

Have students click on the Excel button. This will create an Excel document with all of the same data that has populated on the screen.

Beach Litter Data Exploration

Using this table

Use the inputs to select a State, County, and Beach to get data from. Lastly, select as many Event IDs as you want to pull up data from different dates. You can use the slider in the EventDate column to refine dates as you want. The buttons above the table will export all the data in the format of your choice! This table was produced by Sam Dorn, PhD for use by Loyola Students. Please direct any issues to samuel1.dorn@gmail.com

State: Ohio
County: Cuyahoga
Beach: Huntington Reservation - Huntington Beach
EventID: 9765

Buttons: CSV, **Excel**, Search

EventDate	Year	Month	Date	CityName	WaterbodyName	Type
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 1 Type
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 1 Entangled In
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 2 Type
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 2 Entangled In

Download the Excel document by clicking on the file once it appears at the bottom of the screen.

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5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 2 Entangled In

Beach Litter Data - xls

Click on the yellow 'Enable Editing' button so that students can work to visualize the data into a bar graph.

Beach Litter Data Exploration (7) - Excel

EventDate	Year	Month	Date	CityName	WaterbodyName	Type	num	TotalNum	NumPerHours	percentAbundance
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 1 Type	0	28.2	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 1 Entangled In	0	28.2	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 2 Type	0	28.2	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 2 Entangled In	0	28.2	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Cigarettes/Cigarette Filters	81	28.2	0.28398553	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Cigar tips	22	28.2	0.06496755	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Tobacco packaging/wrap	1	28.2	0.00294953	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Cigarette Lighters	0	28.2	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Food Wrappers (sandy, chips, etc.)	58	28.2	0.17189145	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Take Out/Away Containers (Foam)	0	28.2	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Take Out/Away Containers (Plastic)	2	28.2	0.005899705	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Bottle Caps (Plastic)	11	28.2	0.032448178	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Jars (Plastic)	1	28.2	0.00294953	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Straws/Stirrers	23	28.2	0.06786608	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Forks, Knives, Spoons	3	28.2	0.00848558	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Beverage Bottles (Plastic)	1	28.2	0.00294953	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Cups & Plates (Plastic)	1	28.2	0.00294953	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Cups & Plates (Foam)	3	28.2	0.00848558	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Grocery Bags (Plastic)	2	28.2	0.005899705	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Other Plastic Bags	6	28.2	0.017999115	0
5/26/16	2016	07	13	Bay Village	Lake Erie	St-back-holders	0	28.2	0	0

Have students take note of the Event Date and the City Name.

If students are unfamiliar with the city their beach is in, they could use google maps to find where it is.

Have students go to File > Save As and save the Excel document as the name of their beach and Event ID.

Beach Litter Data Exploration (7) - Excel

Info

Beach Litter Data Exploration (7)

Downloads

Upload

Share

Copy path

Open file location

Protect Workbook

Inspect Workbook

Manage Workbook

Browser View Options

This ensures that they won't need to go back and generate the document from the website again.

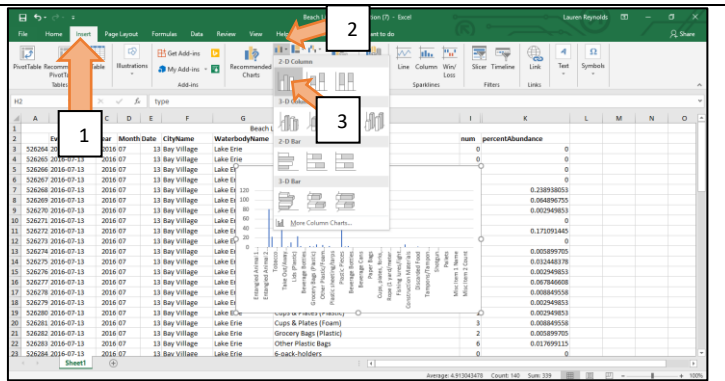
Have students click on the cell that says 'type' and drag down to highlight all the different types of trash and drag to the right to highlight all their numbers in the 'num' column.

Beach Litter Data Exploration (7) - Excel

EventDate	Year	Month	Date	CityName	WaterbodyName	Type	num	percentAbundance
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 1 Type	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 1 Entangled In	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 2 Type	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Entangled Animal 2 Entangled In	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Cigarettes/Cigarette Filters	81	0.28398553
5/26/16	2016	07	13	Bay Village	Lake Erie	Cigar tips	22	0.06496755
5/26/16	2016	07	13	Bay Village	Lake Erie	Tobacco packaging/wrap	1	0.00294953
5/26/16	2016	07	13	Bay Village	Lake Erie	Cigarette Lighters	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Food Wrappers (sandy, chips, etc.)	58	0.17189145
5/26/16	2016	07	13	Bay Village	Lake Erie	Take Out/Away Containers (Foam)	0	0
5/26/16	2016	07	13	Bay Village	Lake Erie	Take Out/Away Containers (Plastic)	2	0.005899705
5/26/16	2016	07	13	Bay Village	Lake Erie	Bottle Caps (Plastic)	11	0.032448178
5/26/16	2016	07	13	Bay Village	Lake Erie	Jars (Plastic)	1	0.00294953
5/26/16	2016	07	13	Bay Village	Lake Erie	Straws/Stirrers	23	0.06786608
5/26/16	2016	07	13	Bay Village	Lake Erie	Forks, Knives, Spoons	3	0.00848558
5/26/16	2016	07	13	Bay Village	Lake Erie	Beverage Bottles (Plastic)	1	0.00294953
5/26/16	2016	07	13	Bay Village	Lake Erie	Cups & Plates (Plastic)	1	0.00294953
5/26/16	2016	07	13	Bay Village	Lake Erie	Cups & Plates (Foam)	3	0.00848558
5/26/16	2016	07	13	Bay Village	Lake Erie	Grocery Bags (Plastic)	2	0.005899705
5/26/16	2016	07	13	Bay Village	Lake Erie	Other Plastic Bags	6	0.017999115
5/26/16	2016	07	13	Bay Village	Lake Erie	St-back-holders	0	0

Next, they will (1) click on 'Insert' in the top toolbar and then (2) on the 'Insert Column or Bar Chart' Icon.

(3) Have them select the 'Clustered Column', which is the first option in the drop-down menu.

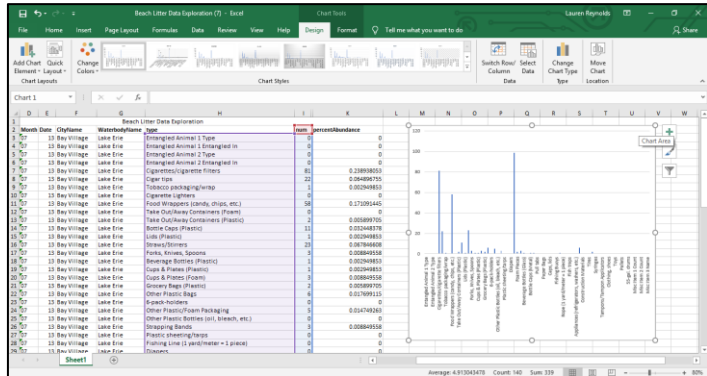


A bar graph will appear in the middle of the screen which they can click and drag to the side of the data.

From there they can drag the sides of the graph to make it easier to read the names of the types of trash below.

There will be many types that have 0, but have students first focus on the trash that is most numerous at their site.

Use the graph to answer the guiding questions.



****Make sure students click on the Save button before exiting out of Excel!****