

Annual East Tennessee Environmental Conference 2006

HEALTH
ECONOMICS
ENVIRONMENT



March 9 - 10, 2006

Meadowview Conference & Convention Center
Kingsport, Tennessee



The year '2006' is written in a large, light green, cursive font. Behind the numbers is a faint, stylized globe with yellow and green segments. Below the globe, the words 'HEALTH' and 'ECONOMICS' are written in a smaller, red, sans-serif font, stacked vertically.

2006

HEALTH
ECONOMICS

**The Linkage Between
Public Health, Environmental Quality
and
Economic Development**

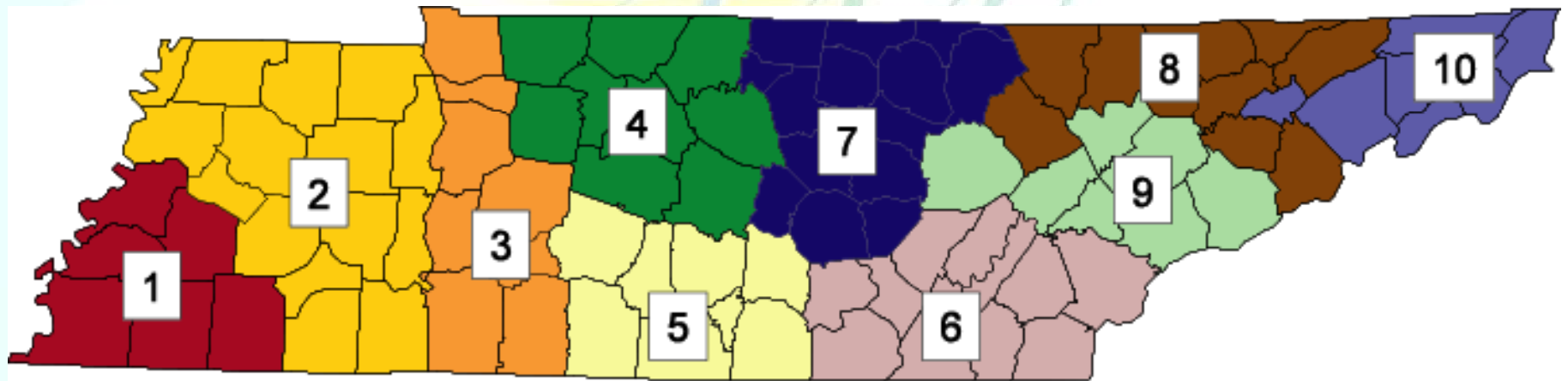


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Where are we as a community in terms of Economic Development?



Economic Growth Strategy Regions: State Overview



Region 1: Fayette, Hardeman, Haywood, Lauderdale, Shelby, Tipton

Region 2: Benton, Carroll, Chester, Crockett, Decatur, Dyer, Gibson, Hardin, Henderson, Henry, Lake, Madison, McNairy, Obion, Weakley

Region 3: Hickman, Houston, Humphreys, Lawrence, Lewis, Perry, Stewart, Wayne

Region 4: Cheatham, Davidson, Dickson, Montgomery, Robertson, Rutherford, Sumner, Williamson, Wilson

Region 5: Bedford, Coffee, Franklin, Giles, Lincoln, Marshall, Maury, Moore

Region 6: Bledsoe, Bradley, Grundy, Hamilton, McMinn, Marion, Meigs, Monroe, Polk, Rhea, Sequatchie

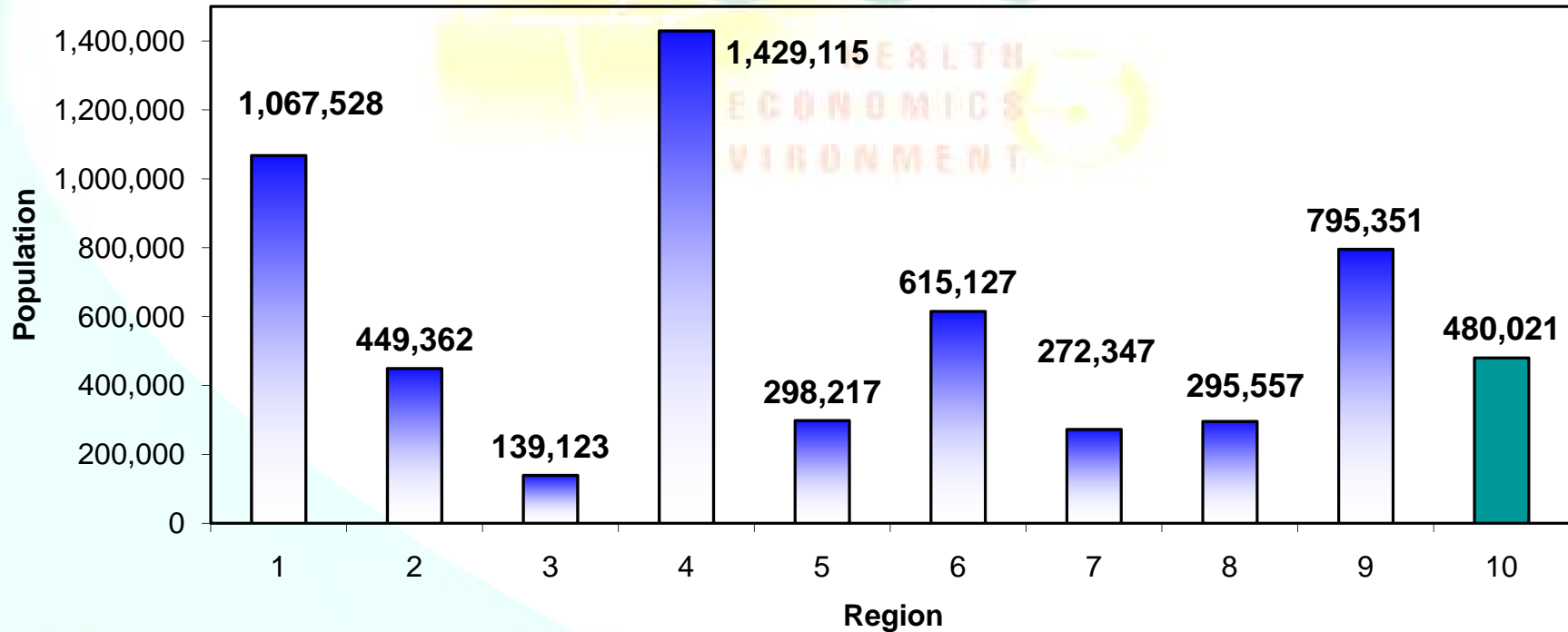
Region 7: Cannon, Clay, DeKalb, Fentress, Jackson, Macon, Overton, Pickett, Putnam, Smith, Trousdale, Van Buren, Warren, White

Region 8: Campbell, Claiborne, Cocke, Grainger, Hancock, Hawkins, Jefferson, Morgan, Scott, Union

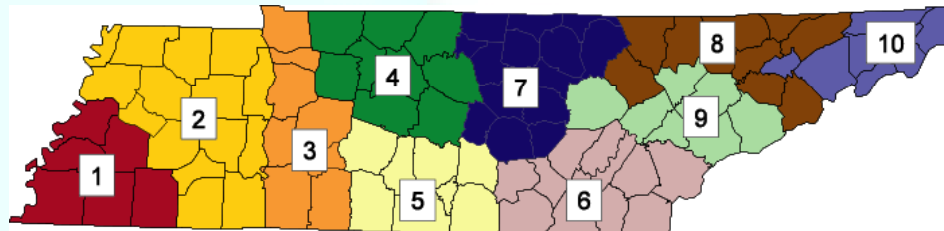
Region 9: Anderson, Blount, Cumberland, Knox, Loudon, Roane, Sevier

Region 10: Carter, Greene, Hamblen, Johnson, Sullivan, Unicoi, Washington

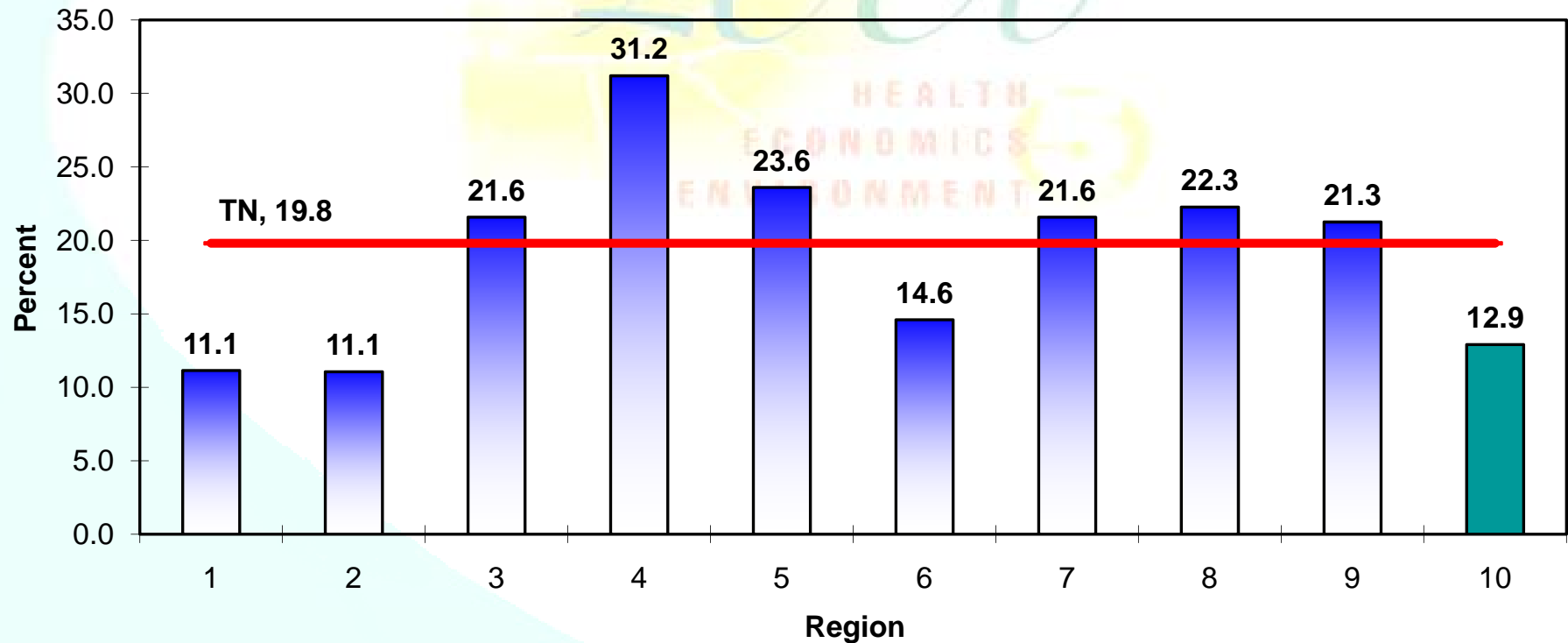
Total Population by Region, 2003



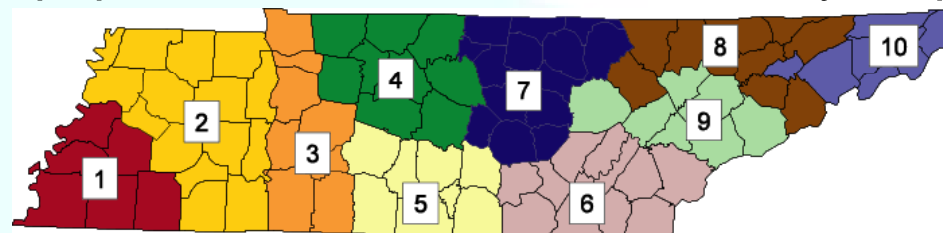
- Region 10 has the fifth largest population of all the regions with 480,021



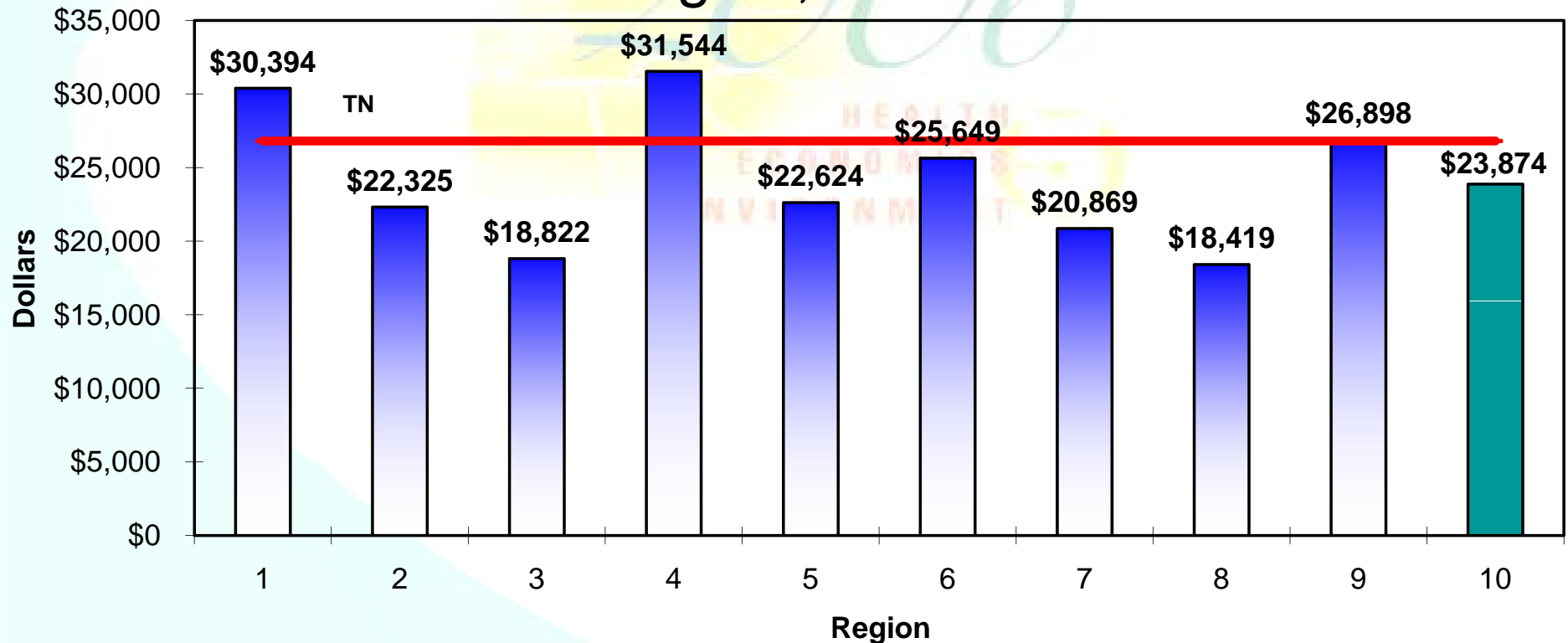
Percentage Change in Population by Region, 1990-2003



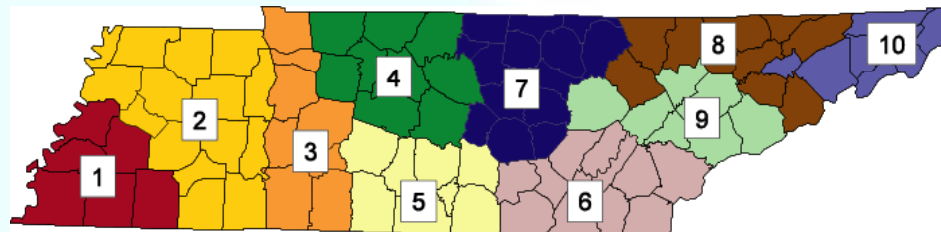
- The change in population for Region 10 was nearly 13 percent
- The change in population for the state was nearly 20 percent



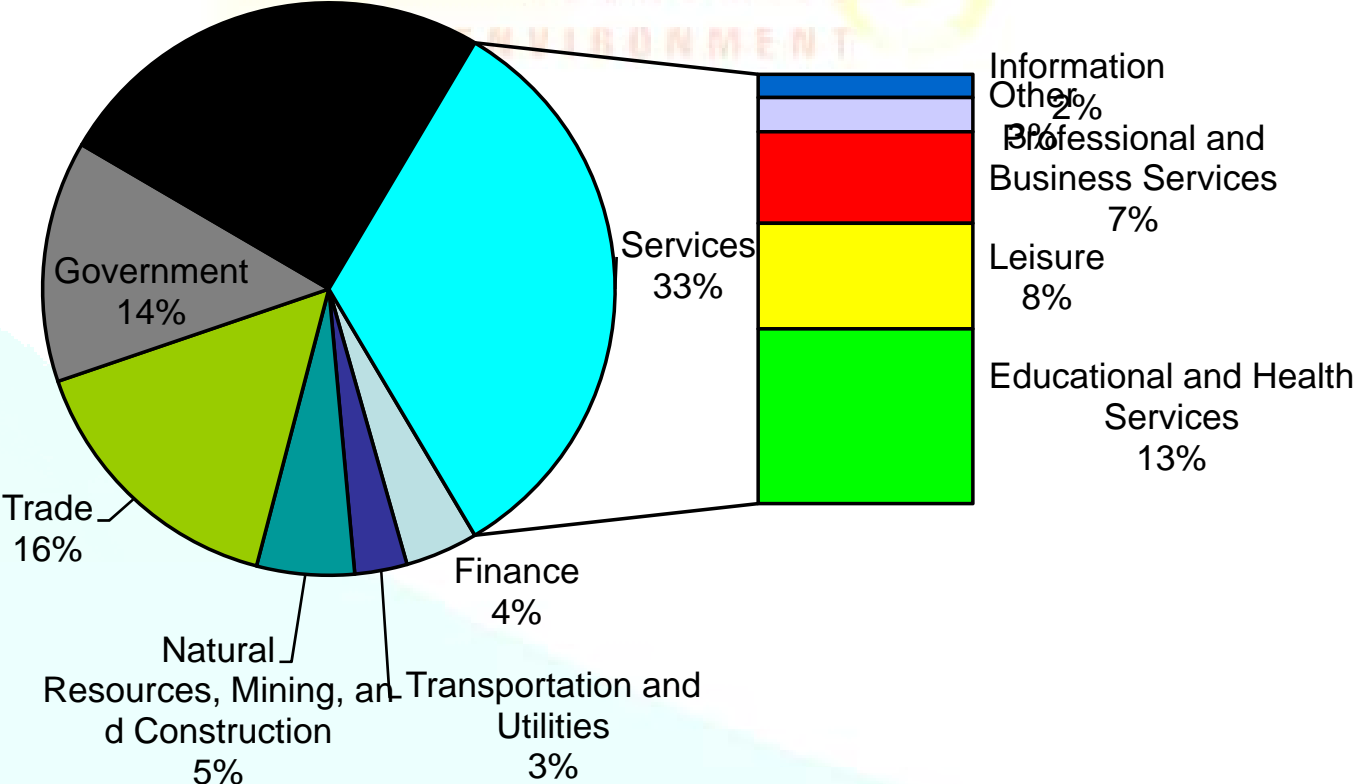
Average Per Capita Personal Income by Region, 2001



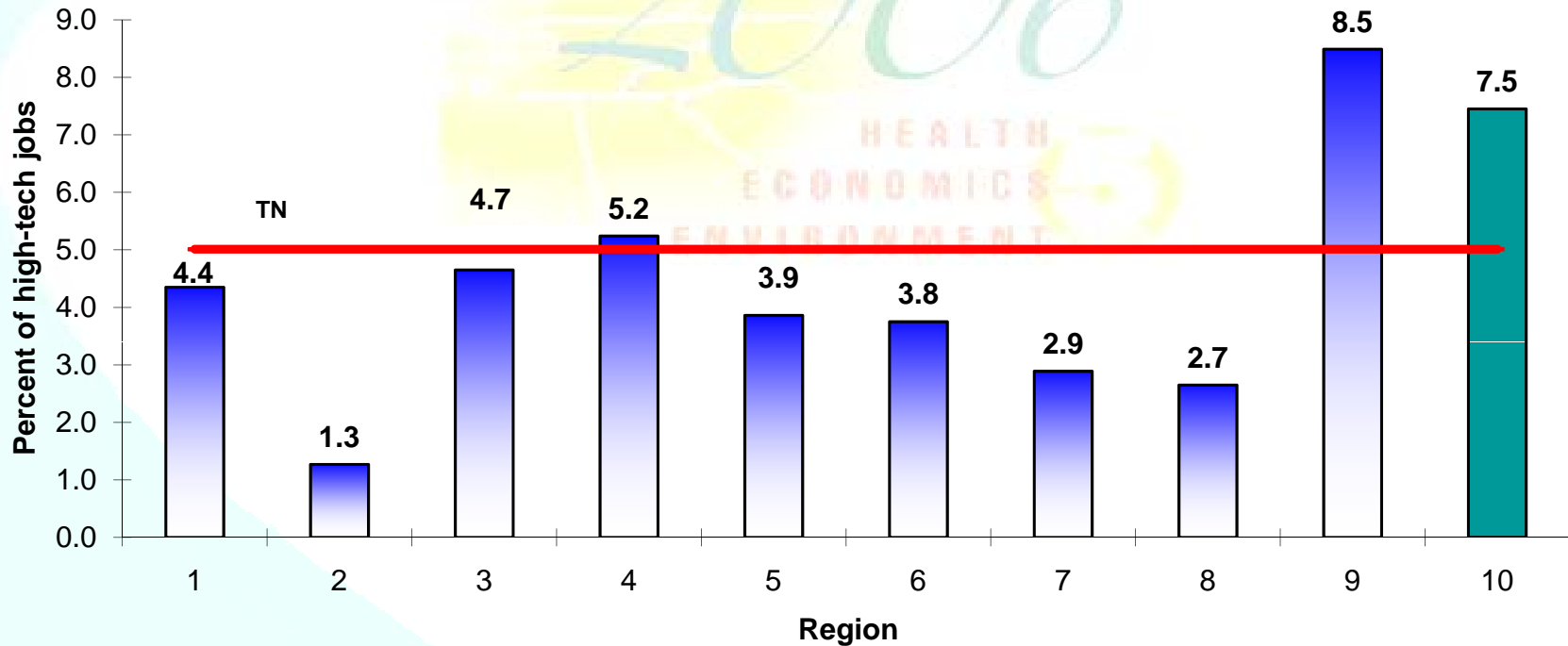
- Average per capita personal income for Region 10 was \$23,874
- Average per capita personal income for the state was \$26,808



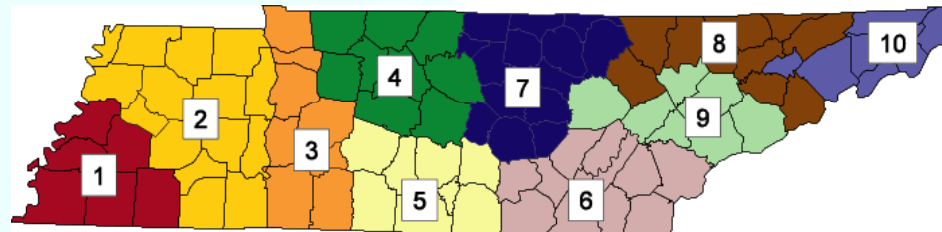
Employment Share by Industry, 2002, Region 10



Percent of High-Tech Jobs, 2001, Region 10



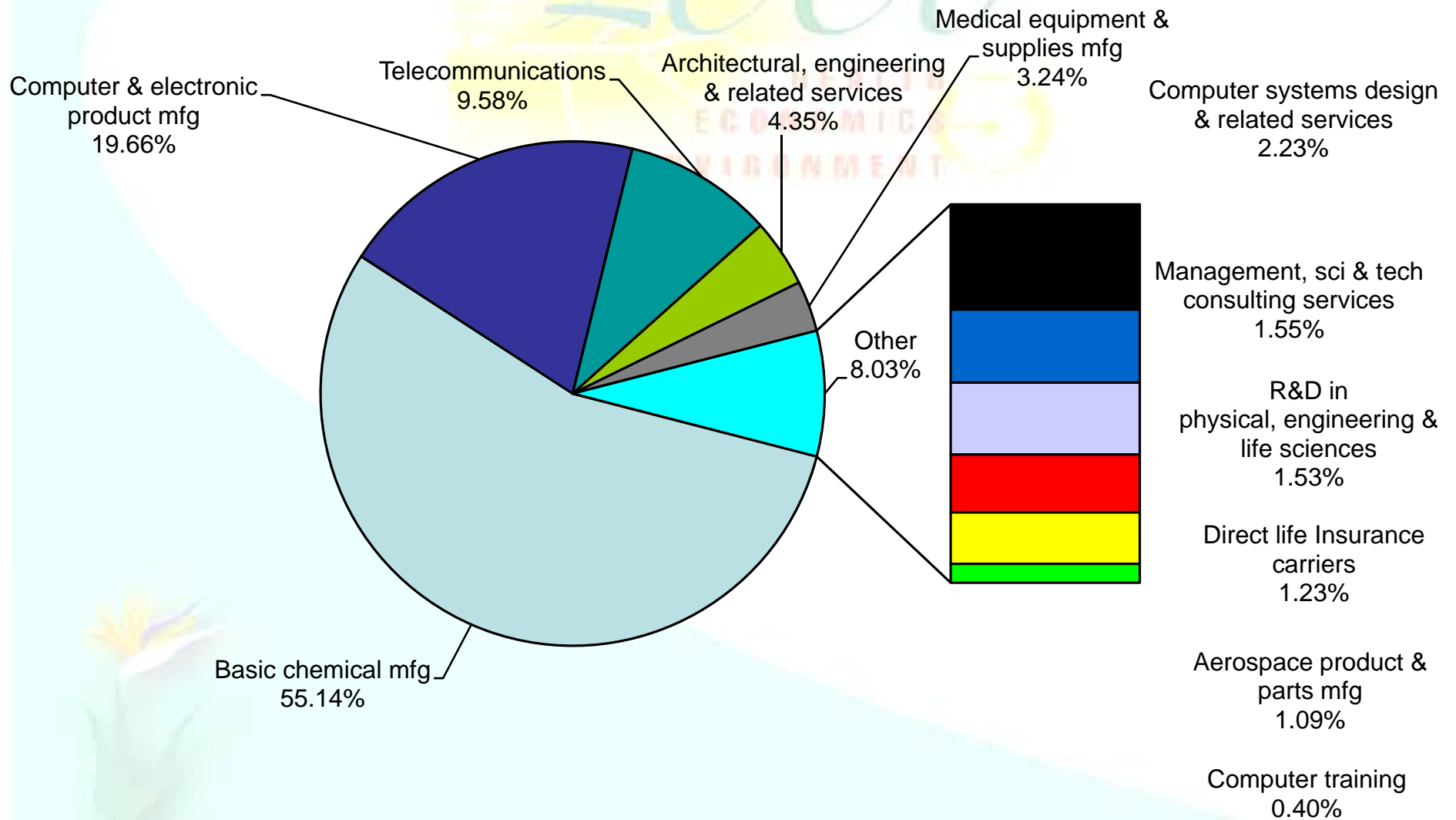
- The percent of Region 10 workers in High-Tech Jobs is above the state average. At 8 percent, Region 10 has nearly twice the state's average employment in high-tech industries

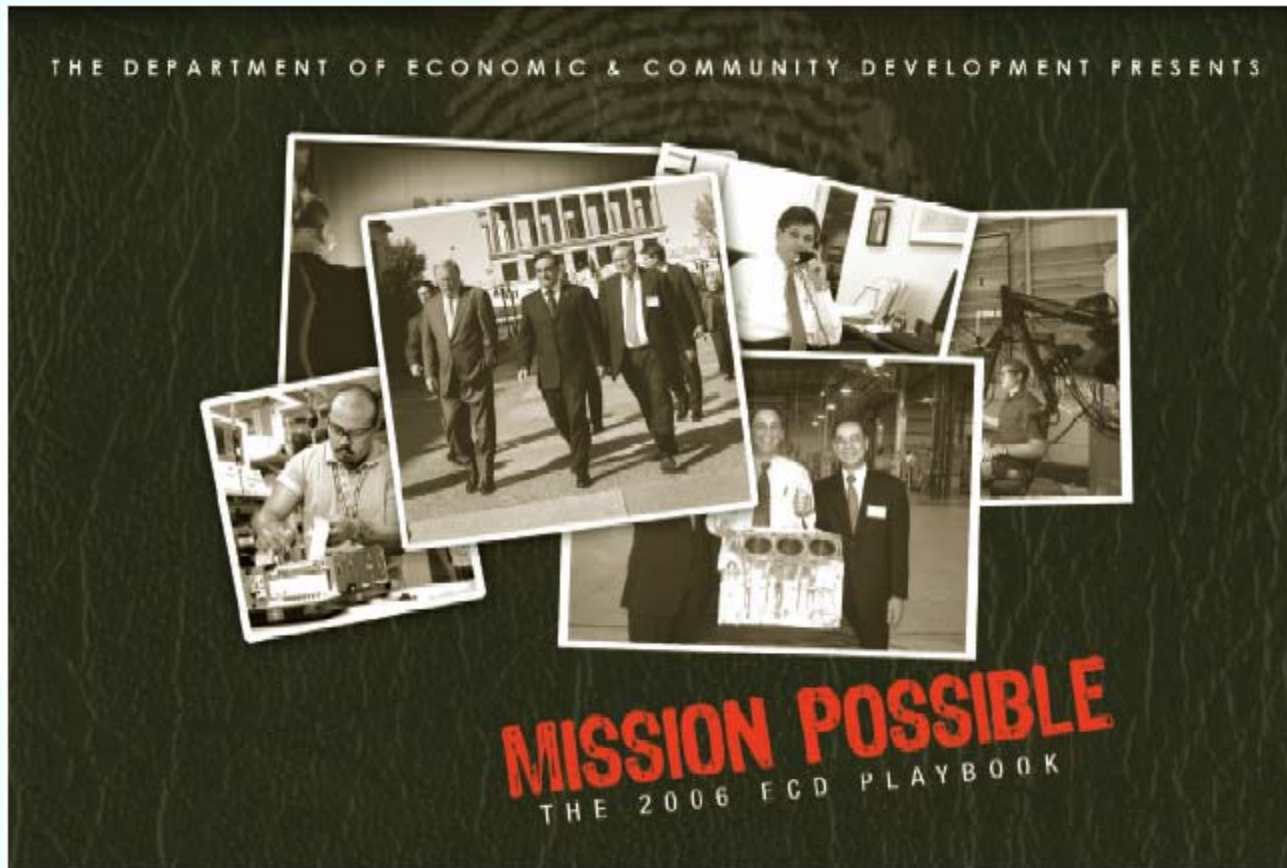


High-Tech Industries

Included NAICS industry sectors/sub-sectors	NAICS codes
Aerospace Product and Parts Manufacturing	3364
Architectural and Engineering and Related Services	5413
Basic Chemical Manufacturing	3251
Computer and Electronic Product Manufacturing	334
Computer Systems Design and Related Services	5415
Computer Training	611420
Direct Life Insurance Carriers	524113
Management and Science and Technological Consulting	5416
Medical Equipment and Supplies Manufacturing	3391
Research and Development in Physical and Engineering and Telecommunications	541710, 5133

High Tech Employment Share by Industry, 2001, Region 10





“...With a background in technology, Governor Bredesen has made development of this important sector of Tennessee’s economy a priority.”

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How do we attract High-Tech Industries?



IEDC Site Selection Factors:

Demographic Characteristics

Labor Force Characteristics

Transportation Facilities

Tax Policies

Utilities

Supply of Industrial/Office Sites

Government Policies

Environmental Factors

Quality of Life



IEDC Environmental Site Selection Factors :

- **Area in Attainment for Federal Air Pollution Regulations**
- **Ozone**
- **Carbon Monoxide**
- **Particular Matter**
- **Lead**
- **Sulfur Dioxide**
- **Nitrogen Dioxide**
- **State Instituted a One-Stop Air & Water Quality Permitting System**
- **Air Quality**
- **Water Quality**
- **Hazardous Waste**

IEDC Quality of Life Site Selection Factors:

- **Climate**
- **Housing**
- **Elementary/Secondary Education**
- **Higher Education**
- **Culture**
- ***Health Care/Public Health***
- ***Sports/Outdoor activities***

Department of Economic And Community Development



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COMMUNITY DEVELOPMENT

“The Community Development team works with communities to help attract new business development and ***improve the quality of life.*** Programs range from job creation to strategic planning for growth in an effort to help communities take control of their own economic future.”

Quality of Life as a recruitment tool for High-Tech industry

- *“Quality of life means different things to many people. First it starts with good health and a job. **Though quality of life may be further down on the list of priorities for site selectors for traditional industries, it ranks high for technology companies.** This is due in part to the high mobility of tech workers.*
- *Good quality of life **can even serve as a subsidy to companies seeking to recruit talent.** During the last tech boom, companies in less popular areas resorted to large compensation packages and signing bonuses to lure talent away from popular tech metros.*
- *Standard measurements (include): ... **quality health care**, variety of food and entertainment, percentage of young, college educated professionals and singles, **outdoor recreation**, cultural activities, fine arts, local musicians and artists, and sports.”*

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Proposition:

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Quality of Life and Environmental factors are key components of high-tech firm's site selection decisions. These factors are quantified as high levels of public health and a high levels of environmental quality.

The logo for the year 2006, featuring the year in a large, stylized, light blue font. Below the year, the words "HEALTH" and "ECONOMICS" are written in a smaller, red, sans-serif font, stacked vertically. The background of the logo is a yellow and white globe.

Where do we stand relative to other states with respect to environmental and quality of life/public health factors?



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Public Health Indicators



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2005 Overall America's Health Rankings

- Tennessee 48th in the nation
- Only Louisiana and Mississippi are Lower

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2005 Rank Per Capita Public Health Spending \$/Person

50	Iowa	\$59
49	Arkansas	\$64
48	Idaho	\$70
47	Utah	\$72
46	Wisconsin	\$79
44 (Tie)	Washington & Arizona	\$81
43	Tennessee	\$91
	United States	\$162

Source: 2003 data, National Association of State Budget Officers

States with the Greatest Overall Health Decline - 2004 to 2005

STATE	CHANGE IN SCORE
New Hampshire	-5.8
Arizona	-4.6
Oklahoma	-4.2
Alaska	-4.1
Arkansas	-4
<i>Tennessee</i>	<i>-4</i>

Source: America's Health Rankings – 2005 Edition

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Health Risk Factors



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2005 RANK	Prevalence of Smoking	% of POP
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50	Kentucky	27.5
49	West Virginia	26.8
48	<i>Tennessee</i>	<i>26.1</i>
	United States	20.8

Source: 2004 data, Behavioral Risk Factor Surveillance System, Centers for Disease Control and Prevention

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Rank

Prevalence of Obesity

% Pop

49 (Tie)

Mississippi & Alabama

29.4/28.8

48

West Virginia

27.6

46 (Tie)

Tennessee & Louisiana

27.1/26.9

United States

23.1

Source: 2000-2002 data, Centers for Disease Control and Prevention

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Public Health Outcomes



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Rank	Cardiovascular Deaths	Death / 100,000
50	Oklahoma	411.1
49	Mississippi	409.8
47 (Tie)	Kentucky & Tennessee	385.3/385.4
	United States	332.9

Source: 2000-2002 data, Centers for Disease Control and Prevention



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Rank

Cancer Deaths

Death/100,000

50

Kentucky

236.5

49

West Virginia

227

48

Louisiana

223.5

45 (Tie)

Tennessee & Indiana

218.8/220

United States

203.6



Source: 2000-2002 data, Centers for Disease Control and Prevention

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Environmental Quality Indicators: Local MSA



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TOXICS - Toxic releases to the environment

Cleanest/Best Counties

National Average

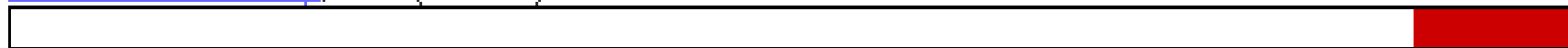
Dirtiest/Worst Counties

0% 50% 100%

[WASHINGTON County, TN \(37601\):](#)



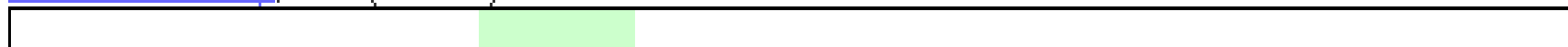
[SULLIVAN County, TN \(37660\):](#)



[WASHINGTON County, VA \(24201\):](#)



[UNICOI County, TN \(37692\):](#)



[GREENE County, TN \(37641\):](#)



2006

AIR - Cancer risk from outdoor air

Cleanest/Best Counties

National Average

Dirtiest/Worst Counties

0% 50% 100%

[WASHINGTON County, TN \(37601\):](#)



[SULLIVAN County, TN \(37660\):](#)



[WASHINGTON County, VA \(24201\):](#)



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[GREENE County, TN \(37641\):](#)



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WATER - Toxic releases to water

Cleanest/Best Counties

National Average

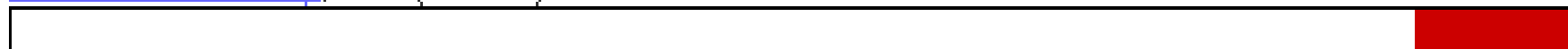
Dirtiest/Worst Counties



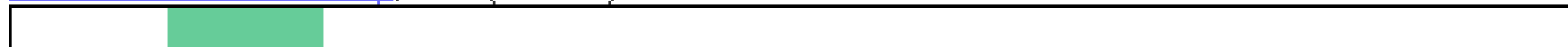
[WASHINGTON County, TN \(37601\):](#)



[SULLIVAN County, TN \(37660\):](#)



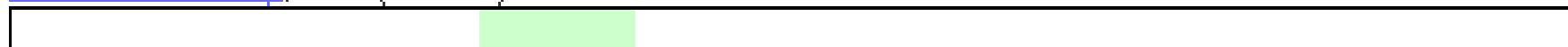
[WASHINGTON County, VA \(24201\):](#)



[UNICOI County, TN \(37692\):](#)



[GREENE County, TN \(37641\):](#)



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LAND - Toxic releases to land

Cleanest/Best Counties

National Average

Dirtiest/Worst Counties

0% 50% 100%

[WASHINGTON County, TN \(37601\):](#)



[SULLIVAN County, TN \(37660\):](#)



[WASHINGTON County, VA \(24201\):](#)



[UNICOI County, TN \(37692\):](#)



[GREENE County, TN \(37641\):](#)



Source: Environmental Defense Fund/Green Media Tool Shed

2006

WASTE - Animal waste from farms

Cleanest/Best Counties

National Average

Dirtiest/Worst Counties

0% 50% 100%

WASHINGTON County, TN (37601):



SULLIVAN County, TN (37660):



WASHINGTON County, VA (24201):



UNICOI County, TN (37692):



GREENE County, TN (37641):



Source: Environmental Defense Fund/Green Media Tool Shed



Where do we go from here?

That's the question for you professionals in the area of Public Health and Environmental Services.



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