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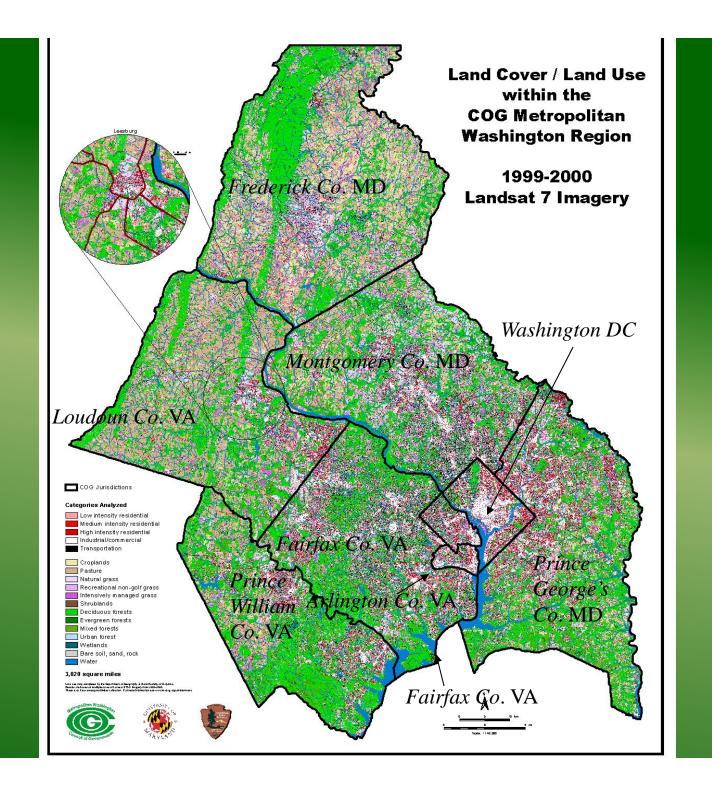
• In 2004, COG produced the first region-wide land use / land cover database providing a 'snapshot' of green infrastructure (i.e. forest, agricultural lands, grassland, parks, etc.) Using a combination of Landsat 7 Imagery (30 Meter Resolution) and Ikonos Satellite Imagery (1 Meter Resolution, 1999/2000 data).



Metroponi

Infrastructure.

- Seek Innovative Approaches to Regional Planning Challenges
- Develop Incentives and Tools for Open Space Set-Asides
- ❖ Promote Case Studies of Green Infrastructure Success Stories
- Support Regional Farm Preservation Efforts and Local Food Production
- Maintain, Enhance & Connect Existing Green Infrastructure



COG Jurisdictions Categories Analyzed Low intensity residential Medium intensity residential High intensity residential Industrial/commercial Transportation Croplands **Pasture** Natural grass Recreational non-golf grass Intensively managed grass Shrublands **Deciduous forests** Evergreen forests Mixed forests **Urban forest** Wetlands Bare soil, sand, rock Water

Chesapeake Bay Program Land Cover Categories

- 13 Total Land-Cover Classes
- 5 Primary Land-Use Classes

Quantitying

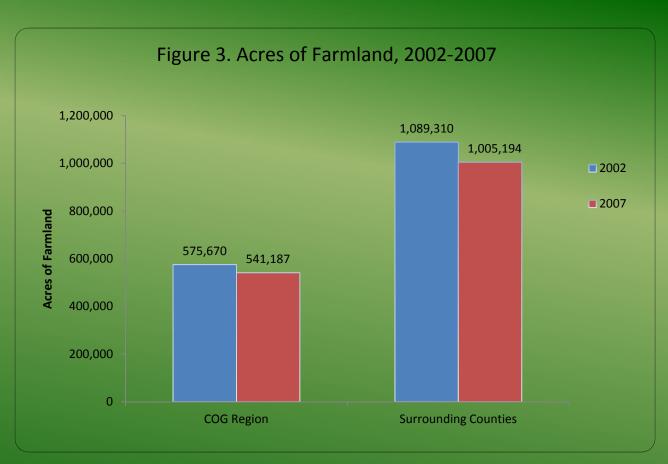
- Green Infrastructure 2012 Update to the 2004 Regional Landsat / Land Cover Map (Spring 2013)
- Provide recommendations for local forest cover and agricultural lands protection



Working Lands in the Washington Region



Land In Farms



In 2007 1,549,381 acres (28%) of the 5,6000,544 acres in the Washington Region were being used for Agriculture

Agricultural Econom

Crop and Livestock* + Vegetables +
Horticultural + Orchard + Vineyard +
Wineries + Equine

= (over one billion dollars) !!!

^{*} Livestock production does not include horse boarding facilities.

Promoting and Protecting Working Lands in the Washington Metropolitan Area

Formed: 2005

The Regional Agricultural Workgroup's key focus is to investigate potential approaches for sustaining an economically viable regional agricultural system through better support of farms, farmers, farm programs and marketing of local agricultural products in the Washington Metropolitan Area.

Members of the Washington Regional Agricultural Workgroup include:

- ° Frederick County, MD
- ° Montgomery County, MD
- ° Prince George's County, MD °
- ° Loudoun County, VA
- ° Fauquier County, VA

- ° Jefferson County, WV
- Fresh Farm Markets
- ° Potomac Vegetable Farms
- ° Piedmont Environmental Council
- ° Metropolitan Washington Council of Governments



Agricult

- Business Incentive/Disincentive Factors: Economic / Financial, Regulatory, Agricultural Infrastructure, Crop / Product Diversification, Labor, Technical Support, Farm Operator Recruitment
- Advocacy and Outreach: Regional Networking, Public Education, Community Support, Lobbying, Database Creation and Sharing
- Marketing: "Buy Local" Marketing, Farmers Markets, Agri-Tourism, Non-Regional (Interstate & International) Marketing

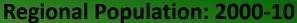
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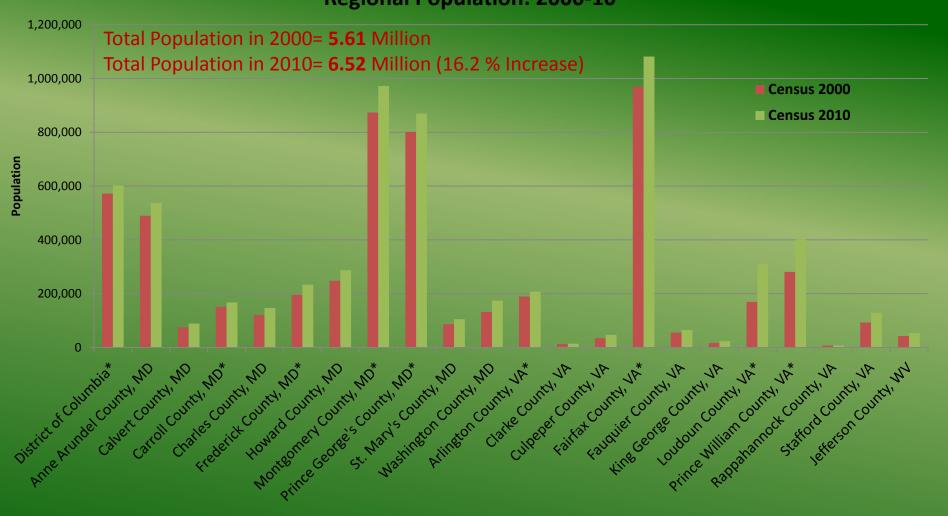
Priorities &

- Promote Local Government Ag. Programs & Initiatives
- Cross-Jurisdictional Coordination
- Farm / Farm Market Support
- 2005 & 2010 Agricultural Working Lands Forums
- Regional Agriculture Web Site www.nationalcapitalfarms.org
- Regional Agricultural Data
- "What Our Region Grows" Report (December 2012)



Population Growth





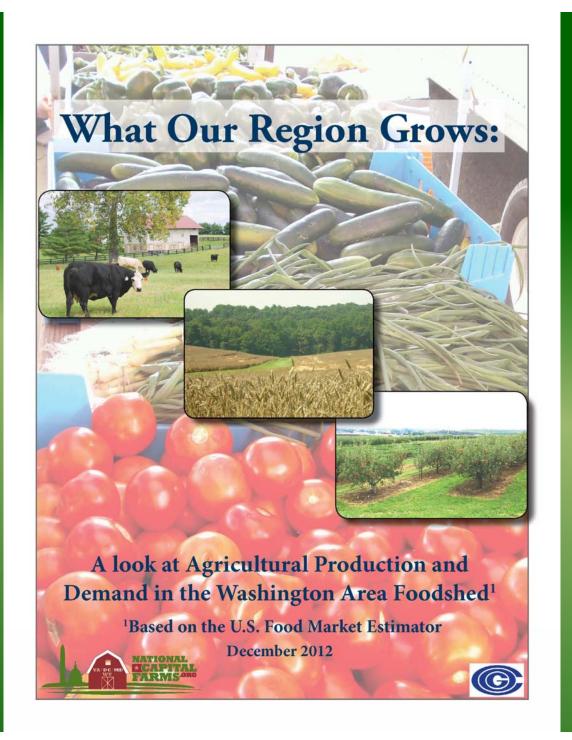
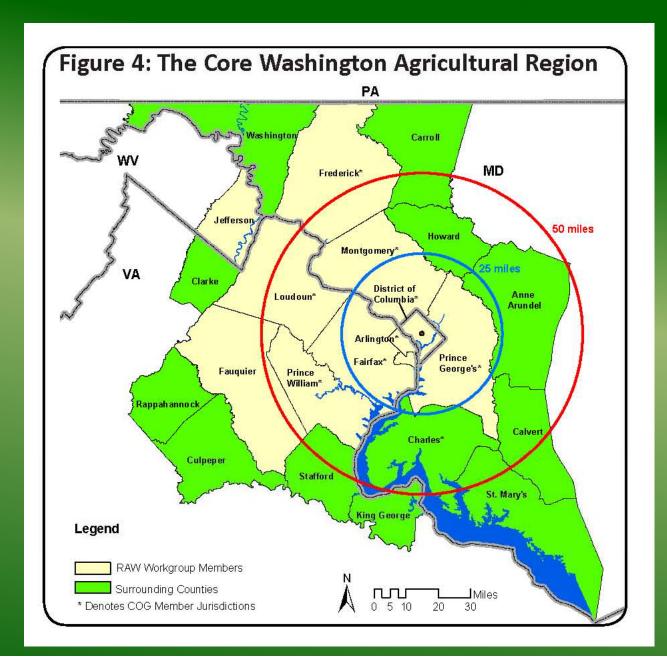


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Appendix 1: Regional Data on Select Crops and Animals



Products delivered to local farmers markets travel an average of 50-75 miles one-way; much of which originates in the twelve counties that surround the 3,600 sq. mi. Metro-region.

Come

- 2007 Total of 12,093 Farms in the Washington Region
- Regionally grown products made up less than 1% of the total food sold
- Top five beef-producing states TX, MO, OK, TN, KY
- Increasing amounts of imported fruits and vegetables (principally from Mexico, Latin American, Canada & China)

www.ctre.iastate.edu/marketsize

What is the U.S. Food Market Estimator?

The U.S. Food Market Estimator is designed to help users determine the potential demand, by county in the United States, for more than 200 different food items. This is an expansive tool, using data collected each year by the U.S. Department of Agriculture's Economic Research Service (ERS).

What are the limitations of this tool?

- The U.S. Food Market Estimator is intended for comparative and strategic uses.
- Information is based on national averages; it does not account for seasonal or geographic dynamics of specific product markets.
- Results should be used to gauge approximate market size for general applications.



U.S. Food Market Estimator

- · What is the U.S. Food Market Estimator?
- · How does this tool work?
- · Does this tool show actual consumption?
- · What are the limitations of this tool?
- · What food products are included?
- · How are units of measure determined?
- · Who might use this tool?
- · Who developed the U.S. Food Market Estimator?

For more information

Contact Craig Chase, (515) 294-1854, cchase@iastate.edu.

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1. Select Food Products

Fields left blank will include results for all items in that group or product.

Food Group		Sub-Group		Product		Sub-Product	
	•		•		•		v

2. Select Market Factors



3. Market Share

(national, state or county)



CALCULATE

RESET

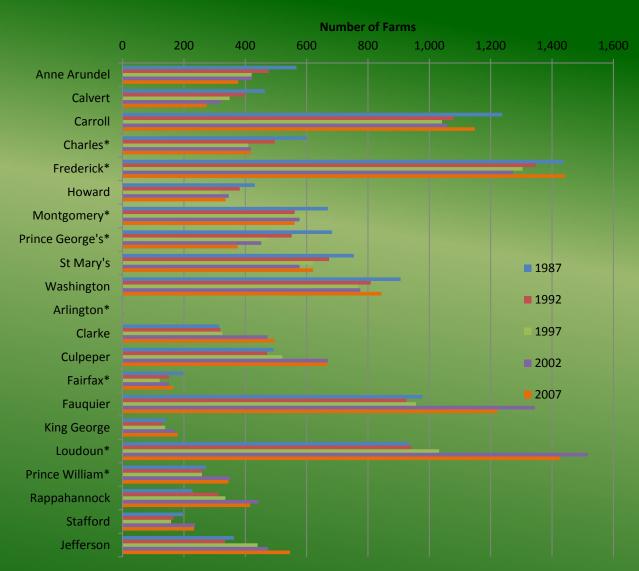


Select Regional Production and Demand

(According to the 2002 & 2007 USDA NASS Census of Agriculture)

		Vegetables			Starches				Meats			Dairy			
Jurisdiction	Blueberries	Strawberries	Apples	Beans	Tomatoes	Pumpkins	Squash	Potatoes	Sweet Corn	Corn Meal	Wheat Flour	Chicken	Beef*	Hogs	Milk
Maryland															
Frederick	No	No	No	No	No	Yes	No	No	No	Yes	Yes	No	No	No	Yes
Montgomery	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No
Charles	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No
Prince George's		No	No	No	No	No	No	No	No	Yes	No	No	No	No	No
Virginia	110		110	110	110	110	110	.,,		100	110		110		
Arlington	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Fairfax	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Loudoun	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No
Prince William	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No

Number of Farms



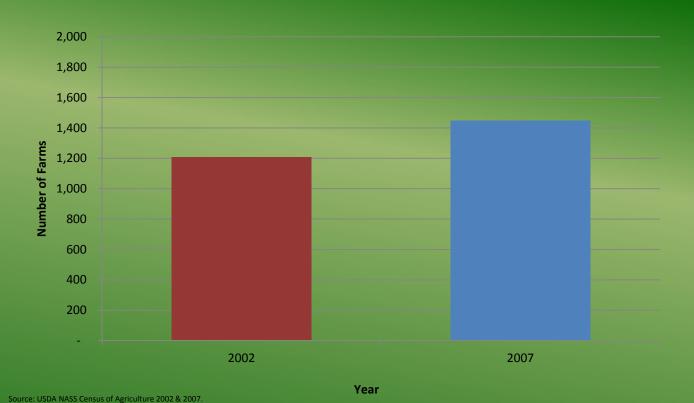
Total Number of Farms in the Region

1987= 11,871

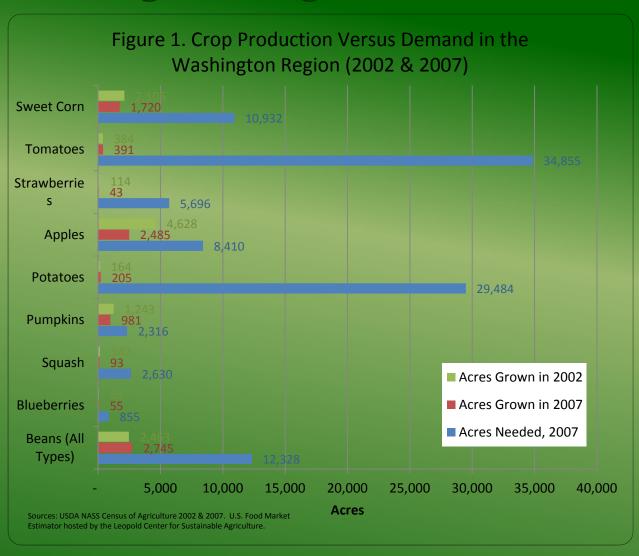
2007= 12,093*

*Note: Average farm size is decreasing.

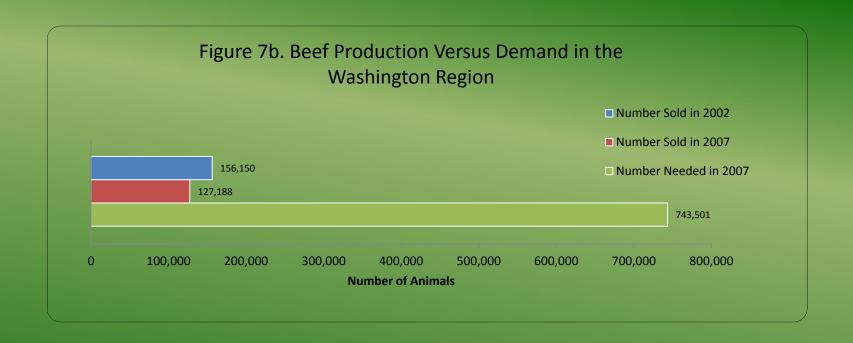
More Small Farms



Crop Production vs. Demand in the Washington Region (2002 & 2007)



Select Livestock Production vs. Consumption in the Washington Region (2002 & 2007)



Pourtry

- 1.5 million acres in the Washington agricultural region is used for growing corn and soybeans
- The Delmarva poultry industry is the largest consumer of these grains, and in 2009 consumed over 98 million bushels
- The Eastern Shore poultry industry supports Western Shore farming

Louis

- High price of land
- Loss of support services (equipment dealers, meat processing, feed stores)



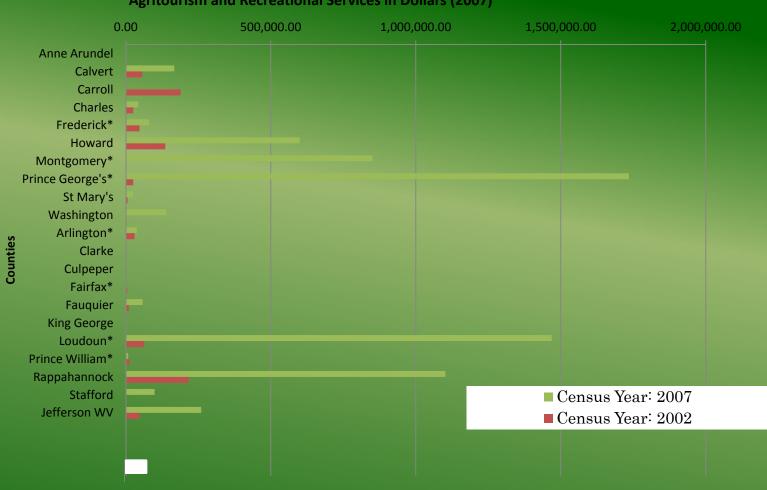
Impeu

- Aging farmer population
- Not enough new farmers
- Farmland fragmentation
- Labor (cost, housing & benefits)
- Regulations (environment & health)
- Restrictive zoning
- Water

- 'Niche' farming (specialty meats, fruits, vegetables, etc.)
- Local food and wines
- Community supported agriculture (CSA)
- Agritourism

Agri-tourisms Contribution

Agritourism and Recreational Services in Dollars (2007)



• Includes Challenges, Top Three Lessons Learned & Snapshots

A Snapshot of Montgomery's Rural Economy:

- 561 farms, 27 percent female principal operator
- 71,622 acres of farmland protected
- Expanding hay industry feeding a growing horse population of nearly 10,000 animals
- Over 1.0 million bushels of corn for grain harvested on 12,675 acres
- 279,039 bushels of soybeans harvested on 11,688 acres
- 244,446 bushels of winter wheat grown on 4,161 acres
- 80 beef cattle farms (ranked 8th among all MD counties in 2007)
- 49 fruit, vegetable, and/or nut farms
- Seven sod farms, 150 landscape, arborist, and lawn care businesses
- Economic contribution to County's economy -\$243,378,896/year

• Includes Challenges, Top Three Lessons Learned & Snapshots

A Snapshot of Frederick's Rural Economy:

- 1,442 farms
- Approximately 202,087 acres of remaining farmland in 2007 (ranked 1st among all MD counties); an increase of almost 4,000 acres over 2002
- Beef cows ranked 1st among all MD counties in 2007
- Hogs ranked 1st among all MD counties in 2007
- Milk cows ranked 1st among all MD counties in 2007
- Organic farms ranked 1st among all MD counties
- 1,850,000 bushels of corn for grain harvested on 26,000 acres
- 844,000 bushels of soybeans harvested on 33,700 acres
- 885,000 bushels of winter wheat grown on 14,000 acres (ranked 3rd among all MD counties in 2007)
- Number one in wineries in MD (Nine)
- Economic contribution to County's economy \$130,000,000/year

• Includes Challenges, Top Three Lessons Learned & Snapshots

A Snapshot Of Prince George's Rural Economy:

- 375 farms
- Approximately 37,005 acres of remaining farmland in 2007
- 330,000 bushels of corn grown for grain harvested on 3,800 acres
- 120,000 bushels of soybeans harvested on 3,400 acres
- 31 sheep farms and approximately 358 sheep
- 7,100 horses and equine inventory valued at \$196,715,000
- Horticulture approximately 615,000 square feet (14.1 acres) under glass
- Vegetable production ranked 8th among all MD counties in 2007
- Five CSA farms
- 18 Farmers markets

• Includes Challenges, Top Three Lessons Learned & Snapshots

A Snapshot Of Loudoun's Rural Economy:

- 1,427 farms
- Largest number of female-operated farms in VA (468)
- Largest equine population in VA (15,500 horses and ponies, valued at \$208,855,000)
- Largest number of cut flower growers in VA (14 farms)
- Largest number of berry growers in VA (3rd largest acreage)
- Largest number of alpaca farms in VA
- Largest number of wineries in VA (2nd largest acreage)
- 2nd largest number of Christmas tree farms
- 2nd largest acreage of nursery stock production
- 4th largest hay production in VA (64,300 acres)
- 14 Farmers markets/wayside stands

'Growing Local'

- Over 150 CSA's in the region, and growing
- Over 100 restaurants serving locally grown food
- From 2002 to 2007, 17% increase in direct to consumer sales

Kepor

- Develop a regional strategic agricultural support plan
- Remove / modify regulatory obstacles
- Create farm incubator training and local processing facilities
- Promote farmer-friendly tax incentives
- Maintain adequate funding for agricultural-related support services

Kepon

Continued

- Develop new food hub / aggregator opportunities
- Support agriculture in the school curriculum
- Aggressively market local agriculture
- Expand farmer-mentoring and land leasing opportunities
- Make farming-related loans easier to obtain

www.nationalcapitalfarms.org





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