

Hood Canal Building Permits

Questions

Where and when are building permits being issued? How much impervious surface is tied to each permit? Are there any spatial patterns present?

Data Inputs

Jefferson County: Spreadsheets of building permits and shoreline development permits for years 2003, 2004, and 2005; received from the Jefferson County Department of Community Development

Kitsap County: Shapefiles for years 2003, 2004, and 2005 of mobile home lots, mobile home parks, residential bulkheads, and other permit types received from the Kitsap County Department of Community Development

Mason County: Spreadsheets for years 2003, 2004, and 2005 of commercial, shoreline, building, and other permit types received from the Mason County Department of Community Development

All data, except mobile home permits in some cases, included square footage of first-floor impervious surface, permit-issue date, and location of permit via parcel number and address.

Method (simplified)

Convert data from spreadsheet format to GIS format. Clean data, then group by basin and conservation unit. Basin totals, median impervious surface expansion, and other metrics to be calculated. Use spatial statistics to find patterns in the data.

Results

The results show that for most basins, the median lot size within the residential zones is actually lower than the zone requirements. Some patterns were discernable (see map at right) in terms of spatial distribution of permits. Correlations with other variables, such as schools, were not strong.

