

## MDMAP Data Analysis: Understanding your Accumulation Figures

This document describes each of the figures created by the MDMAP Data Analysis Template - Accumulation Surveys.

After you copy/paste your data and follow the instructions in tabs 1 and 2, your figures will appear in the last two tabs. In tab 3. *Figures - Debris Counts*, the data displayed are the number of debris items collected over the entire 100 meter transect surveyed. In tab 4. *Figures - Debris Flux*, the data displayed are the debris flux values (number of items collected/m<sup>2</sup>/day). Three figures are created in each of the figure tabs (for a total of 6 figures):

**Tab 3: The figures in tab 3 (Figures 1 -3 below) provide total debris counts (y-axis) per monthly survey (x-axis).**

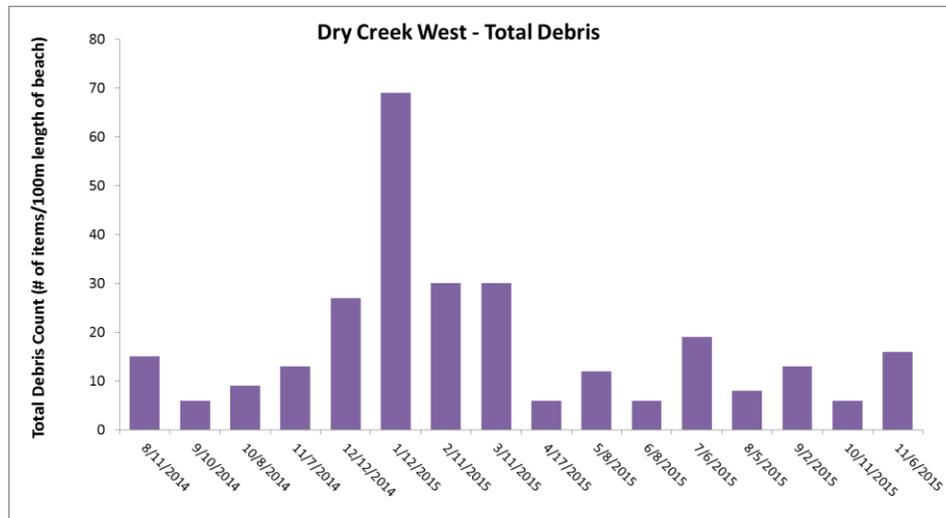


Figure 1: Total debris counts per 100m length of beach.

**Total Debris Counts:** Figure 1 displays the number of debris items recorded and collected over the entire 100 meter site during each monthly clean up. This figure can be used to illustrate snapshots of all debris items collected from monthly beach surveys. Debris counts do not take into account the width of the beach surveyed.

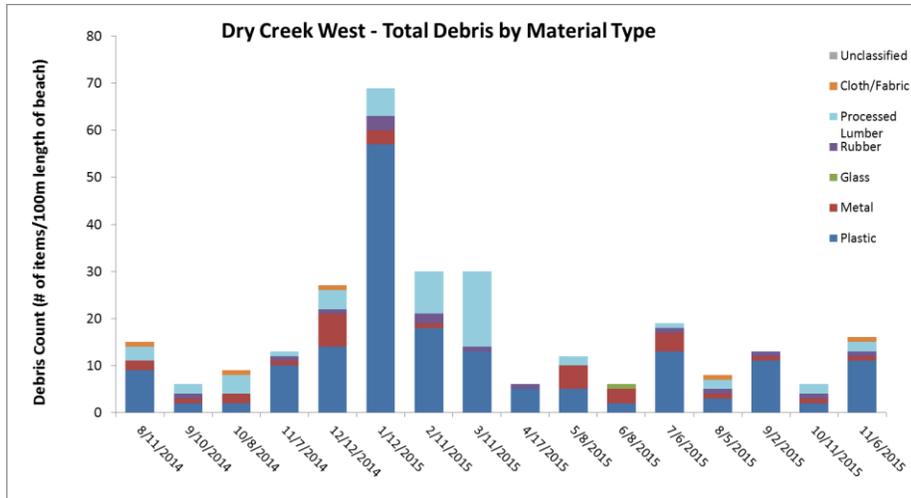


Figure 2: Debris counts per 100m length of beach by material type (plastic, metal, glass, rubber, processed lumber, cloth/fabric, and other/unclassified).

**Total Debris Counts by Material Type:** Figure 2 displays the breakdown of debris items according to the material type of the items. Debris counts are recorded and collected over the entire 100 meter site during each monthly clean up. This figure can be used to illustrate the predominant material type found on a given site. The relative abundances of different material types may vary from month to month. Debris counts do not take into account the width of the beach surveyed.

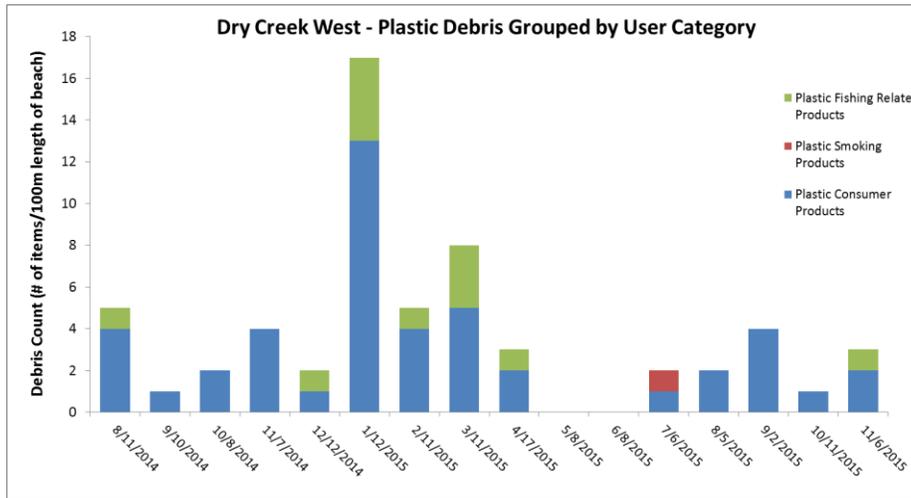


Figure 3: Plastic debris counts per 100m length of beach by user category (plastic consumer products, plastic smoking products >2.5 cm, and plastic fishing related products). Plastic Consumer Products include: *Food Wrappers, Plastic Beverage Bottles, Other Jugs/Containers, Bottle/Container Caps, 6-Pack Rings, Bags, Cups, Plastic Utensils, Straws, Balloons, and Personal Care Products*. Plastic Smoking Products >2.5 cm include: *Cigar Tips, Cigarettes, and Disposable Cigarette Lighters*. Plastic Fishing Related Products include: *Plastic Rope/Net, Buoys & Floats, and Fishing Lures & Line*.

**Total Debris Counts by User Category:** Figure 3 displays the breakdown of plastic debris items according to the user group categories. Debris counts are recorded and collected over the entire 100 meter site during each monthly clean up. This figure can be used to illustrate the types of debris found on a given site. The relative abundances of different types of debris may vary from month to month. Debris counts do not take into account the width of the beach surveyed.

Tab 4: The figures in tab 4 (Figures 4-6 below) provide debris flux (y-axis) per monthly survey (x-axis).

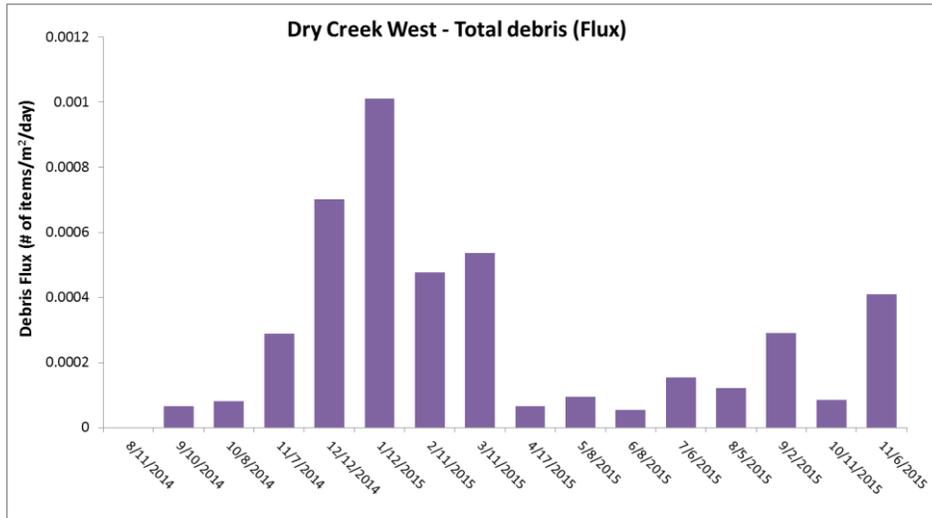


Figure 4: Total debris flux (number of items/m<sup>2</sup>/day)

**Total Debris Flux:** Figure 4 illustrates the flux or deposition rate of debris items at each monthly survey. This figure is best used to display how much debris accumulates on the shoreline monitoring site between surveys. Note that there will be no flux value for the first survey.

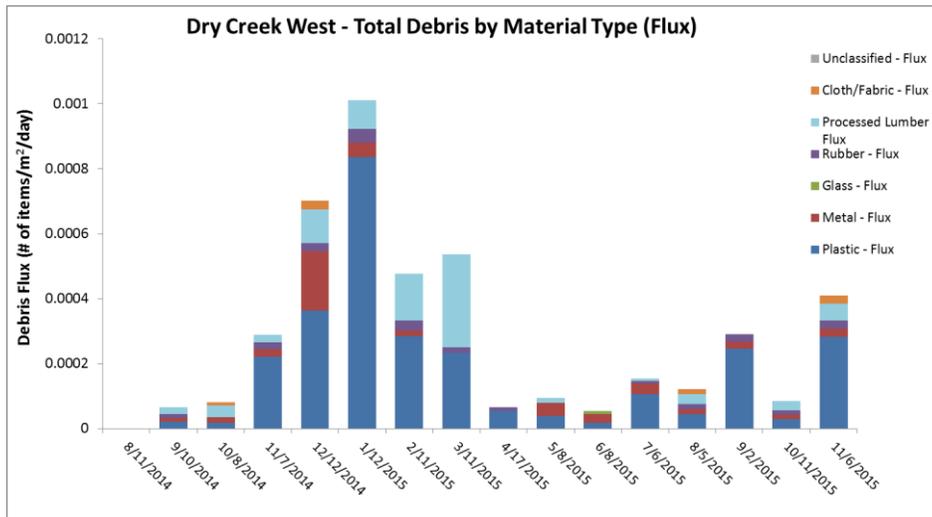


Figure 5: Debris flux (number of items/m<sup>2</sup>/day) by material type (plastic, metal, glass, rubber, processed lumber, cloth/fabric, and other/unclassified).

**Total Debris by Material Type Flux:** Figure 5 illustrates the flux or deposition rate of debris items by material type. This figure is best used to display how much debris accumulates on the shoreline monitoring site between surveys for the various material types. Note that there will be no flux value for the first survey.

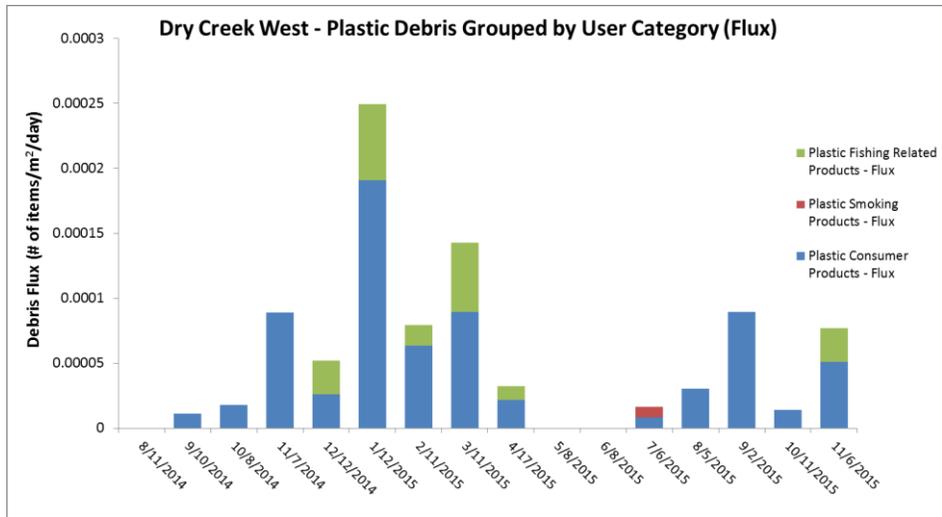


Figure 6: Plastic debris flux (number of items/m<sup>2</sup>/day) by user category (plastic consumer products, plastic smoking products >2.5 cm, and plastic fishing related products). Plastic Consumer Products include: *Food Wrappers, Plastic Beverage Bottles, Other Jugs/Containers, Bottle/Container Caps, 6-Pack Rings, Bags, Cups, Plastic Utensils, Straws, Balloons, and Personal Care Products*. Plastic Smoking Products >2.5 cm include: *Cigar Tips, Cigarettes, and Disposable Cigarette Lighters*. Plastic Fishing Related Products include: *Plastic Rope/Net, Buys & Floats, and Fishing Lures & Line*.

**Total Debris by User Category Flux:** Figure 6 illustrates the flux or deposition rate of plastic debris items by user group type. This figure is best used to display how much plastic debris accumulates on the shoreline monitoring site between surveys for the various user group types. Note that there will be no flux value for the first survey.