values may not conform exactly due to rounding.

Note: AMS Specialty Crops Program defines regions by commodity, which may overlap in truck availability reporting.

Figure 8: Refrigerated Truck Availability Monthly Ratings from the U.S.-Mexico Border



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Any gaps in the chart lines are the result of quarters with no reported data for the region.



California

Volume

In first quarter 2023, USDA reported total shipments of fruit and vegetables from California were 1.80 million tons—up 26 percent from first quarter 2022. The summed weight of the top five commodities shipped from California increased 49 percent year to year. Two of the top five commodities saw year-to-year volume increases, including oranges (up 459 percent) and tangerines (up 3 percent). However, the apparent large increase in orange movements was likely due in part to underreporting in first quarter 2022. Shipments of lettuce, romaine, decreased 18 percent; shipments of lemons decreased 16 percent; and shipments of celery were flat.

Rates

In first quarter 2023, truck rates for shipments between 501 miles and 1,500 miles averaged \$3.08 per mile. This was down 17 percent quarter to quarter and down 37 percent year to year.

Truck Overview

Diesel fuel prices averaged \$5.38 per gallon—down 10 percent quarter to quarter and up 1 percent year to year. The Kern, Oxnard, and Santa Maria districts reported adequate truck availability in January and February, and slight surpluses of trucks in March. The South district reported adequate truck availability throughout the quarter.

Table 14: Reported Top Five Commodities Shipped from California (1,000 tons)

Commodity	1st Quarter 2023	Share of California Total	Previous Quarter	Same Quarter Last Year	Current Quarter as % change from:	
					Previous Qtr	Same Qtr Last Year
Oranges	646	36%	360	116	80%	459%
Tangerines	336	19%	20	326	1,547%	3%
Lemons	307	17%	215	364	43%	-16%
Celery	103	6%	181	103	-43%	> -1%
Lettuce, Romaine	52	3%	115	63	-54%	-18%
Top 5 Total	1,445	80%	890	973	62%	49%
California Total	1,800	100%	2,031	1,429	-11%	26%

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Any "-" in the table indicates no reported shipments during the quarter or a percentage change with an at- or near-zero denominator.

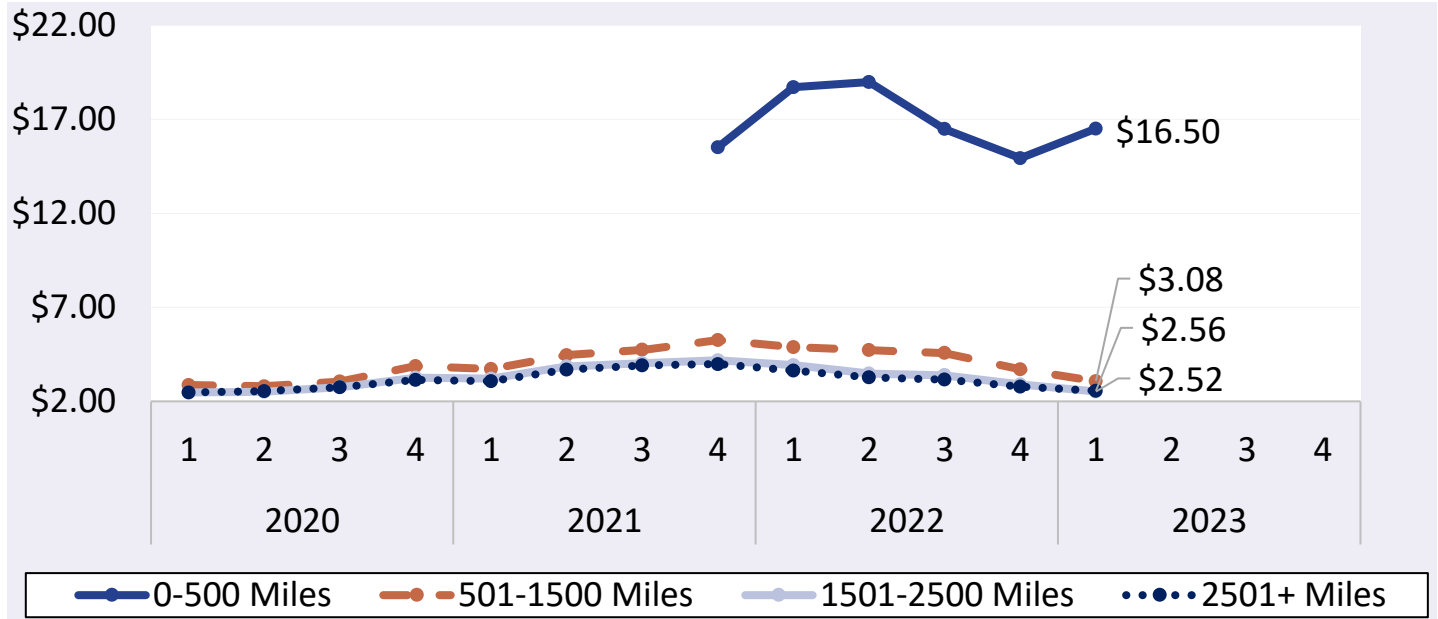
Note: Table values may not conform exactly due to rounding.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Figure 9: California Truck Rates (\$/Mile by Distance Travelled)



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
Any gaps in the chart lines are the result of quarters with no reported data for the region.

Table 15: California Truck Overview (Availability Rating: 1=Surplus to 5=Shortage)

Region/Reporting District	January	February	March	1st Quarter
Kern District California	3	2.5	2.3	2.6
Oxnard District California	3	2.5	2.29	2.60
Santa Maria California	3	2.5	2.28	2.59
South District California	2.82	3	3	2.94
Regional Average Availability	2.96	2.63	2.47	2.68
Diesel Fuel Price (\$/gallon)	5.47	5.42	5.26	5.38

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

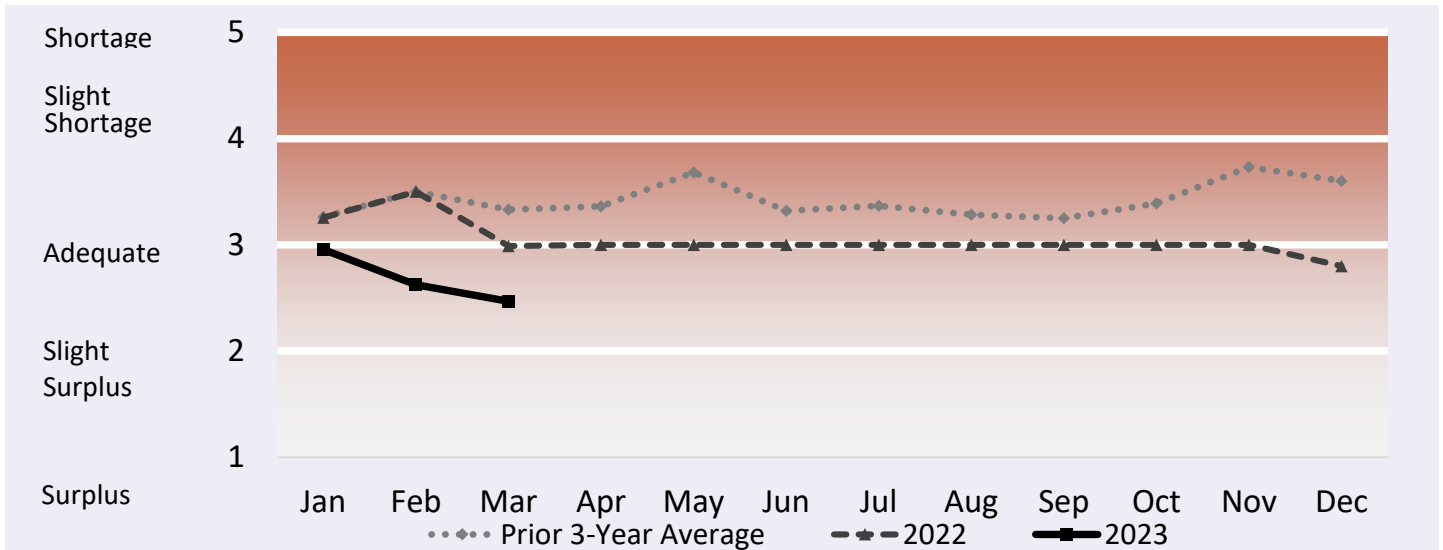
Any "-" in the table indicates no reported shipments during the quarter.

Note: Table values may not conform exactly due to rounding.

Note: AMS Specialty Crops Program defines regions by commodity, which may overlap in truck availability reporting.



Figure 10: Refrigerated Truck Availability Monthly Ratings for California



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Any gaps in the chart lines are the result of quarters with no reported data for the region.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

PNW

Volume

In first quarter 2023, total reported shipments of fruit and vegetables from PNW were 1.49 million tons, down 6 percent year to year. There were only four commodities reported in the PNW region during the first quarter. Three of these commodities saw year-to-year volume decreases, including apples (down 14 percent); pears (down 10 percent); and onions, dry (down 1 percent). Shipments of potatoes increased 4 percent.

Rates

The quarterly average truck rate for shipments between 501 miles and 1,500 miles was \$3.18 per mile – up 8 percent quarter to quarter and down 5 percent year to year.

Truck Overview

Diesel fuel prices averaged \$4.64 per gallon—down 12 percent quarter to quarter and up 2 percent year to year. Throughout the quarter, adequate truck availability was reported in the districts of Columbia Basin, WA; Idaho and Malheur County, OR; and Twin Falls-Burley, ID. The Yakima Valley and Wenatchee, WA district reported adequate truck availability in January and a surplus of trucks in February and March.

Table 16: Reported Top Five Commodities Shipped from PNW (1,000 tons)

Commodity	1st Quarter 2023	Share of PNW Total	Previous Quarter	Same Quarter Last Year	Current Quarter as % change from:	
					Previous Qtr	Same Qtr Last Year
Apples	575	39%	630	670	-9%	-14%
Potatoes	429	29%	437	413	-2%	4%
Onions Dry	363	24%	385	366	-6%	-1%
Pears	126	8%	167	140	-25%	-10%
-	-	-	-	-	-	-
Top 5 Total	1,493	100%	1,619	1,588	-8%	-6%
PNW Total	1,493	100%	1,621	1,589	-8%	-6%

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Any "-" in the table indicates no reported shipments during the quarter or a percentage change with an at- or near-zero denominator.

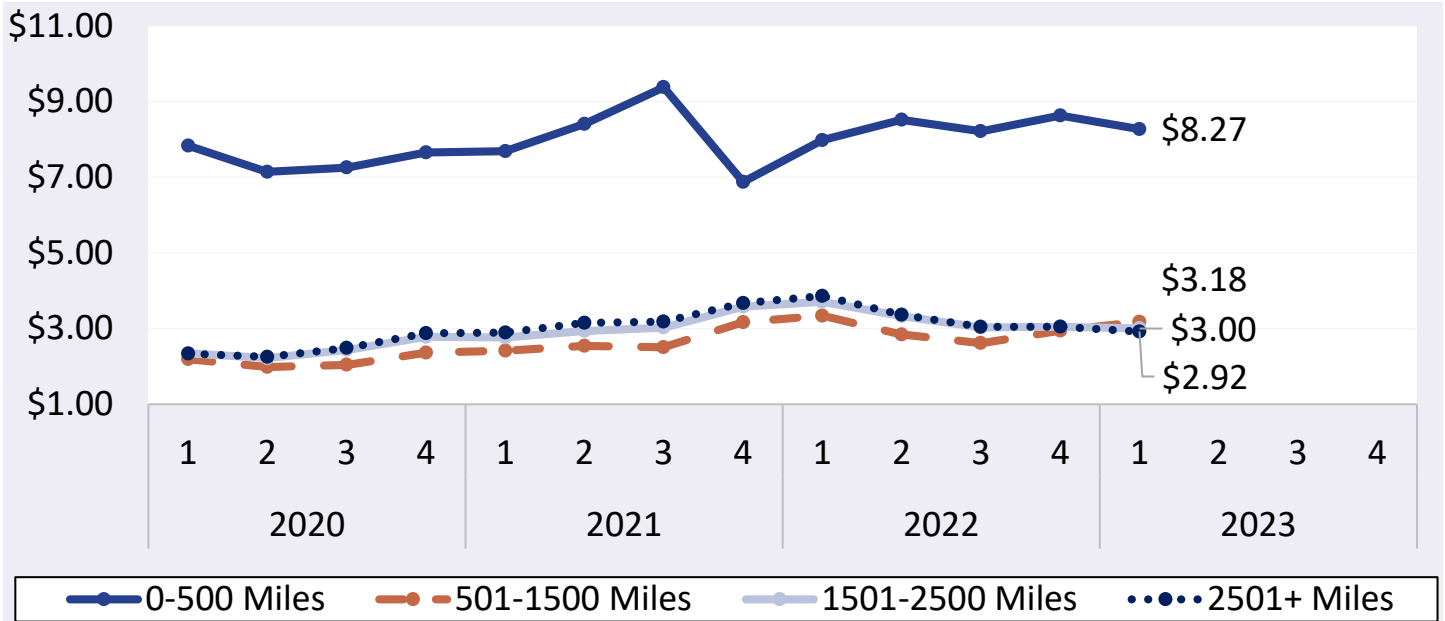
Note: Table values may not conform exactly due to rounding.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Figure 11: PNW Truck Rates (\$/Mile by Distance Travelled)



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Any gaps in the chart lines are the result of quarters with no reported data for the region.

Table 17: PNW Truck Overview (Availability Rating: 1=Surplus to 5=Shortage)

Region/Reporting District	January	February	March	1st Quarter
Columbia Basin Washington	3	3	3	3
Idaho And Malheur County, Oregon	3	3	3	3
Upper Valley, Twin Falls-Burley District Idaho	3	3	3	3
Yakima Valley And Wenatchee District, Washington	2.56	1.25	1	1.60
Regional Average Availability	2.89	2.56	2.5	2.65
Diesel Fuel Price (\$/gallon)	4.75	4.64	4.52	4.64

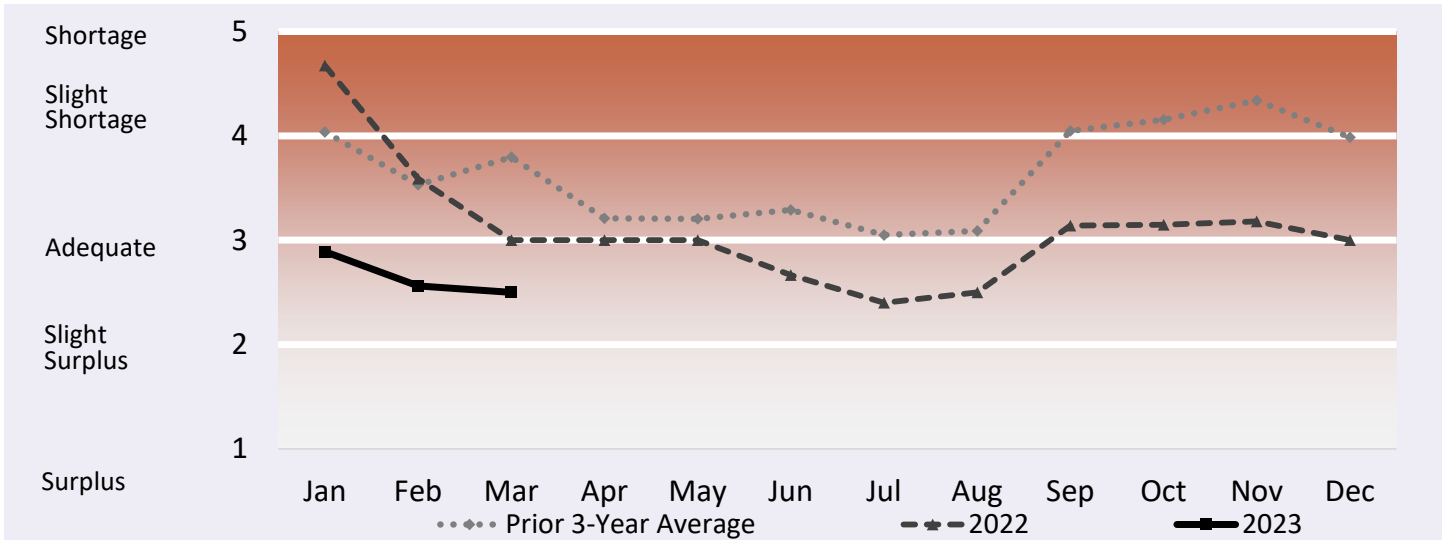
Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Any "-" in the table indicates no reported shipments during the quarter.
 Note: Table values may not conform exactly due to rounding.
 Note: AMS Specialty Crops Program defines regions by commodity, which may overlap in truck availability reporting.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Figure 12: Refrigerated Truck Availability Monthly Ratings for PNW



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data. Any gaps in the chart lines are the result of quarters with no reported data for the region.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Arizona

Volume

During first quarter 2023, total reported shipments of fruit and vegetables from Arizona were 708,000 tons—up 3 percent from first quarter 2022. The summed weight of the top five commodities shipped from Arizona increased 9 percent year to year. Three of the top five commodities saw year-to-year volume increases in the first quarter, including lettuce, processed (up 57 percent); celery (up 19 percent); and cauliflower (up 18 percent). Shipments of lettuce, iceberg, decreased by 3 percent; and shipments of lettuce, romaine, decreased by 2 percent.

Rates

The quarterly average truck rate for shipments between 501 miles and 1,500 miles was \$2.90 per mile—down 12 percent quarter to quarter and down 39 percent year to year.

Truck Overview

Diesel fuel prices averaged \$4.64 per gallon—down 12 percent quarter to quarter and up 2 percent year to year. For all Arizona districts, truck availability was reported as adequate in January and February, and as a slight surplus in March.

Table 18: Reported Top Five Commodities Shipped from Arizona (1,000 tons)

Commodity	1st Quarter 2023	Share of Arizona Total	Previous Quarter	Same Quarter Last Year	Current Quarter as % change from:	
					Previous Qtr	Same Qtr Last Year
Lettuce, Iceberg	189	27%	103	196	84%	-3%
Lettuce, Romaine	187	26%	98	192	90%	-2%
Lettuce, Processed	122	17%	100	78	23%	57%
Celery	66	9%	1	55	-	19%
Cauliflower	34	5%	5	29	622%	18%
Top 5 Total	599	85%	306	550	95%	9%
Arizona Total	708	100%	403	686	76%	3%

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Any "-" in the table indicates no reported shipments during the quarter or a percentage change with an at- or near-zero denominator.

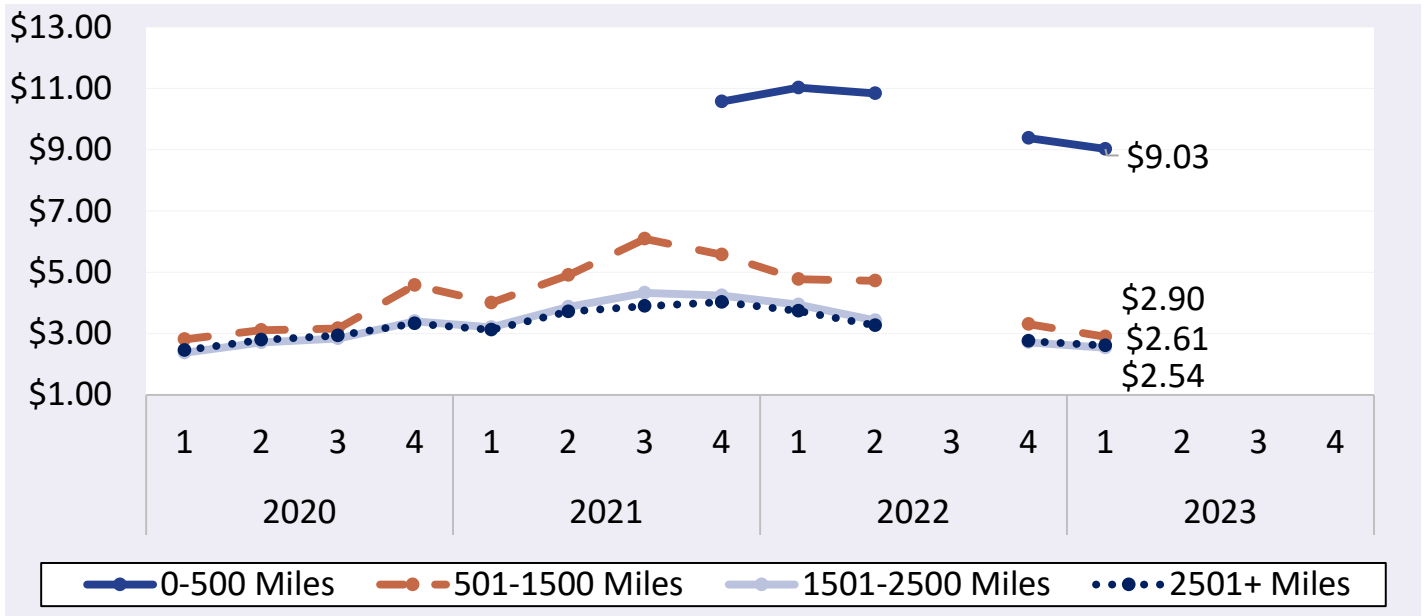
Note: Table values may not conform exactly due to rounding.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Figure 13: Arizona Truck Rates (\$/Mile by Distance Travelled)



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
Any gaps in the chart lines are the result of quarters with no reported data for the region.

Table 19: Arizona Truck Overview (Availability Rating: 1=Surplus to 5=Shortage)

Region/Reporting District	January	February	March	1st Quarter
Imperial, Coachella Valleys Ca, Central And Western Az, Mexico Crossings Through Calexico And San Luis	3	2.5	2.33	2.61
Regional Average Availability	3	2.5	2.33	2.61
Diesel Fuel Price (\$/gallon)	4.75	4.64	4.52	4.64

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Any "-" in the table indicates no reported shipments during the quarter.

Note: Table values may not conform exactly due to rounding.

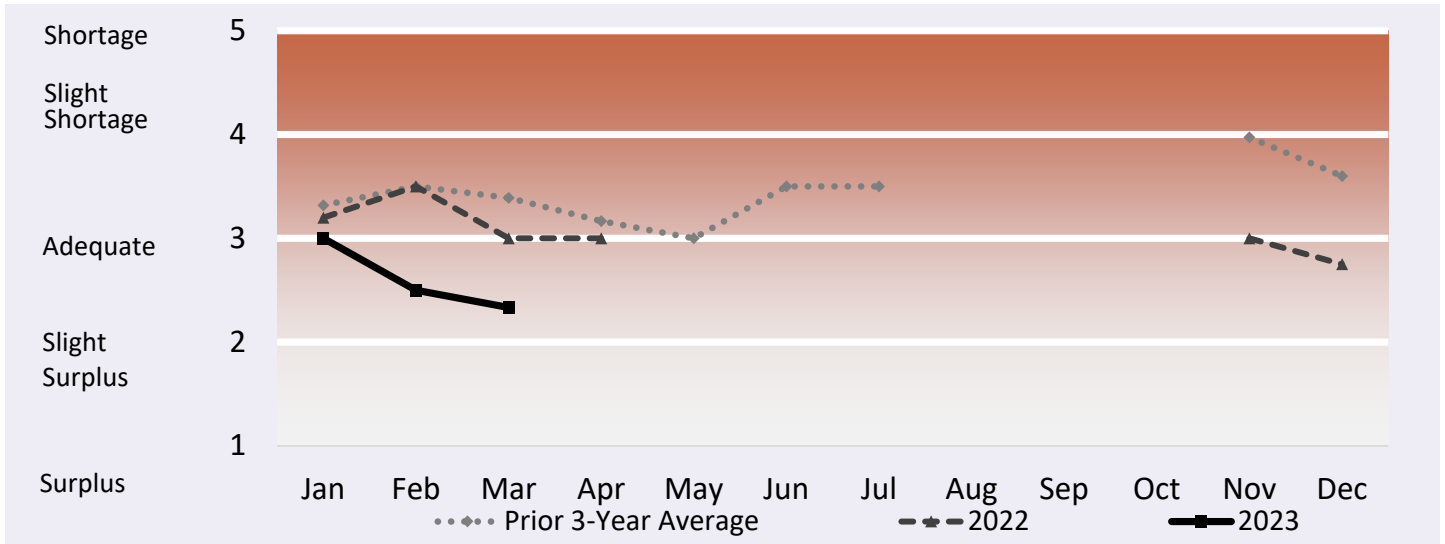
Note: AMS Specialty Crops Program defines regions by commodity, which may overlap in truck availability reporting.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Figure 14: Refrigerated Truck Availability Monthly Ratings for Arizona



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
 Any gaps in the chart lines are the result of quarters with no reported data for the region.



Florida

Volume

Total reported shipments of fruit and vegetables from Florida in first quarter 2023 were 651,000 tons, down 3 percent year to year. The summed weight of the top five commodities shipped from Florida increased 4 percent year to year. Volumes for two of the top five commodities decreased year to year, including cabbage (down 7 percent) and tomatoes (down 3 percent). Shipments of corn, sweet, increased 34 percent; shipments of peppers, bell type, increased 12 percent; and shipments of strawberries increased 1 percent.

Rates

The quarterly average truck rate for shipments between 501 miles and 1,500 miles was \$2.36 per mile—up 14 percent quarter to quarter and down 26 percent year to year.

Truck Overview

Diesel fuel prices averaged \$4.43 per gallon—down 11 percent quarter to quarter and up 4 percent year to year. The Central and South Florida district reported a slight surplus of trucks in January, and adequate truck availability in February and March. The Florida district reported adequate truck availability in February and March (availability was not reported in January).

Table 20: Reported Top Five Commodities Shipped from Florida (1,000 tons)

Commodity	1st Quarter 2023	Share of Florida Total	Previous Quarter	Same Quarter Last Year	Current Quarter as % change from:	
					Previous Qtr	Same Qtr Last Year
Strawberries	110	17%	17	108	563%	1%
Tomatoes	101	16%	66	105	52%	-3%
Cabbage	64	10%	6	68	908%	-7%
Corn-Sweet	62	9%	17	46	269%	34%
Peppers, Bell Type	49	8%	17	43	196%	12%
Top 5 Total	385	59%	122	371	215%	4%
Florida Total	651	100%	259	671	152%	-3%

Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.

Any "-" in the table indicates no reported shipments during the quarter or a percentage change with an at- or near-zero denominator.

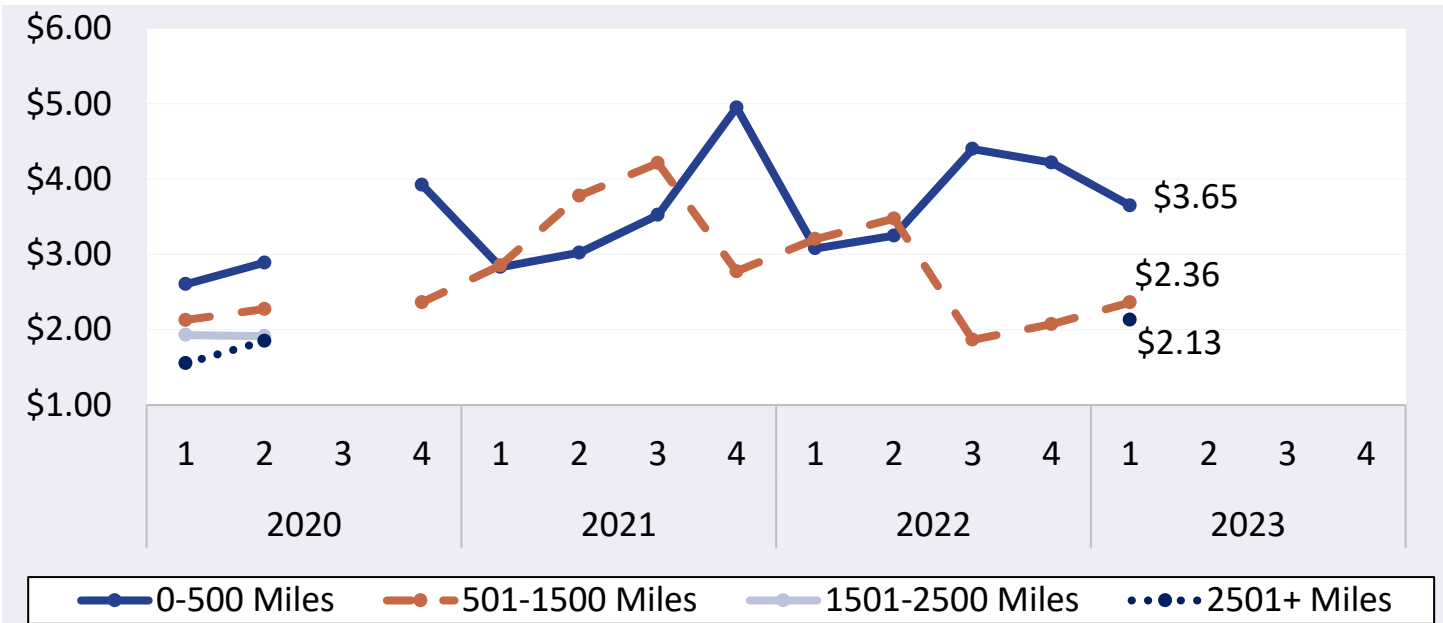
Note: Table values may not conform exactly due to rounding.



AGRICULTURAL REFRIGERATED TRUCK QUARTERLY

Quarter 1, 2023

Figure 15: Florida Truck Rates (\$/Mile by Distance Travelled)



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
Any gaps in the chart lines are the result of quarters with no reported data for the region.

Table 21: Florida Truck Overview (Availability Rating: 1=Surplus to 5=Shortage)

Region/Reporting District	January	February	March	1st Quarter
Central And South Florida	2.14	2.75	2.88	2.59
Florida	-	3	3	3
Regional Average Availability	2.14	2.88	2.94	2.65
Diesel Fuel Price (\$/gallon)	4.67	4.46	4.17	4.43

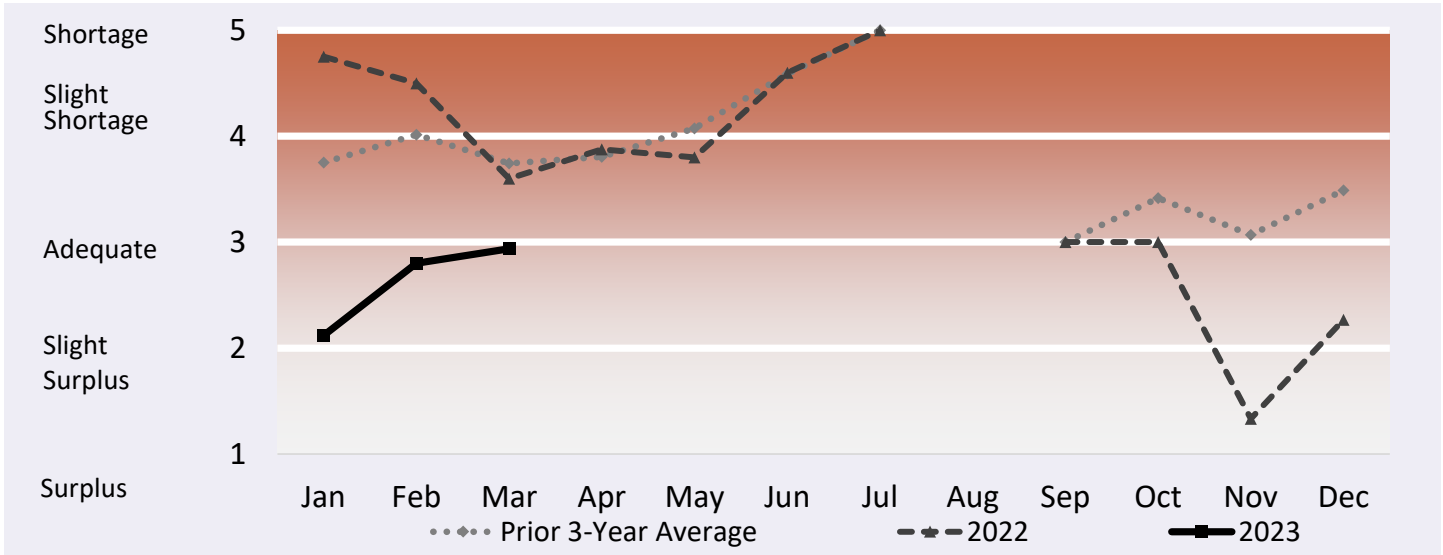
Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data.
Any "-" in the table indicates no reported shipments during the quarter.

Note: Table values may not conform exactly due to rounding.

Note: AMS Specialty Crops Program defines regions by commodity, which may overlap in truck availability reporting.



Figure 16: Refrigerated Truck Availability Monthly Ratings for Florida



Source: AMS Transportation Services Division analysis of AMS Specialty Crops Program Market News data. Any gaps in the chart lines are the result of quarters with no reported data for the region.



ADDITIONAL INFORMATION

Terms and References

Data Reporting and Publication Window

The publication date of each Agricultural Refrigerated Truck Quarterly (AgRTQ) depends on the timing of data reporting. Reporting of truck shipments in some regions can be delayed 2-3 months past their respective quarter. We publish the AgRTQ one month after that lag in order to capture a more complete picture of truck shipments during the quarter.

Data Sources

This information is compiled from the weekly Specialty Crops Truck Rate Report by USDA, Agricultural Marketing Service (AMS), Specialty Crops Program, Market News Division. The website is:

<https://www.marketnews.usda.gov/mnp/fv-home>.

Regional Markets

For the regional markets, some States are grouped into producing regions. The Pacific Northwest region includes Idaho, Oregon, and Washington. The Great Lakes region includes Michigan, Minnesota, and Wisconsin. The Southeast region includes North Carolina, South Carolina and Georgia.

Shipment Volumes

Truck shipments for all commodities and origins are not available. Those obtainable are reported, but should not be interpreted as representing complete movements of a commodity. Truck shipments from all States are collected at shipping points and include both interstate and intrastate movements. They are obtained from various sources, including Federal marketing orders, administrative committees, Federal State Inspection Service, and shippers. Volume amounts are represented in 10,000 pound units, or 1,000 10-lb packages but are converted to 1,000 tons for this report. Mexican border crossings through Arizona and Texas data is obtained from the Department of Homeland Security (DHS), U.S. Customs and Border and Protection (CBP) through USDA, AMS, Market News.

Rates

This information is compiled from the weekly Specialty Crops Truck Rate Report. Rates quoted represent open (spot) market rates that shippers or receivers pay depending on basis of sale, per load, including truck brokers fees for shipments in truck load volume to a single destination. Extra charges for delivery to terminal markets, multipickup and multidrop shipments are not included unless otherwise stated. Rates are based on the most usual loads in 48-53 foot trailers from the origin shipping area to the destination receiving city. In areas where rates are based on package rates, per load rates were derived by multiplying the package rate by the number of packages in the most usual load in a 48-53 foot trailer. Slightly cheaper rates will be reported during Quarters 2 and 3 as about 50 percent of onion shipments from California are hauled on open flatbed trailers. During Quarter 3, less than 20 percent of onions hauled from Washington, Idaho, and Oregon are on open flatbeds.

Regional Rates

Rate data for 10 destination markets are used to calculate average origin regional rates.

National Rates

The national rates reflect the average of the regional rates, separated by mileage category and weighted by volume between origin and destination.



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Related Websites

USDA's Agricultural Transportation Open Data Platform

<https://agtransport.usda.gov/>

Specialty Crops Program

<https://www.ams.usda.gov/about-ams/programs-offices/specialty-crops-program>

Specialty Crops Truck Rate Report

https://mymarketnews.ams.usda.gov/filerepo/reports?field_slug_id_value=2375

Specialty Crops Movement Reporting

<https://www.marketnews.usda.gov/mnp/fv-report-config-step1?type=movement>

Economic Research Service Vegetable and Pulses

<https://www.ers.usda.gov/topics/crops/vegetables-pulses/>

Economic Research Service Fruit and Tree Nuts

<https://www.ers.usda.gov/topics/crops/fruit-tree-nuts.aspx>

National Agricultural Statistics Service, Crops

https://www.nass.usda.gov/Statistics_by_Subject/index.php?sector=CROPS

Refrigerated Truck Quarterly Datasets

<https://www.ams.usda.gov/services/transportation-analysis/agricultural-refrigerated-truck-quarterly-datasets>

Protecting Perishable Foods During Transport by Truck and Rail

<https://edis.ifas.ufl.edu/pdf/HS/HS132800.pdf>

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