



US Army Corps  
of Engineers

U.S. ARMY CORPS OF ENGINEERS

Louisiana

BUILDING STRONG®

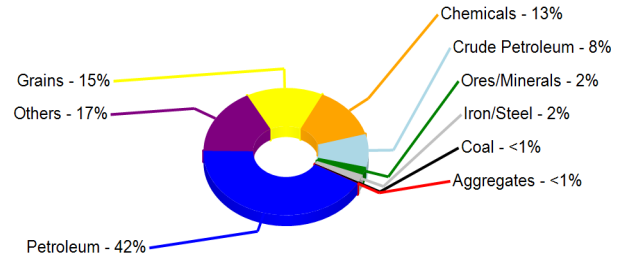


### 2016 State Quick Facts (Tons in Millions)

|                             |          |
|-----------------------------|----------|
| Tons Shipped -              | 256.7    |
| Tons Received -             | 237.7    |
| Tons Shipped Within State - | 51.5     |
| Total Commerical Docks -    | 781      |
| Total Value (billions)-     | \$217.00 |
| Total Domestic Tons -       | 293.6    |
| Total Import Tons -         | 89.3     |
| Total Export Tons -         | 163.0    |
| Total Tons -                | 545.9    |

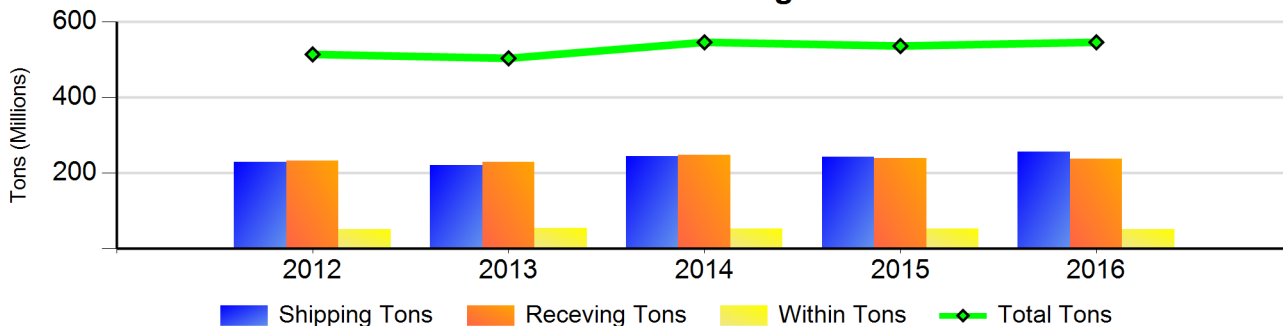
Source: Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level (Commodity dollar values are not calculated for foreign movements)

### 2016 All Traffic Commodity Value Distribution



Source: Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 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

## U.S. ARMY CORPS OF ENGINEERS – PLANNING CENTER OF EXPERTISE FOR INLAND NAVIGATION

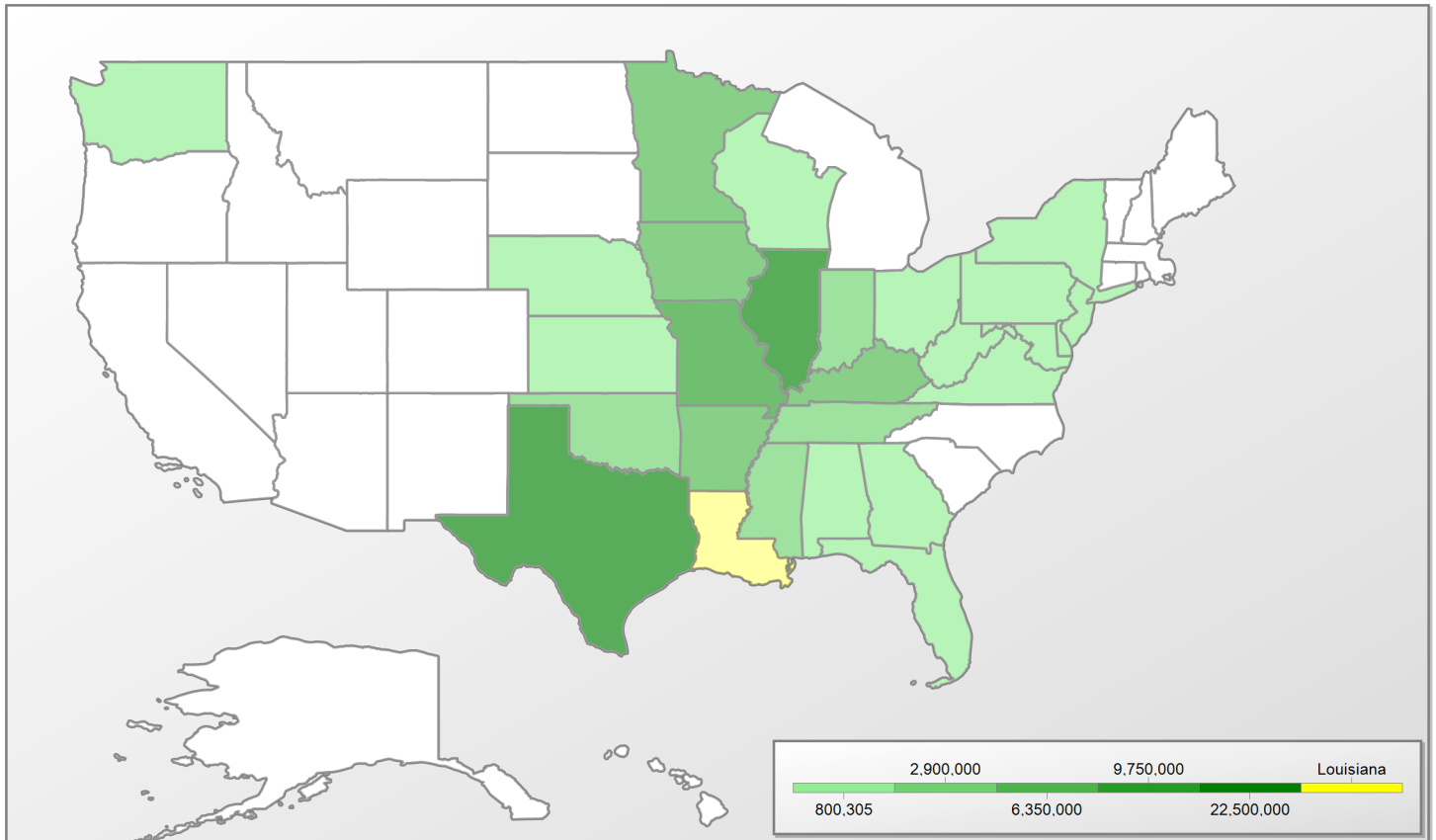
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# Louisiana - Continued

2016 States Sending Commodities to Louisiana



Source: USACE Waterborne Commerce Statistics

| State Sending Tons | Total Tonnage Sent to Louisiana | Top Commodity - % of Total Sent to Louisiana | State Sending Tons  | Total Tonnage Sent to Louisiana | Top Commodity - % of Total Sent to Louisiana |
|--------------------|---------------------------------|--|---------------------|---------------------------------|--|
| Foreign            | 88,591,909                      | Crude Petroleum-39%                          | Wisconsin           | 1516934                         | Grains-100%                                  |
| Illinois           | 44,131,595                      | Grains-76%                                   | West Virginia       | 853332                          | Crude Petroleum-71%                          |
| Texas              | 25,854,518                      | Crude Petroleum-52%                          | Canada              | 704837                          | **   |
| Kentucky           | 15,740,565                      | Aggregates-39%                               | Trans-shipment Area | 401447                          | **   |
| Missouri           | 15,412,433                      | Grains-61%                                   | Pennsylvania        | 66709                           | Petroleum-90%                                |
| Minnesota          | 7,780,953                       | Grains-99%                                   | Kansas              | 50936                           | **   |
| Iowa               | 6,380,400                       | Grains-97%                                   | New Jersey          | 39716                           | **   |
| Indiana            | 5,365,717                       | Grains-77%                                   | Virginia            | 24297                           | **   |
| Mississippi        | 5,116,468                       | Grains-79%                                   | Delaware            | 15955                           | **   |
| Arkansas           | 4,540,483                       | Grains-97%                                   | New York            | 8236                            | **   |
| Tennessee          | 3,749,577                       | Grains-86%                                   | Nebraska            | 4801                            | **   |
| Other              | 2,618,634                       | Others-79%                                   | Georgia             | 4683                            | **   |
| Florida            | 2,580,332                       | **   | Maryland            | 3759                            | **   |
| Alabama            | 2,348,642                       | Petroleum-41%                                | Washington          | 612                             | **   |
| Oklahoma           | 2,124,315                       | Grains-86%                                   |                     |                                 |  |
| Ohio               | 1,709,261                       | Grains-76%                                   |                     |                                 |  |

\*\*Unknown and Not Elsewhere Classified Products

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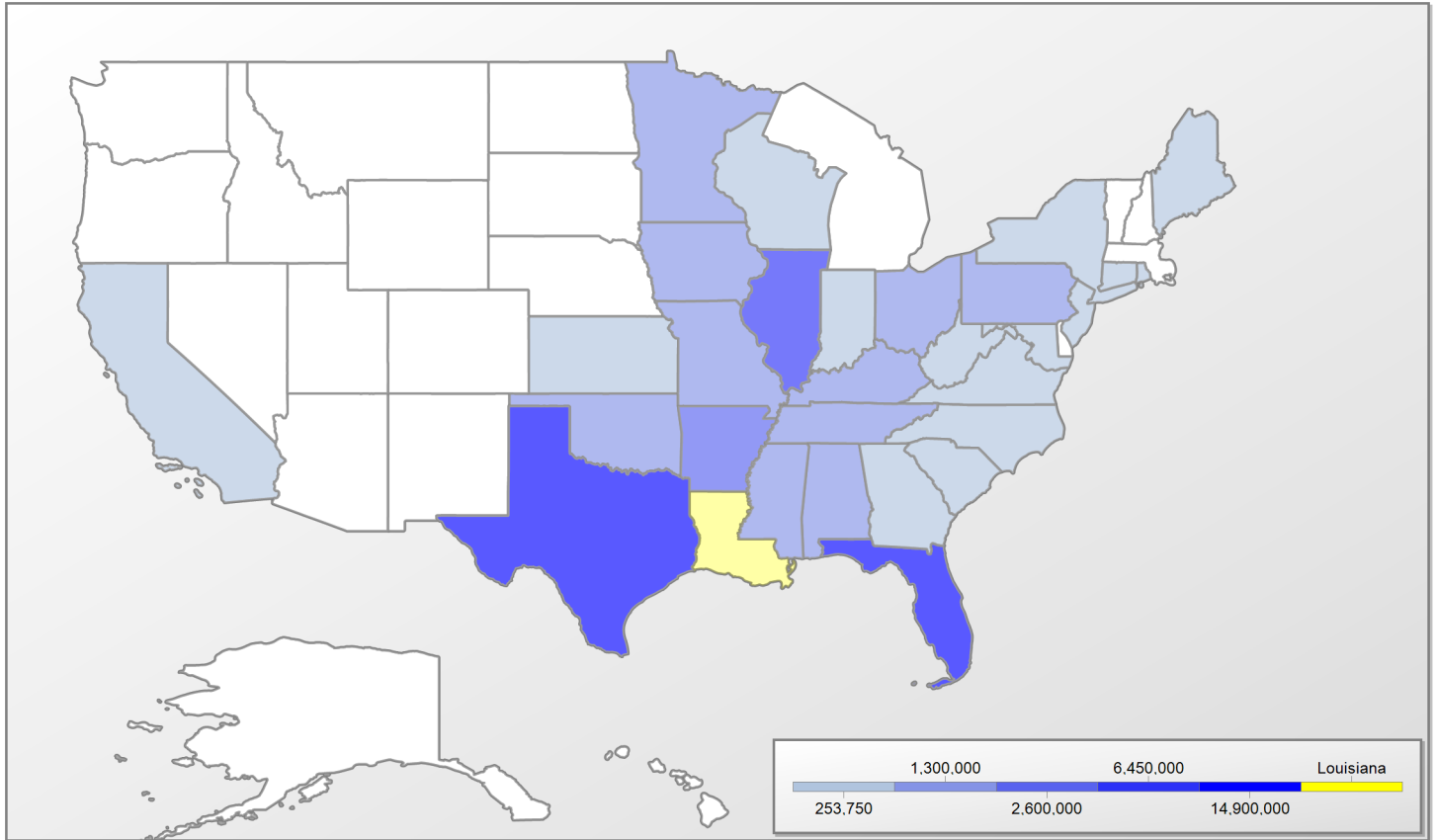
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# Louisiana - Continued

2016 States Receiving Commodities From Louisiana



Source: USACE Waterborne Commerce Statistics

| State Receiving Tons | Total Tonnage Recieved from Louisiana | Top Commodity - % of Total Recieved from Louisiana | State Receiving Tons | Total Tonnage Recieved from Louisiana | Top Commodity - % of Total Recieved from Louisiana |
|----------------------|---------------------------------------|--|----------------------|---------------------------------------|--|
| Foreign              | 159,253,645                           | Grains-56%   | Iowa                 | 1,391,193                             | Chemicals-72%                                      |
| Florida              | 22,861,845                            | Petroleum-86%                                      | Pennsylvania         | 1,371,930                             | Ores/Minerals-40%                                  |
| Texas                | 20,250,684                            | Petroleum-77%                                      | West Virginia        | 925,676                               | Chemicals-35%                                      |
| Illinois             | 8,420,246                             | Chemicals-49%                                      | Puerto Rico          | 461,470                               | **   |
| Alabama              | 5,131,019                             | Crude Petroleum-36%                                | South Carolina       | 362,075                               | Petroleum-95%                                      |
| Kentucky             | 4,037,836                             | Ores/Minerals-38%                                  | North Carolina       | 325,811                               | Chemicals-51%                                      |
| Other                | 4,010,198                             | Others-88%   | Wisconsin            | 320,288                               | Chemicals-44%                                      |
| Ohio                 | 3,974,602                             | Chemicals-42%                                      | New Jersey           | 225,663                               | Petroleum-87%                                      |
| Tennessee            | 3,764,198                             | Ores/Minerals-33%                                  | Georgia              | 179,215                               | Chemicals-87%                                      |
| Canada               | 3,715,208                             | **   | Maryland             | 175,681                               | Petroleum-68%                                      |
| Arkansas             | 3,579,169                             | Iron/Steel-60%                                     | California           | 144,918                               | **   |
| Missouri             | 2,841,791                             | Chemicals-74%                                      | Connecticut          | 96,292                                | **   |
| Minnesota            | 2,696,247                             | Chemicals-73%                                      | Virginia             | 46,723                                | **   |
| Oklahoma             | 2,215,716                             | Chemicals-86%                                      | New York             | 30,818                                | **   |
| Mississippi          | 2,191,821                             | Petroleum-47%                                      | Rhode Island         | 17,862                                | **   |
| Indiana              | 1,627,990                             | Chemicals-28%                                      | Maine                | 14,448                                | **   |
|                      |                                       |  | Kansas               | 7,505                                 | **   |

\*\*Unknown and Not Elsewhere Classified Products

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# Louisiana - Continued

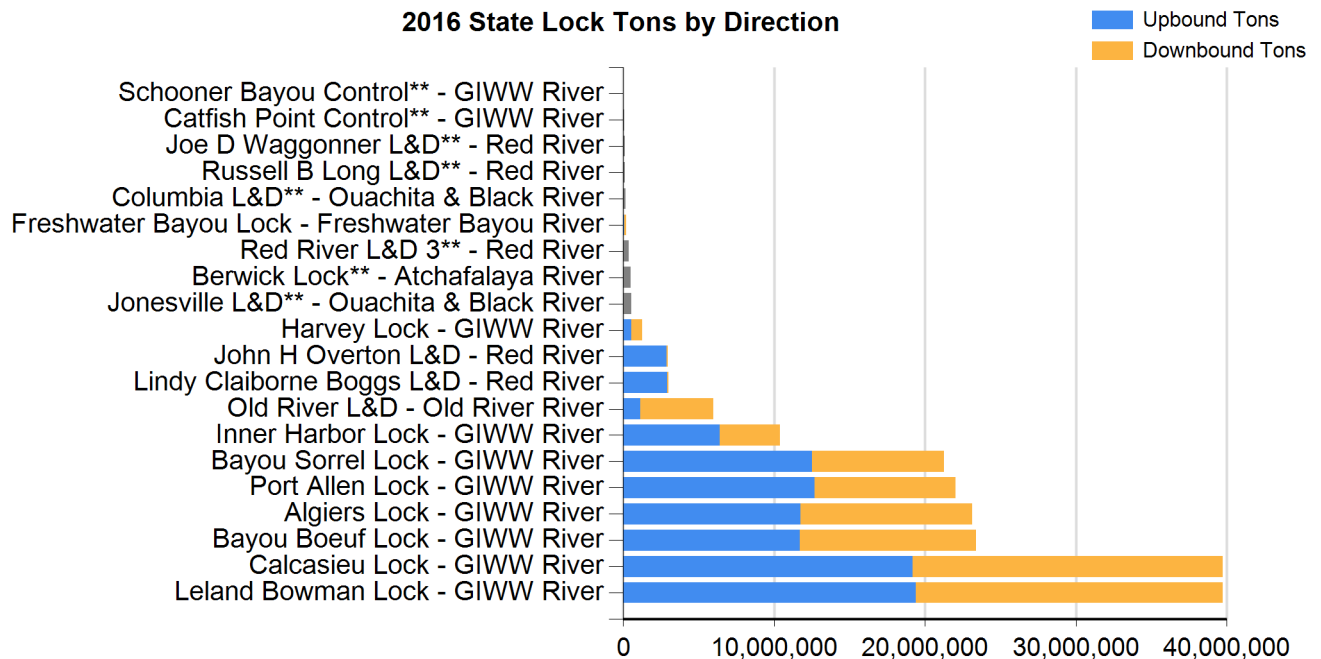
## Five Year Trend of Tonnage Shipped or Received in Louisiana

| Commodity Group | Avg Tonnage (Millions) | % of Total Tons (All Years) | Five Year Commodity Trend (Millions of Tons) |        |        |        |        |
|-----------------|------------------------|-----------------------------|--|--------|--------|--------|--------|
| Aggregates      | 17,623,543             | 3%                          | 17.79  | 19.25  | 17.58  | 17.23  | 16.27  |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |
| Chemicals       | 54,982,711             | 10%                         | 51.17  | 51.21  | 55.16  | 57.27  | 60.10  |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |
| Coal            | 40,204,185             | 8%                          | 69.32  | 52.43  | 32.98  | 26.31  | 19.08  |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |
| Crude Petroleum | 67,108,602             | 13%                         | 60.51  | 65.85  | 71.33  | 72.27  | 65.58  |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |
| Grains          | 147,975,244            | 28%                         | 125.22                                       | 119.48 | 159.54 | 160.77 | 174.86 |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |
| Iron/Steel      | 20,888,787             | 4%                          | 21.51  | 19.37  | 24.61  | 20.65  | 18.31  |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |
| Ores/Minerals   | 22,220,024             | 4%                          | 20.58  | 20.24  | 26.89  | 24.29  | 19.10  |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |
| Others          | 20,182,904             | 4%                          | 20.67  | 19.05  | 20.71  | 20.75  | 19.73  |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |
| Petroleum       | 137,825,792            | 26%                         | 127.11                                       | 136.65 | 136.04 | 136.47 | 152.87 |
|                 |                        |                             | 2012   | 2013   | 2014   | 2015   | 2016   |

Source: USACE Waterborne Commerce Statistics

\*\* - Year = Insufficient Operators to Release Tonnage

## 2016 State Lock Tons by Direction



Source: USACE Waterborne Commerce Statistics

\*\* - Insufficient operators to release directional tonnage

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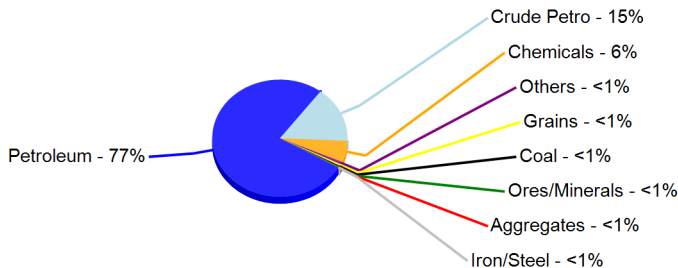
# Louisiana - Continued

## Commodity Value Distribution Charts by Waterway Type

Source: Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level  
(Values Not Calculated for Foreign Movements)

### 2016 Coastal Traffic Commodity Value Distribution

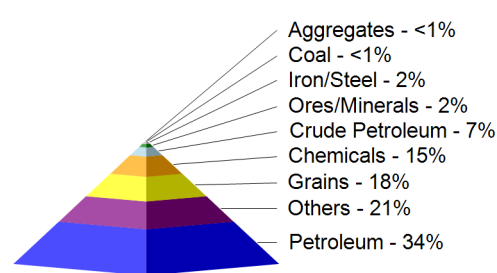
Total Value: \$38.87 (Billion)



Remaining <1% unable to release due to insufficient operators

### 2016 River Traffic Commodity Value Distribution

Total Value: \$178.13 (Billion)



Remaining <1% unable to release due to insufficient operators

### Louisiana 2016 Top 5 Waterways (Tons in thousands; values in Millions of dollars)

| Waterway Name                                   | State Rank | Tons      | Value       |
|---|------------|-----------|-------------|
| Mississippi River                               | 1          | 478,033.8 | \$161,904.1 |
| Lake Charles, LA                                | 2          | 54,040.5  | \$25,542.0  |
| Gulf Intracoastal Waterway                      | 3          | 12,751.5  | \$7,493.7   |
| Bayou Lafourche and Lafourche-Jump Waterway, LA | 4          | 8,432.7   | \$33,749.4  |
| Sabine-Neches Waterway, TX                      | 5          | 4,022.7   | \$6.3       |

Commodity Values not calculated for foreign/coastal movements.

Source: USACE Waterborne Commerce Statistics, Values estimated from 2012 NDSU Commodity Valuation Study, values indexed by CPI to 2016 price level

\*\* Insufficient operators to release tonnage

### Louisiana 2016 Top 3 Ports (Tons in thousands)

| Port Name                    | U.S. Rank | Type          | Total Port Tons | Port Tons Within State |
|------------------------------|-----------|---------------|-----------------|------------------------|
| South Louisiana, LA, Port of | 1         | Coastal       | 261,898.1       | 261,898.1              |
| New Orleans, LA              | 2         | River/Coastal | 90,270.9        | 90,270.9               |
| Baton Rouge, LA              | 4         | River/Coastal | 72,998.6        | 72,998.6               |

Source: USACE Waterborne Commerce Statistics

\*\* Insufficient operators to release tonnage

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