

2023

WEST VIRGINIA & U.S. DOMESTIC METALLURGICAL COAL PRODUCTION, DISTRIBUTION, PRICING & CONSUMPTION DATA

U.S. COKE PRODUCTION DATA

U.S. RAW STEEL PRODUCTION DATA



Data Sources:

U.S. Energy Information Administration, U.S. Mine Safety & Health Administration, U.S. Commerce Department, Association of American Railroads, American Iron & Steel Institute, Inland Waterways Association, Virginia Maritime Association, World Steel Association, World Coal Association, Edison Electric Institute, West Virginia Office of Miners' Health Safety & Training, West Virginia Department of Environmental Protection, West Virginia Public Service Commission, West Virginia Department of Tax & Revenue

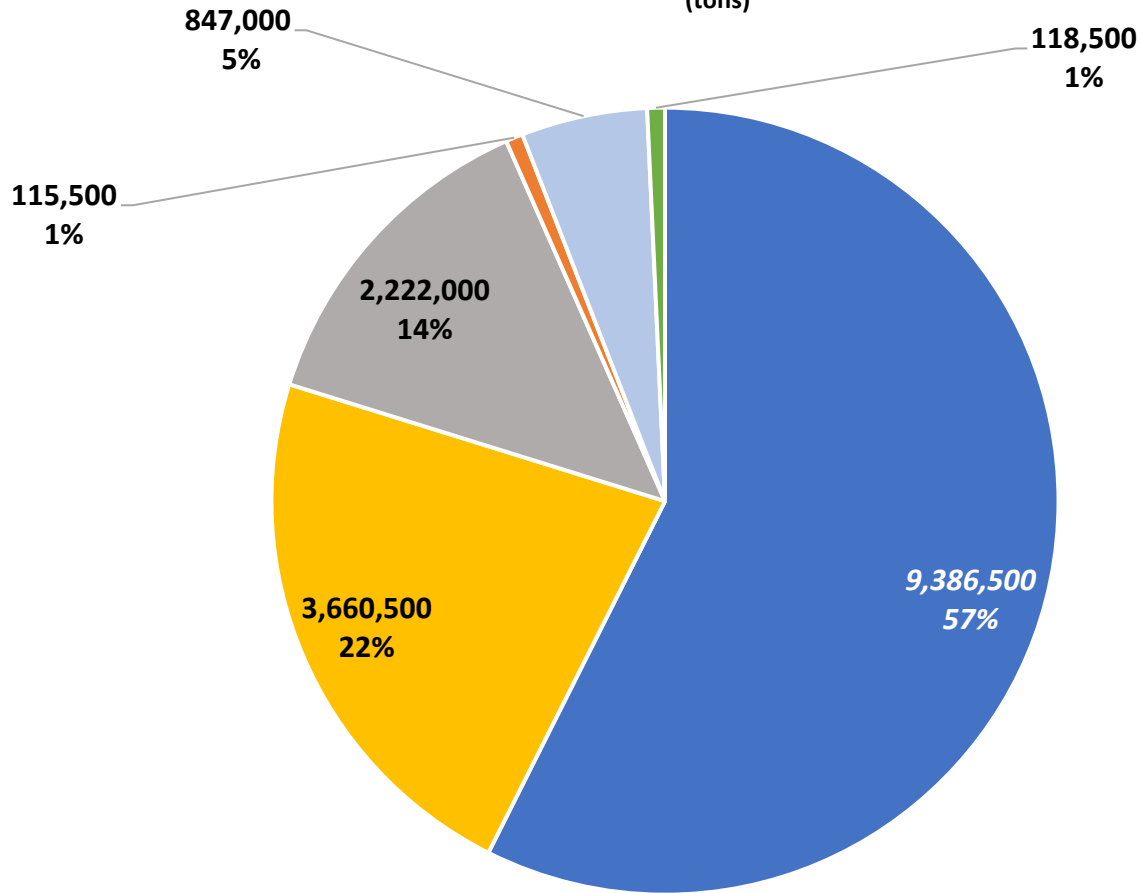
** Metallurgical coal production data includes domestic coal shipments to U.S. coke plants, foundries, ferro-alloy plants, metal manufacturing facilities and PCI coal shipments to blast furnaces.*

U.S. Metallurgical Coal Production:

Domestic Met Shipments

2023

(tons)



■ *West Virginia* ■ Pennsylvania ■ Virginia ■ Alabama ■ Kentucky ■ Maryland

West Virginia & U.S. Domestic Met Coal Shipments

2023

(tons)

State / Region	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	2023 Total	YTD %+/-
W.Va. NAPP	34,000	22,000	20,000	371,000	447,000	445%
W.Va. CAPP	2,388,000	2,290,500	2,295,000	1,966,000	8,939,500	-23.50
Total W.Va.	2,422,000	2,312,500	2,315,000	2,337,000	9,386,500	-20.50
Alabama	29,000	43,000	28,500	15,000	115,500	-38.56
Kentucky	236,000	238,000	192,000	181,000	847,000	-68.54
Maryland	31,000	29,500	28,000	30,000	118,500	123.58
Pennsylvania	967,000	889,000	953,500	851,000	3,660,500	-3.37
Virginia	526,000	538,000	580,000	578,000	2,222,000	25.75
U.S. Total Domestic Met	4,211,000	4,050,000	4,097,000	3,992,000	16,350,000	-10.95

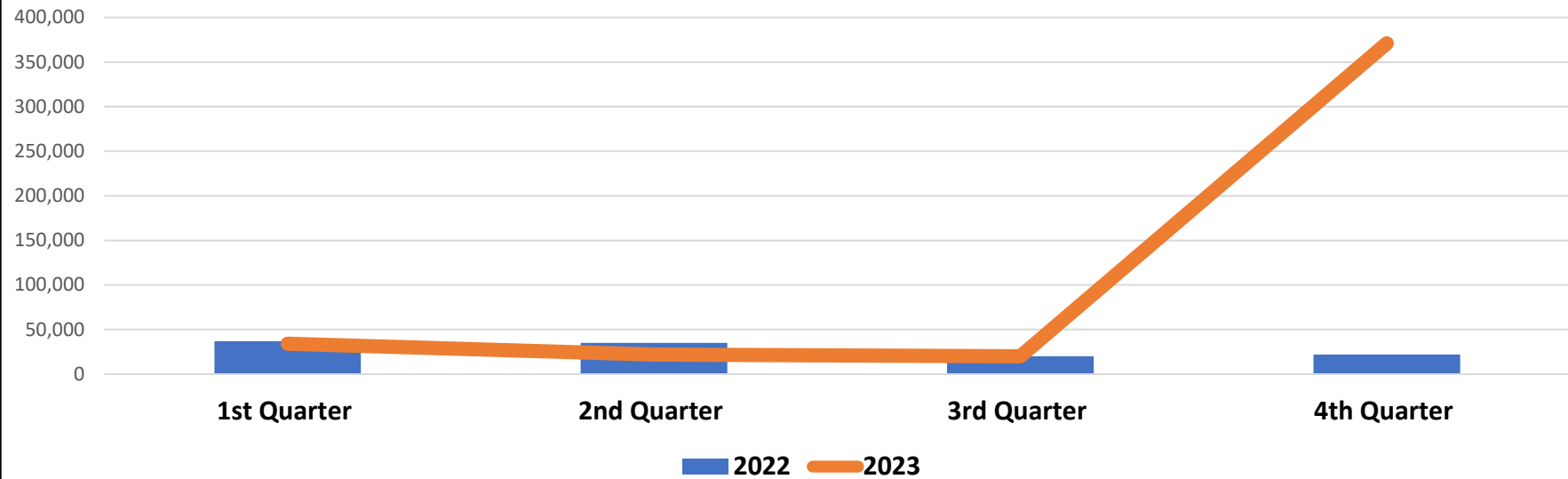
Includes domestic metallurgical coal shipments to coke plants, foundries, ferro-alloy plants, metal manufacturing facilities and PCI coal shipments to blast furnaces

Source: U.S. Energy Information Administration Form EIA-3, *Quarterly Survey of Industrial, Commercial, and Institutional Coal Users* & Form EIA 7-A, *Annual Survey of Coal Production and Preparation*.

West Virginia Northern Appalachian Domestic Metallurgical Coal Shipments

2022 vs. 2023

(tons)



West Virginia Northern Appalachian Domestic Met Coal Shipments

(tons)

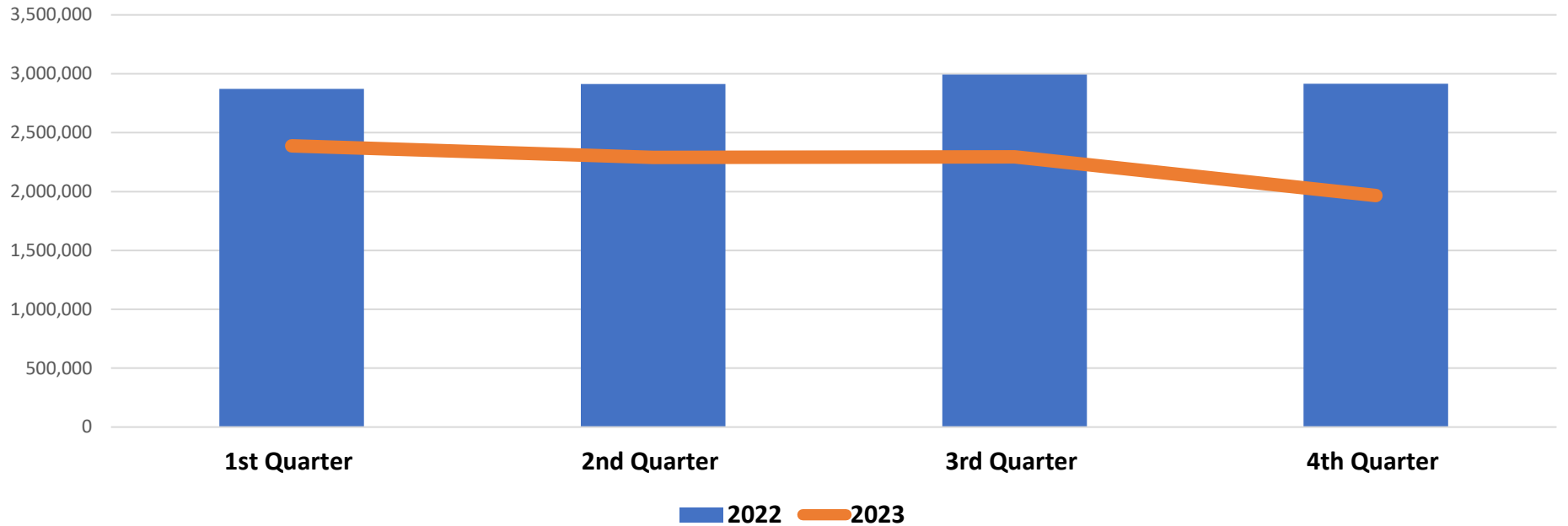
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD	% +/-
2022	37,000	35,000	20,000	22,000	114,000	445%
2023	34,000	22,000	20,000	371,000	447,000	

Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports

West Virginia Central Appalachian Domestic Metallurgical Coal Shipments

2022 vs. 2023

(tons)



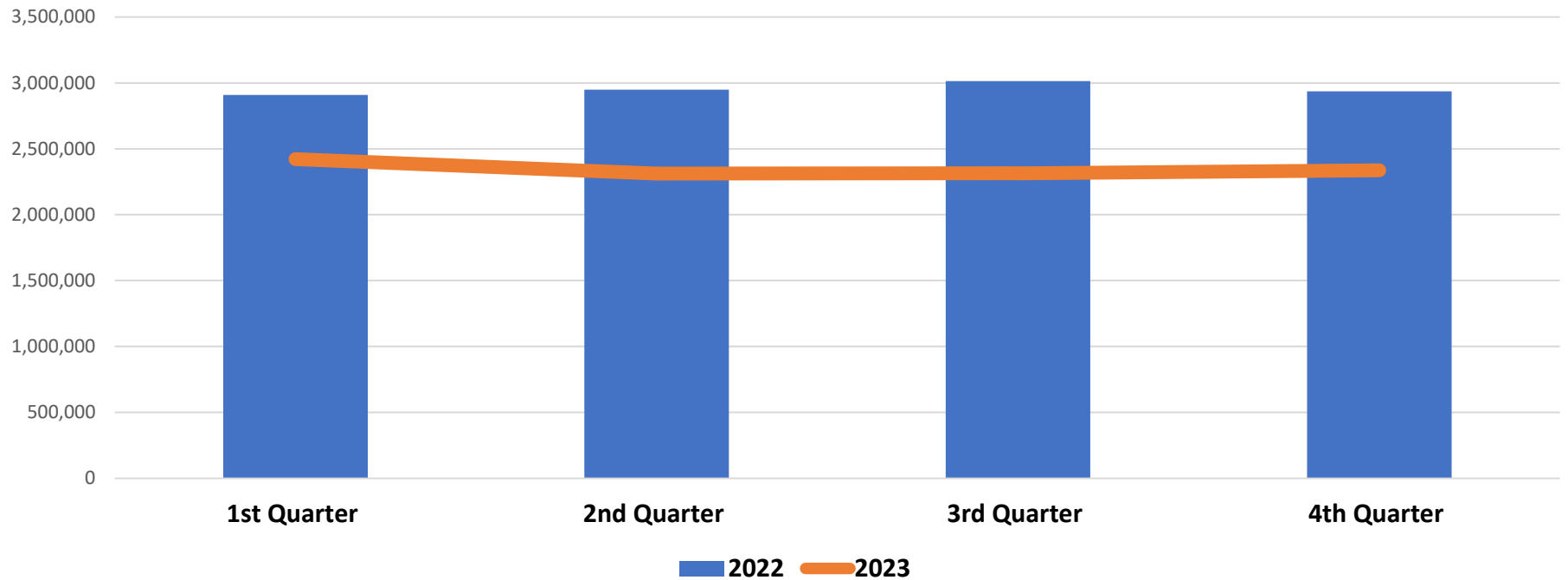
West Virginia Central Appalachian Domestic Met Coal Shipments

(tons)

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD	% +/-
2022	2,872,587	2,913,587	2,993,587	2,914,587	11,694,348	-23.50
2023	2,388,000	2,290,500	2,295,000	1,966,000	8,939,500	

Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports

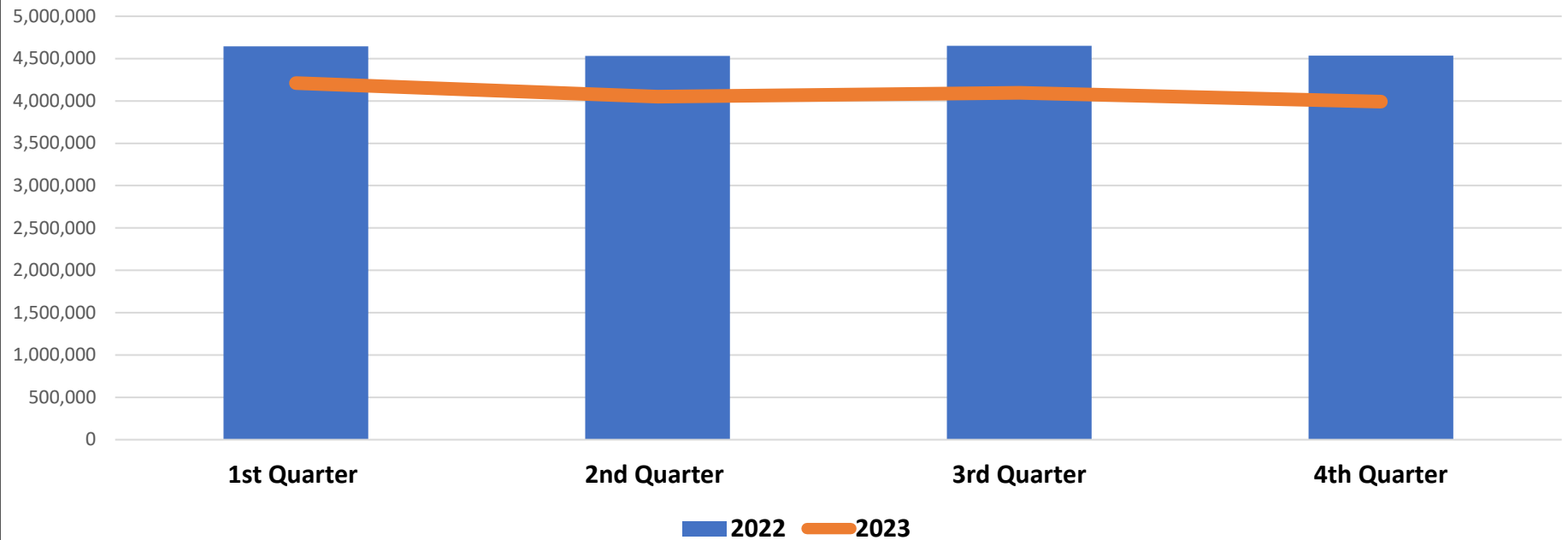
**Total West Virginia
Domestic Metallurgical Coal Shipments
2022 vs. 2023
(tons)**



West Virginia Total Domestic Met Coal Shipments						
(tons)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD	% +/-
2022	2,909,587	2,948,587	3,013,587	2,936,587	11,808,348	-20.50
2023	2,422,000	2,312,500	2,315,000	2,337,000	9,386,500	

Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports

U.S. Domestic Metallurgical Coal Shipments 2022 vs. 2023 (tons)



Total U.S. Domestic Metallurgical Coal Shipments

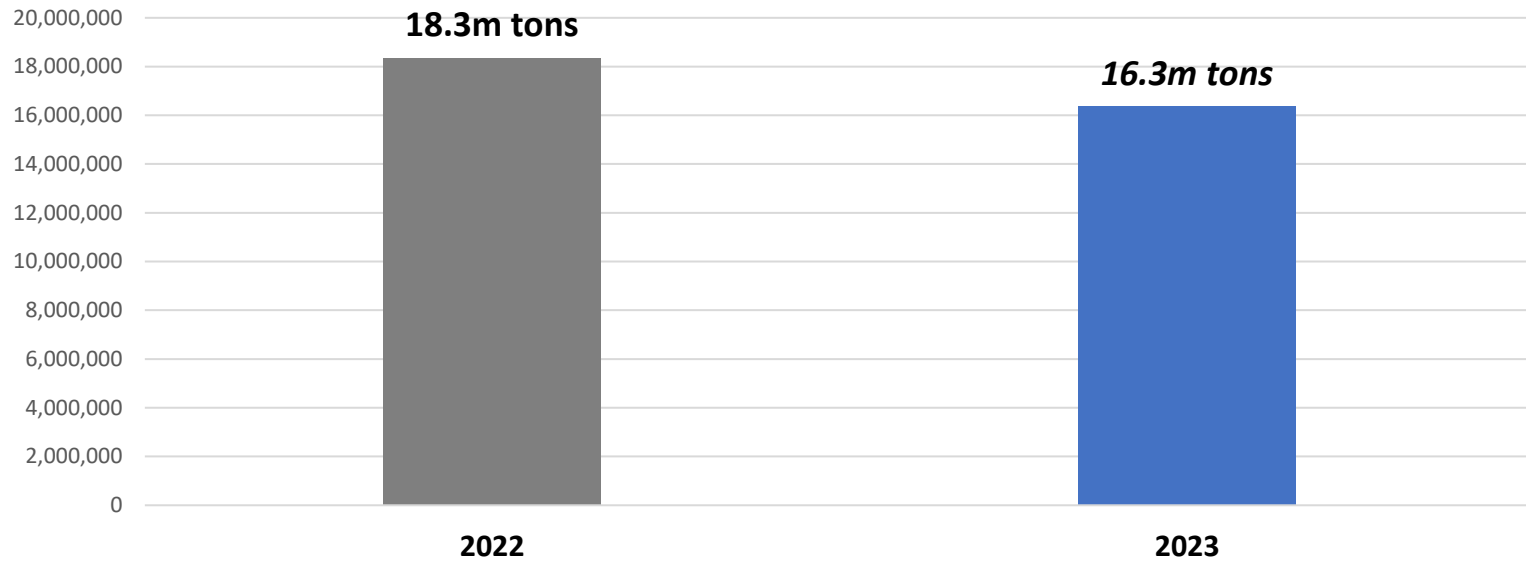
(tons)

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD	YTD % +/-
2022	4,644,587	4,530,587	4,650,587	4,535,587	18,361,348	-10.95
2023	4,211,000	4,050,000	4,097,000	3,992,000	16,350,000	

Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports

Total U.S. Domestic Metallurgical Coal Shipments: 2022 vs. 2023

(tons)



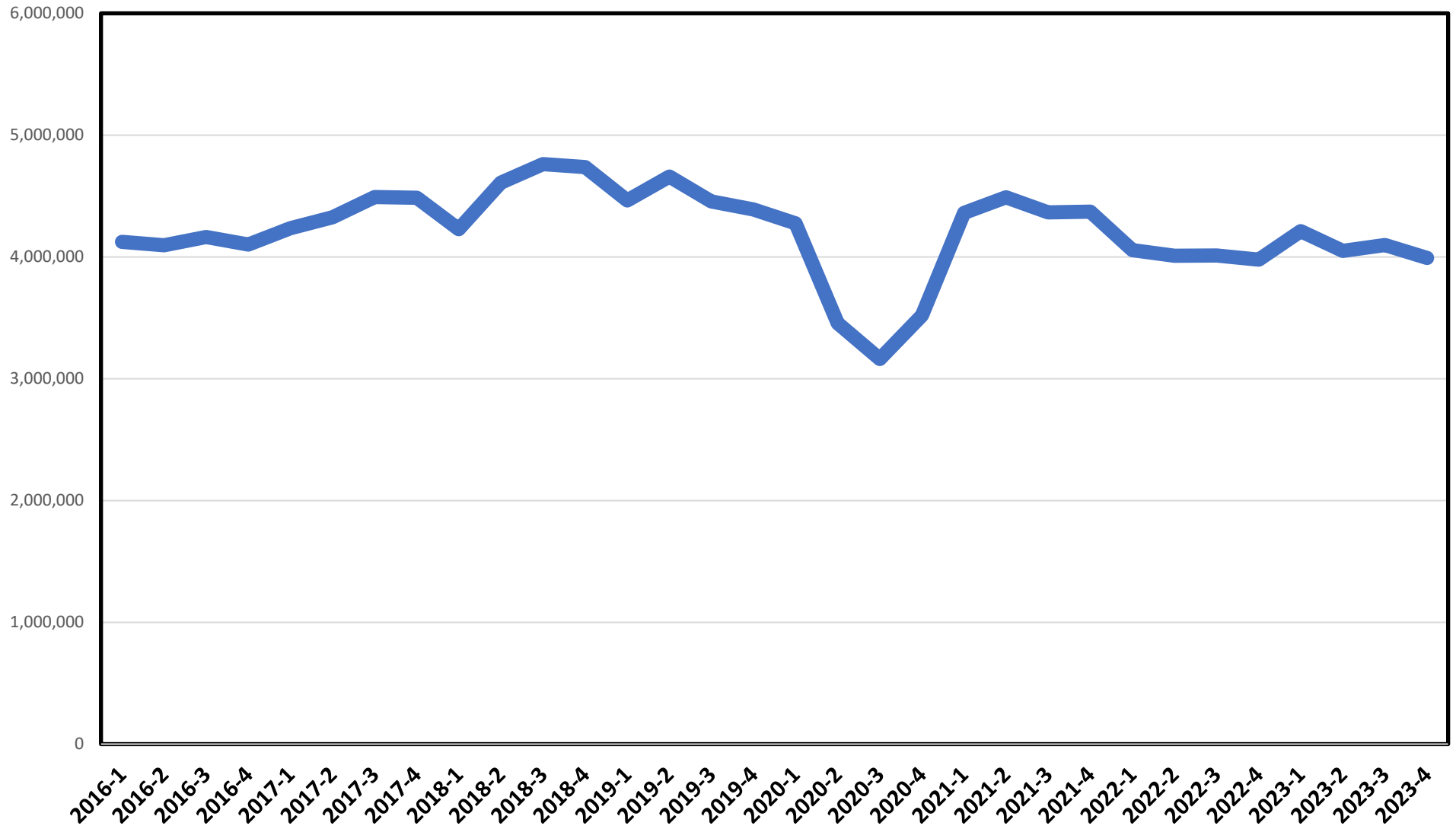
Total U.S. Domestic Metallurgical Coal Shipments

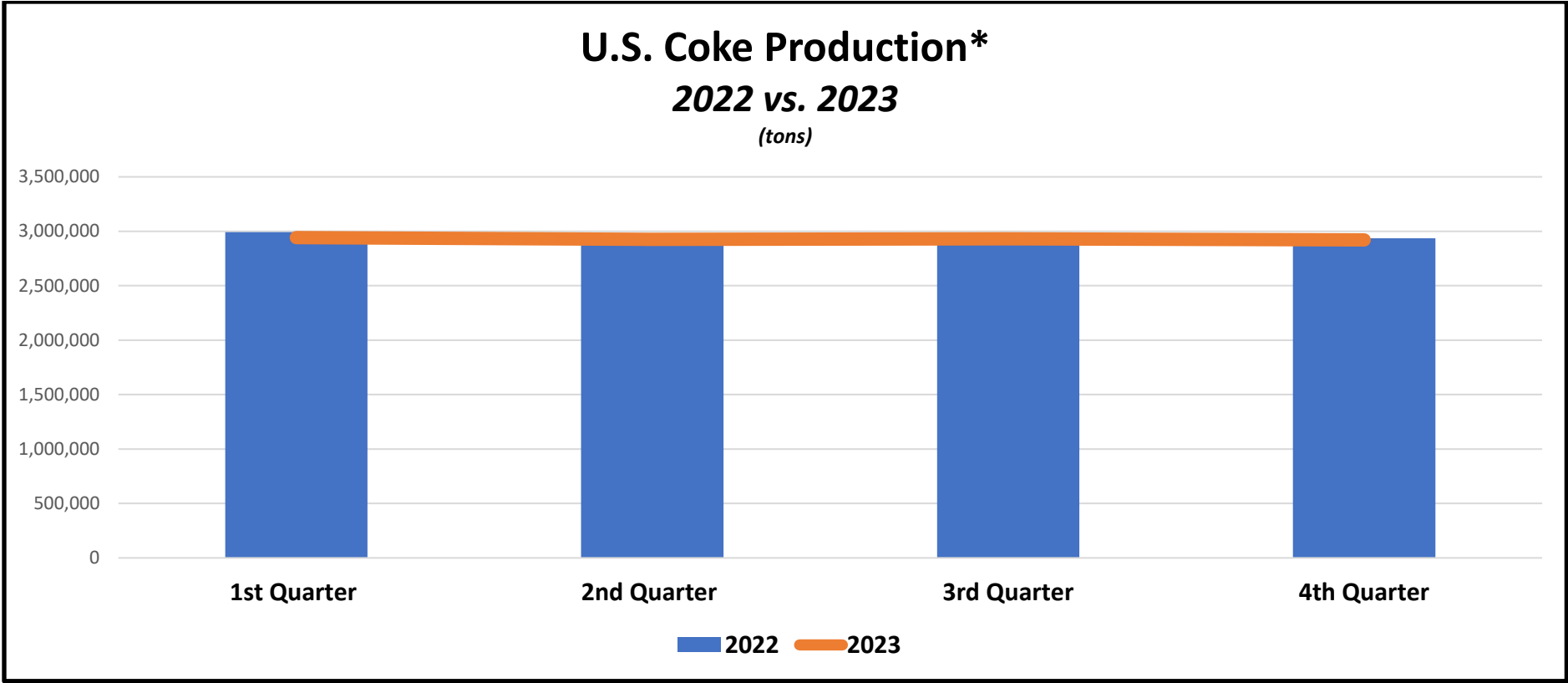
(tons)

Year	Met Coal Shipments	% +/-
2022	18,361,348	-10.95
2023	16,350,000	

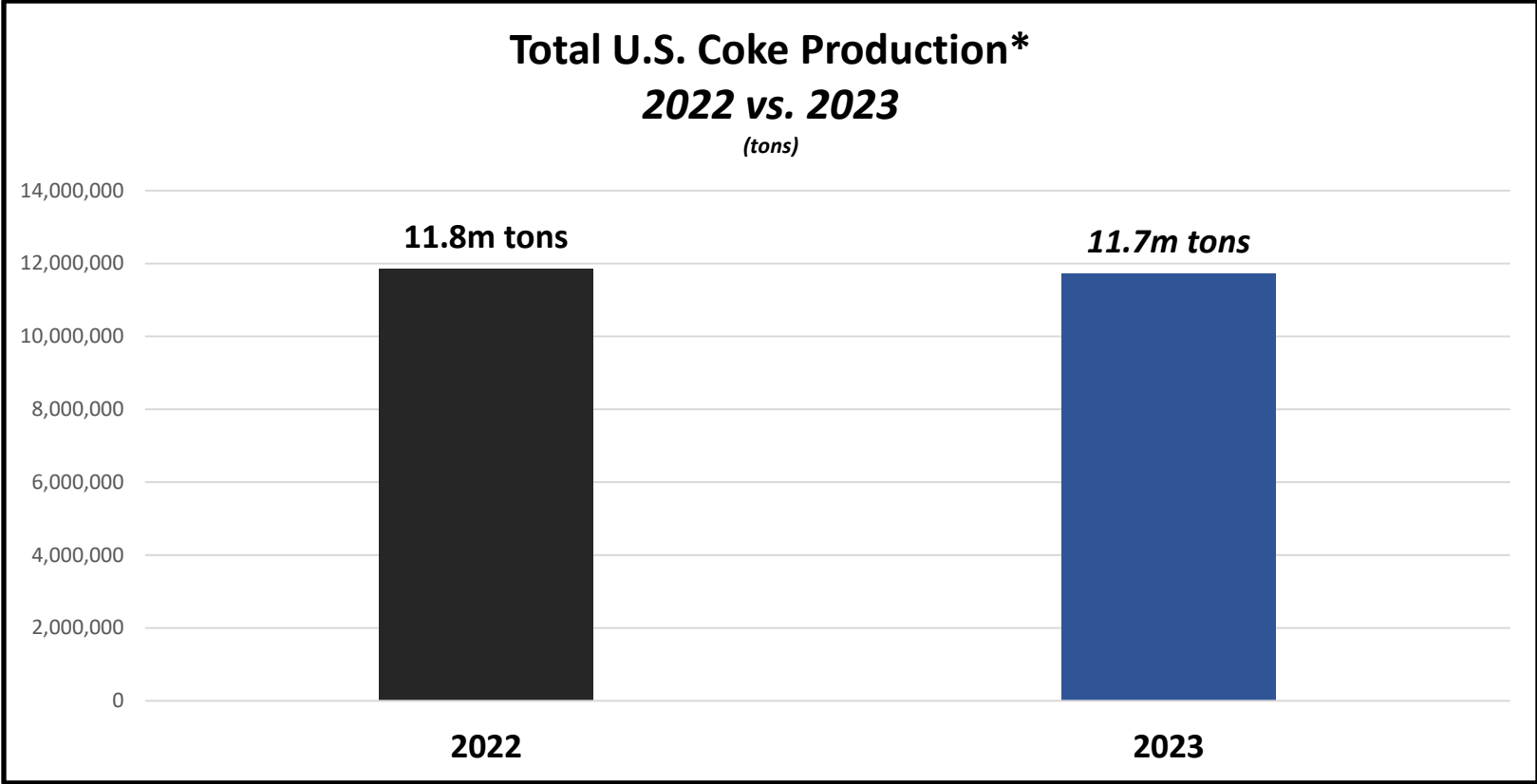
Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports

Total U.S. Domestic Metallurgical Coal Shipments: 2016-2023





U.S. Coke Production*						
(tons)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD	YTD % +/-
2022	2,993,000	2,976,000	2,963,000	2,936,000	11,868,000	-1.25
2023	2,942,000	2,925,000	2,931,000	2,921,000	11,719,000	
*Includes furnace and foundry coke, coke breeze, integrated and merchant production						
Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports						



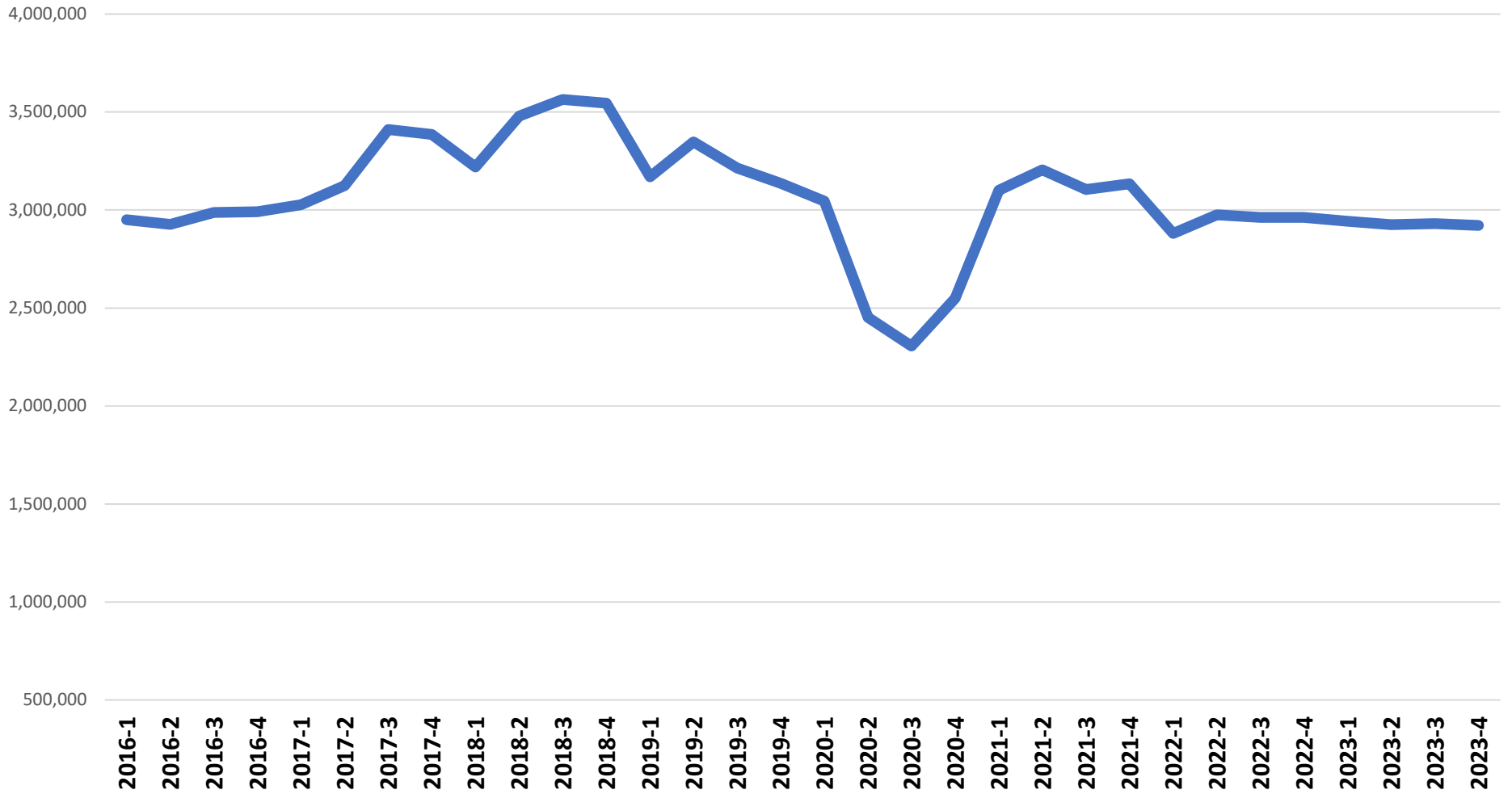
U.S. Coke Production*		
Year	Coke Production	% +/-
2022	11,868,000	-1.25
2023	11,719,000	
*Includes furnace and foundry coke, coke breeze, integrated and merchant production		
Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports		

U.S. Coke Production:*

2016-2023

(tons)

*Includes furnace and foundry coke, coke breeze, integrated and merchant coke production

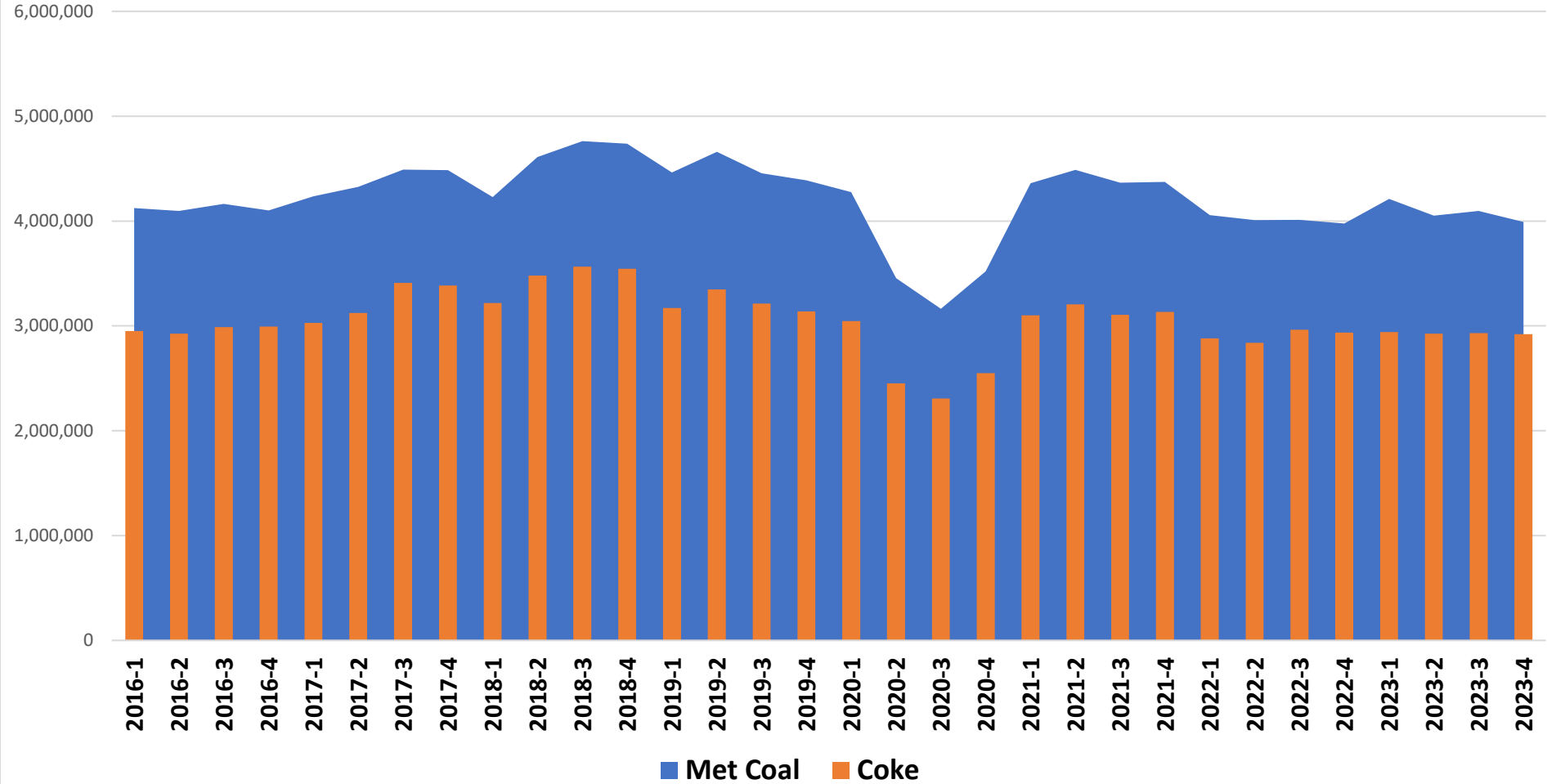


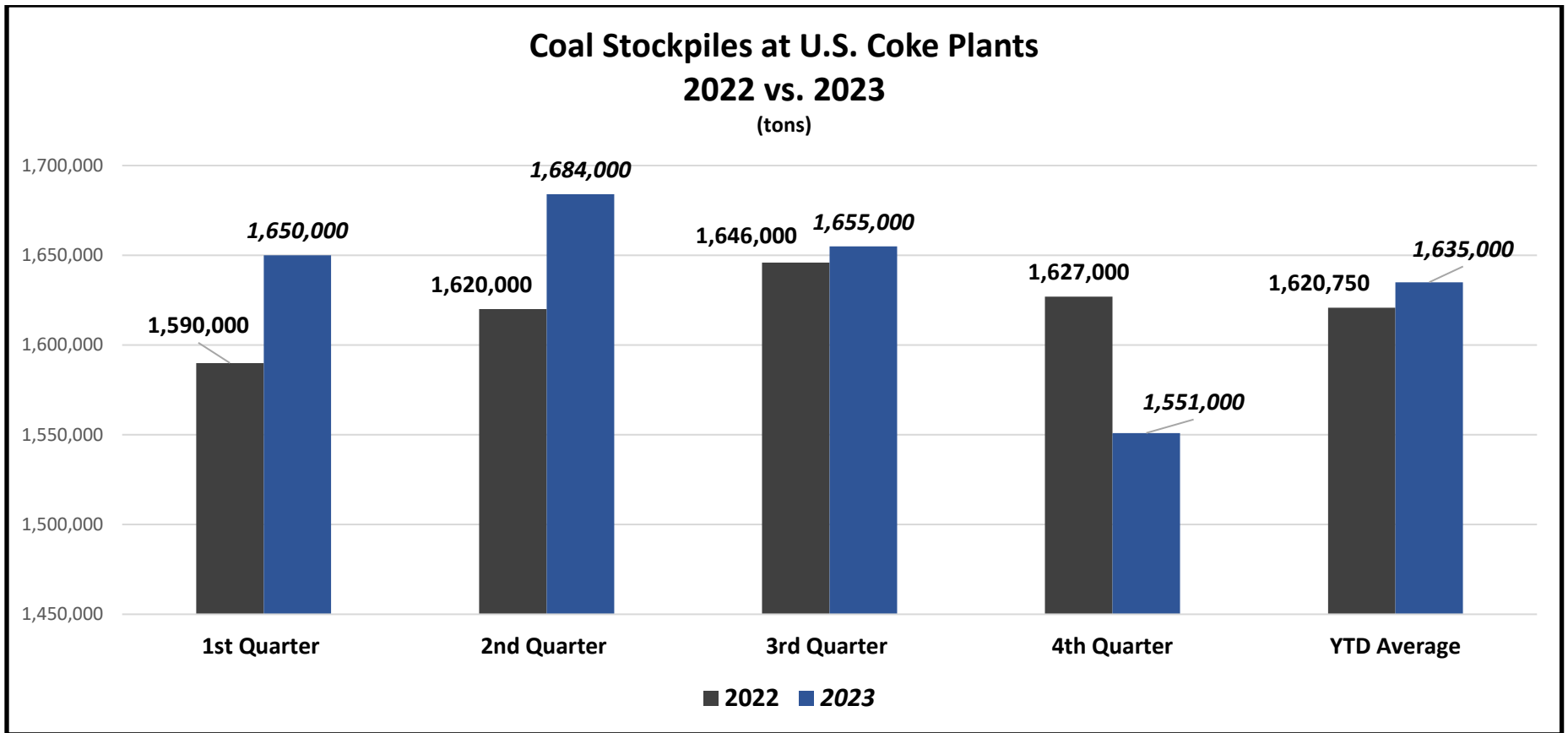
U.S. Domestic Metallurgical Coal Shipments & Coke Production:^{*}

2016-2023

^{*}Includes furnace and foundry coke, coke breeze, integrated and merchant coke production

Source: Energy Information Administration Forms EIA-3 & EIA-5





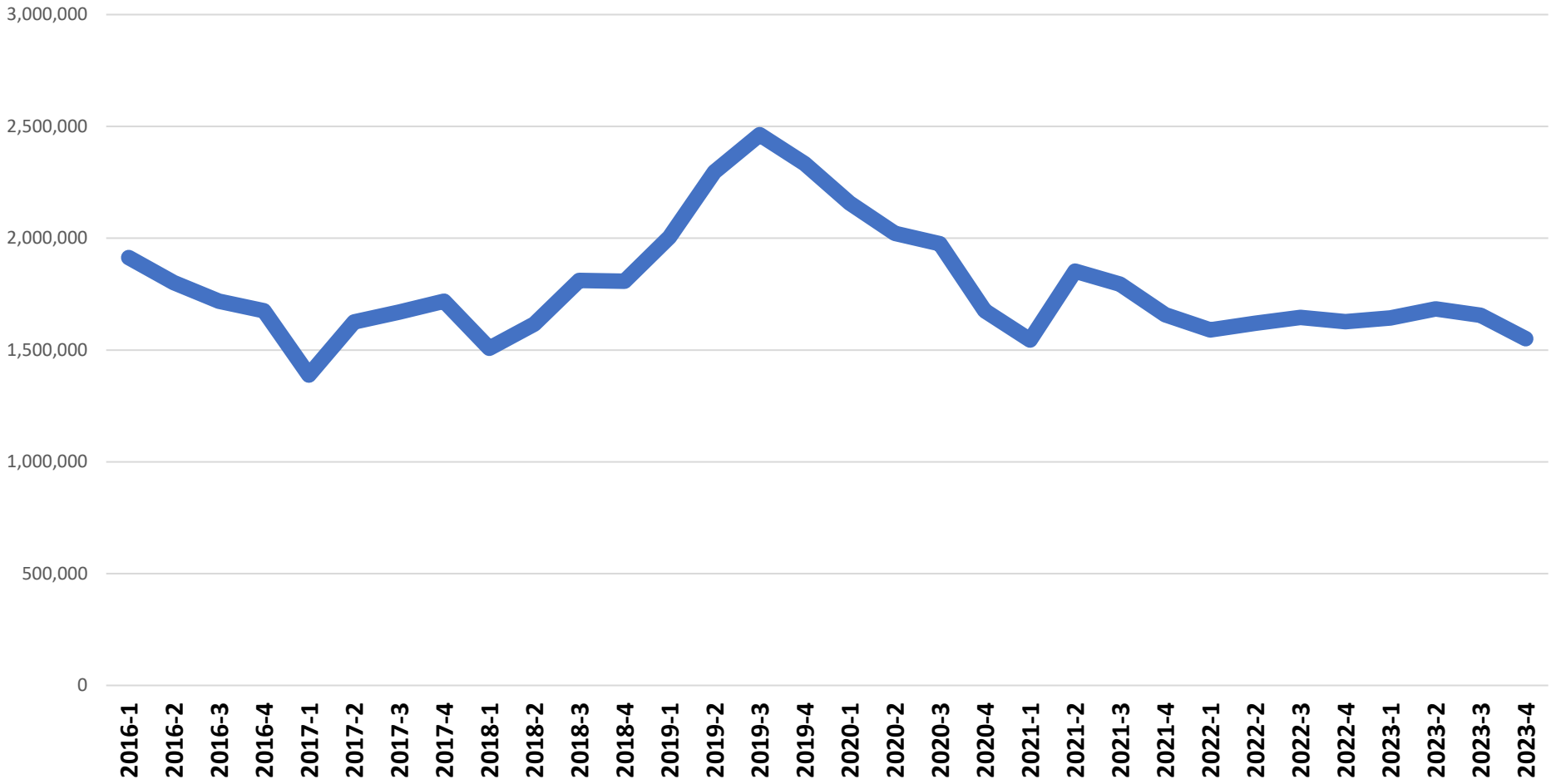
Coal Stockpiles at U.S. Coke Plants						
(tons)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD Average	% +/-
2022	1,590,000	1,620,000	1,646,000	1,627,000	1,620,750	0.87
2023	1,650,000	1,684,000	1,655,000	1,551,000	1,635,000	

Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports

Coal Stockpiles at U.S. Coke Plants:

2016-2023

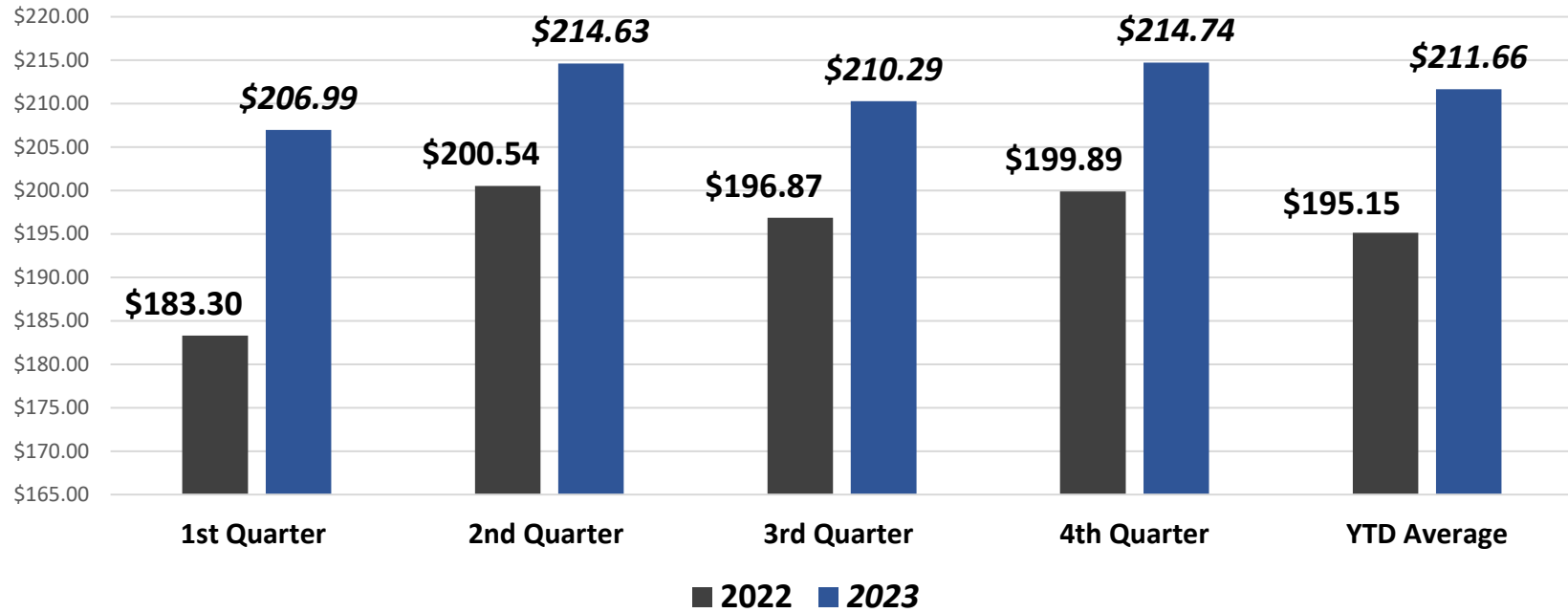
(tons)



U.S. Domestic Metallurgical Coal Pricing

2022 v. 2023

(\$/ton)



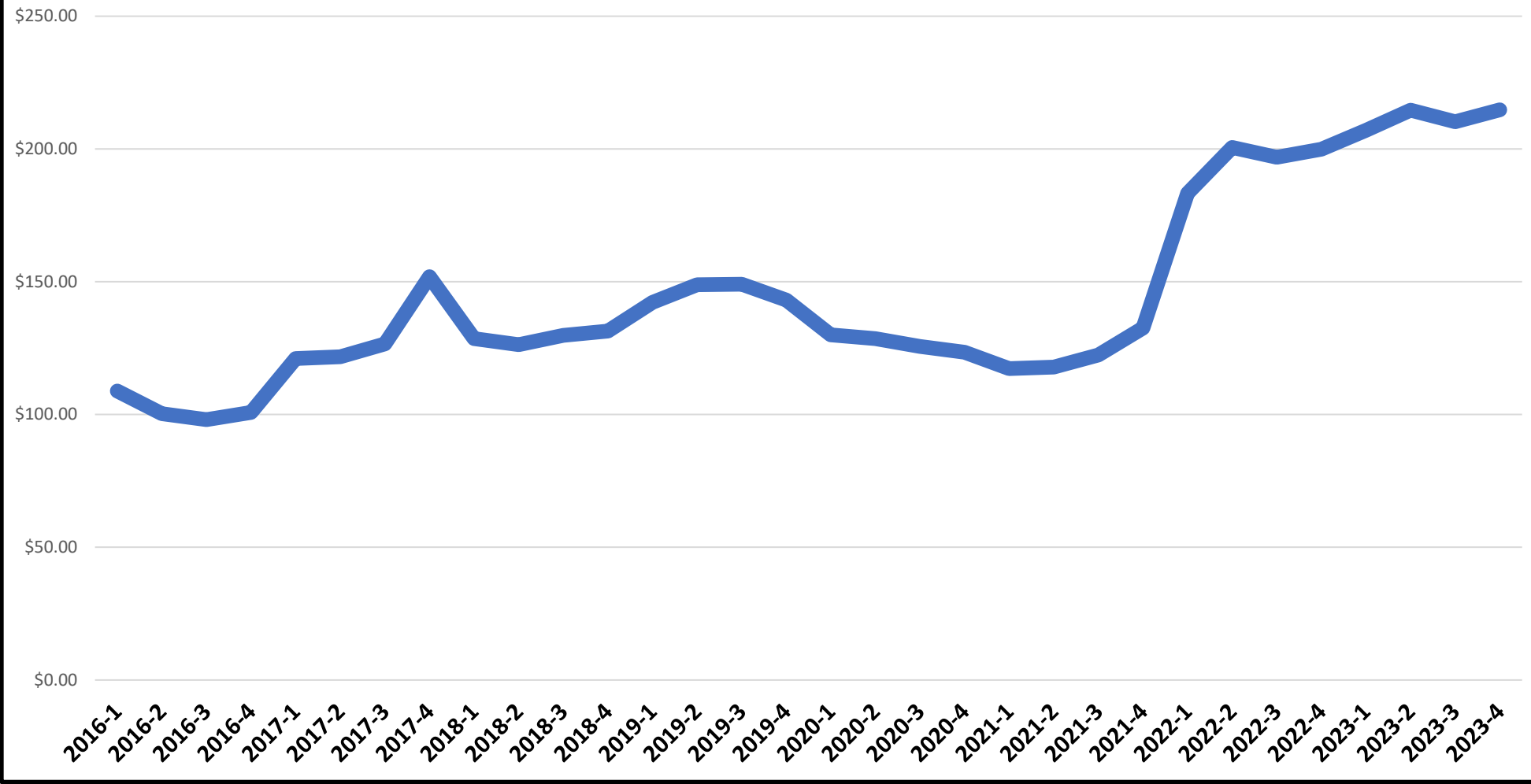
U.S. Domestic Metallurgical Coal Pricing

(\$/ton)

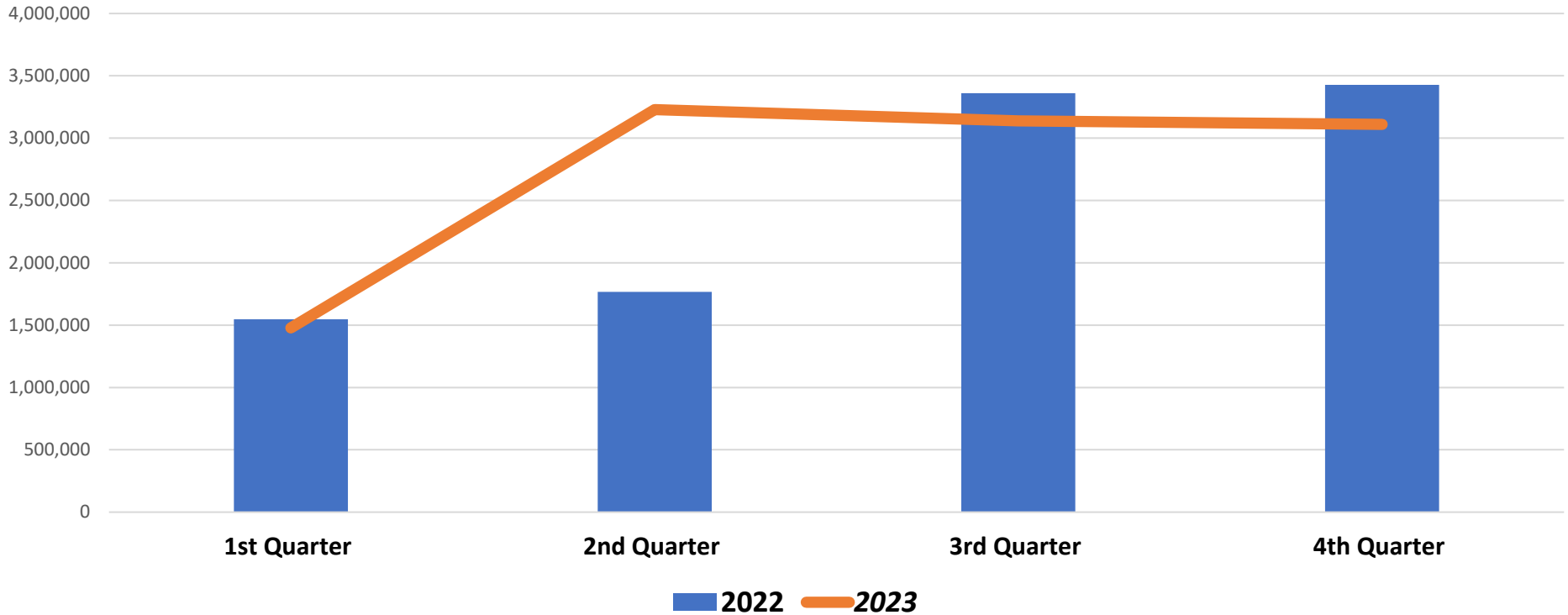
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD Average	% +/-
2022	\$183.30	\$200.54	\$196.87	\$199.89	\$195.15	8.46
2023	\$206.99	\$214.63	\$210.29	\$214.74	\$211.66	

Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports

Average Price of Domestic Metallurgical Coal:
2016-2023
(\$/ton)

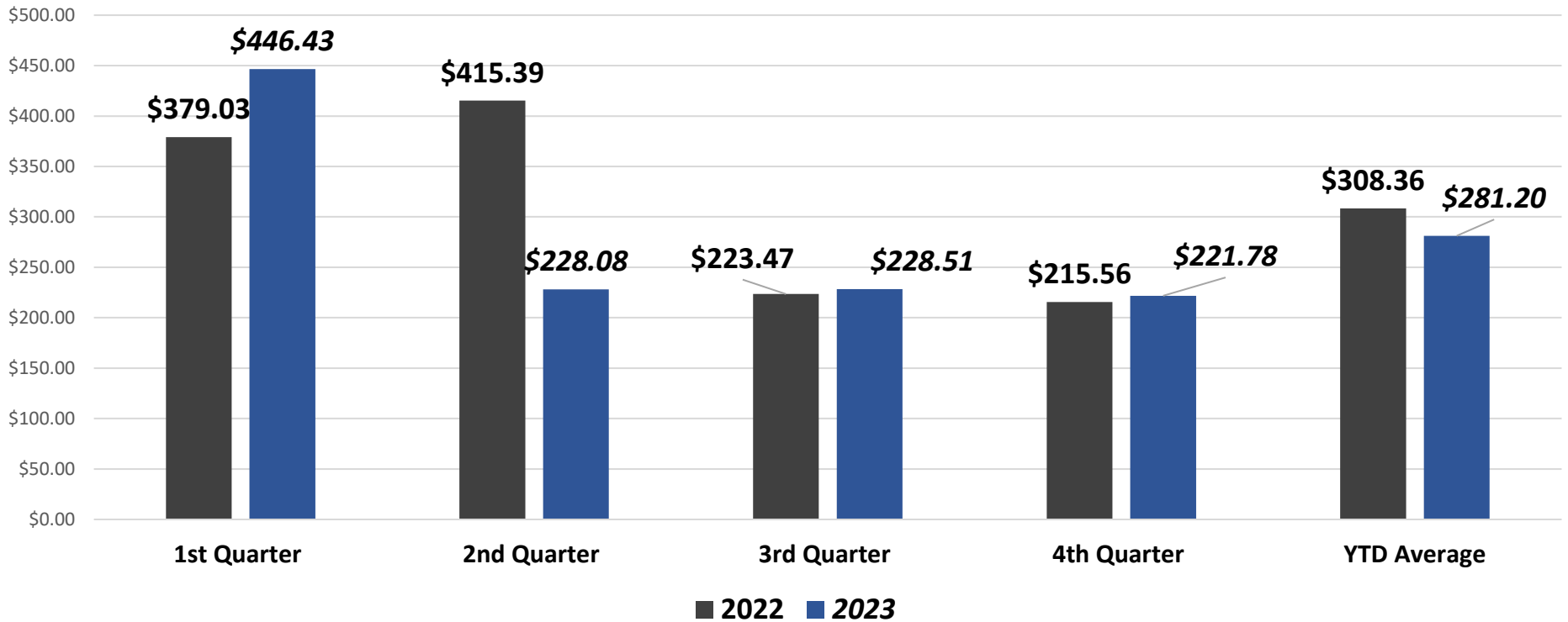


U.S. Domestic Merchant Coke Sales 2022 v. 2023 (tons)



U.S. Domestic Merchant Coke Sales						
(tons)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD	% +/-
2022	1,546,000	1,768,000	3,360,000	3,428,000	10,102,000	8.45
2023	1,478,000	3,229,000	3,139,000	3,110,000	10,956,000	
Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports						

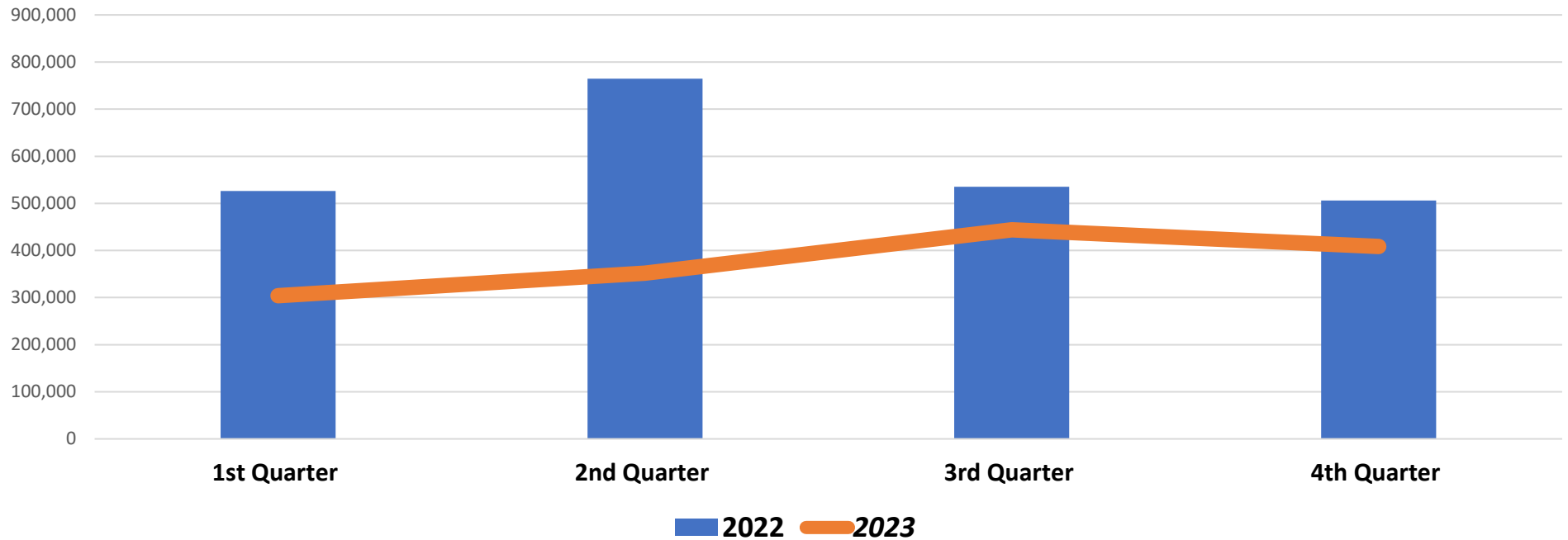
U.S. Domestic Merchant Coke Pricing 2022 v. 2023 (\$/ton)



U.S. Domestic Merchant Coke Pricing						
(\$/ton)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD Average	% +/-
2022	\$379.03	\$415.39	\$223.47	\$215.56	\$308.36	-8.80
2023	\$446.43	\$228.08	\$228.51	\$221.78	\$281.20	

Source: U.S. Energy Information Administration Form EIA-3, Quarterly Survey of Industrial, Commercial, and Institutional Coal Users, EIA Form EIA 7-A, Annual Survey of Coal Production and Preparation, Quarterly Coal Reports and Quarterly Coal Distribution Reports

U.S. Coke Exports 2022 v. 2023 (tons)



U.S. Coke Exports						
(tons)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD	% +/-
2022	526,154	764,674	535,313	505,930	2,332,071	-35.32
2023	304,039	351,741	443,862	408,556	1,508,198	

Source: U.S. Department of Commerce, Monthly Report EM-545; U.S. Energy Information Administration, Quarterly Coal Report

U.S. Coke Exports

2023

(tons)

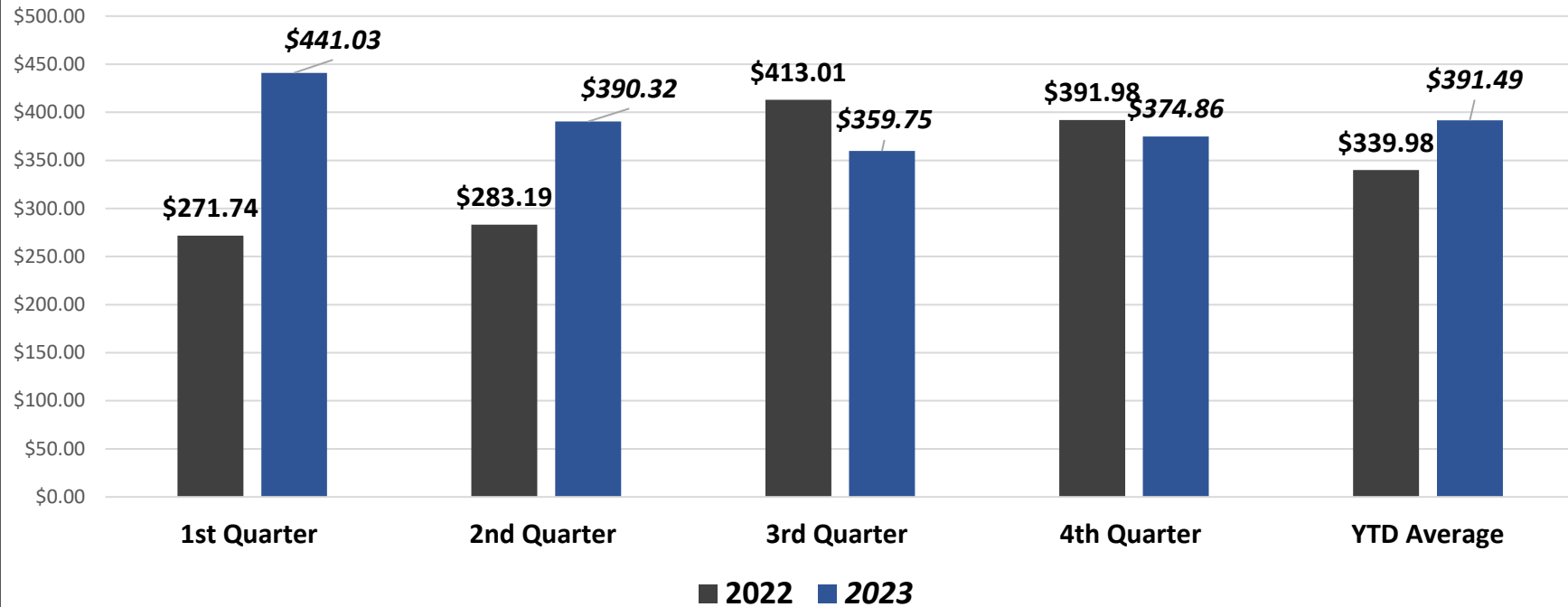
Region	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	2023 Total	YTD %+/-
North America*	179,737	350,767	343,767	331,789	1,206,060	-3.90
South America	93,692	21	100,671	54,378	248,762	-19.80
Europe	30,477	89	50	22,163	52,779	-93.00
Asia	111	818	86	191	1,206	1.60
Australia & Oceania	22	46	38	45	151	-69.90
U.S. Total Coke Exports	304,039	351,741	444,612	408,566	1,508,958	-35.32

Source: U.S. Department of Commerce, Monthly Report EM-545; U.S. Energy Information Administration, Quarterly Coal Report

*Includes coke exports to Canada and Mexico

U.S. Coke Export Pricing 2022 v. 2023

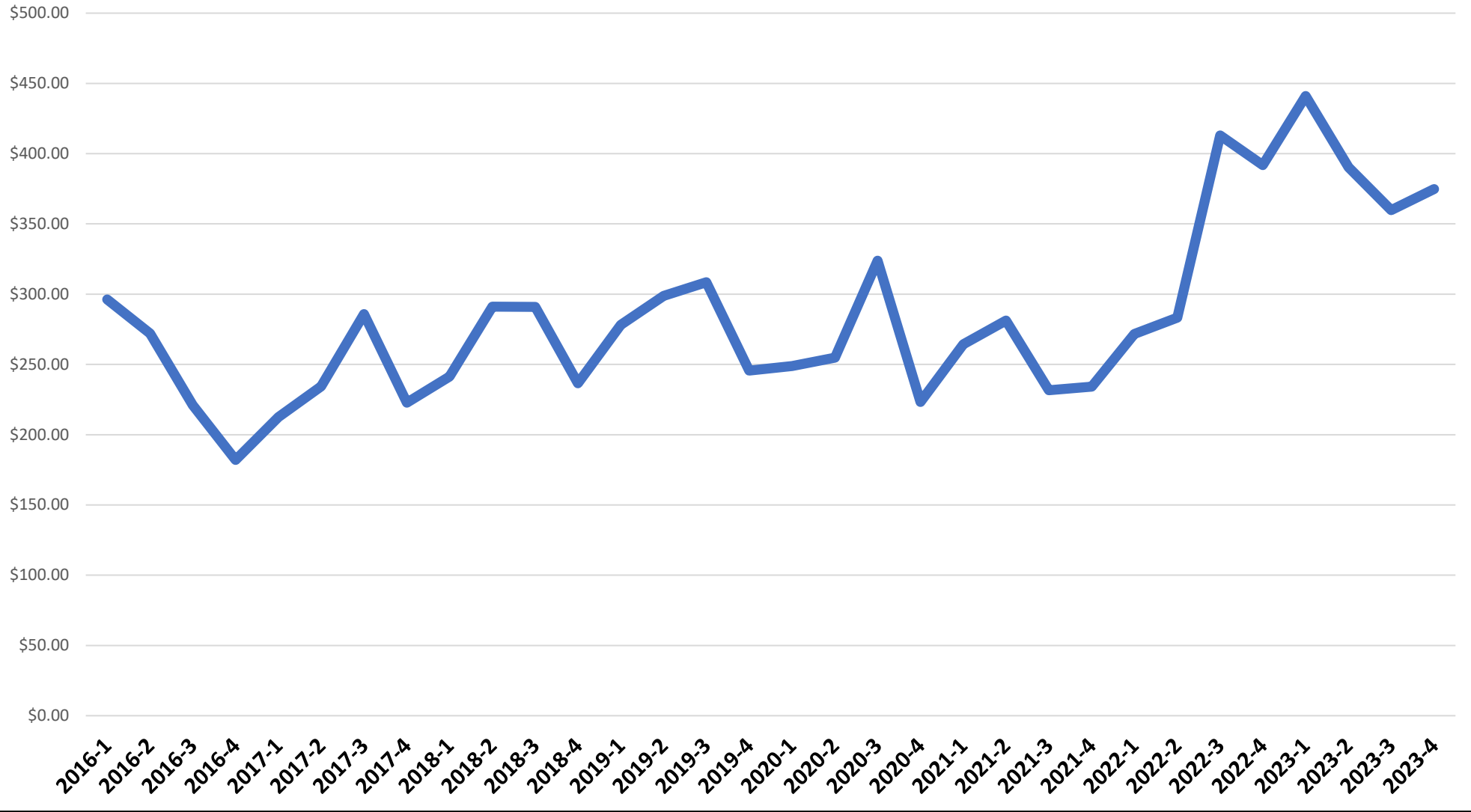
(\$/ton)



U.S. Coke Export Pricing						
(\$/ton)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD Average	% +/-
2022	\$271.74	\$283.19	\$413.01	\$391.98	\$339.98	15.15
2023	\$441.03	\$390.32	\$359.75	\$374.86	\$391.49	

Source: U.S. Department of Commerce, Monthly Report EM-545; U.S. Energy Information Administration, Quarterly Coal Report

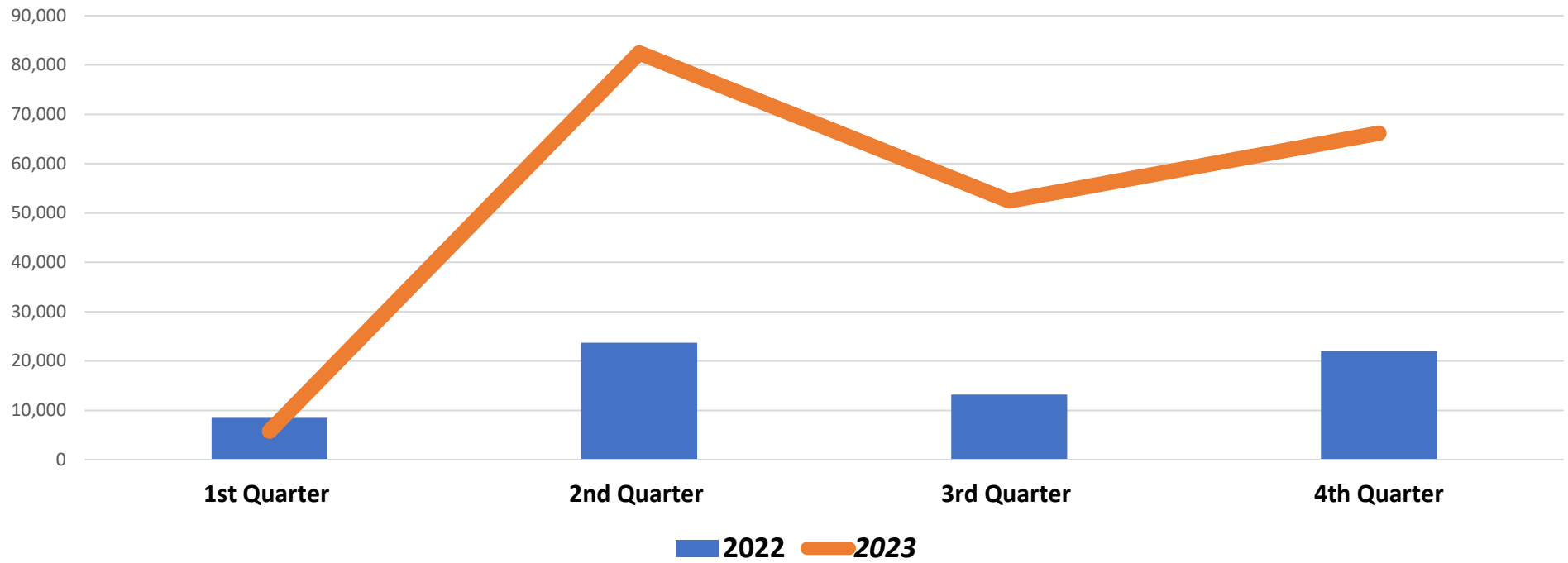
Average Price of U.S. Coke Exports:
2016-2023
(\$/ton)



U.S. Coke Imports

2022 vs. 2023

(tons)



U.S. Coke Imports						
(tons)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD	% +/-
2022	8,498	23,725	13,177	21,993	67,393	206.98
2023	5,775	82,460	52,473	66,179	206,887	

Source: U.S. Department of Commerce, Monthly Report IM-145; U.S. Energy Information Administration, Quarterly Coal Report

U.S. Coke Imports

2023

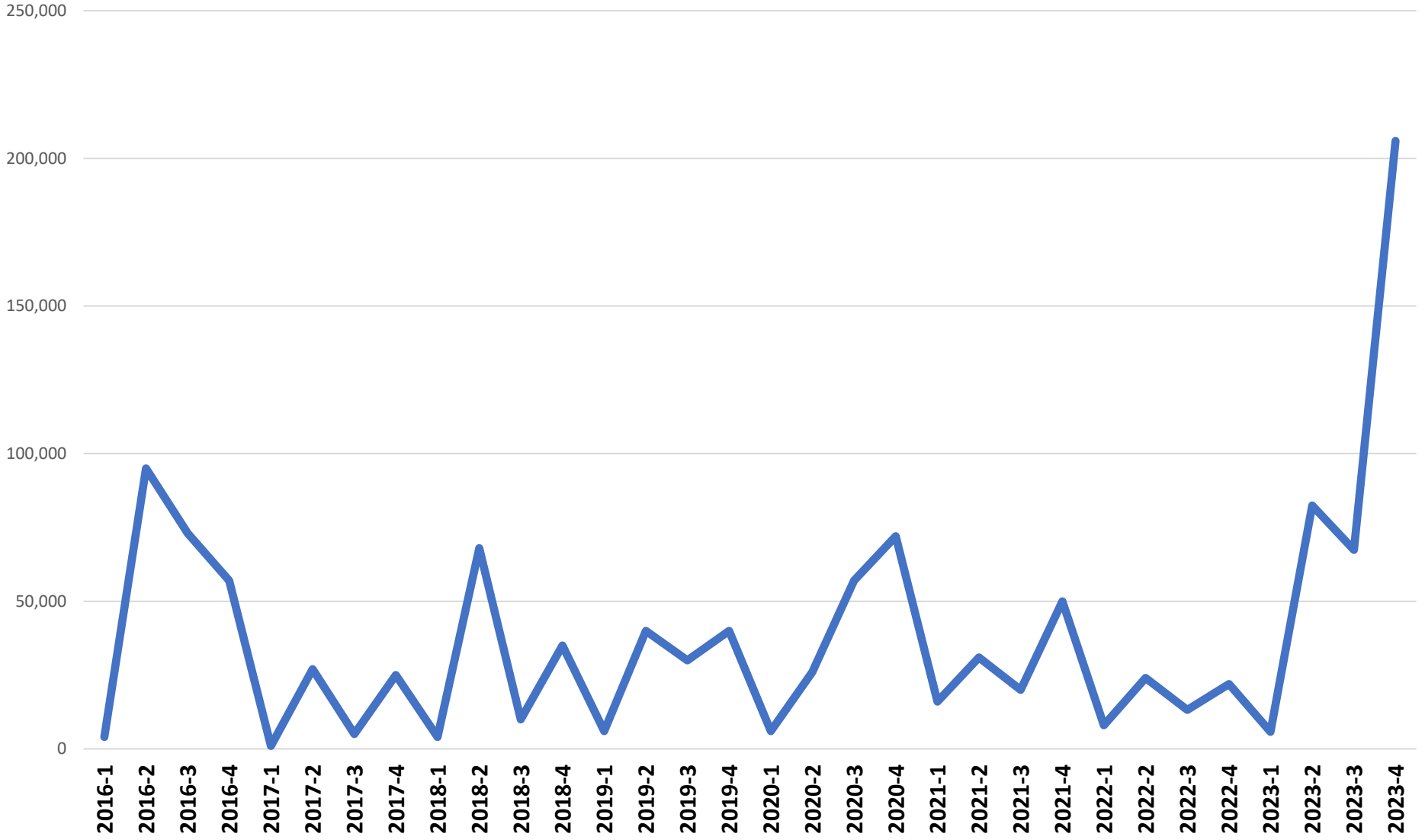
(tons)

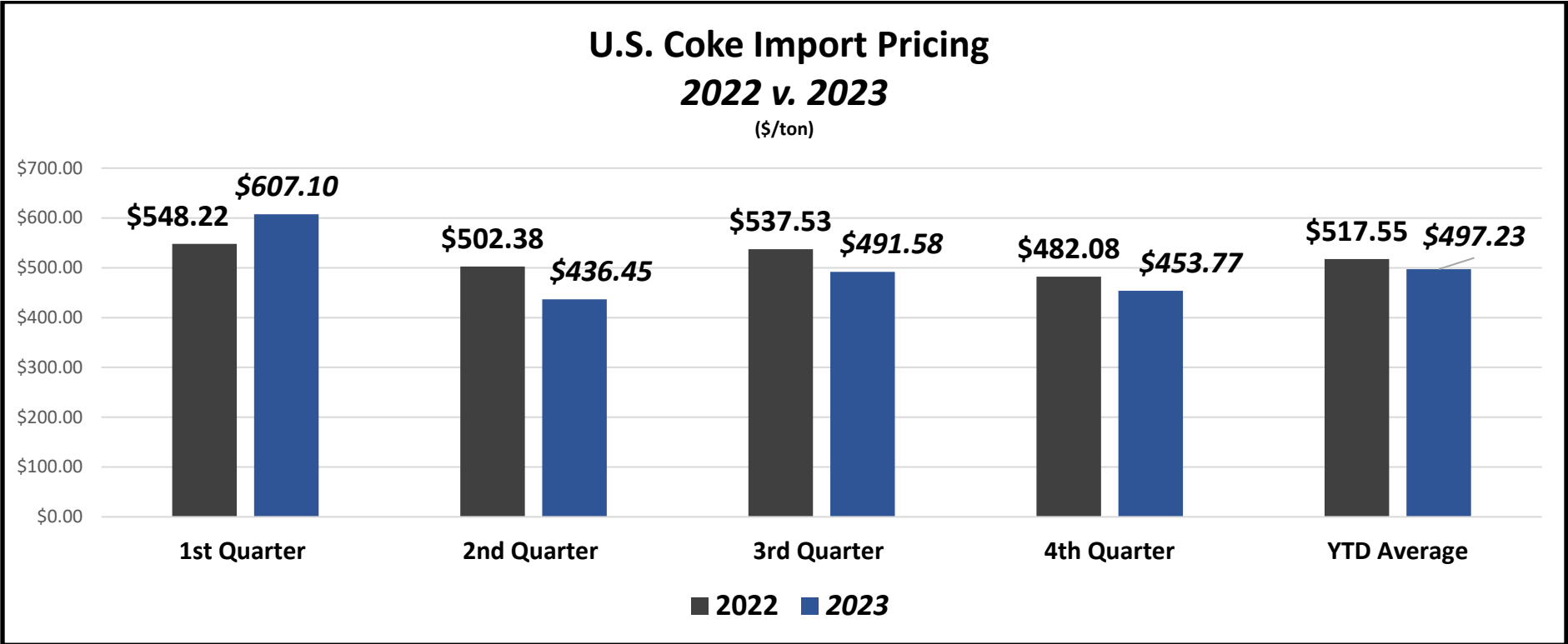
Region	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	2023 Total	YTD %+/-
North America*	196	39,794	27,164	15,597	82,751	s
South America	0	14,793	0	0	14,793	s
Europe	14	21,288	23,186	45,512	90,000	258.70
Asia	281	219	29	1	530	-72.70
Africa	5,284	6,366	2,094	5,069	18,813	-3.60
U.S. Total Coke Imports	5,775	82,460	52,473	66,179	206,887	206.98

Source: U.S. Department of Commerce, Monthly Report EM-545; U.S. Energy Information Administration, Quarterly Coal Report

*Includes coke imports from Canada and Mexico

U.S. Coke Imports: 2016-2023 (tons)

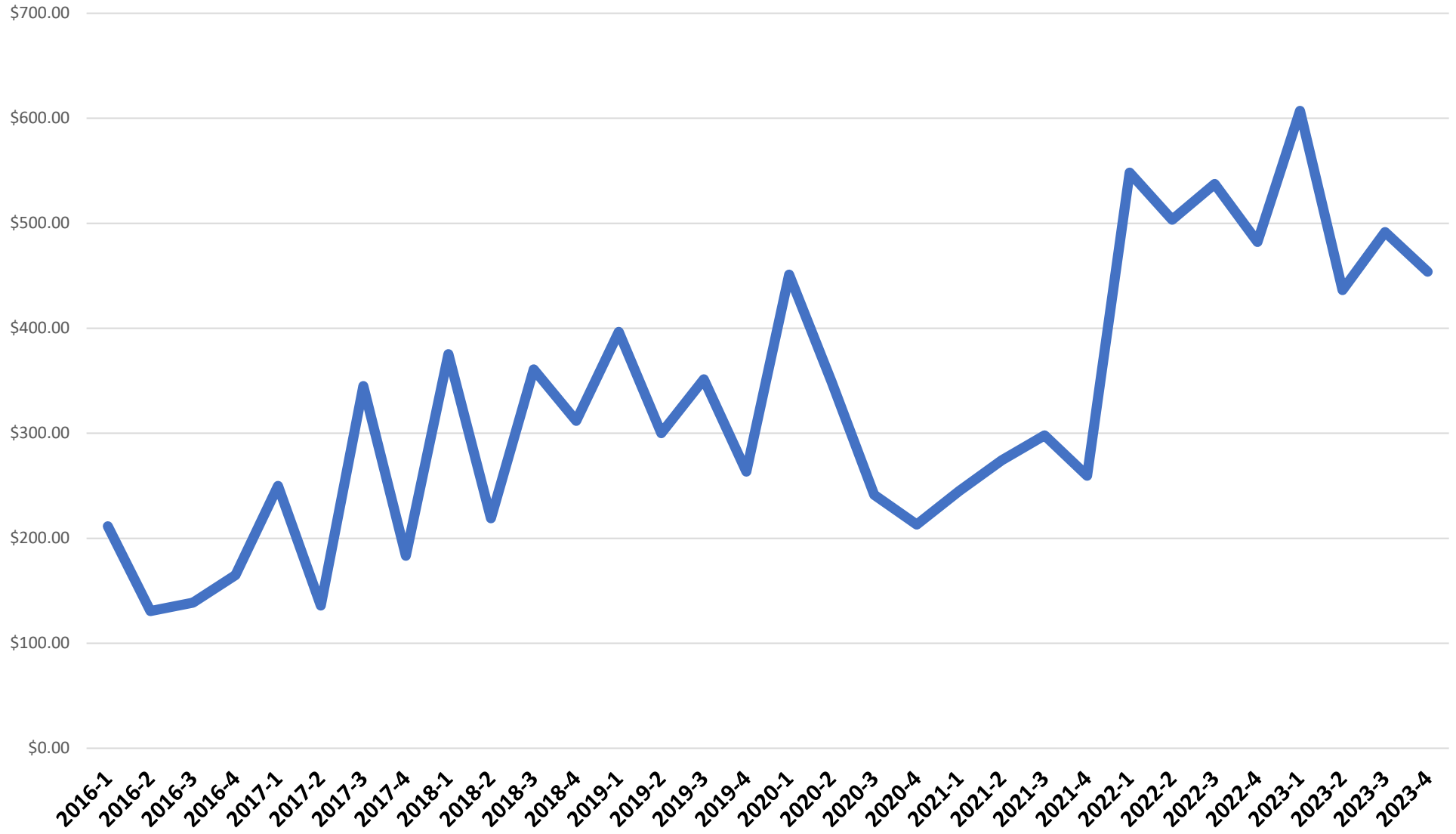




U.S. Coke Import Pricing						
(\$/ton)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD Average	% +/-
2022	\$548.22	\$502.38	\$537.53	\$482.08	\$517.55	-3.96
2023	\$607.10	\$436.45	\$491.58	\$453.77	\$497.23	

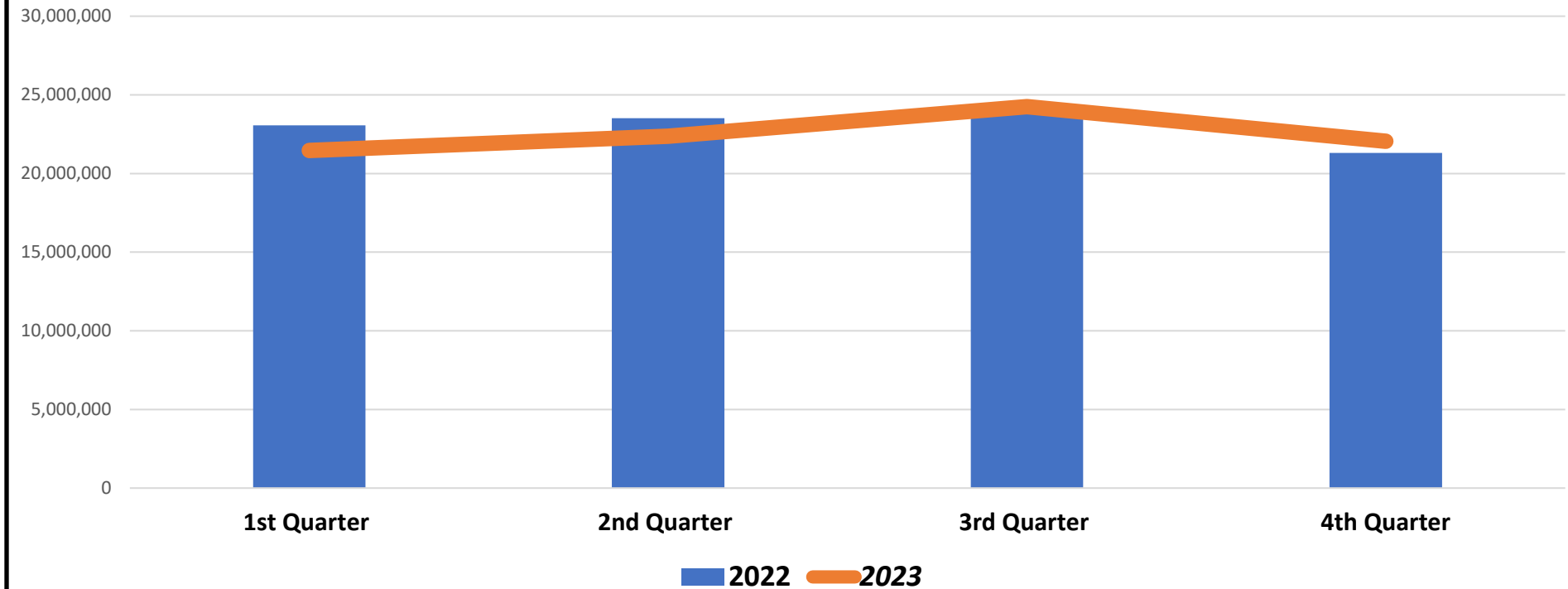
Source: U.S. Department of Commerce, Monthly Report IM-145; U.S. Energy Information Administration, Quarterly Coal Report

Average Price of U.S. Coke Imports:
2016-2023
(\$/ton)



U.S. Raw Steel Production 2022 v. 2023

(ton)



U.S. Raw Steel Production						
(tons)						
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	YTD Total	% +/-
2022	23,059,000	23,510,000	24,276,000	21,312,000	92,157,000	-2.19
2023	21,464,000	22,367,000	24,250,000	22,054,000	90,135,000	

Source: American Iron & Steel Institute, Report AIS-7; World Steel Association