

Predictive variables for Measuring and Mapping King County's Residential Transportation GHG Emissions



Regional Location--

- Distance from employment centers
- Travel time to urban centers

Demographics--

- Household size
- Household income
- Number of vehicles per household

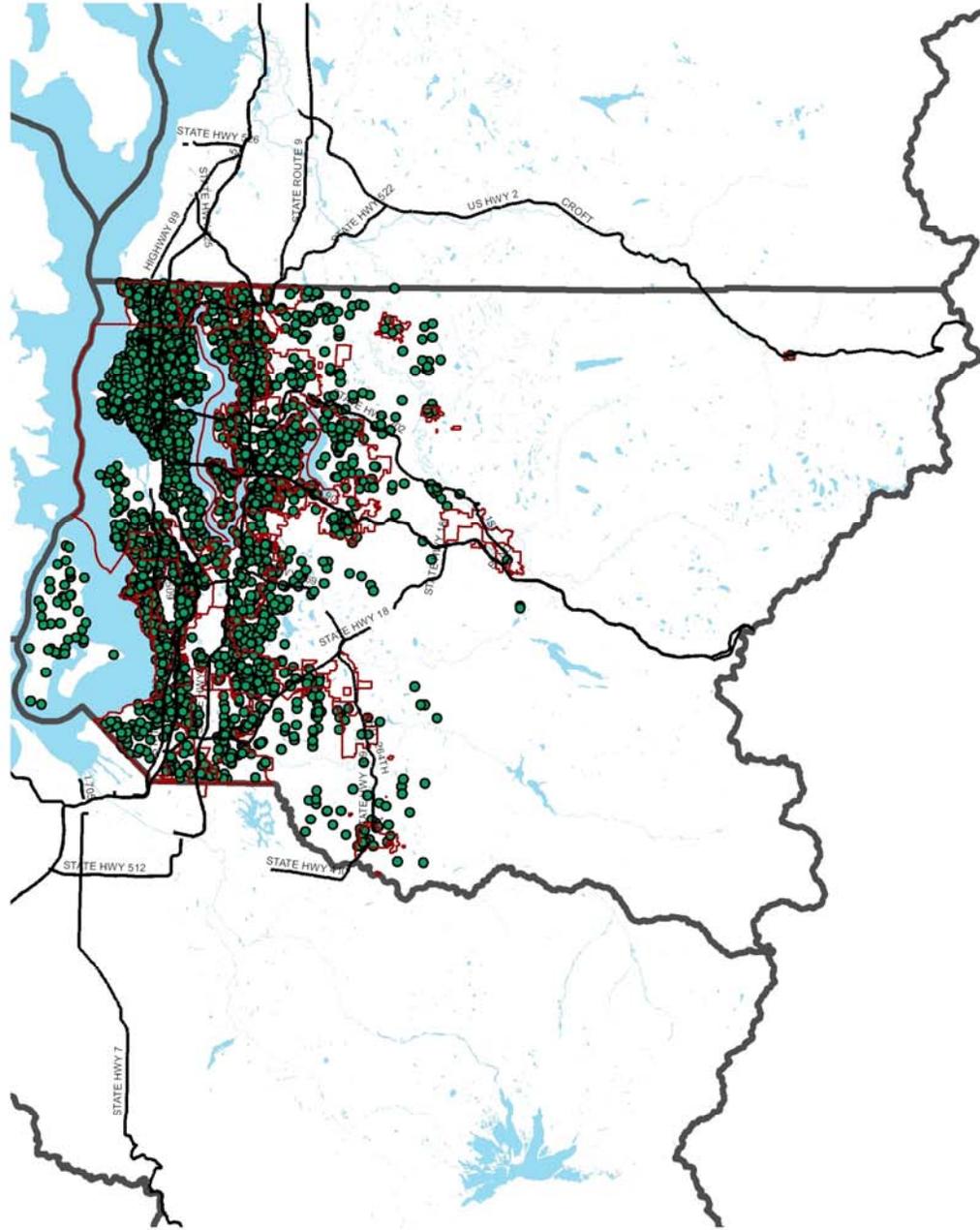
Neighborhood configuration and built environment characteristics--

- Intersection density
- Mixes of uses in buildings and retail floor area ratios
- Transit service levels

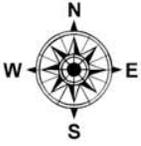
Location of King County Households Participating in 1999 PSRC Travel Diary Survey

3000 data points
from King County

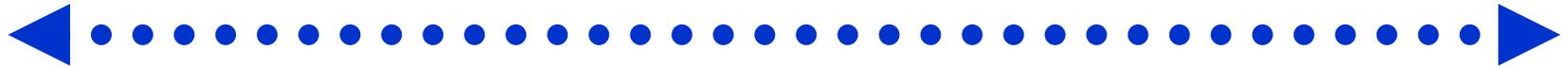
6000 data points
from the 4 PSRC
counties



Legend
Roads and Interstates
King County Municipal Boundaries
King County Households
County Boundaries
Major Bodies of Water



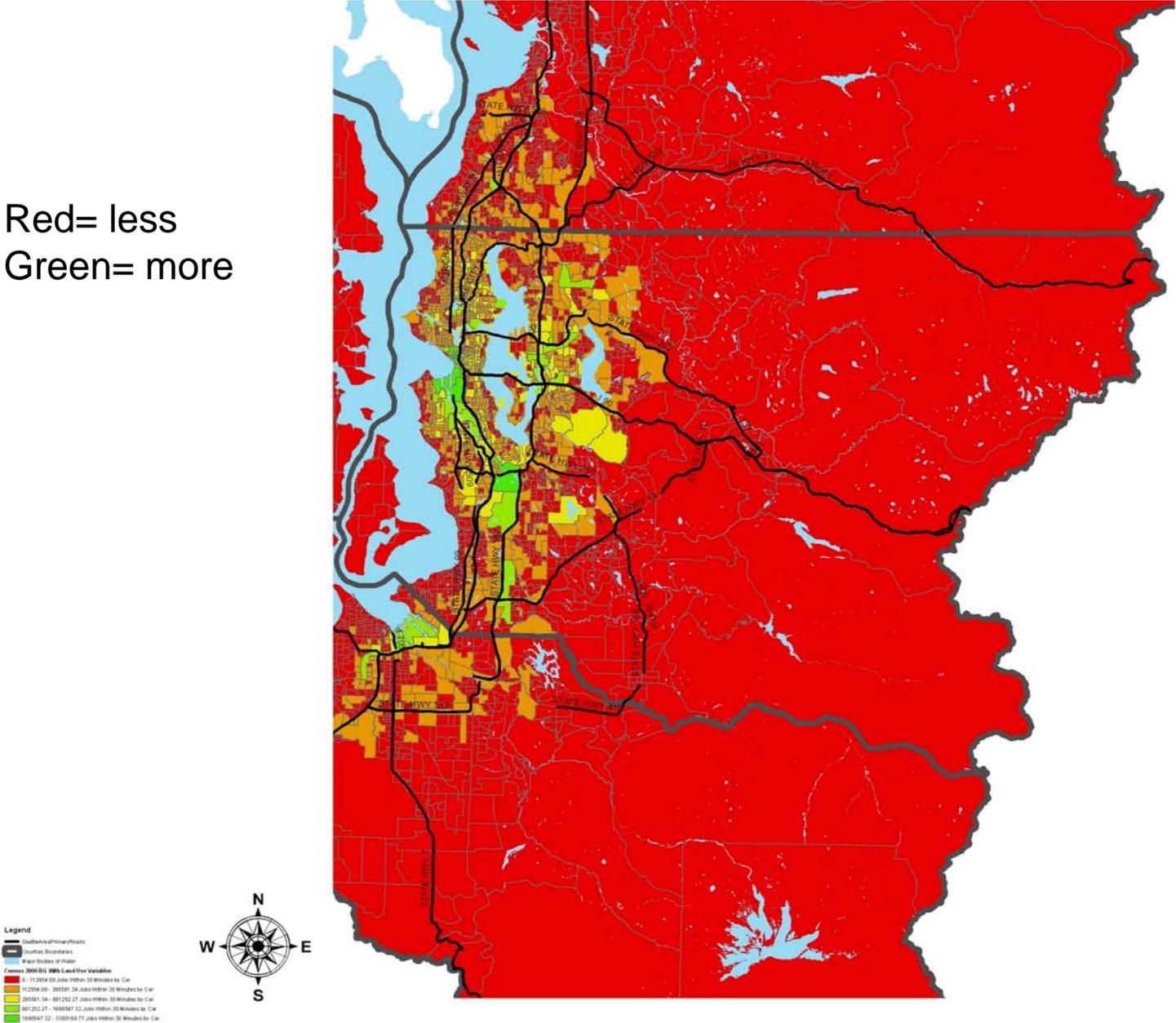
Predictive Factors for Residential Transportation Emissions



- ***Regional Location*** —
- ***Demographics*** —
- ***Neighborhood configuration and built environment characteristics*** —

Jobs Within 30 Minutes by Car per Block Group - King County & Surrounding Areas

Red= less
Green= more

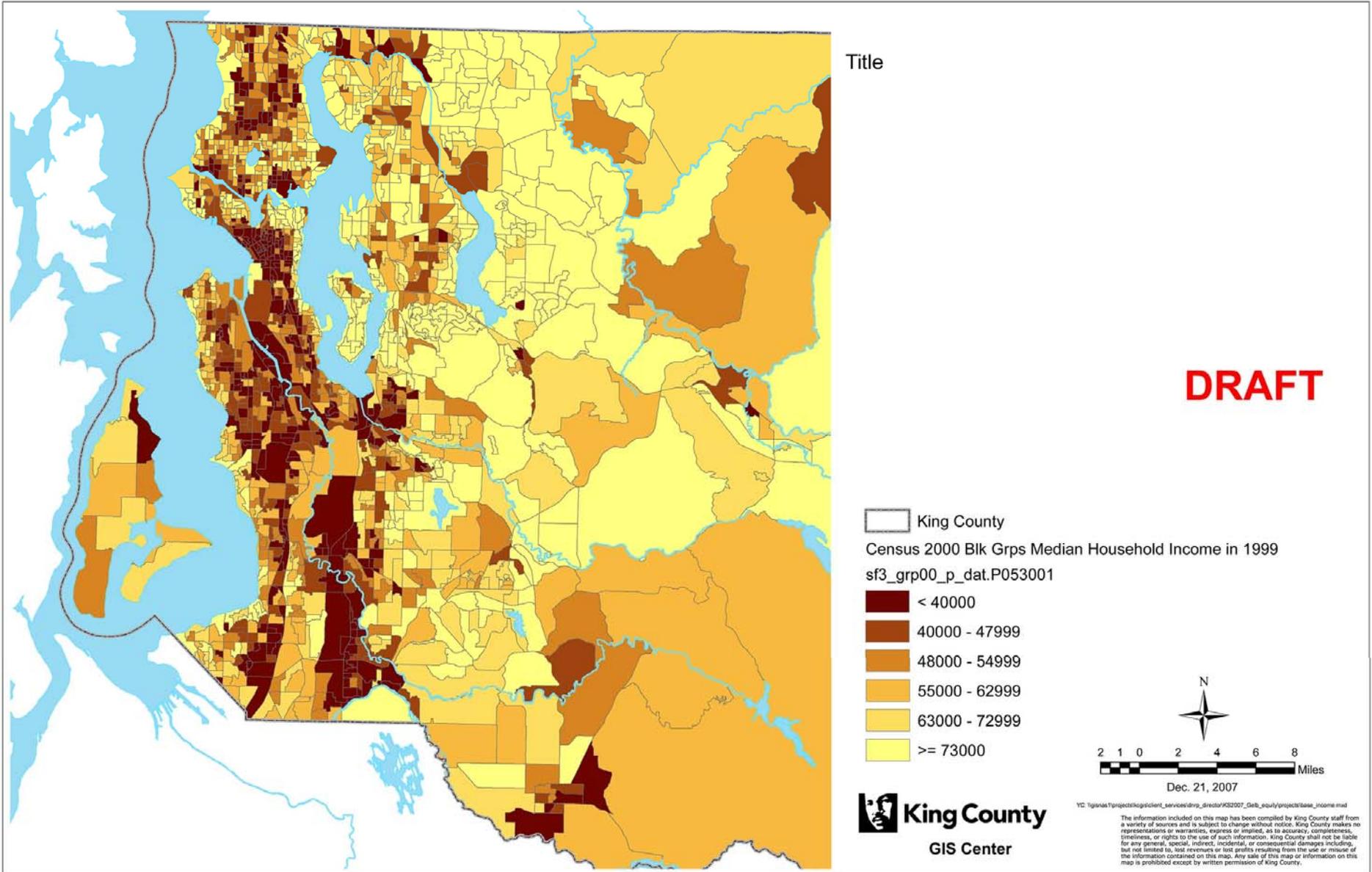


Predictive Factors for Residential Transportation Emissions



- *Regional Location* —
- ***Demographics*** —
- *Neighborhood Configuration and Built Environment Characteristics* —

Average Household Income to the Census Block Group Level (1999)



Average Cars Per HH per Block Group - King County & Surrounding Areas

Greener = fewer cars per HH

Orange = more cars per HH

Red = most cars per HH

Legend

— SeattleAreaPrimaryRoads

▭ Counties Boundaries

▭ Major Bodies of Water

Census 2000 BG With Land Use Variables

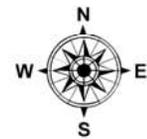
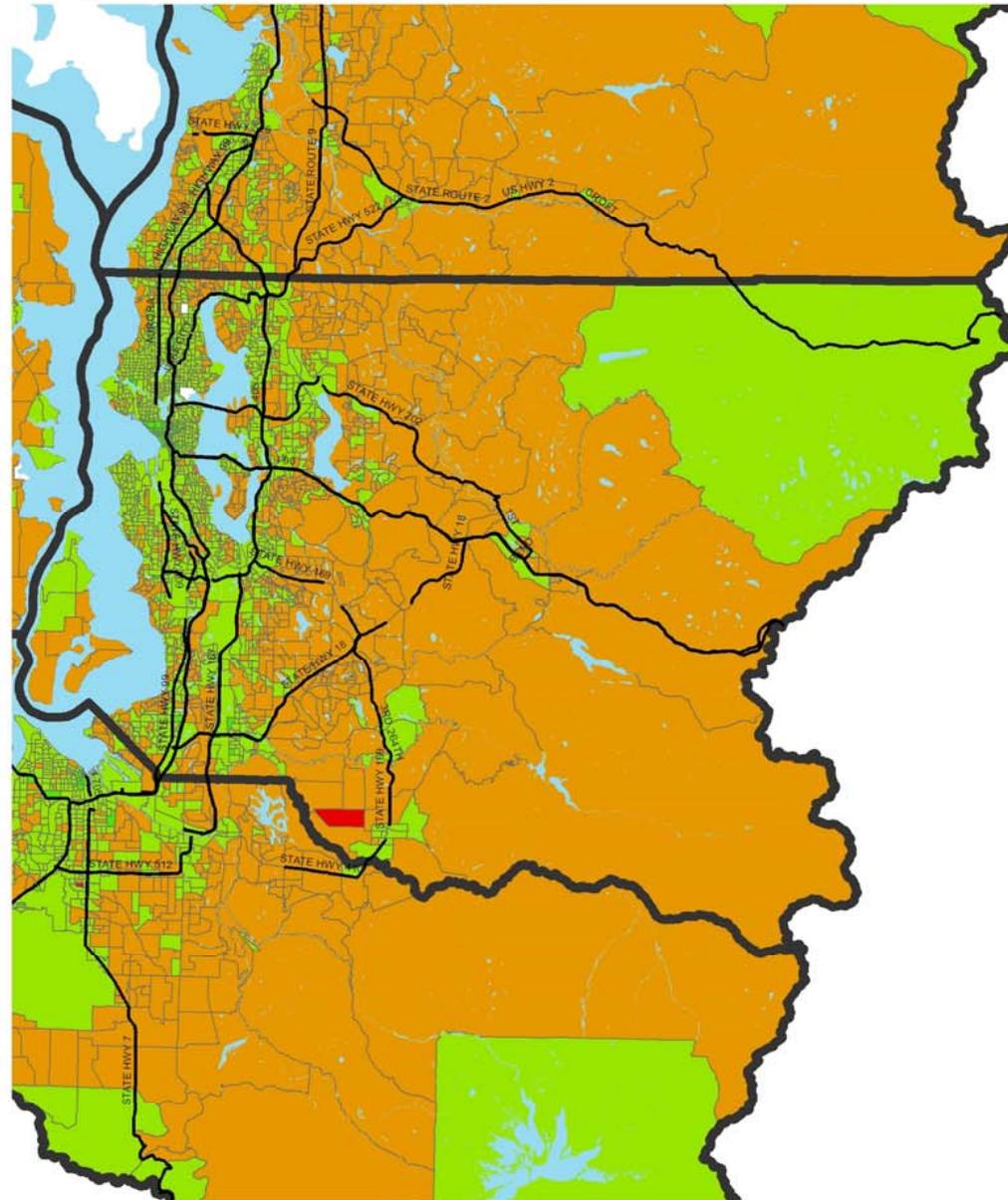
AvgCarsPerHH

▭ Less than 1 Car Per HH

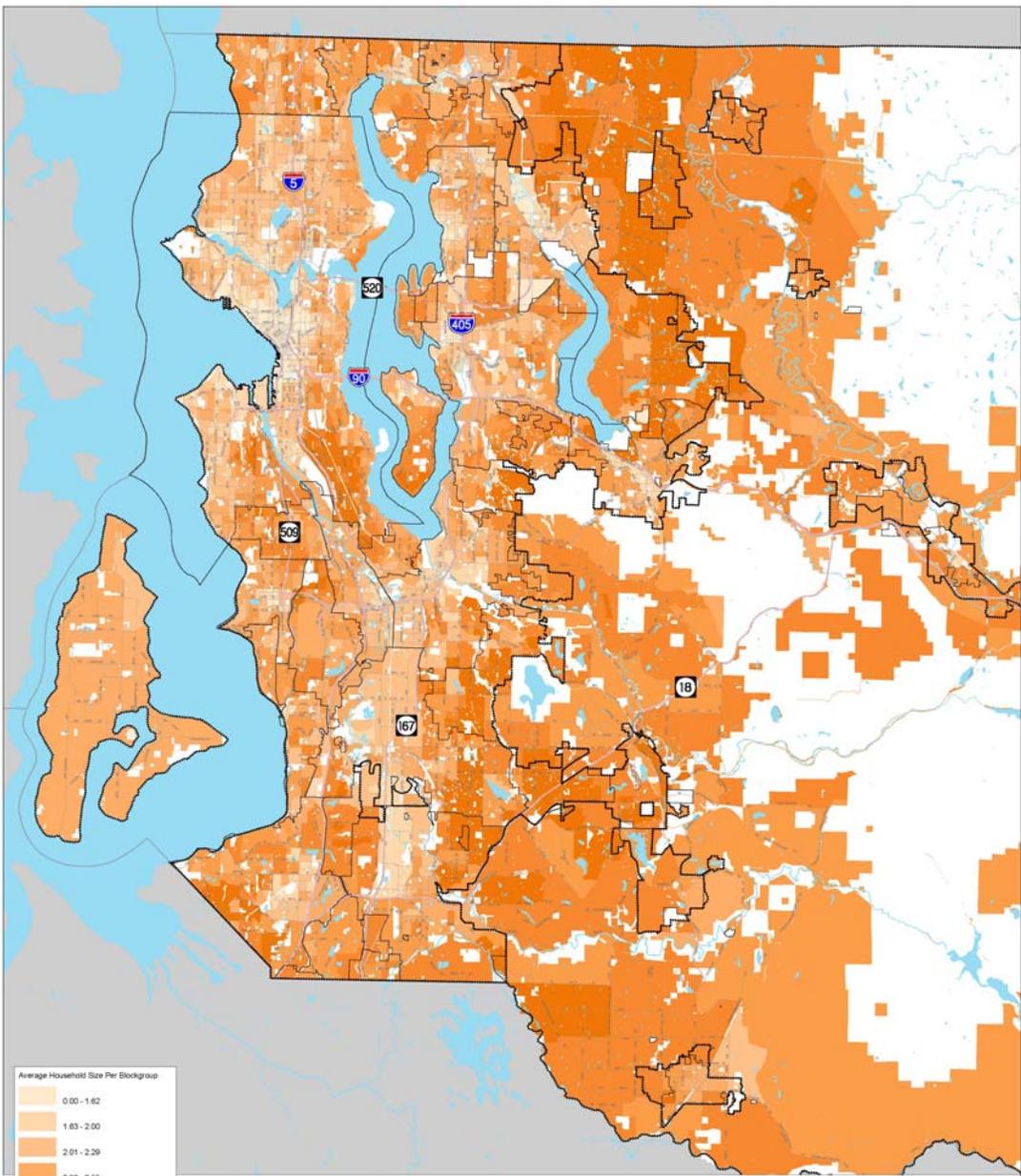
▭ 1 to 2 Cars per HH

▭ 2 to 3 Cars Per HH

▭ More than 3 Cars per HH



g:\plans\1\projects\kingcounty\demographics\household_size\household_size_2000\2000_household_size_2000.mxd



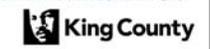
For More Information Contact: Richard Geib
Richard.Geib@kingcounty.gov, (206) 296-8374



September 4, 2008

Average Household Size Per Blockgroup Based on 2000 Census Data

This document is intended for informational purposes only. It is not intended to be used as a legal document. King County is not responsible for any errors or omissions in this document. King County is not responsible for any damages, including consequential damages, arising from the use of this document. King County is not responsible for any actions taken based on the information contained in this document. King County is not responsible for any actions taken based on the information contained in this document.



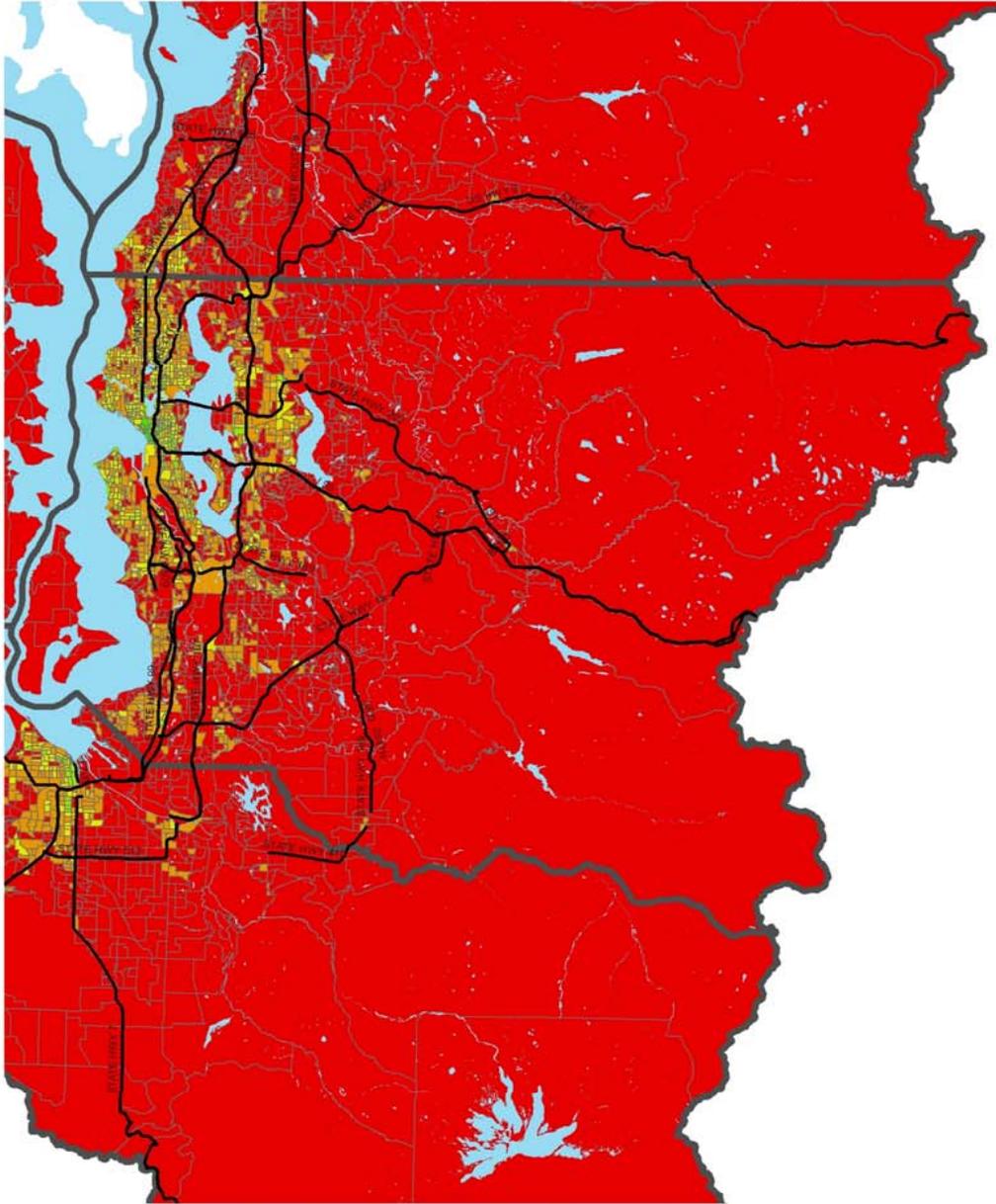
Predictive Factors for Residential Transportation Emissions



- *Regional Location* —
- *Demographics* —
- ***Neighborhood configuration and built environment characteristics*** —

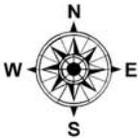
Bus Stops per Sq Km per Block Group - King County & Surrounding Areas

Red= less
Green= more

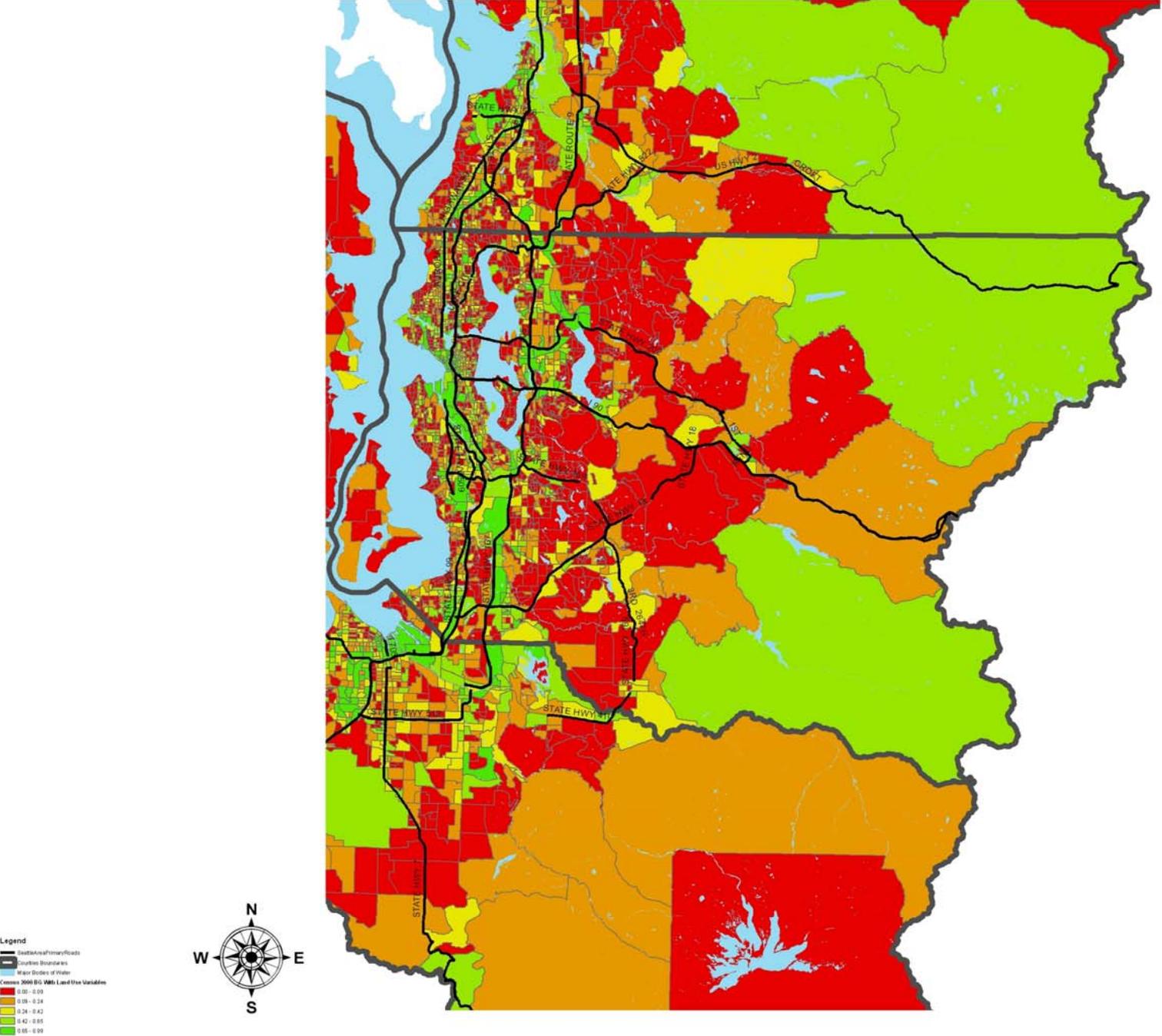


Legend

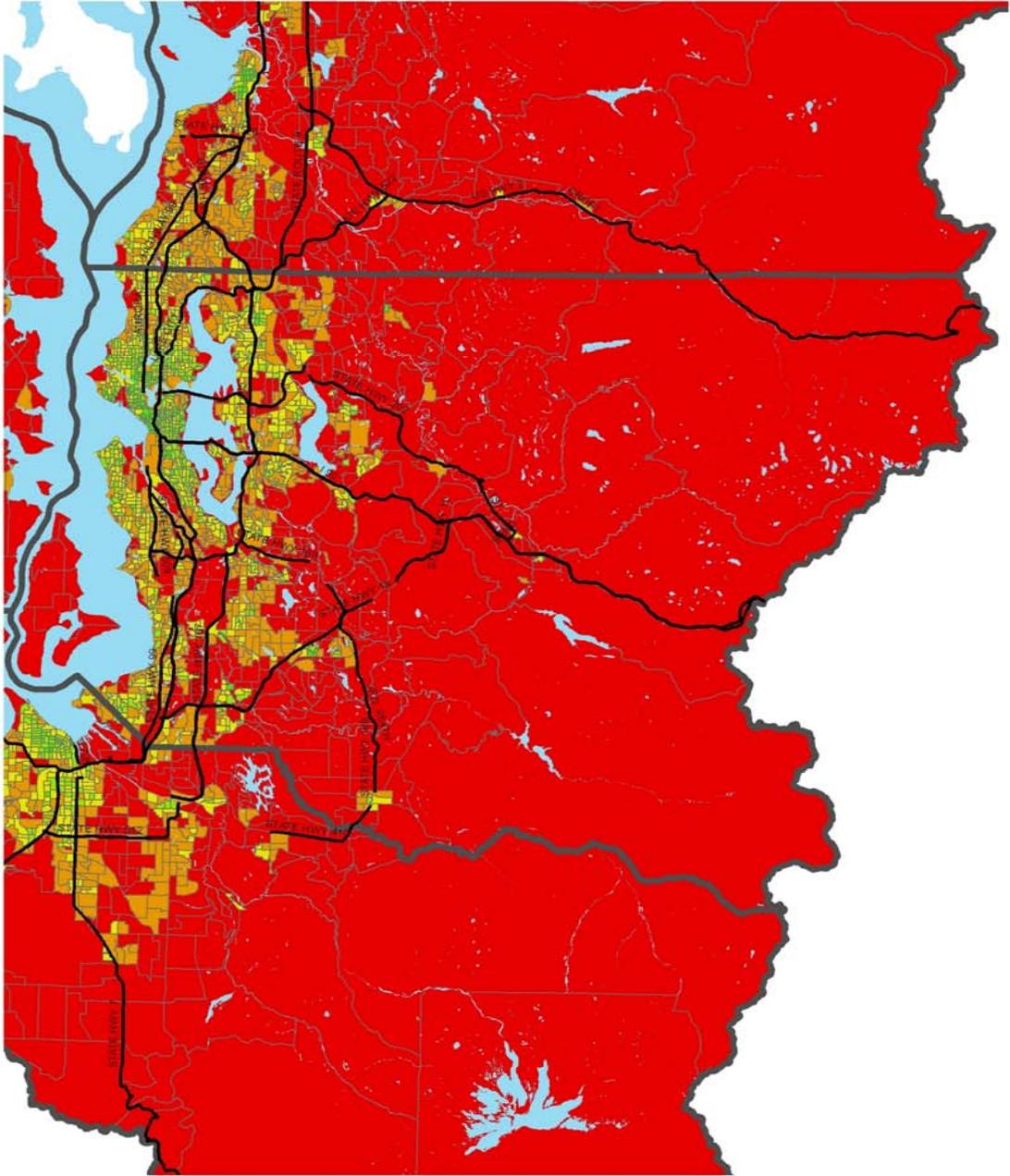
- County/Parish/State
- County Boundaries
- Major Bodies of Water
- County 2000 US 100,000 Scale Variables
- 0 - 6.42 Bus Stops per Sq Km
- 6.45 - 17.09 Bus Stops per Sq Km
- 17.11 - 33.94 Bus Stops per Sq Km
- 33.96 - 72.56 Bus Stops per Sq Km
- 72.58 - 168.27 Bus Stops per Sq Km



Mixed Use Index per Block Group - King County & Surrounding Areas

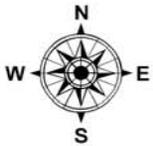


Street Intersections per Sq Km per Block Group - King County & Surrounding Areas



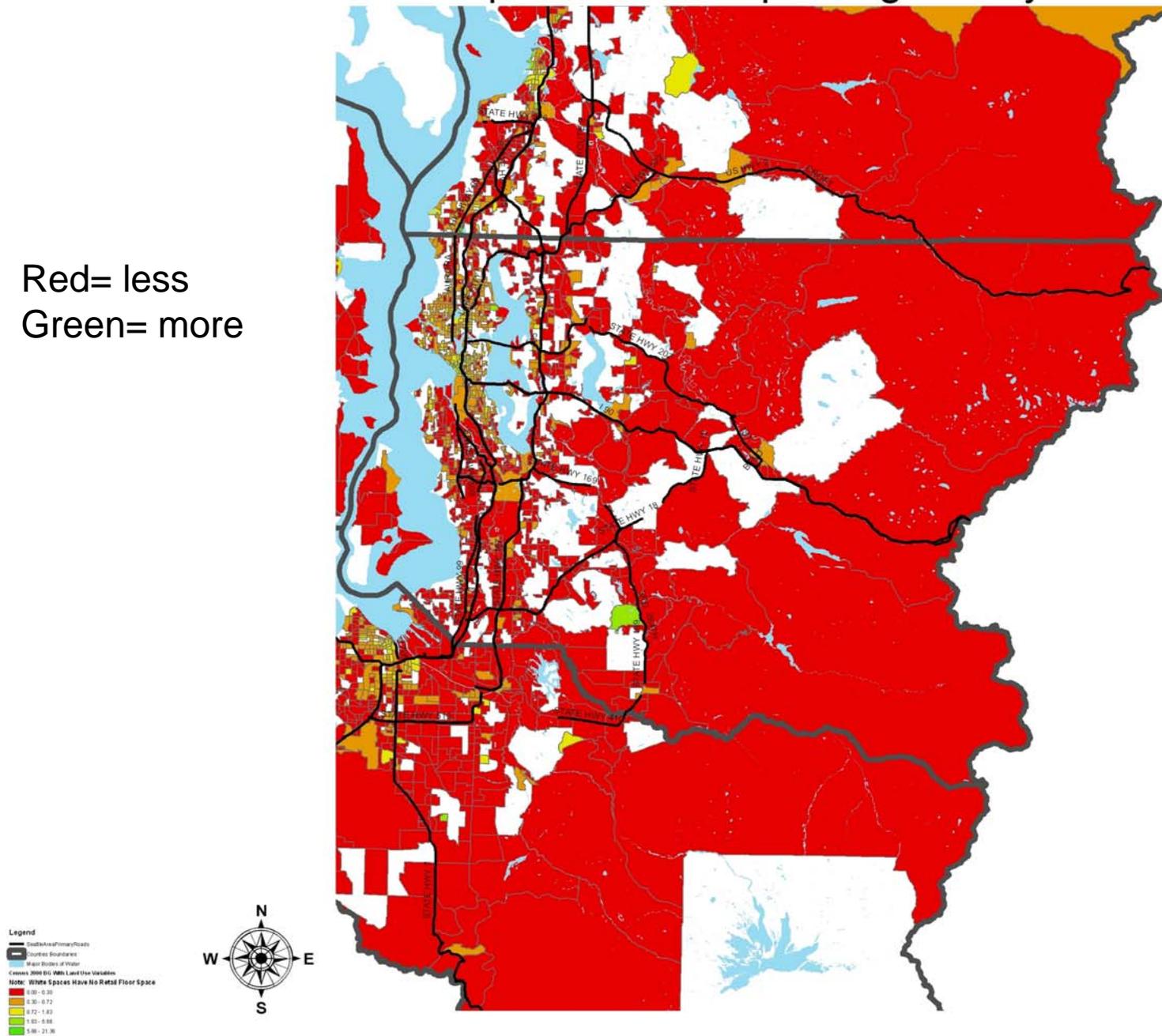
Legend

- Street Intersections/Roads
- County Boundaries
- Major Bodies of Water
- Census 2000 BGS Land Use Variables**
- 0 - 21.33 Intersections per Sq Km
- 21.35 - 42.65 Intersections per Sq Km
- 42.67 - 64.00 Intersections per Sq Km
- 64.02 - 85.33 Intersections per Sq Km
- 85.35 - 106.67 Intersections per Sq Km
- 106.69 - 128.00 Intersections per Sq Km

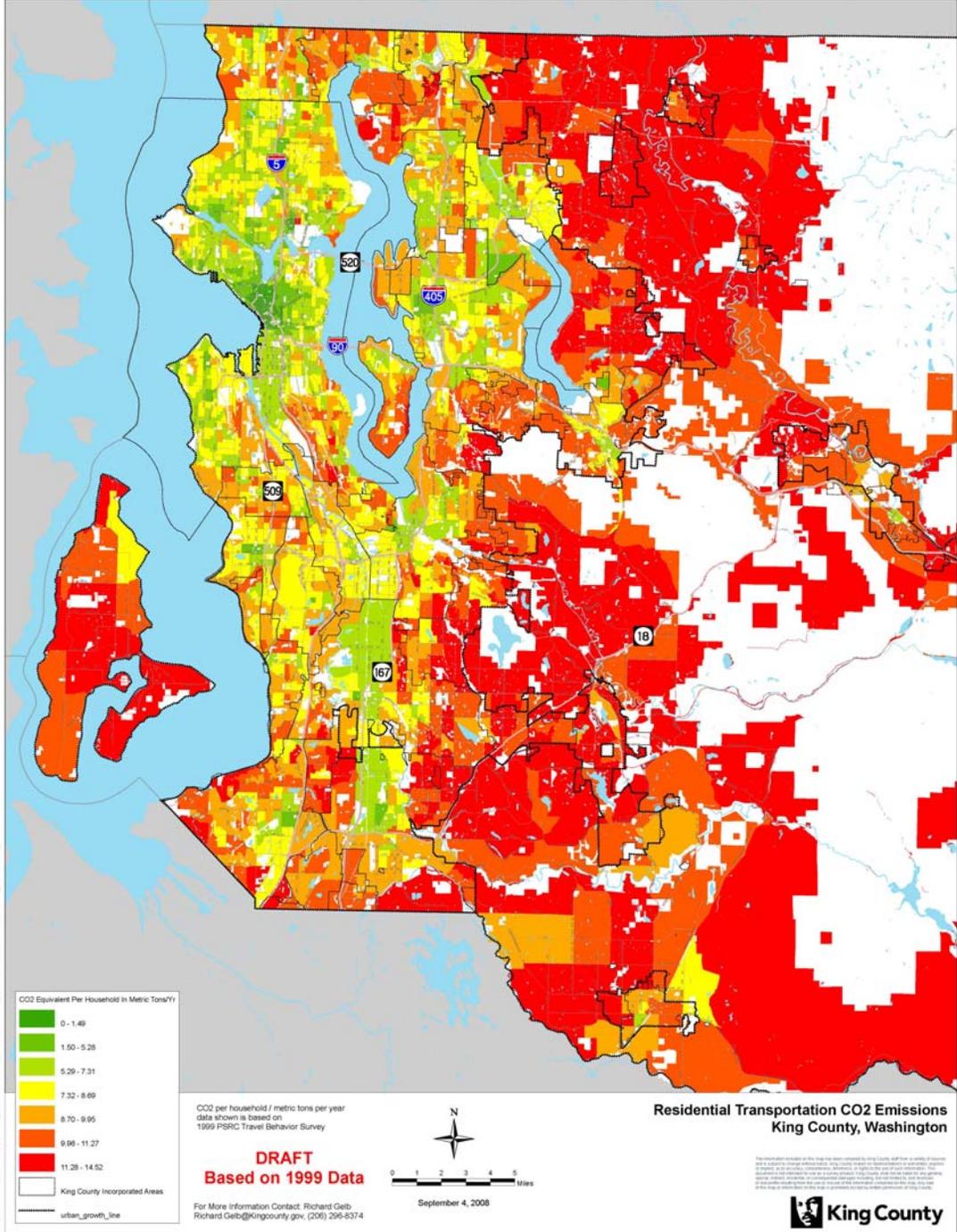


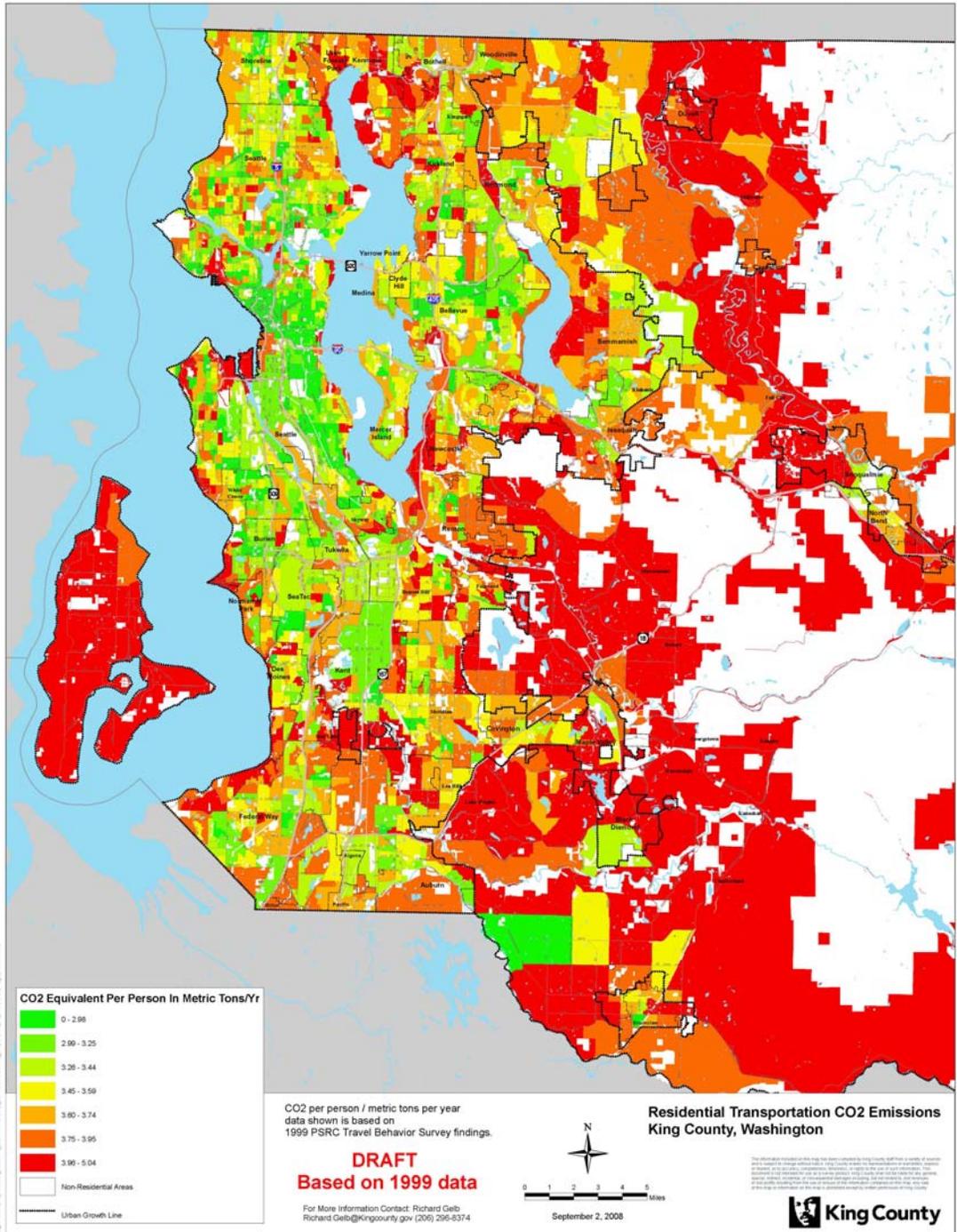
Retail Floor Area Ratios per Block Group - King County & Surrounding Areas

Red= less
Green= more

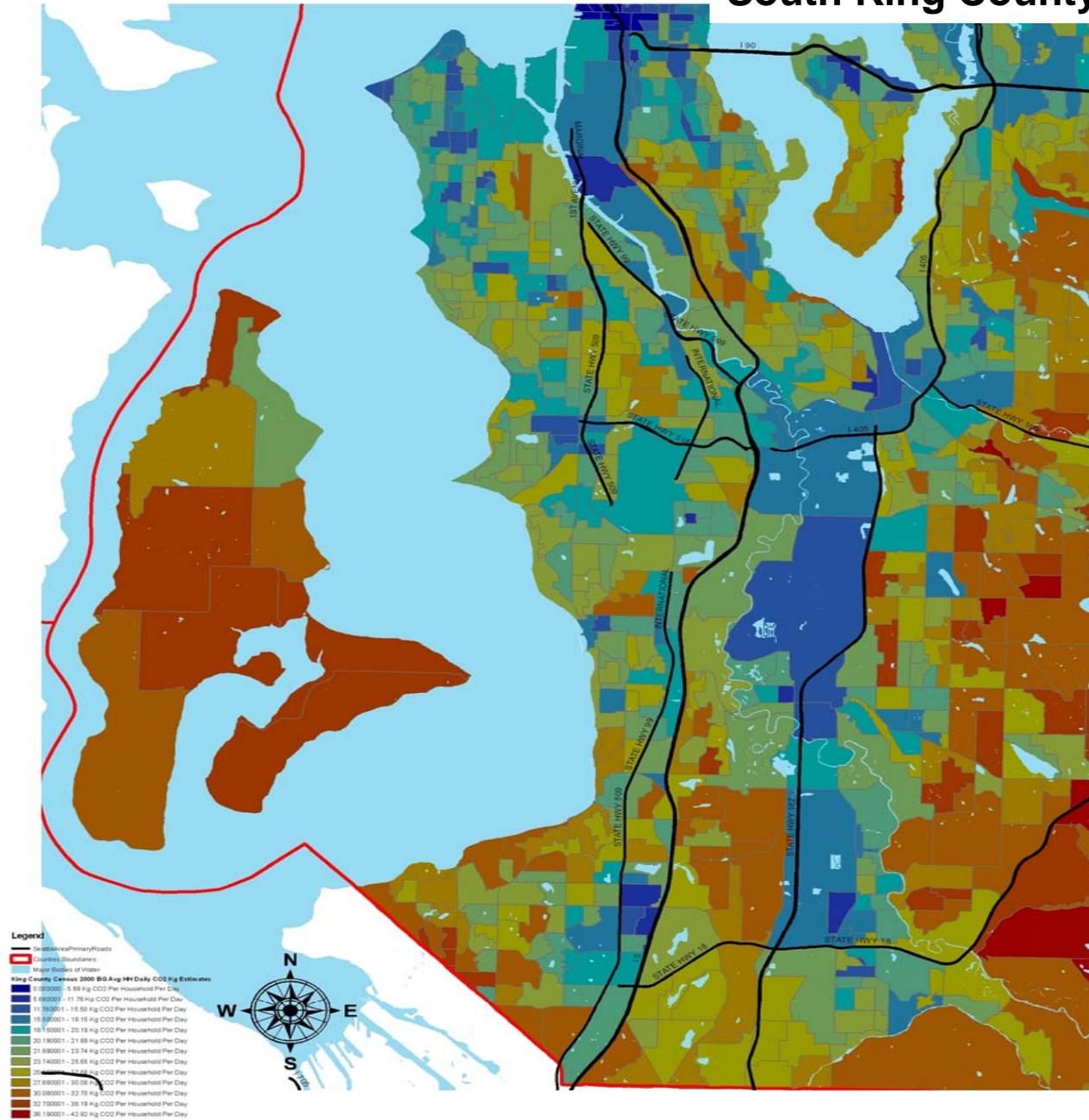


g:\plans\transportation\emissions\emissions\08011_Spatial\projects\CO2\2008_Update.mxd





Estimates of Average Daily HH CO2 Kg Generated from Travel, Per Census Block Group of Residence - **South King County**



Estimates of Average Daily HH CO2 Kg Generated from Travel, Per Census Block Group of Residence - PSRC Region

