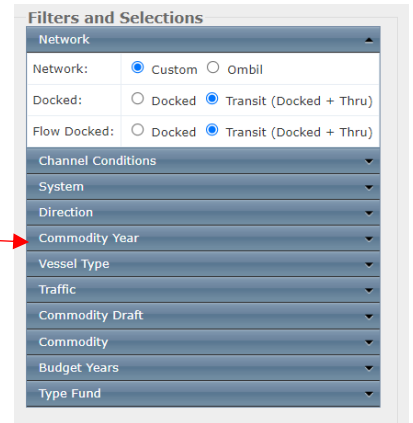


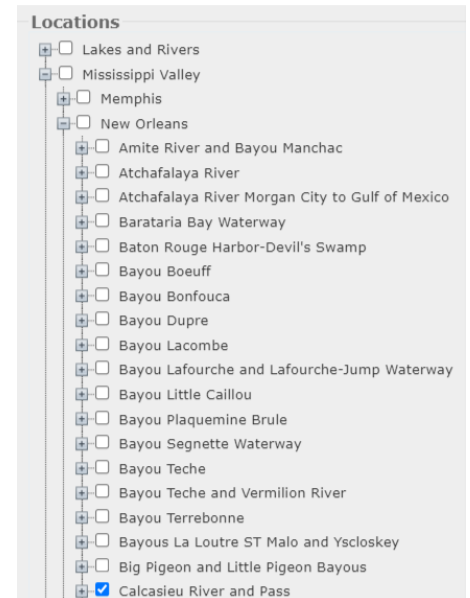
Exercise 1. Running a query and exploring results

1. Log in to CPT at <https://cpt.usace.army.mil/>
2. You will land on the **Preferences** page.
3. Under the **Filters and Selections** panel you will see multiple filter options.
4. Click on **Commodity Year** to open the filter, select **2016**.
5. Click on the **Continue** button.
6. On the **Locations** page, expand the **Mississippi Valley** Division menu by clicking the + icon, expand the **New Orleans** District menu.

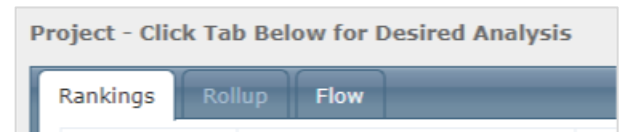


7. Click the checkbox for the **Calcasieu River and Pass** project. This will automatically select all of the reaches within the project. You can view the reaches in the project by clicking on the + icon next to the project name.

Click the **Continue** button.



8. You will arrive at the **Project-level Reports** screen. Click on the **Rankings** tab.
9. *How many rows of results are there?* _____



10. *How many Tons (x1k) are shown for project in 2016?* _____

11. Go to the **Reports** drop-down menu, select **Reach**. → This will now display results for each Reach within the Calcasieu River and Pass Project.



12. Click on the **Rankings** tab.
13. *How many rows of results are there now?*
14. Review the **Rankings** table.

How many Tons(x1k) were carried by the Top 3 reaches in the Calcasieu project?

Reach 1 _____
 Reach 2 _____
 Reach 3 _____

Why might some of reaches in this project carry the same amount of tonnage?

15. Click on the Reach-level **Rollup** tab and review the table named **Reach Rollup – Traffic**.

16. How many different kinds of Traffic are shown? _____

17. Which Traffic category had the most tonnage and dollar value in 2016? _____

18. Look at the bottom of the table to the numbers in bold font, these are the Rollup totals.

Reach Rollup - Traffic

Group by: Draft System Vessel Type Traffic

Order Grid By: Trips Tons Dollars Update

Export to Excel Export to PDF

Drag a column header and drop it here to group by that column

Year	Traffic	Tons (x1k)	Dollars (x1k)	Trips
2016	Internal	19,843.429	\$7,498,529.946	20,320.000
2016	Overseas-Imports	19,532.376	\$4,068,559.814	1,039.000
2016	Overseas-Exports	9,760.756	\$2,991,311.407	1,046.000
2016	Coastwise	5,516.564	\$1,668,670.650	410.000
2016	Local	1,126.991	\$429,109.007	8,892.000
2016	Canadian-Exports	159.863	\$60,270.529	6.000
2016	Canadian-Imports	8.815	\$13,834.283	5.000
		55,948.79	\$16,730,285.64	31,718.00

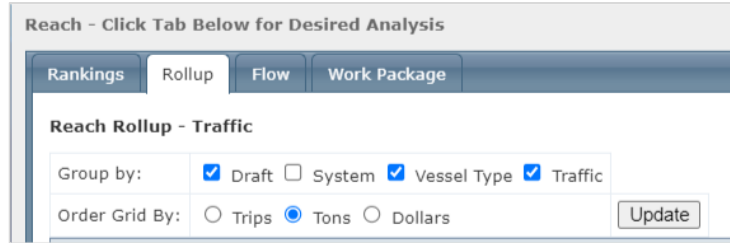
19. What is the **Rollup** number for Tons(x1k) for all of the reaches? _____
Where have you seen this number before?

20. Look back at Step 14, add up the Tons carried by the top 3 reaches from the Rankings table.
What is the total? (a rough estimate is ok) _____

21. How does your answer from Step 20 compare to the answer in Step 19?

22. Does your answer to Step 21 illustrate why you should *never ever* sum up numbers from the **Rankings** table? Let CPT do the Rollup calculations for you to avoid double counting tonnage shared across multiple locations (e.g., multiple reaches in one project, multiple projects, or multiple Districts).

23. Let’s get more detail into the Reach Rollup- Traffic table. In the ‘Group By’ row, check the boxes for **Draft** and **Vessel Type**, then click **Update**.



24. The table should now have more columns, and more rows since the results have been redisplayed with more dis-aggregated information.

Reach Rollup - Traffic

Group by: Draft System Vessel Type Traffic

Order Grid By: Trips Tons Dollars Update

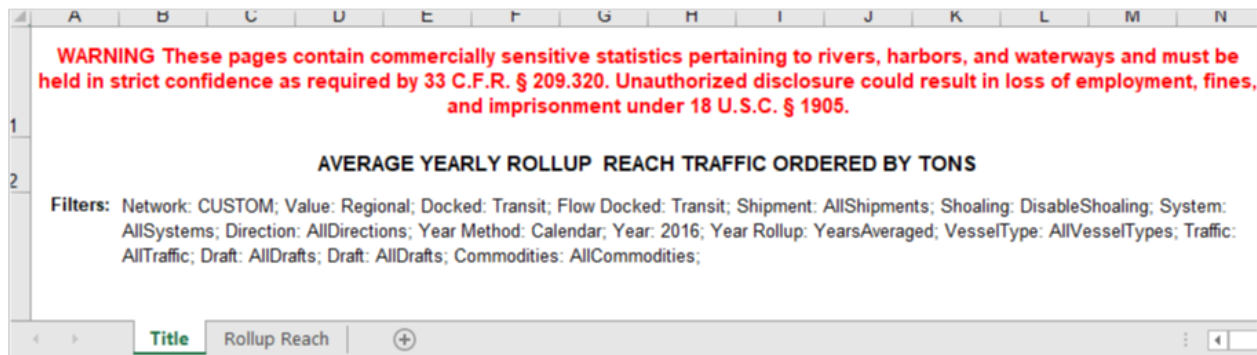
Export to Excel Export to PDF

Drag a column header and drop it here to group by that column

Year	Draft (ft)	Vessel Type	Traffic	Tons (x1k)	Dollars (x1k)	Trips
2016	9	Liquid Barge	Internal	6,574.804	\$2,288,176.412	2,560.000
2016	10	Liquid Barge	Internal	4,840.243	\$1,554,650.410	1,296.000
2016	38	Tanker	Overseas-Imports	4,363.839	\$888,997.915	58.000
2016	39	Tanker	Overseas-Imports	3,299.014	\$683,016.014	42.000
2016	40	Tanker	Overseas-Imports	2,455.283	\$542,927.169	32.000
2016	36	Self-Propelled Dry	Overseas-Imports	2,403.042	\$71,325.229	54.000
2016	37	Tanker	Overseas-Imports	2,111.633	\$452,464.786	29.000
2016	8	Liquid Barge	Internal	1,994.177	\$686,316.606	865.000
				55,948.79	\$16,730,285.64	31,718.00

25. Above the table, find the **Export to Excel** button and click on it. You should get a notification to either open or save the file (this varies depending on your browser settings). Save the file, and then open it.

26. The first tab is named Title, it contains a non-disclosure warning and a record of all the filters that were applied to this query. Do you see “Year: 2016” in the filter list?

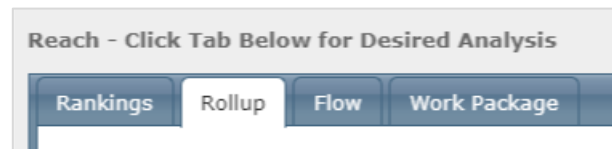


27. The next tab is **Rollup Reach**, this contains the data that was displayed in the table online.

	A	B	C	D	E	F	G
1	Year	Draft	VesselType	Traffic	Tons (x1k)	Dollars (x1k)	Trips
2	2016	9	Liquid Barge	Internal	6,574.804	\$2,288,176.412	2,560
3	2016	10	Liquid Barge	Internal	4,840.243	\$1,554,650.410	1,296
4	2016	38	Tanker	Overseas-Imports	4,363.839	\$888,997.915	58
5	2016	39	Tanker	Overseas-Imports	3,299.014	\$683,016.014	42
6	2016	40	Tanker	Overseas-Imports	2,455.283	\$542,927.169	32
7	2016	36	Self-Propelled Dry	Overseas-Imports	2,403.042	\$71,325.229	54
8	2016	37	Tanker	Overseas-Imports	2,111.633	\$452,464.786	29
9	2016	8	Liquid Barge	Internal	1,994.177	\$686,316.606	865
10	2016	11	Liquid Barge	Internal	1,860.590	\$576,545.354	493
11	2016	35	Tanker	Overseas-Exports	1,536.052	\$588,009.864	48
12	2016	35	Tanker	Overseas-Imports	1,281.670	\$273,352.120	19

28. If your table was *not* displaying information for Draft, Vessel Type, or Traffic when you exported the Excel file those columns will be populated with 'N/A'.

29. Return to CPT in the web browser, and confirm you are on the Reach Rollup tab.



30. Scroll down the page to the table named **Reach Rollup – Commodity**. This table contains commodity information, defaulted to the 2-digit level of detail. (More information about commodity details will be provided in Exercise 2).

Reach Rollup - Commodity							
Export to Excel		Export to PDF		Drag a column header and drop it here to group by that column			
Year	Draft (ft)	Vessel Type	Traffic	Commodity	Tons (x1k)	Dollars (x1k)	
2016	38	Tanker	Overseas-Imports	Crude Petroleum (21)	4,363.563	\$887,624.644	▲
2016	39	Tanker	Overseas-Imports	Crude Petroleum (21)	3,277.722	\$677,781.760	
2016	9	Liquid Barge	Internal	Distillate,Residual & Other Fuel Oils; Lube Oil & Greases (23)	2,649.123	\$1,076,117.449	
2016	40	Tanker	Overseas-Imports	Crude Petroleum (21)	2,455.196	\$542,482.853	▼
					55,948.79	\$16,730,285.64	

Export to Excel Export to PDF

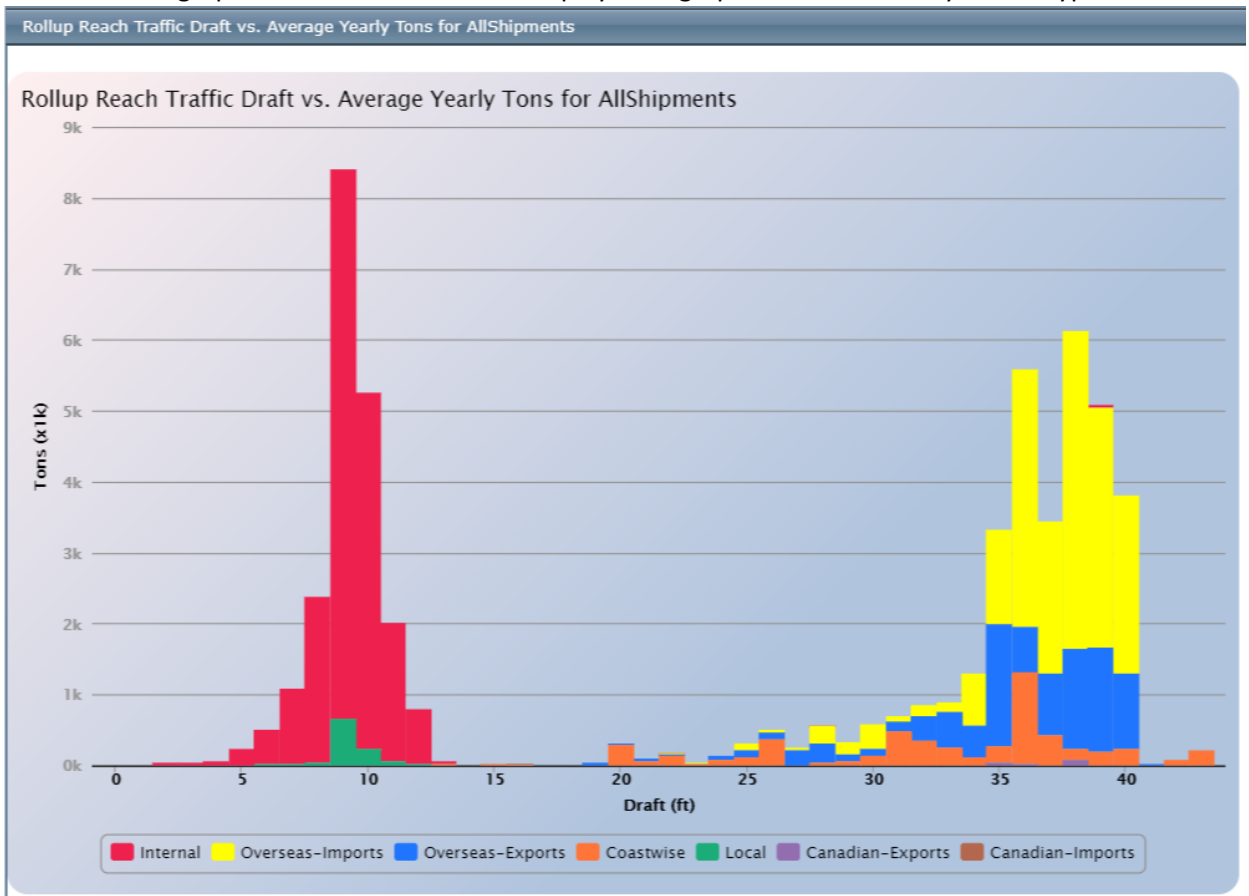
Page 1 of 73 Displaying items 1 - 10 of 730

31. When you adjust the 'Group by' column options at the top of the screen those choices impact both the **Traffic** and the **Commodity** table display. Experiment with that if you wish.

- 32. CPT also pre-generates graphical outputs. Scroll down the page to this section. →
- 33. Click on the row named **Rollup Reach Traffic Draft vs. Average Yearly Tons for All Shipments.**

Axis Controls
Rollup Reach Traffic Draft vs. Average Yearly Tons for AllShipments
Rollup Reach Traffic Draft vs. Average Yearly Dollars for AllShipments
Rollup Reach Traffic Draft vs. Average Yearly Trips for AllShipments
Rollup Reach Commodity Draft vs. Average Yearly Tons for AllShipments
Rollup Reach Commodity Draft vs. Average Yearly Dollars for AllShipments

- 34. A color-coded graph like the one below will display. This graph is color-coded by **Traffic** type.

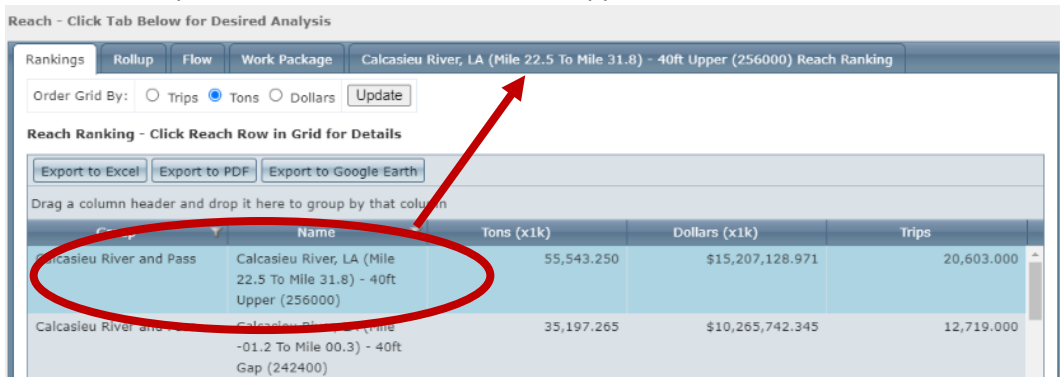


- 35. The Rollup view is showing aggregated results without double-counting, but what if we want to see results for an individual reach within the project? Return to the **Rankings** tab to learn how.

Reach - Click Tab Below for Desired Analysis

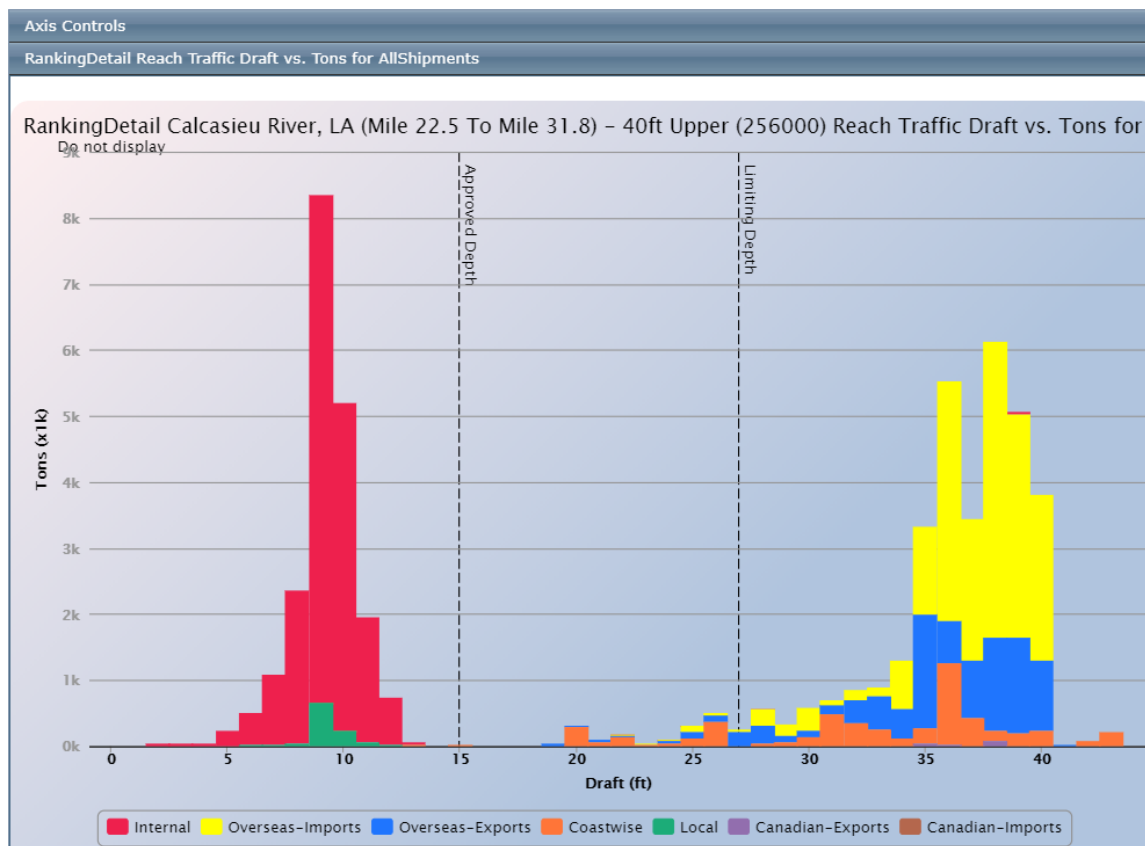
Rankings	Rollup	Flow	Work Package
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36. Click on the top row in the table, a new tab will appear.



37. Click on the new tab, named **Calcasieu River, LA (Mile 22.5 to Mile 31.8) – 40ft Upper (256000) Reach Ranking**.

38. This page has a **Traffic** table, **Commodity** table, and graphs -- just as on the **Rollup** tab. Reach-level graphs will have the reach name written across the top of the graph.



End of Exercise.