

From: [Ierley, Sarah](#)
To: [Goldstein, Scott](#)
Cc: [Vlassopoulos, Demetrios \(Jim\)](#); [Gutschick, Scott](#)
Subject: RE: Proposed Population Density Zones
Date: Friday, June 03, 2016 2:28:34 PM
Attachments: [Population Density Zones CY2016.pdf](#)

Finalized map is attached.

From: Goldstein, Scott
Sent: Thursday, June 02, 2016 1:13 PM
To: Ierley, Sarah
Cc: Vlassopoulos, Demetrios (Jim); Gutschick, Scott
Subject: RE: Proposed Population Density Zones

Sarah,

For closure and clarity – I approve the proposed change in calculation and map development

Please continue --- and provide me a final version of the new map and legend/data table

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From: Ierley, Sarah
Sent: Friday, May 20, 2016 3:58 PM
To: Goldstein, Scott <Scott.Goldstein@montgomerycountymd.gov>
Cc: Vlassopoulos, Demetrios (Jim) <Demetrios.Vlassopoulos@montgomerycountymd.gov>; Gutschick, Scott <Scott.Gutschick@montgomerycountymd.gov>
Subject: Proposed Population Density Zones

I recently reviewed my methodology for calculating the population density zones. In doing so, the population density zones changed. The new methodology and resulting zones are more accurate and easier to keep updated.

Attached you will find two maps – the current zones and the proposed zones.

Here is a break down in the change of calculation:

Current Population Zones

I calculated the population density and zone for each Census block area. Then for each box area, I added up the total mileage of the Census block areas. I assigned the population zone that had the largest square mileage percentage for the box area.

Proposed Population Zones

I run a script that determines the total population in the box area. The script basically cuts the Census blocks and assigns the population to each Box Area. The total population determines the population zone.

The proposed population zones result in more accurate data and in increase in the amount of urban and suburban zone.

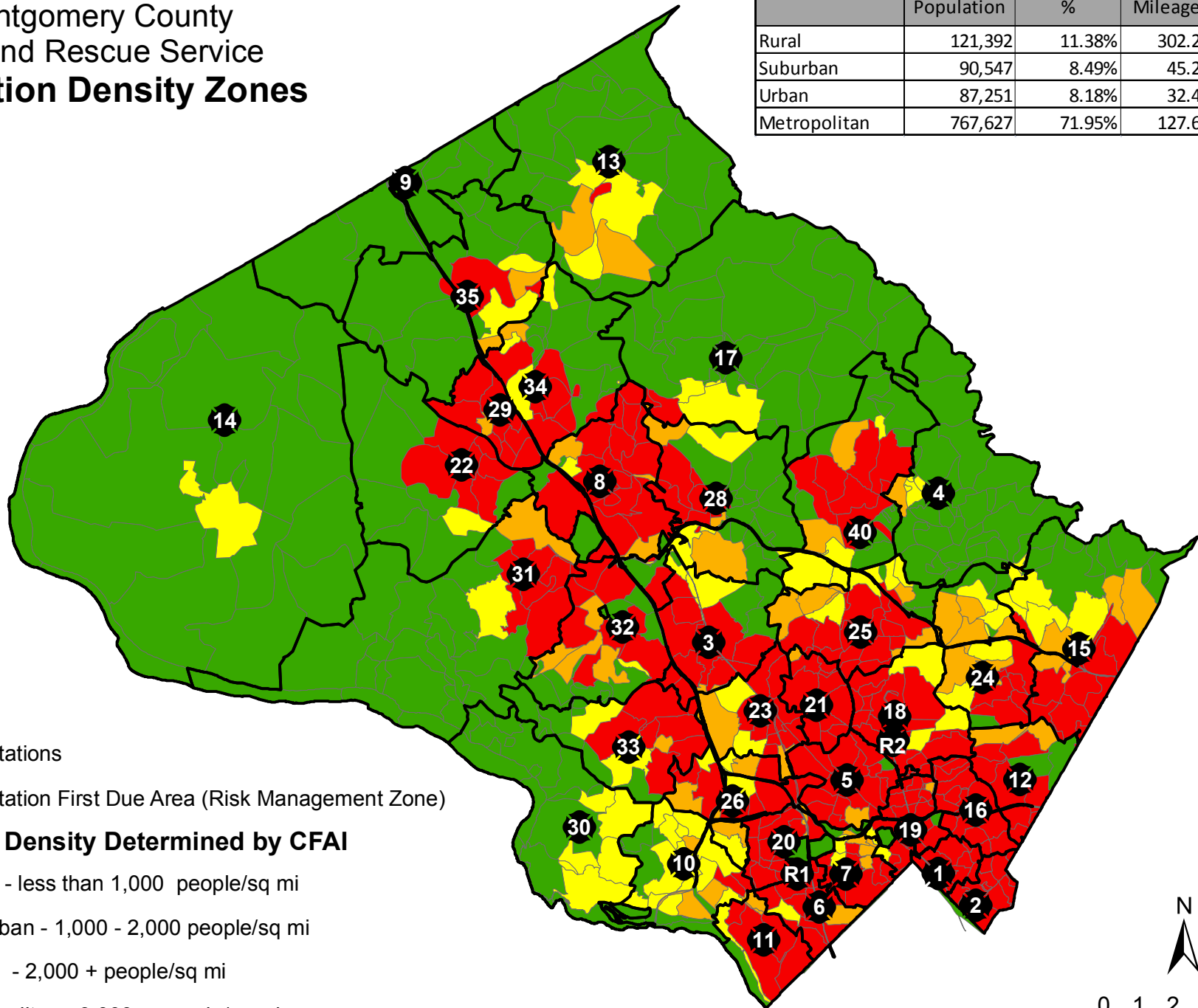
Jim and Scott have reviewed the zones and approve. If we have your approval, I'll move forward with using these zones.



Please let me know if you have any questions –

Sarah





Montgomery County Fire and Rescue Service Population Density Zones

Zone	Est. 2020 Population	Population %	Square Mileage	Square Mileage %
Rural	121,392	11.38%	302.20	59.54%
Suburban	90,547	8.49%	45.20	8.91%
Urban	87,251	8.18%	32.49	6.40%
Metropolitan	767,627	71.95%	127.68	25.16%



-  Fire Stations
-  Fire Station First Due Area (Risk Management Zone)

Population Density Determined by CFAI

-  Rural - less than 1,000 people/sq mi
-  Suburban - 1,000 - 2,000 people/sq mi
-  Urban - 2,000 + people/sq mi
-  Metropolitan - 3,000 + people/sq mi

