

Subject: DES- Stormwater

Capital Programs Response

7/2/2018

The following information is provided in response to a request made by John Vihstadt at the work session on 6/5/2018, regarding the following question:

Please document the trend line of highly impervious surface statistics and how the County measures. How often is the impervious statistic updated?

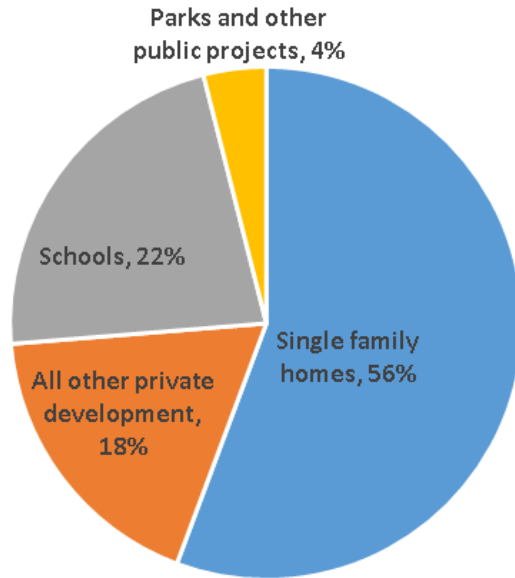
The footprints of major impervious features (buildings, roads, sidewalks, parking lots, etc.) are captured and updated every other year through our Geographic Information System (GIS), an effort that started in 2001. The methodology is not intended as much to capture differences from each update as much as to increase accuracy overall – and there are methodological differences from each update as well. Even so, these data indicate that impervious surfaces are on an upward trend, from an estimate of 40% in 2001 to 45% with the 2017 update.

This trend is supported by the much more detailed data tracked by staff for regulated development activities. Data collected since 2013 tracks impervious surface changes by land use type. These data indicate that regulated development activity is adding an average of nearly 9 acres per year over this time period. For reference, this pace is the equivalent of adding the footprint of the Pentagon (~29 acres) every 3-4 years.

Single family home redevelopment is the largest single source of impervious surface increase – representing nearly 60% over the time period and at this pace adding up to the footprint of the Pentagon every 5-6 years.

Subject:

IMPERVIOUS SURFACE INCREASE REGULATED DEVELOPMENT ACTIVITY 2014 THROUGH 2017



Impervious surface increase, single family development vs all other development types
Start of FY14 through FY17

