

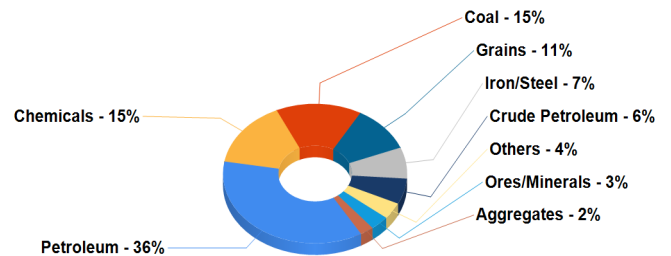
ERDC
Carts: Christina Salhus, Austin Davis, Scott Bourne

2023 State Quick Facts (Tons in Millions)

| | |
|-----------------------------|---------|
| Tons Shipped - | 40.3 |
| Tons Received - | 24.4 |
| Tons Shipped Within State - | 14.4 |
| Total Commercial Docks - | 171 |
| Total Value (Billions)- | \$13.38 |
| Total Domestic Tons - | 79.0 |
| Total Import Tons - | 0.0 |
| Total Export Tons - | 0.0 |
| Total Tons - | 79.0 |

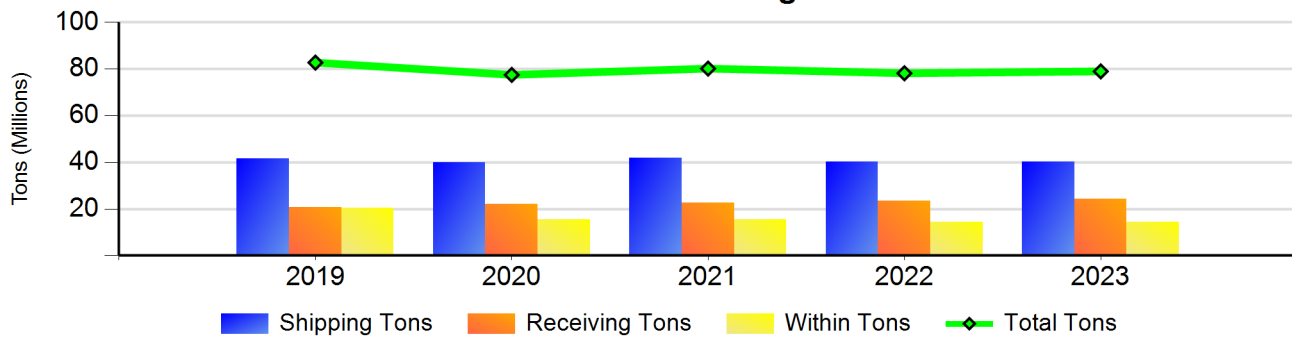
Source: Waterborne Commerce Statistics. Values estimated from 2019 NDSU UGPTI Commodity Valuation Study, values indexed by PPI to 2023 price level. (Commodity dollar values are not calculated for foreign movements)

2023 All Traffic Commodity Value Distribution



Source: Waterborne Commerce Statistics. Values estimated from 2019 NDSU UGPTI Commodity Valuation Study, values indexed by PPI to 2023 price level. (Commodity dollar values are not calculated for foreign movements). Remaining 0% unable to release due to insufficient operators.

State Five Year Tonnage Trend



Source: USACE Waterborne Commerce Statistics

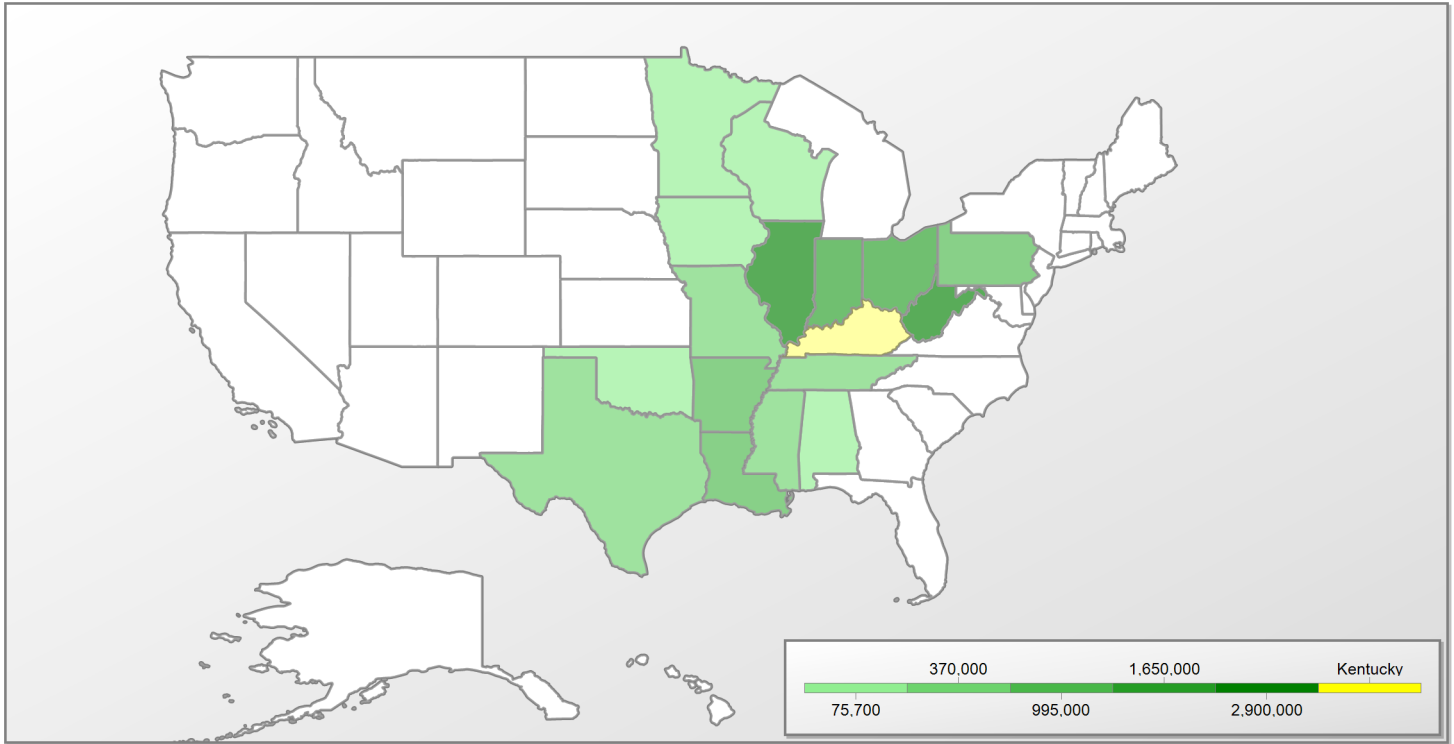
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Kentucky - Continued

2023 States Sending Commodities to Kentucky



Source: USACE Waterborne Commerce Statistics

| State Sending Tons | Total Tonnage Sent to Kentucky | Top Commodity - % of Total Sent to Kentucky |
|--------------------|--------------------------------|---|
| West Virginia | 6,855,160 | ** |
| Louisiana | 4,074,989 | Chemicals-33% |
| Indiana | 3,744,256 | Aggregates-50% |
| Ohio | 3,195,630 | ** |
| Illinois | 2,221,847 | ** |
| Pennsylvania | 1,265,959 | Coal-88% |
| Missouri | 756,976 | ** |
| Arkansas | 682,444 | Petroleum-90% |
| Mississippi | 630,948 | ** |
| Texas | 444,660 | Chemicals-75% |
| Tennessee | 283,602 | Petroleum-83% |
| Alabama | 122,039 | Aggregates-43% |
| Oklahoma | 76,102 | Chemicals-100% |
| Iowa | 3,263 | ** |
| Wisconsin | 3,248 | ** |
| Minnesota | 1,492 | ** |

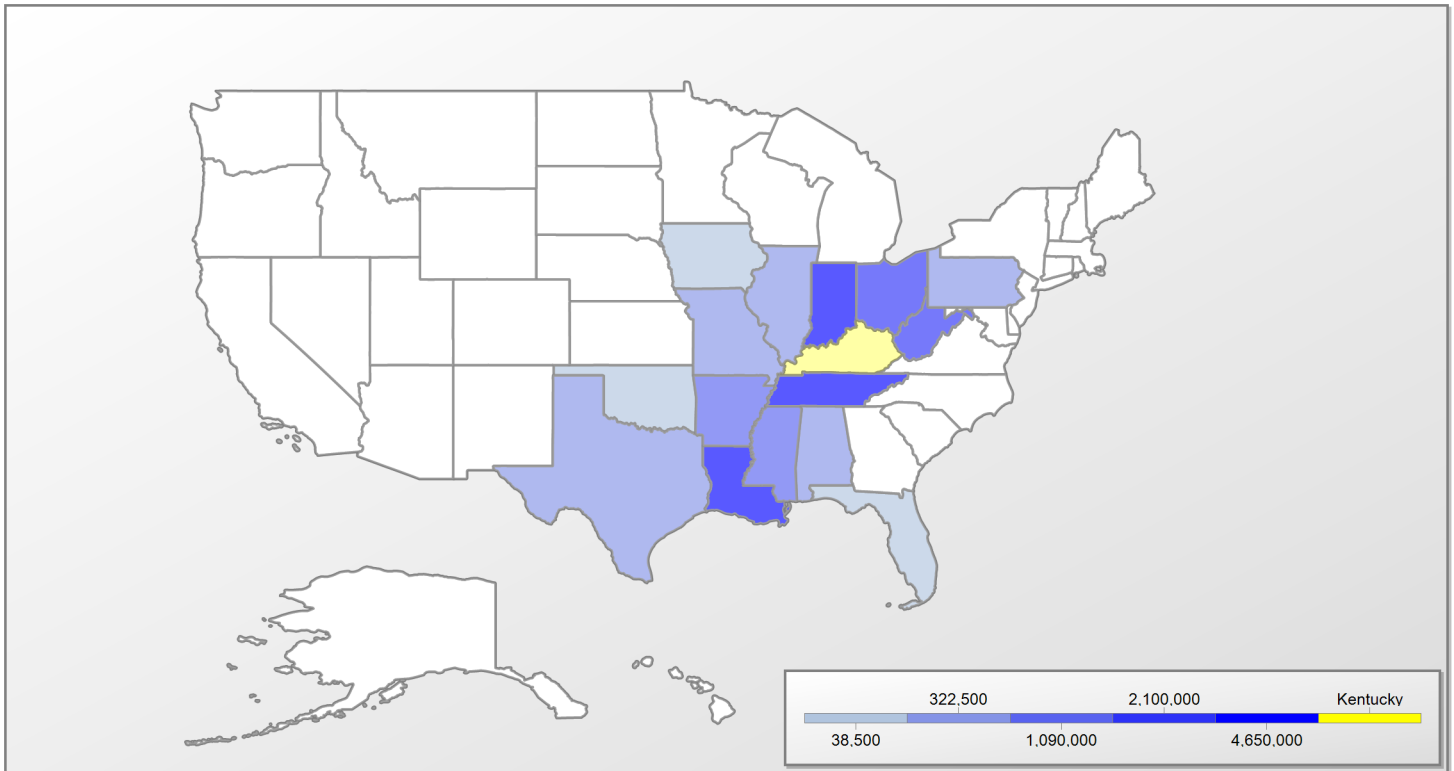
**Unknown and Not Elsewhere Classified Products

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Kentucky - Continued

2023 States Receiving Commodities From Kentucky



Source: USACE Waterborne Commerce Statistics

| State Receiving Tons | Total Tonnage Received from Kentucky | Top Commodity - % of Total Received from Kentucky |
|----------------------|--------------------------------------|---|
| Louisiana | 14,612,136 | Aggregates-42% |
| Tennessee | 9,283,057 | Aggregates-72% |
| Indiana | 3,729,741 | ** |
| Ohio | 3,631,402 | Coal-47% |
| West Virginia | 3,246,697 | Aggregates-75% |
| Mississippi | 1,613,317 | Aggregates-96% |
| Alabama | 842,319 | ** |
| Pennsylvania | 823,594 | ** |
| Arkansas | 780,119 | Aggregates-78% |
| Missouri | 703,397 | ** |
| Texas | 628,215 | Aggregates-89% |
| Illinois | 239,473 | ** |
| Oklahoma | 93,169 | ** |
| Iowa | 38,263 | ** |
| Florida | 12,552 | ** |
| Other | 10,800 | ** |

**Unknown and Not Elsewhere Classified Products

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Kentucky - Continued

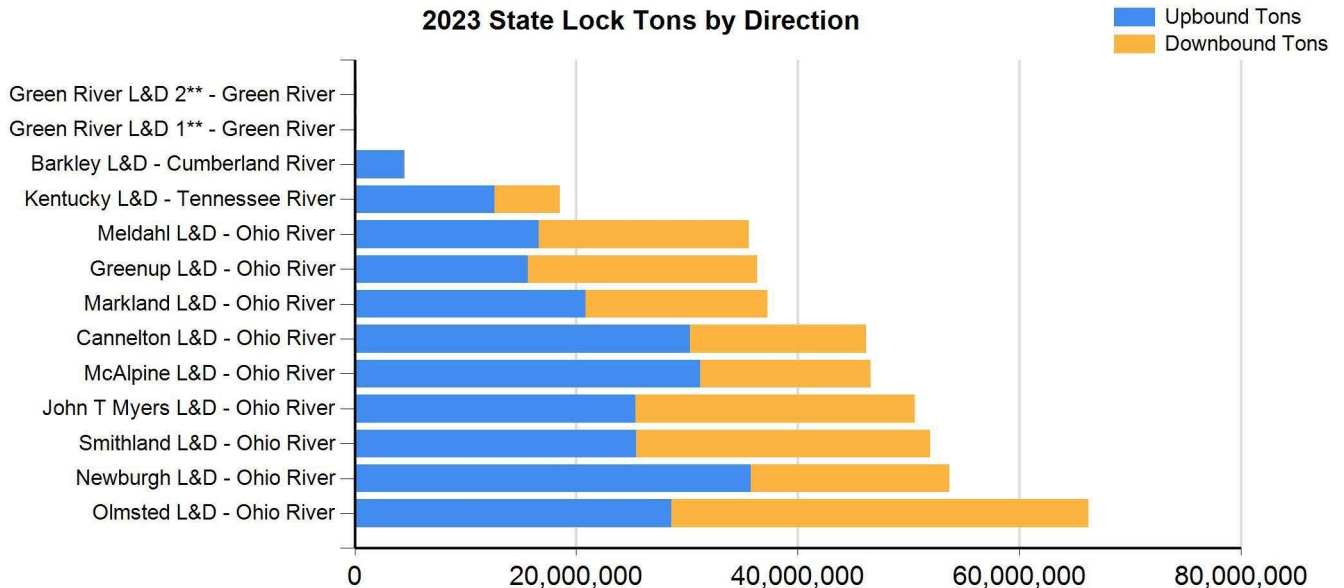
Five Year Trend of Tonnage Shipped or Received in Kentucky

| Commodity Group | Avg Tonnage | % of Total Tons (All Years) | Five Year Commodity Trend (Millions of Tons) | | | | |
|-----------------|-------------|-----------------------------|--|-------|-------|-------|-------|
| Aggregates | 28,349,535 | 36% | 29.33 | 28.59 | 27.60 | 27.24 | 28.99 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |
| Chemicals | 3,049,428 | 4% | 3.04 | 2.97 | 3.19 | 2.95 | 3.10 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |
| Coal | 27,028,179 | 34% | 27.82 | 24.25 | 27.78 | 27.98 | 27.31 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |
| Crude Petroleum | 1,747,437 | 2% | 2.15 | 2.51 | 1.16 | 1.31 | 1.61 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |
| Grains | 5,107,017 | 6% | 5.25 | 5.44 | 5.32 | 4.90 | 4.63 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |
| Iron/Steel | 2,080,159 | 3% | 2.45 | 1.81 | 2.33 | 1.89 | 1.91 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |
| Ores/Minerals | 1,632,752 | 2% | 1.72 | 1.69 | 1.77 | 1.59 | 1.39 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |
| Others | 2,666,437 | 3% | 2.96 | 2.78 | 2.73 | 2.58 | 2.27 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |
| Petroleum | 7,891,915 | 10% | 8.07 | 7.47 | 8.33 | 7.79 | 7.80 |
| | | | 2019 | 2020 | 2021 | 2022 | 2023 |

Source: USACE Waterborne Commerce Statistics

** -Year = Insufficient Operators to Release Tonnage

2023 State Lock Tons by Direction



Source: USACE Waterborne Commerce Statistics

** Insufficient operators to release tonnage

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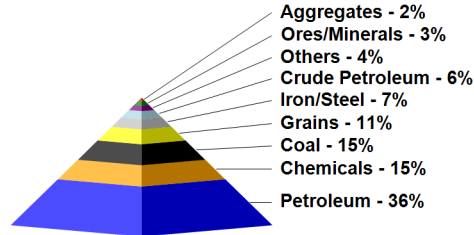
Kentucky - Continued

Domestic Commodity Value Distribution Charts by Waterway Type

Source: Waterborne Commerce Statistics. Values estimated from 2019 NDSU UGPTI Commodity Valuation Study, values indexed by PPI to 2023 price level. (Commodity dollar values are not calculated for foreign movements)

2023 River Traffic Commodity Value Distribution

Total Value: \$13.38 (Billion)



Remaining <1% unable to release due to insufficient operators

Kentucky 2023 Top 5 Waterways

| Waterway Name | State Rank | Tons (Thousands) | Value (Millions) |
|--|------------|------------------|------------------|
| Ohio River | 1 | 53,961.5 | \$7,670.7 |
| Tennessee River, TN, AL and KY | 2 | 10,686.4 | \$1,862.9 |
| Cumberland River | 3 | 7,180.7 | \$269.3 |
| Big Sandy River, Tug and Levisa Forks, KY and WV | 4 | 4,513.6 | \$2,066.7 |
| Licking River, KY | 5 | ** | ** |

Source: USACE Waterborne Commerce Statistics. Values estimated from 2019 NDSU UGPTI Commodity Valuation Study, values indexed by PPI to 2023 price level.
(Commodity dollar values are not calculated for foreign movements)

** Insufficient operators to release tonnage

Kentucky 2023 Top 3 Ports (Tons in thousands)

| Port Name | U.S. Rank | Type | Total Port Tons | Port Tons Within State |
|--|-----------|-------|-----------------|------------------------|
| Cincinnati and Northern Kentucky, OH and KY | 1 | River | 34,571.4 | 23,950.1 |
| Louisville-Jefferson County Port Authority, KY | 10 | River | 9,183.8 | 9,183.8 |
| Paducah-McCracken County Riverport Authority, KY | 14 | River | 7,410.3 | 7,410.3 |

Source: USACE Waterborne Commerce Statistics
Tonnage represents only shipped or received in the state and port, and not necessarily the total port tonnage.

** Insufficient operators to release tonnage