



# Informing Future Land Use and Planning

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Use the “Select by Attributes” option of the “Selection” tool to **identify only those parcels that have a majority (>=50%) of undeveloped land use/land cover**. Save this selection as a “Majority Parcels Undeveloped Land Use/Land Cover” layer.

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Use the ArcMap “Zonal Statistics as Table” tool to **determine the depth values** of the 0.2%-annual-chance flood in the parcels in the “Majority Parcels Undeveloped Land Use/Land Cover” layer.

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**Join the resulting “0.2% depth values within parcels with structures” table with the “Majority of Parcels Undeveloped Land Use/Land Cover”** layer, based on the FID field. Export this layer to your geodatabase.

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Add two fields to the layer’s attribute table you just exported and use the “Field Calculator” tool to **calculate the volume of the water** from a 0.2%-annual-chance flooding event in each of the parcels using the following calculations:

**For Cubic Feet:** Select the Sum field and multiply it by 100 to get the amount of water by cubic feet.

**For Acre Feet:** Select the Volume by Cubic Feet field and divide it by 43,560 to get the amount of volume by acre feet.

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**Symbolize the layer** based on the calculated volume of flood water.

**Note:** This map now illustrates the distribution of parcels that have at least one structure on them, have greater than or equal to 50% of undeveloped land use/land cover, and are within the 0.2%-annual-chance depth grid area.

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Examine the results of this analysis to help **visualize the areas with the greatest amount of potential flood volume**. This analysis identifies ways to use the land to reduce flooding risk for current and future structures.