

# George Washington National Forest



## Recreation Realignment Report

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# Recreation Realignment Analysis<sup>1</sup>

August, 2001

## Introduction

As the USDA Forest Service encourages a more business-like approach to recreation management, National Forest managers need to know (1) their client base and what their outdoor recreation preferences are; (2) how local populations are shifting and changing; and (3) what recreation services and facilities other agencies or private businesses are providing in the area. By understanding these dimensions of demand, National Forests can evaluate the need to realign their recreation programs to match regional and local demand conditions. This report is meant to provide current research-based information to help Forest staff in their realignment decisions.

## Report Objectives and Data Sources

The objective of this report is to provide recreation managers information they can use to make recreation realignment decisions. An assumption underlying this report is that recreation realignment should be based on public demands for recreation opportunities and that current survey data can help managers better understand public demands. To measure demand, researchers at the Athens Research Lab have drawn a 75-mile straight-line market area radius around each forest. Using available survey data, the report summarizes who lives in this *market area*, their recreation participation and demographic change profiles, and the equity implications of managing for different recreation activities. The recreation participation survey data presented is from the National Survey on Recreation and the Environment (NSRE), an on-going national telephone survey sponsored by the U.S. Forest Service. U.S. Census and the Woods and Poole, Inc. econometric projections are the sources for demographic data.

## On Analysis Assumptions

### The 75-Mile Market Area

Analyses in this assessment are based on a 75-mile market area. At least two considerations justify this 75-mile radius. First, past research has demonstrated that most national forest trips originate from within a 75-mile (1 ½ hour driving time) radius. Thus, most recreation trips derive from within the market area. Second, variation in preferences varies surprisingly little for broad population groups (i.e. age strata) across geographic areas. While these factors reassure us that the use of the market area provides a reasonable basis for guiding realignment decisions, the market area assumption does not hold in all cases. In particular, this assumption excludes the minority of recreationists who travel long distances to participate in activities -- the avid

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<sup>1</sup> For clarification or further assistance, contact Ken Cordell at [kcordell@fs.fed.us](mailto:kcordell@fs.fed.us) or call 706-559-4263.

backpacker, rockclimber, and snowbirder. Some forests are known for high-quality experiences among these niche users. We have designed a special exercise to account for enthusiasts and niche markets later in this report.

### Combining Forests

Some reports have market areas that include two or more nearby Forests. This has been done for efficiency in producing reports, but also in recognition that these nearby forests share local markets and have similar geography and demographic patterns. A list of reports for individual and combinations of forests follows:

### Realignment Reports Prepared

1. Ocala and Osceola National Forests
2. Apalachicola and Conecuh National Forests
3. Talladega, William Bankhead, and Tuskegee National Forests
4. Delta, Homochitto, Bienville, Desoto National Forests
5. Tombigbee and Holly Springs National Forests
6. Kisatchie, Sabine, Angelina, Davy Crockett, and Sam Houston National Forests
7. Ouachita and Ozark National Forests
8. Oconee and Sumter National Forests
9. Uwharrie National Forest
10. Francis Marion National Forest
11. Croatan National Forest
12. Chattahoochee National Forest
13. Nantahala, Pisgah, Cherokee National Forest
14. Jefferson National Forest
15. George Washington National Forest
16. Daniel Boone National Forest

### **Vision of Interactive Session: How to Use this Report**

1. This report is designed to be used in a facilitated workshop. It consists of 10 “analysis” steps which are designed to familiarize workshop participants with four broad sets of data describing: (1) Who lives in the market area, and what their recreation preferences are (Steps 1-3); (2) How population is expected to grow and how this will impact recreation demand (Step 4-6); (3) What the “niche” recreation settings or activities are on the Forest and what segments of the population will or will not be served if these activities are emphasized (i.e., what the “Civil Rights — Title VI” implications of providing different niche activities are) (Steps 7-8); (4) What other local private suppliers in the market area are providing (Step 9); and finally, Summary Reflections and Conclusions (Step 10).
2. The report has been divided into the following 10 “steps”:
3. The 10-Step Program to Recreation Realignment
  - a. Step 1 Population Analysis - Summarizes population change in the market area;
  - b. Step 2 Recreation Participation Analysis/Activity Segmentation - Summarizes overall outdoor recreation participation and then segments these activities into three types;

- c. Step 3 Analysis of Highest Growth Outdoor Recreation Activities, 1995 - 2001 by type
- d. Step 4 Detailed Recreation Participation Analysis by Demographic Strata - Overviews population composition and expected growth of 7 major demographic groups (age, gender, race, income, household type, urban-rural, and disability status) for forest-based outdoor recreation activities;
- e. Step 5 Activity Score Summary Sheet - Summarizes frequency of forest-based activities from exercises in step 4;
- f. Step 6 Summing Activity Scores Over Steps 2-4;
- g. Step 7 Niche Activity Exercise - An exercise where each Forest identifies their most important Niche Activities;
- h. Step 8 Equity Analysis - An exercise that identifies what populations are being served by the management of these activity settings;
- i. Step 9 Private Suppliers of Outdoor Recreation Analysis - An overview of what other suppliers in the market area provide, and;
- j. Step 10 Summary, Concerns and Follow-up - An opportunity for participants to record observations, concerns, and questions raised in steps 1-9.

Working through the steps above and using managers' local knowledge of users, their resource, and other providers in a National Forest market area, it is envisioned that a Forest can better target recreation provision for the benefit of the public. All information provided in this report is the product of available data. Not all potentially useful data is available; however. This report provides as much current data as possible within a limited timeframe and budget for use in realignment decisions. This report has been designed for use in an interactive meeting or workshop. Appendices have been designed for reference during the workshop and to be kept as a desk reference for future use.

## **Report Contents**

- I. Report Text
  - ▶ The Realignment Context: Some General Observations About Outdoor Recreation in the Southern Region.
  - ▶ Analysis Steps 1-10 with graphics and bullet statements highlighting key findings and guiding managers through 10 analytical exercises or steps exploring the customer base, its recreation participation profiles, and its changing demographic composition.
- II. Appendices
  - ▶ A complete set of formatted data tables:
  - ▶ Appendix I: descriptive statistics about counties in the market area;
  - ▶ Appendix II: detailed population growth and demographic data describing changes in the market area, including state and regional comparisons, temporal comparisons (1990 - 2000) and projections out to 2020.
  - ▶ Appendix III: total participation profiles for 1995 and 2001 by activity for over 40 activities and detailed demographic information describing who participates in these activities;
  - ▶ Appendix IV: non-Forest Service outdoor recreation providers in market area.

**The Realignment Context:  
Some General Observations About Outdoor Recreation in the Southern Region<sup>2</sup>**

- ▶ Top recreation activities in which Southerners participate include walking for pleasure, attending family gatherings, visiting nature centers, sightseeing, driving for pleasure, picnicking, viewing or photographing natural scenery, and visiting historic sites. Far down the list in popularity are high technology, high skill activities such as rock climbing and whitewater kayaking that often occupy much of the attention of forest recreation managers.
- ▶ Participation in most outdoor recreation activities has been growing steadily over the last few years. Of forest-based activities, viewing and photographing fish, wildlife, birds, wild flowers, and native trees are among the fastest growing in the South. Other fast growing activities include jet skiing, kayaking, day hiking, and backpacking.
- ▶ To Southerners, outdoor recreation is a highly important part of their lifestyles. But because of climate and types of forest settings, the abundance of forests in the South, in comparison with other less forested regions of the country, does not result in higher forest recreation participation.
- ▶ Twenty-six percent of residents of the South participate in gathering a wide variety of non-timber forest products (NTFPs). Most do so non-commercially. Sustaining availability of some NTFP resources will depend in large part on institutional capacities for education, monitoring, incentives, land management, and other conservation actions.
- ▶ Numerous recreation opportunities of many types are available across the South. They are found in a wide variety of settings, ranging from large tracts of undeveloped land to highly developed theme parks in largely urban settings, both in public and private ownerships.
- ▶ Of public ownerships, federal tracts typically are large and mostly undeveloped. They fill a niche of providing backcountry recreation. State parks and forests are usually smaller and more developed. They provide camping, picnicking, swimming, fishing, nature interpretation, and scenery.
- ▶ The outdoor recreation supply potentials of public lands will depend on policy evolution. On Southern National Forests, greater protection of roadless lands is likely, while at the same time recreation is increasingly finding its way to the tops of the priority lists of national

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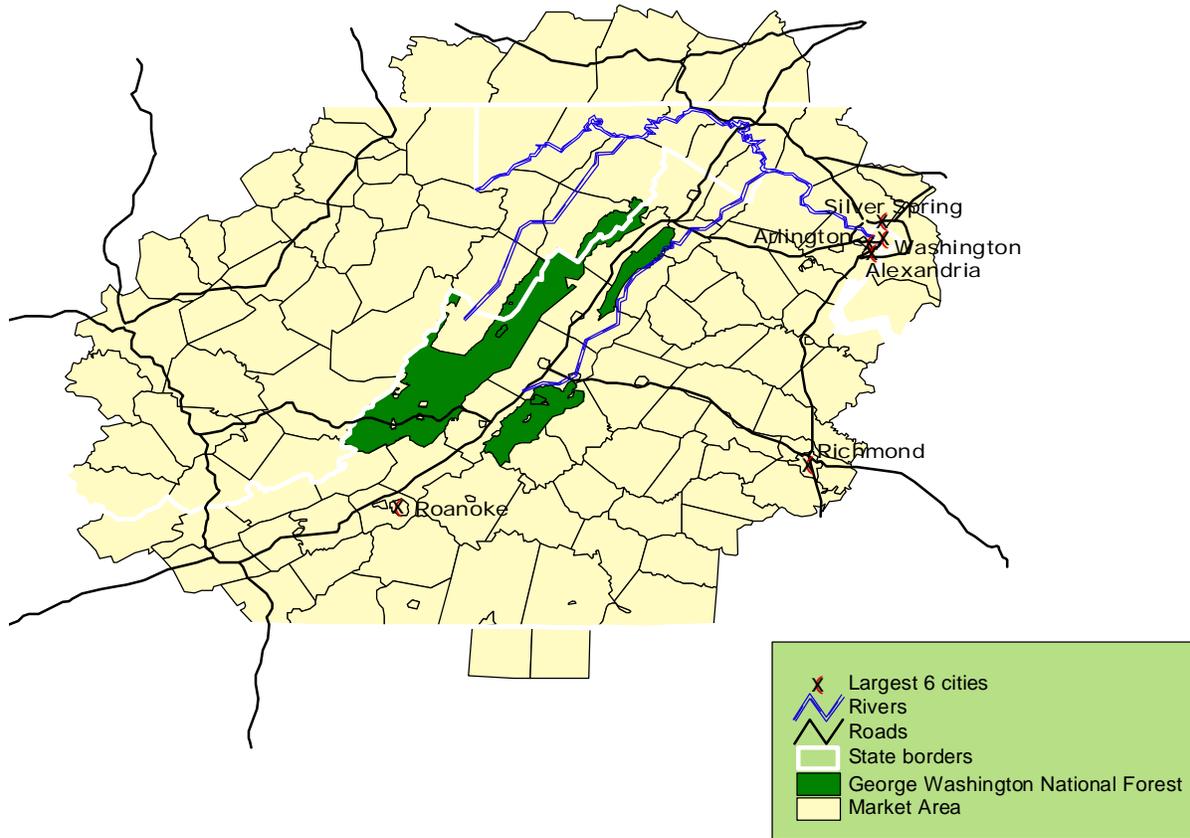
<sup>2</sup> Cordell, H. Ken and Michael A. Tarrant. 2002. Socio-6: Forest-based Outdoor Recreation. Wear, David N. and John G. Greis (eds.). Southern Forest Resource Assessment Final Report. General Technical Report SRS-xx. Asheville, NC: US Department of Agriculture, Forest Service, Southern Research Station.

forest managers. These trends are not as yet, but should be linked by explicit policies. National Parks will serve a different supply role because they are managed first to protect park resources and secondly for public enjoyment. On Fish and Wildlife Service refuges, recreation is viewed as an incidental or secondary use and is not allowed unless it is directly related to a refuge's primary purposes.

- ▶ While continuing to grow, adjust and adapt, Southern state land systems, especially state parks, have reached a point of seeming maturity as a recreation resource, except for expansion of high-end resort developments which provide better sources of revenue.
- ▶ Recreation access to private land is increasingly limited to the owners themselves, their families or friends, and lessees. The number of Southern private owners allowing the public to recreate on their land has been decreasing over time.
- ▶ Accommodating future public recreation demand increases will likely fall mostly to public providers, most of whom will likely continue to face significant budget and capacity constraints. Some of this pressure would be reduced if private owners, the primary group of forest owners in the Region, were willing to open more of their vast forested land holdings to public recreation. Current trends are not promising, however. Increasing demands for off-road vehicle use, hunting, fishing, and other of the more consumptive recreational activities are likely to bring about more recreation participant/land owner conflicts over time.
- ▶ As forest recreation demands grow, recreation activities are likely to conflict more with each other, especially on trails, in backcountry, at developed sites, on flat water (large rivers and lakes), in streams and whitewater, and on roads and their nearby environs. Typically a greater degree of conflict is perceived by one group of recreation users (usually traditional and non-motorized users) than is perceived by other groups (usually non-traditional and mechanized/motorized users).
- ▶ Depending on the characteristics of recreation use, the forest site, and site management, recreation can have a variety of impacts on soils, water, vegetation and animal life. Almost all types of recreation activity have impacts, but this is especially so for motorized uses.
- ▶ Forested areas in the South with heavy recreation pressures include the coastal Carolinas; coastal Florida; coastal Alabama, Mississippi, and Louisiana; the "Piedmont Crescent," south central Mississippi, the Ozark and Ouachita Mountains, and northeastern West Virginia.

## **Step 1. – Population Analysis**

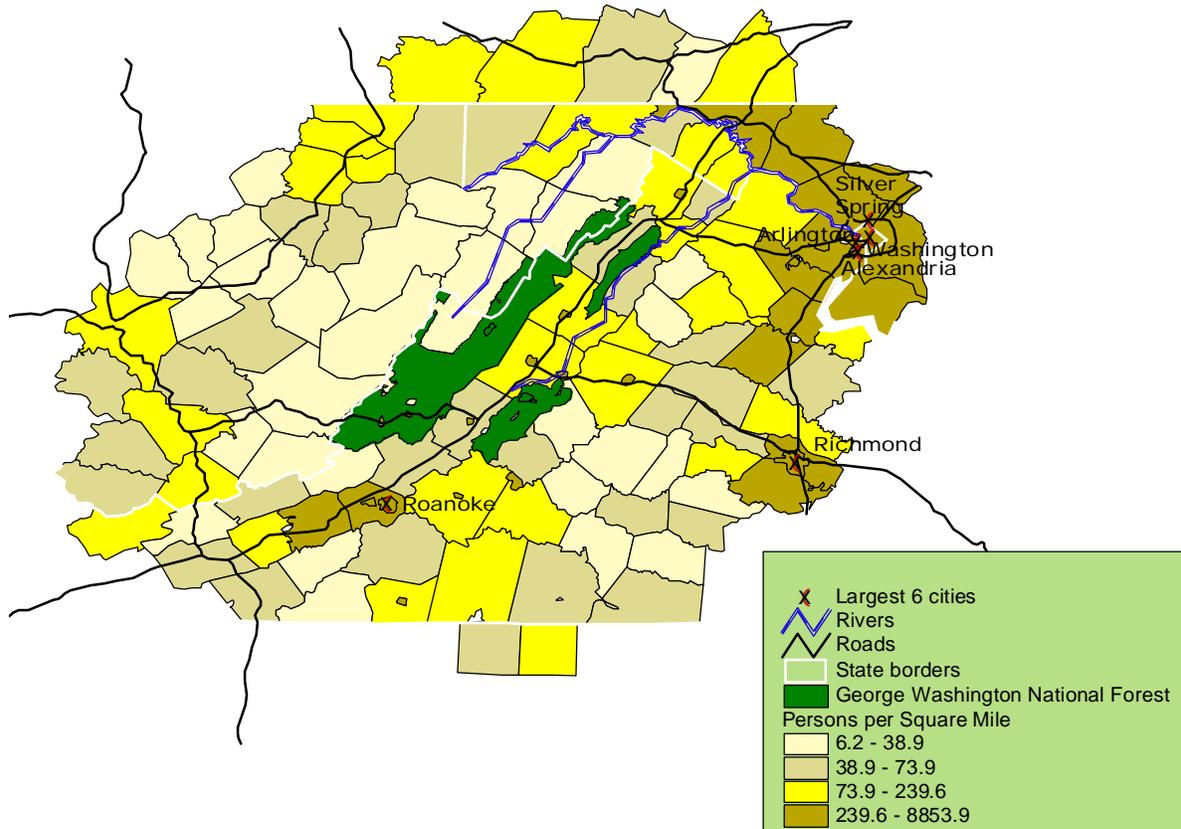
### **Step 1.1 -- The Market Area Defined**



- ▶ Through out this report, data will be presented under the heading “Market Area.” The Market Area is defined as all counties that fall within a 75-mile straight-line radius from the forest border. The market area of this report for the George Washington National Forest is shown above.

## Step 1. – Population Analysis

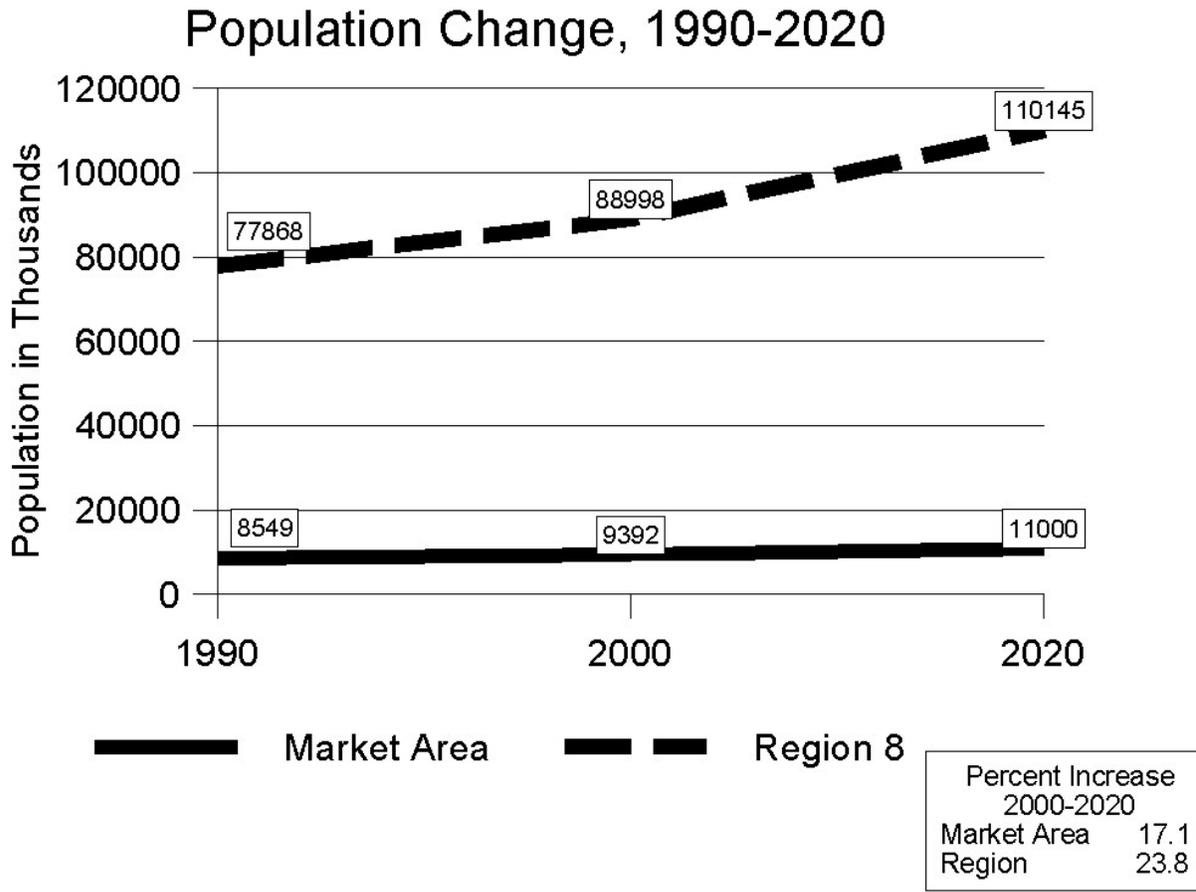
### Step 1.2 -- Persons Per Square Mile by County in Market Area



- ▶ This map shows the number of persons per square mile by county in the market area. Counties with the darkest shading have the most dense populations (239.6-8853.9 persons per square mile).
- ▶ Its clear that many of the more dense counties in this market area occur around the major cities and along major transportation corridors including Interstates 64, 66, 77 and 81.
- ▶ As population in the market area grows and develops, public lands in the area will increasingly be seen as a place of relaxation, a quiet, peaceful retreat from the built community.

## Step 1. – Population Analysis

### Step 1.3 -- Total Population, 1990 - 2020, and Projected Percent Change 2000 - 2020 in Market Area and Region



Source: Table I. 1

- ▶ This figure shows total market area and regional population, 1990 - 2020.
- ▶ You currently have 9,391,800 persons in your market area.
- ▶ As you can see from the inset box, this market area has lower expected growth than the region as a whole. As such, you can probably expect less pressure from recreation on your Forest than on forests in the region as a whole (cf. Table I a.2).

**Step 1. – Population Analysis**

**Step 1.4 -- Fastest and Slowest Growing Counties, 2000- 2020**

Fastest Growing	Projected Percent Change, 2000-2020	Slowest Growing	Projected Percent Change, 2000-2020
1) Howard, MD	56.9	1) Alleghany, VA	-6.3
2) Prince William, VA	55.5	2) Allegany, MD	-8.9
3) Stafford, VA	51.8	3) Lunenburg, VA	-10.7
4) Chesterfield, VA	49.6	4) Richmond City, VA	-11.7
5) Fauquier, VA	43.1	5) McDowell, WV	-15.4

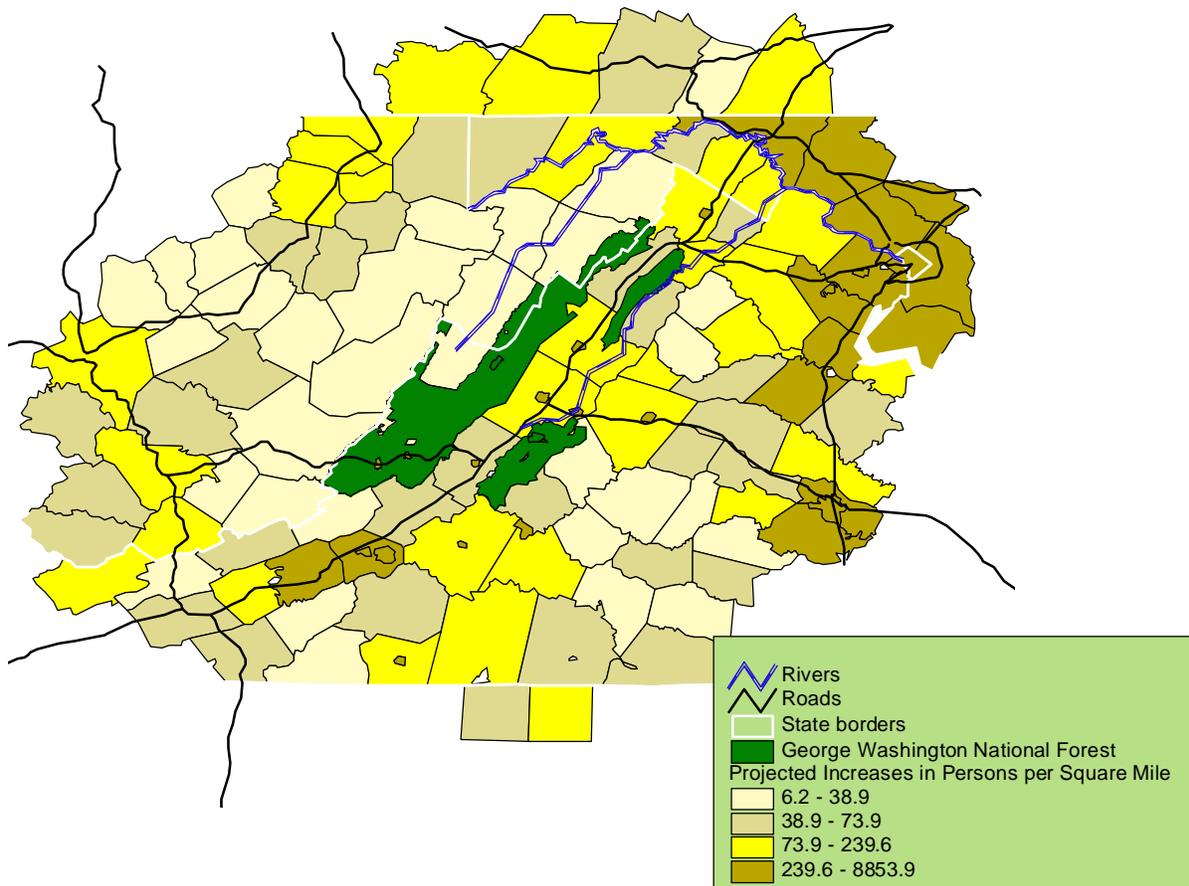
- ▶ The table above lists the 5 fastest and 5 slowest growing counties in your market area. For a complete list of all counties by population growth, see Appendix I, Table 1 “Overview of Market Area”.
- ▶ **Exercise:** Using the box below, list all the counties which are adjacent to your management area. List all that you can recall. Then go to Appendix I, Table 1 and record the projected population growth for each county you listed. This will familiarize you with population change in your work area.

**Step 1.5 -- Projected Population Change in Counties Nearest My Districts (Source: Table I.1)**

County Name	Projected Population Change 2000-2020 (%)

## Step 1. – Population Analysis

### Step 1.6 -- Projected Increase in Persons Per Square Mile 2000 - 2020



- ▶ The map on this page shows the projected growth in persons per square mile in your market area. The counties with the darkest yellow shading are increasing most in density (i.e., in persons per square mile).
- ▶ **Exercise:** Noting the population trends and changes that are expected and the geographic patterns of faster- or slower-growth counties, take a moment to reflect on the implications concerning which Forest corridors and recreation areas might be most impacted in the future. Record your observations below:

### Step 1.7 -- Observations on Locational Implications of Growth on my Forest and Districts


## **Step 2. – Recreation Participation Analysis and Segmentation of Activities**

- ▶ Population growth and change represents one important dimension of recreation realignment. As populations grow there is likely to be greater recreation demand, but for which activities?
- ▶ In Steps 2-4 to follow, we will explore 3 separate dimensions of demand. First, we explore the 20 top activities in the region in terms of overall participation (Step 2). Second, we explore the fastest growing activities (Step 3). Finally, we look at activity demand by demographic strata and growth in demographic strata (Step 4). Then, in Steps 5 and 6 we combine these dimensions to arrive at a “big picture” of market area recreation demand.
- ▶ Step 2: The table on the following page -- “Top 20 Recreation Activities in Order of Popularity” -- represents a first “cut” in understanding demand for outdoor recreation. It presents the 20 most popular outdoor activities in the region as a whole by the percentage and number of persons participating at least once/year. As broadly enjoyed outdoor activities, these can be thought of as representing core general demands of the public at large for outdoor recreation.
- ▶ Take a minute to review the most popular activities in the region in order of popularity.
- ▶ In order to target outdoor recreation activities most relevant to forest settings *and to your market area* we next segment these activities into three types.

**Step 2.1 -- Top 20 Activities in the Region in Order of Popularity** (Source: Table III. 3a)

Activity	Region 8	
	Percent participated 2001	Number (millions) participated 2001
Walk for pleasure	81.0	55.97
Family gathering	72.3	49.96
View/photograph natural scenery	55.5	38.35
Visit nature centers, etc.	53.1	36.69
Sightseeing	51.4	35.52
Driving for pleasure	50.6	34.96
Picnicking	49.1	33.93
Visit historic sites	43.1	29.78
View wildlife	42.5	29.37
Swimming in natural water	40.0	27.64
Bicycling	34.2	23.63
View birds	30.8	21.28
Visit a wilderness	29.5	20.38
Warmwater fishing	28.5	19.69
Gather mushrooms, berries, etc.	26.9	18.59
Day hiking	26.2	18.10
Visit waterside besides beach	25.9	17.90
View or photograph fish	25.5	17.62
Developed camping	21.9	15.13
Visit archeological sites	19.7	13.61

**Step 2.2 -- Segmentation of Activities**

**Step 2.2a -- Type I Activities** - These are activities that are *broadly popular across demographic groups in your market area*. Because of their common popularity, it is recommended that managers broadly provide these wherever possible, especially those with more than 50 percent participation.

**Type I Activities - Broadly Popular Activities in Market Area; Percent and Number of Participants (in millions) (Source: Table III. 3b)**

	% Participated	# Participants
Walk for pleasure	84.9	6.14
Family gathering	75.4	5.45
Picnicking	60.0	4.34
Visit historic sites	59.9	4.33
Visit nature centers, nature, museums, etc.	59.8	4.32
View/photograph natural scenery	59.6	4.31
Sightseeing	54.4	3.93
Driving for pleasure	52.8	3.82
Bicycling	38.7	2.80
Boating	33.5	2.42
Motorboating	19.5	1.41

(Source: Table II, 3a)

- ▶ **Exercise:** In the space provided below, record all activities that over 50 percent of the public in your market area enjoys at least once/year.

**Step 2.2a1 — Activities Enjoyed by at least 50 percent of your Market Area**


- ▶ For the remainder of the report, we focus on Type II and Type III activities. These are activities at the mid-levels of popularity (Type II) and “niche” activities (Type III).

**Step 2.2b — Type II Activities -**

*especially suitable for National Forests*

for the most popular of these activities among residents of your market area. This idea of

where activities are scored across multiple criteria, popularity being one.

**Participants (in millions) (Source: Table III. 3d)**

		# Participants
	46.2	
View or photograph wildflowers, trees,	44.7	
Swimming in streams, lakes, ponds, or	40.3	
Day hiking		2.29
	31.7	
Visit a wilderness or other primitive,	31.2	
Gather mushrooms, berries, and other	28.4	
Visit waterside besides beach		1.93
	24.9	
View or photograph fish		1.70
	20.7	
Developed camping		1.37
	16.6	
Primitive camping		0.88
	8.9	
Backpacking		0.64
	7.1	
Small game hunting		0.48

- are activities that take advantage of unique, their special nature, it is recommended you emphasize when your resources are unique and high

**Type III Activities - Niche Activities for Forests with Unique Resources; Percent and**

	% Participated	
Visit archeological sites		1.81
	14.6	
Saltwater fishing		0.74
	9.3	
Canoeing		0.66
	5.8	
Waterskiing		0.40
	3.0	
Migratory bird hunting		0.08

### Step 3. – Analysis of Fastest Growing Outdoor Recreation Activities

(Source: Table III, 3e)

Activity	Absolute change, 1995 to 2001	Percent change in number of participants, 1995 to 2001
View or photograph fish	0.82	85.0
View wildlife	1.05	39.6
Day hiking	0.64	33.2
Horseback riding on trails	0.14	31.5
View birds	0.38	14.9
Drive off-road	0.18	12.9
Primitive camping	0.11	9.0
Big game hunting	0.06	6.0
Developed camping	0.12	5.6
Backpacking	0.05	4.7
Warmwater fishing	0.10	2.5
Swimming in streams, lakes, ponds, or the ocean	0.11	-0.2
Small game hunting	-0.03	-10.8

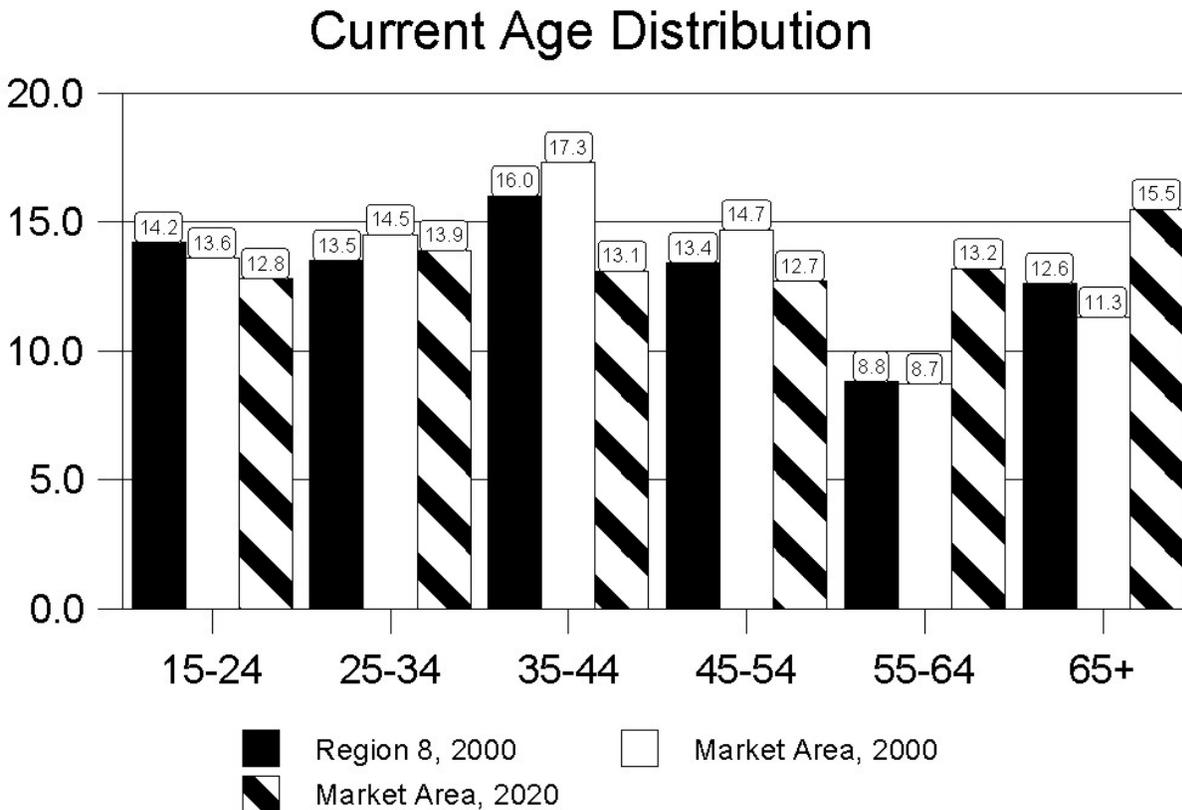
- ▶ A second important dimension of demand in the market area is captured by considering which outdoor recreation activities are growing fastest in terms of total participation. Some activities are in decline while others are increasing in demand. In this table, Type II activities are organized by rate of growth from 1995-2001 in your market area. Those which have experienced the highest rate of growth are at the top of table.
- ▶ **Exercise:** In the space provided below, please record the fastest growing Type II activities in your market area. Record up to 6 activities. Remember the absolute change numbers are in millions of participants.

#### Step 3.1 -- Fastest Growing Activities in your Market Area


## Step 4. – Recreation Participation Analysis by Demographic Strata

- ▶ We have overviewed 2 dimensions of demand, total participation (i.e., most popular activity) and fastest growing activity 1995-2001. In Step 4, we walk through an analysis the recreation preferences of each of 7 demographic categories (e.g., age, gender, household size, race, income, urban-rural status and disability status). For each one, first we summarize the distribution of the population by strata (e.g. age strata). Second, we consider the current recreation preferences of each strata. Finally, we examine the projected growth of each strata and consider the implications of this projected growth for recreation demand. We start with age and proceed from there. In the end, we will summarize what we have learned about demand in the market area across all demographic groups.

### Step 4.1 – Age



(Source: Table II. 2b,c)

- ▶ The age distribution of the population differs to some extent from market area to market area. In part, this is related to the strength of area economies, migration and immigration. The age distribution is important to consider in recreation management because people’s outdoor recreation activities are highly age dependent. The previous figure shows the distribution of ages in the region and market area.

**Step 4.1.a – Current Age Distribution**

- ▶ The table below lists favored activities by age strata. The activities listed for each strata below are those in which the age strata makes up a disproportionately greater share of the participants compared to their percentage of the population as a whole. This can be interpreted as activities each age strata favors. If you manage for such favored activities, which activities would you emphasize?

Favored Activities by Age Strata (Source: Table III. 4b1-6)

Age Strata	Favored Activities	Percent of Age Strata in Market Area
15-24	1. Backpacking 2. Primitive camping 3. Mountain biking	13.6
25-34	1. Drive off-road 2. Developed camping 3. Visit waterside besides beach	14.5
35-44	1. Horseback riding on trails 2. Mountain biking 3. Warmwater fishing	17.3
45-54	1. Small game hunting 2. Big game hunting 3. View wildlife	14.7
55-64	1. Big game hunting 2. View birds 3. View wildlife	8.7
65+	1. View birds 2. View or photograph wildflowers, trees, or other natural vegetation 3. Gather mushrooms, berries, and other non-timber products	11.3

**Step 4.1.b – Future Age Distribution**

How Will Population Age Structure Change 2000 - 2020? (Source: Table II. 2e)

Age Group	Market Area		Region 8	
	Absolute change (1000's), 2000 to 2020	Percent change, 2000 to 2020	Absolute change (1000's), 2000 to 2020	Percent change, 2000 to 2020
15-24	128.6	10.1	1,865.6	14.7
25-34	162.1	11.9	2,460.7	20.5
35-44	-181.9	-11.2	-708.3	-5.0
45-54	19.1	1.4	826.0	6.9
55-64	632.0	77.5	6,339.3	80.6
65 & older	643.1	60.7	7,363.5	65.4

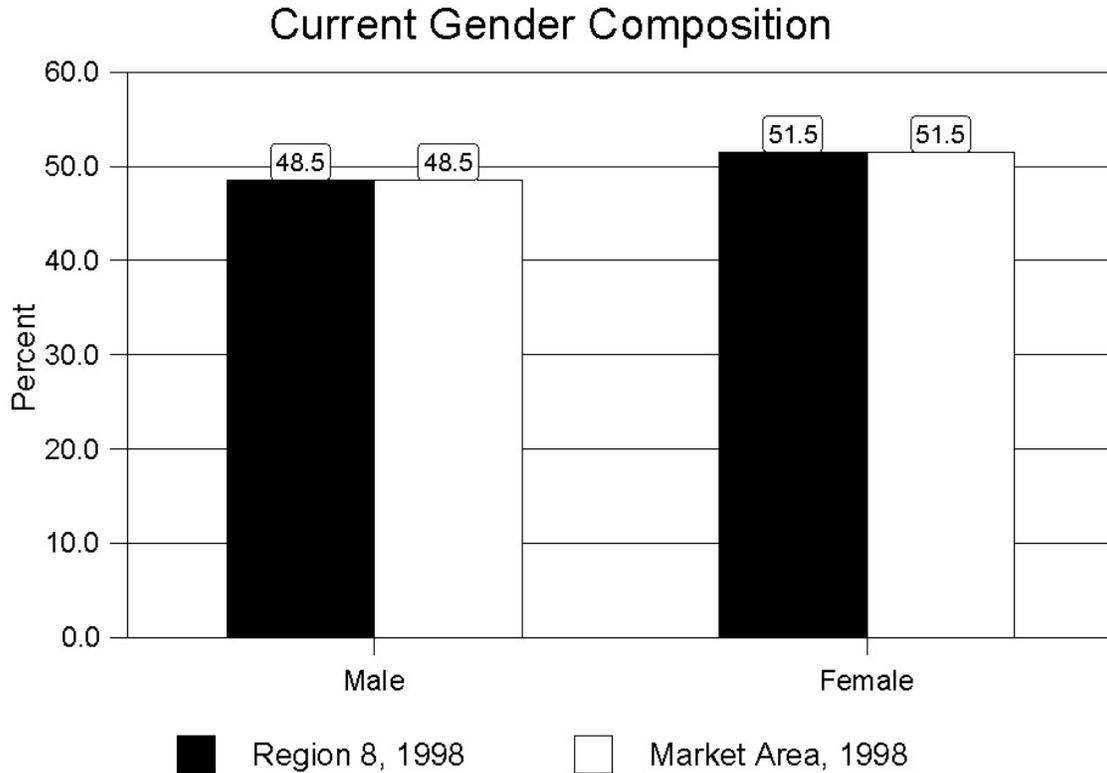
- ▶ In the future, the population of the United States is expected to age. The median age in the United States has risen steadily since the 1800s in part due to increases in medical technology and hygiene, and rising real income. In 1850, the median age was 18.9 years, in 1990 in was 32.8. By 2020, the median age is expected to increase 8.5 percent to about 38 years. As the population ages, their recreation preference profile will change. Activities that older people like to do will become more popular and enjoy increases in demand on recreation areas.
- ▶ The table above shows percent increases in each of the age strata in the market area, 2000 - 2020.
- ▶ 65+, 55-64, and 25-34 are the highest growth strata (in absolute numbers) in the market area.
- ▶ Given the aging of the market area, which activities does this suggest you might market to/provide more of in the future?

### **Step 4.1.c – Favored Activities of Fastest Growing Age Groups**

(Source: Table III. 4b1-6)

High Growth Age Strata	Favored Activities
65+	<ol style="list-style-type: none"><li>1. View birds</li><li>2. View or photograph wildflowers, trees, or other natural vegetation</li><li>3. Gather mushrooms, berries, and other non-timber products</li></ol>
55-64	<ol style="list-style-type: none"><li>1. Big game hunting</li><li>2. View birds</li><li>3. View wildlife</li></ol>
25-34	<ol style="list-style-type: none"><li>1. Drive off-road</li><li>2. Developed camping</li><li>3. Visit waterside besides beach</li></ol>

## **Step 4.2 – Gender**



(Source: Table II. 8)

### **Step 4.2.a – Current Gender Composition**

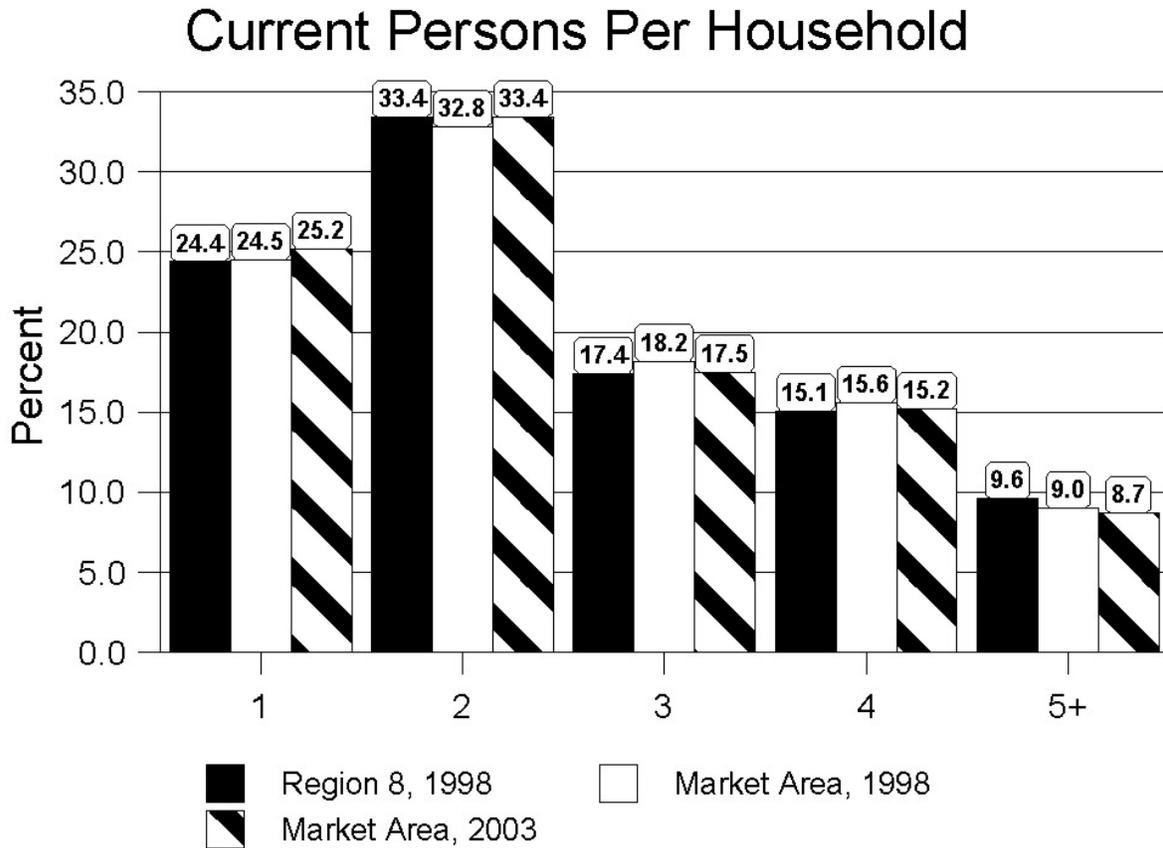
- ▶ Gender is highly important as well as a determinant of the activities people chose. Women prefer some activities in much higher numbers than men. Thus the gender distribution and different preferences of men and women are important considerations in supplying outdoor recreation programs to serve the public. The figure above shows the gender distribution in the region and market area.
  
- ▶ If you marketed for activities disproportionately preferred by gender, which activities would you emphasize?

Favored Activities by Gender Strata (Source: Table III. 4a1-2)

Gender Strata	Favored Activities	Percent of Gender Group in Market Area
Female	<ol style="list-style-type: none"> <li>1. View birds</li> <li>2. View or photograph wildflowers, trees, or other natural vegetation</li> <li>3. View wildlife</li> <li>4. Visit waterside besides beach</li> <li>5. Swimming in streams, lakes, ponds, or the ocean</li> </ol>	51.5
Male	<ol style="list-style-type: none"> <li>1. Big game hunting</li> <li>2. Small game hunting</li> <li>3. Primitive camping</li> <li>4. Backpacking</li> <li>5. Warmwater fishing</li> </ol>	48.5

- ▶ Because the gender distribution does not tend to vary across time (i.e. the proportion of males and females generally stays the same), we will not consider the projected change in gender composition, as we will for other demographic categories.

### Step 4.3 – Household Size



(Source: Table II. 3b)

#### Step 4.3.a – Current Household Distribution

- ▶ The household type varies somewhat from market area to market area. In part, this is related to the age, wealth and ethnic structure of an area. Different household types (families, singles, childless couples, retirees, etc) may have different recreation setting and experience preferences. The figure above shows the distribution of regional and market area residents by household size.
- ▶ If you managed for household types, which activities would you emphasize?

Favored Activities by Household Type (Source: Table III. 4c1-5)

Household Type Strata	Favored Activities	Percent of Household Type Group in Market Area
1 person household	1. Day hiking 2. Gather mushrooms, berries, and other non-timber products 3. View birds	24.5
2 person household	1. View birds 2. View wildlife 3. View or photograph fish	32.8
3 persons household	1. Big game hunting 2. Small game hunting 3. Mountain biking	18.2
4 person household	1. Primitive camping 2. Backpacking 3. Developed camping	15.6
5 or more	1. Horseback riding on trails 2. Big game hunting 3. Warmwater fishing	9.0

**Step 4.3.b – Future Household Distribution**

How Will Household Structure Change 1998 - 2003? (Source: Table II. 3e)

Household Size	Market Area		Region 8	
	Absolute change, 1998-2003	Percent change, 1998-2003	Absolute change, 1998-2003	Percent change, 1998-2003
1 person	67.8	7.9	961.5	12.1
2 person	81.8	7.1	1080.5	9.9
3 person	4.4	0.7	174.2	3.1
4 person	14.8	2.7	241.4	4.8
5 persons or more	6.2	2.0	134.0	4.3

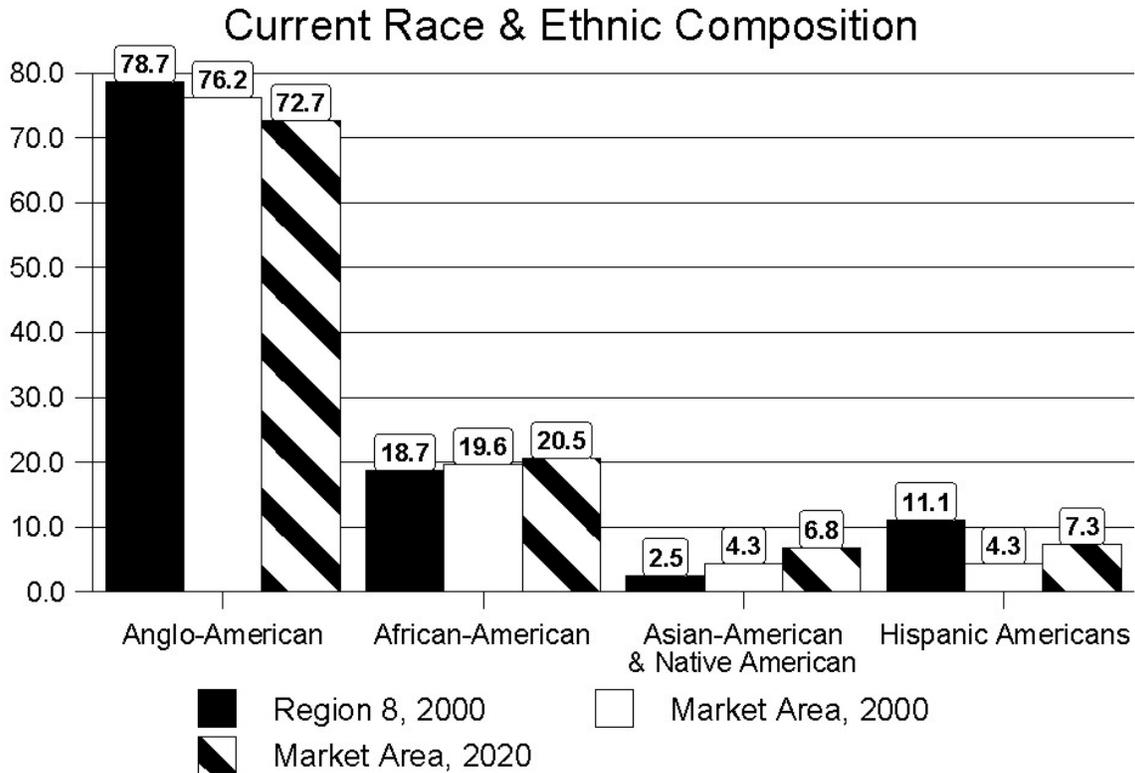
- ▶ In the future in the United States the population will continue to age and young people are expected to continue to delay marriage until their mid- and late- 20s. As these trends “mature” in the future, there are likely to be fewer larger households in the United States as a whole.

- ▶ The table above shows percent increases in each of the household strata in the market area, 1998 - 2003.
- ▶ 2-person, 1-person, and 4-person households are the highest growth strata.
- ▶ Given the nature of changing household structure to smaller sized households in the market area, which outdoor recreation activities would you want to consider providing more of in the future?

**Step 4.3.c – Favored Activities of Fastest Growing Household Size**

High Growth Household Type Strata	Favored Activities
Highest growth	<ol style="list-style-type: none"> <li>1. View birds</li> <li>2. View wildlife</li> <li>3. View or photograph fish</li> </ol>
2 <sup>nd</sup> Highest growth	<ol style="list-style-type: none"> <li>1. Day hiking</li> <li>2. Gather mushrooms, berries, and other non-timber products</li> <li>3. View birds</li> </ol>
3 <sup>rd</sup> Highest growth	<ol style="list-style-type: none"> <li>1. Primitive camping</li> <li>2. Backpacking</li> <li>3. Developed camping</li> </ol>

## Step 4.4 – Race & Ethnicity



(Source: Table II. 4c)

### Step 4.4.a – Current Race/Ethnic Distribution

- ▶ Shifting racial and cultural ethnicity of the population is one of the most dramatic of social changes occurring in the United States. While a little less pronounced in this region than in others, growth of the Hispanic and Asian populations in the US is occurring at rates sufficient for size of these groups to exceed the African American population before the end of the century. The race and ethnic distribution is important to consider in recreation management because people's outdoor recreation activities tend to differ across race strata. The figure above shows the distributions of residents in the region and market area residents by race/ethnicity.
  
- ▶ If you managed for recreation activities preferred by one race class more than the population as a whole, what activities would you emphasize?

Favored Activities by Race Strata (Source: Table III. 4d1-4)

Race Group Strata	Favored Activities	Percent of Race Group in Market Area
Anglo Americans	1. Backpacking 2. Small game hunting 3. Big game hunting	76.2
African American	1. View or photograph fish 2. Visit waterside besides beach 3. View or photograph wildflowers, trees, or other natural vegetation	19.6
Asian Americans/ American Indians	1. View birds 2. View wildlife 3. Primitive camping	4.3
Hispanic Americans	1. Day hiking 2. Horseback riding on trails 3. Mountain biking	4.3

**Step 4.4.b – Current Race/Ethnic Distribution**

How Will the Race and Ethnicity of the Population Change 2000 - 2020? (Source: Table II. 4h)

Race/ethnicity	Market Area		Region 8	
	Absolute change (1000's), 2000 to 2020	Percent change, 2000 to 2020	Absolute change (1000's), 2000 to 2020	Percent change, 2000 to 2020
Anglo American	840.6	11.8	14,545.5	20.8
African American	416.8	22.7	4,825.3	28.9
Asian/American Indian	350.7	87.7	1,776.3	79.3
Hispanic American	397.6	98.1	7,931.9	80.2

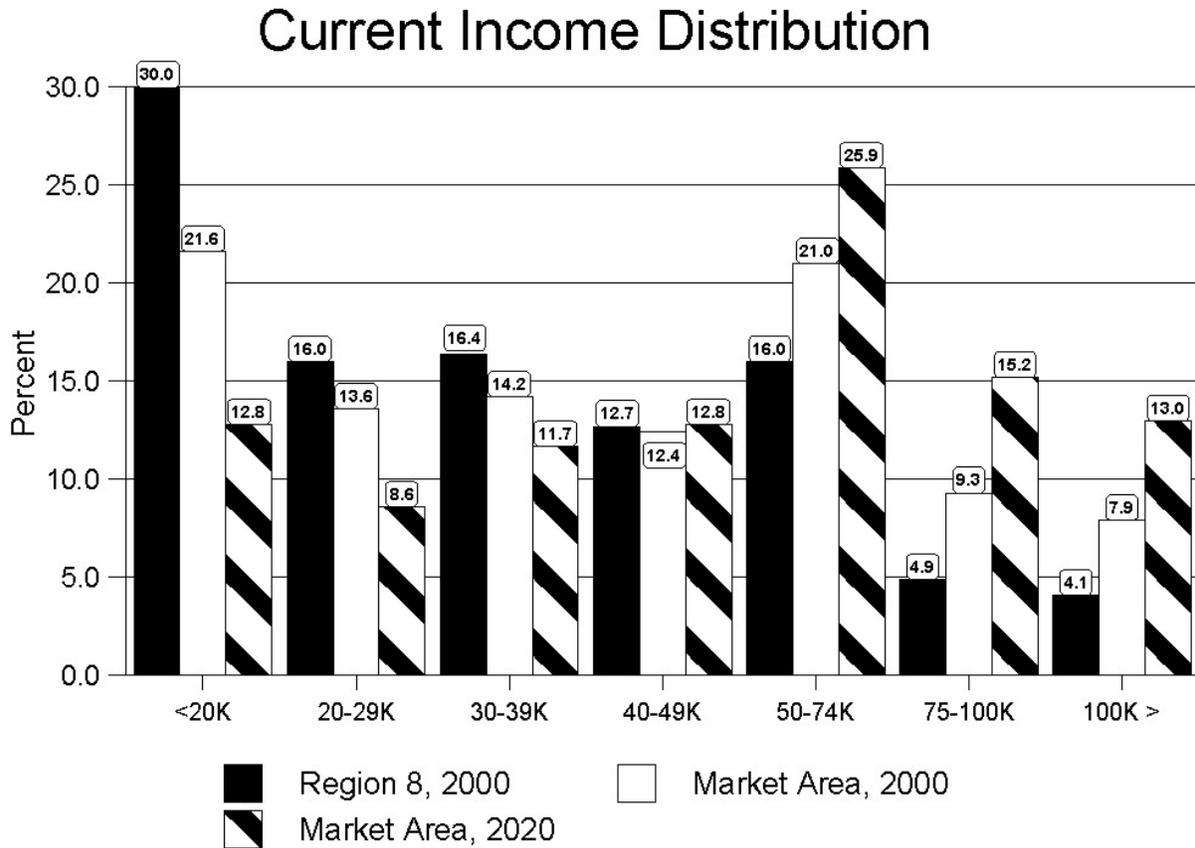
- ▶ Over the next 50 years, the racial composition is projected to change dramatically in the United States. Between 1990 and 2050, the proportion of Anglo Americans are expected to decline from more than 76 percent to just over 50 percent. Shortly thereafter, Anglo Americans will no longer be a numerical majority. Considerable growth is expected in Hispanic populations in particular. As increases occur more in some race strata than others, the activities that these strata participate in are likely to experience increased demand.

- ▶ The table above shows percent increases in each of the race strata in the market area, 2000 - 2020.
- ▶ Anglo American, African American, and Hispanic American groups are the highest growth strata.
- ▶ Given the changing racial composition in the market area, which activities would you want to consider providing more of in the future?

**Step 4.4.c – Favored Activities of Fastest Growing Race Group**

High Growth Race Group Strata	Favored Activities
Highest growth race group	<ol style="list-style-type: none"> <li>1. Backpacking</li> <li>2. Small game hunting</li> <li>3. Big game hunting</li> </ol>
2 <sup>nd</sup> highest growth race group	<ol style="list-style-type: none"> <li>1. View or photograph fish</li> <li>2. Visit waterside besides beach</li> <li>3. View or photograph wildflowers, trees, or other natural vegetation</li> </ol>
3 <sup>rd</sup> highest growth race group	<ol style="list-style-type: none"> <li>1. Day hiking</li> <li>2. Horseback riding on trails</li> <li>3. Mountain biking</li> </ol>

## Step 4.5 – Income



(Source: Table II. 5b)

### Step 4.5.a – Current Income Distribution

- ▶ Income is very much linked to recreation participation choices. Incomes in the South have been rising, but not uniformly. Some counties still have persistently high levels of poverty and some have actually declined a little in real income. Income gains or losses in a market area can provide another source of information about how to align recreation management with demand conditions.
- ▶ If you marketed to current income groups, which activities would you emphasize?

Favored Activities by Income Strata (Source: Table III. 4e1-11)

Income Strata (dollars) K=1,000	Favored Activities	Percent of Income Group in Market Area
< \$20,000	<ol style="list-style-type: none"> <li>1. Horseback riding on trails</li> <li>2. Visit a wilderness or other primitive, roadless area</li> <li>3. Gather mushrooms, berries, and other non-timber products</li> </ol>	21.6
\$20-29,999	<ol style="list-style-type: none"> <li>1. Gather mushrooms, berries, and other non-timber products</li> <li>2. Drive off-road</li> <li>3. View or photograph wildflowers, trees, or other natural vegetation</li> </ol>	13.6
\$30-39,999	<ol style="list-style-type: none"> <li>1. Big game hunting</li> <li>2. Small game hunting</li> <li>3. Day hiking</li> </ol>	14.2
\$40-49,999	<ol style="list-style-type: none"> <li>1. Mountain biking</li> <li>2. Developed camping</li> <li>3. Horseback riding on trails</li> </ol>	12.4
\$50-74,999	<ol style="list-style-type: none"> <li>1. Warmwater fishing</li> <li>2. Swimming in streams, lakes, ponds, or the ocean</li> <li>3. Visit waterside besides beach</li> </ol>	21.0
\$75-99,999	<ol style="list-style-type: none"> <li>1. Small game hunting</li> <li>2. View birds</li> <li>3. Big game hunting</li> </ol>	9.3
\$100,000 >	<ol style="list-style-type: none"> <li>1. Backpacking</li> <li>2. Visit waterside besides beach</li> <li>3. Primitive camping</li> </ol>	7.9

### **Step 4.5.b – Income Distribution**

How Will Population Income Change 2000 - 2020? (Source: Table II. 5e)

Income category	Market Area		Region 8	
	Absolute change (1000's), 2000 to 2020	Percent change, 2000 to 2020	Absolute change (1000's), 2000 to 2020	Percent change, 2000 to 2020
< \$20,000	-228.2	-29.3	-1,351.7	-28.3
\$20,000-29,999	-121.8	-24.8	-1,278.2	-23.9
\$30,000-39,999	-11.0	-2.2	231.9	4.2
\$40,000-49,999	104.3	23.4	2,519.8	59.5
\$50,000-74,999	357.2	47.3	2,897.0	100.9
\$75,000-99,999	315.4	93.9	2,005.4	122.1
\$100,000 >	275.8	97.1	756.4	123.1

(Source: Table II, E.3)

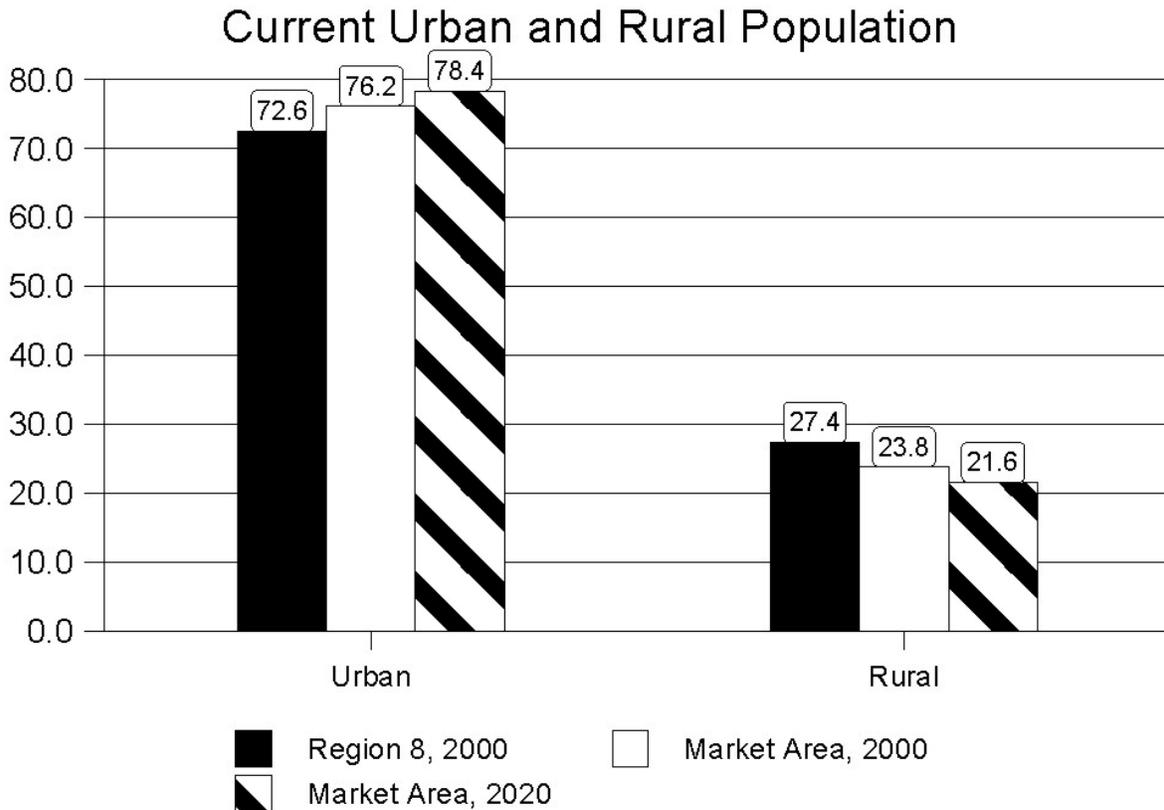
- ▶ In the future, income in the United States is expected to rise. The table above shows percent increases in each of the income strata in the market area, 2000-2020.
- ▶ \$50,000-74,999; \$75,000-99,999; and \$100,000> groups are the highest growth strata in the market area.
- ▶ Given the changing income composition in the market area, which activities would you want to consider providing more of in the future?

**Step 4.5.c – Favored Activities of Fastest Growing Income Group**

High Growth Income Strata	Favored Activities
Highest growth income group	<ol style="list-style-type: none"><li>1. Warmwater fishing</li><li>2. Swimming in streams, lakes, ponds, or the ocean</li><li>3. Visit waterside besides beach</li></ol>
2 <sup>nd</sup> highest growth income group	<ol style="list-style-type: none"><li>1. Small game hunting</li><li>2. View birds</li><li>3. Big game hunting</li></ol>
3 <sup>rd</sup> highest growth income group	<ol style="list-style-type: none"><li>1. Backpacking</li><li>2. Visit waterside besides beach</li><li>3. Primitive camping</li></ol>

## Step 4.6 – Urban and Rural

### Step 4.6.a – Current Urban and Rural Distribution



(Source: Table II. 6b)

- ▶ The urban/rural distribution of the population differs from market area to market area. Urban populations are growing at much faster rates and numbers than rural populations. If a Forest's market area has a large urban population, it can expect higher demand and for that demand to increase at higher rates than their rurally-situated counterparts. Also, the urban-rural character of the population is important to consider in recreation management because people's outdoor recreation activities differ accordingly. The figure above shows the distribution of the regional and market area population according to urban and rural status.
- ▶ If you marketed to urban or rural groups, which activities would you emphasize?

Favored Activities by Urban/Rural Strata (Source: Table III. 4f1-2)

Urban/Rural Strata	Favored Activities	Percent of Urban/Rural Group in Market Area
Urban	1. Swimming in streams, lakes, ponds, or the ocean 2. Mountain biking 3. Backpacking 4. Visit waterside besides beach 5. View or photograph wildflowers, trees, or other natural vegetation	76.2
Rural	1. Small game hunting 2. Big game hunting 3. Drive off-road 4. Primitive camping 5. Gather mushrooms, berries, and other non-timber products	23.8

**Step 4.6.b – Future Urban and Rural Distribution**

How Will Urban/Rural Populations Change 2000 - 2020? (Source: Table II. 6e)

	Market Area		Region 8	
	Absolute change, 2000 to 2020	Percent change, 2000 to 2020	Absolute change, 2000 to 2020	Percent change, 2000 to 2020
Urban	1467.4	20.5	18,276.6	28.3
Rural	140.7	6.3	2,870.4	11.8

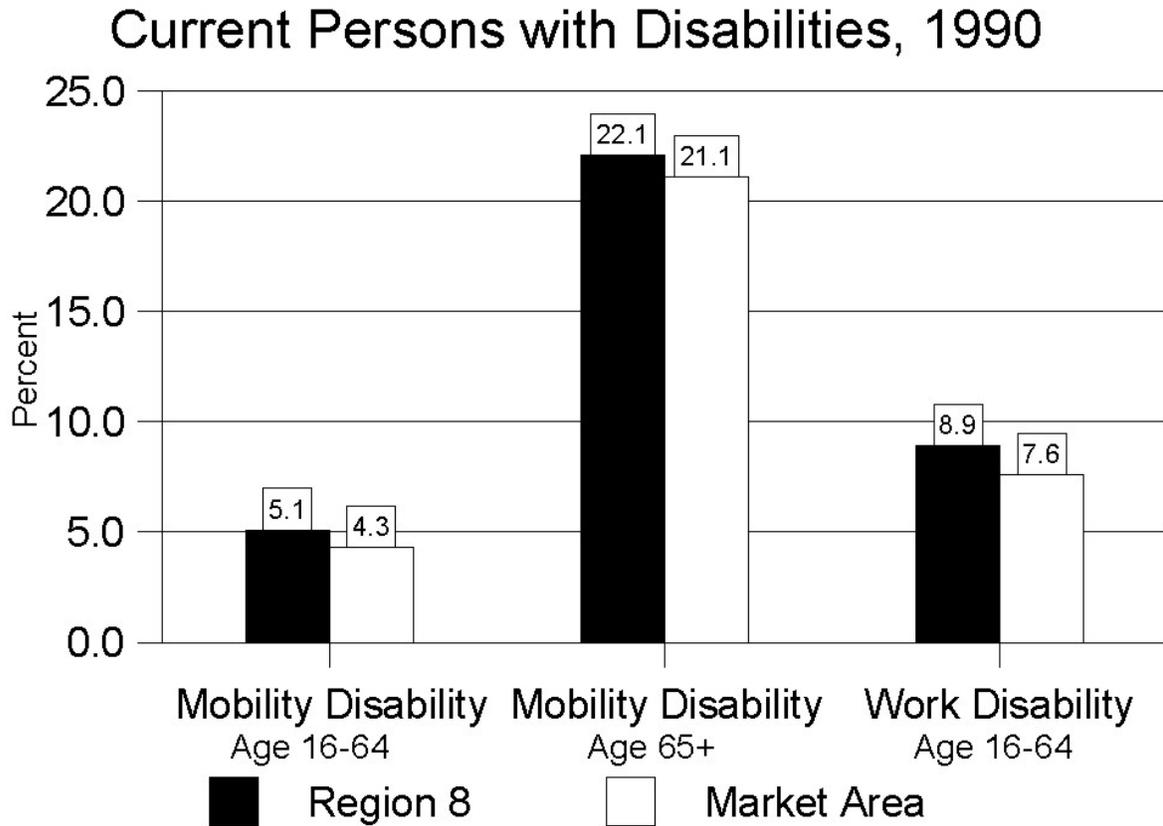
- ▶ Over the next 50 years, all markets in the United States that contain urban areas are expected to significantly increase their rates of rural land conversion as suburbs sprawl out into rural lands. Between 1992 and 1997 in the United States, nearly 16 million acres of farm, forest and other open land was converted to developed uses. These developments tend to follow highway corridors radiating out from the nation’s urban areas. As more areas become urban in character, the activities urban people participate in are likely to experience increased demand.
- ▶ The table above shows percent increases in each of the strata in the market area, 2000-2020.
- ▶ Urban areas are the highest growth category in the market area.

- ▶ Given the changing urban/rural character of the market area, which activities would you want to consider providing more of in the future?

**Step 4.6.c – Favored Activities of Fastest Growing Urban and Rural Groups**

High Growth Strata	Favored Activities
Highest growth group	<ol style="list-style-type: none"> <li>1. Swimming in streams, lakes, ponds, or the ocean</li> <li>2. Mountain biking</li> <li>3. Backpacking</li> <li>4. Visit waterside besides beach</li> <li>5. View or photograph wildflowers, trees, or other natural vegetation</li> </ol>

## Step 4.7 – Disability



(Source: Table II. 7)

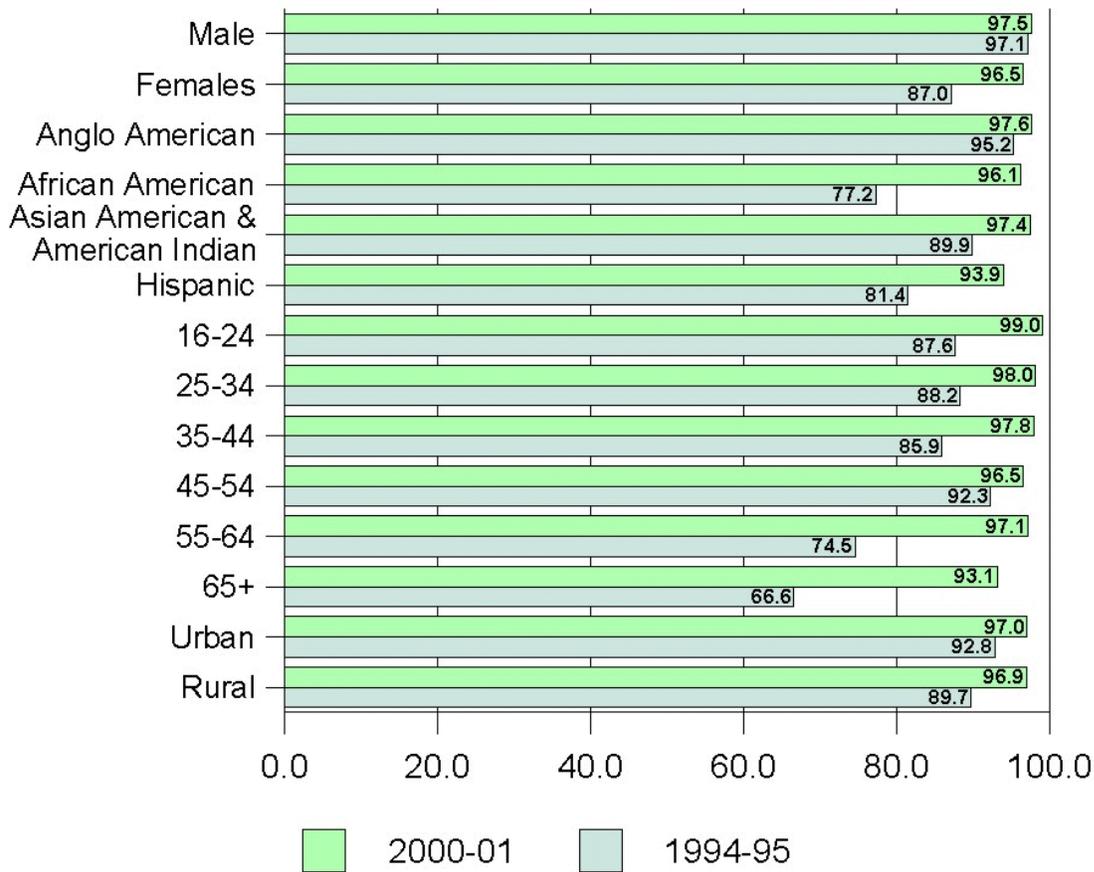
### Step 4.7.a – Current Disability Distribution

- ▶ As a percentage of the population, the disabled population varies little from market area to market area. However, the disabled population is important to consider in recreation management because people's outdoor recreation activities are highly defined by disability status. The figure above shows the distribution in the region and market area of residents by disability status.
- ▶ If you managed to provide outdoor recreation settings for activities disproportionately enjoyed by disabled populations, which activities would you emphasize?

Favored Activities by Disability Strata (Source: Table III. 4g1-2)

Disability Strata	Favored Activities
Physical disability	<ol style="list-style-type: none"> <li>1. View birds</li> <li>2. View wildlife</li> <li>3. Swimming in streams, lakes, ponds, or the ocean</li> </ol>
Other disability	<ol style="list-style-type: none"> <li>1. Swimming in streams, lakes, ponds, or the ocean</li> <li>2. View wildlife</li> <li>3. View birds</li> </ol>

## Step 4.8 – Recreation Participation Analysis by Demographic Strata



- ▶ In the preceding pages covering Step 4, we have overviewed the favored activities of demographic groups and emphasized those growing the fastest. Before summing occurrence scores of activities across demographic categories, one more factor will be considered as a part of Step 4. Participation by some demographic groups—such as women’s participation in activities—have been increasing over time faster than by other demographic groups. For example, women report participating in activities 9.5 percent more in 2001 than in 1995. Higher rates of participation mean more overall demand. This suggests increased emphasis should be placed on the activities of demographic groups demonstrating the greatest increases in participation.
- ▶ The previous graph shows the increased participation 1995 -2001 for all demographic

groups for the region as a whole.<sup>3</sup> If you managed for the fastest growing groups in participation over time, what activities would you emphasize?

- ▶ The greatest increases in participation between 1995 and 2001 across all demographic groups occurred among 65 +, 55-64, Hispanic American, African American, and Female demographic groups.
- ▶ Because of their increases in participation, if you market more to these groups, what would you emphasize?

High Growth Strata	Favored Activities
1 <sup>st</sup> ) 65+	<ol style="list-style-type: none"> <li>1. View birds</li> <li>2. View or photograph wildflowers, trees, or other natural vegetation</li> <li>3. Gather mushrooms, berries, and other non-timber products</li> </ol>
2 <sup>nd</sup> ) 55-64	<ol style="list-style-type: none"> <li>1. Big game hunting</li> <li>2. View birds</li> <li>3. View wildlife</li> </ol>
3 <sup>rd</sup> ) Hispanic American	<ol style="list-style-type: none"> <li>1. Day hiking</li> <li>2. Horseback riding on trails</li> <li>3. Mountain biking</li> </ol>
4 <sup>th</sup> ) African American	<ol style="list-style-type: none"> <li>1. View or photograph fish</li> <li>2. Visit waterside besides beach</li> <li>3. View or photograph wildflowers, trees, or other natural vegetation</li> </ol>
5 <sup>th</sup> ) Females	<ol style="list-style-type: none"> <li>1. View birds</li> <li>2. View or photograph wildflowers, trees, or other natural vegetation</li> <li>3. View wildlife</li> <li>4. Visit waterside besides beach</li> <li>5. Swimming in streams, lakes, ponds, or the ocean</li> </ol>

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<sup>3</sup> Income data is not available for this variable because income strata in the 1995 and 2001 NSRE are non-comparable.

## **Step 5. – Summing Step 4 Activity Scores Across Demographic Strata**

### Activity Ranking: Summary of Scoring Weights across all Demographic Segments

- ▶ Now we are ready to sum scores across all the activities in Step 4 - the demographic analyses - into one table. The table on the current page cumulates and rank orders the activities according to how many times they occurred in step 4 of the report. This is one indicator of their demand in the market area.
  
- ▶ In your market area, the following activities were most favored across groups:

Type II Activities	Total	Rank
View birds	12	18
Big game hunting	10	17
View wildlife	9	16
Visit waterside besides beach	8	15
View or photograph wildflowers, trees, or other natural vegetation	8	15
Mountain biking	7	13
Small game hunting	7	13
Gather mushrooms, berries, and other non-timber products	6	11
Backpacking	6	11
Horseback riding on trails	6	11
Primitive camping	6	11
Swimming in streams, lakes, ponds, or the ocean	6	11
Day hiking	4	6
Warmwater fishing	4	6
Developed camping	3	4
View or photograph fish	3	4
Drive off-road	3	4
Visit a wilderness or other primitive, roadless area	1	1

## **Step 6. – Summing Activity Over 3 Dimensions of Demand**

- ▶ In this report, we now have considered three dimensions of demand. In Step 2, we identified the most popular activities (overall demand) in the market area. In Step 3, we identified the fastest growing activities in the region. In Step 4, we identified activities according to their being favored across demographic strata. Here, we compare results in across steps. The most popular activities in each step receive a rank of 19, the second most popular receive a rank of 18, down to 1 for least popular. Summing across ranks provides a single indicator of demand for activities in the market area
- ▶ This analysis reveals that in your market are a viewing wildlife; viewing birds; and viewing or photographing fish are the activities most in demand -- across 3 dimensions of demand.

### Step 6. – Summing Activity Scores Over 3 Dimensions of Demand (Steps 2-4)

Type II Activities	Step 2 Score from Ranking Most Popular Activities in the Market Area (Source: table III 3d) <sup>1</sup>	Step 3 Score from Ranking by Rate of Growth in the Region (Source: Table III 3e)	Step 4 Score based on Cumulative Sum across Demographics Strata in the Market Area <sup>3</sup>	Step 5 Total Score <sup>4</sup>
View wildlife	18	17	16	51
View birds	14	14	18	46
View or photograph fish	9	18	15	42
Day hiking	15	16	6	37
Visit waterside besides beach	11	9.5	15	35.5
Gather mushrooms, berries, and other non- timber products	12	9.5	11	32.5
Mountain biking	10	9.5	13	32.5
View or photograph wildflowers, trees, or other natural vegetation	17	9.5	4	30.5
Swimming in streams, lakes, ponds, or the ocean	16	2	11	29
Horseback riding on trails	2	15	11	28
Primitive camping	5	12	11	28
Big game hunting	4	6	17	27
Visit a wilderness or other primitive, roadless area	13	9.5	1	23.5
Drive off-road	6	13	4	23
Backpacking	3	4	11	18
Warmwater fishing	8	3	6	17
Developed camping	7	5	4	16
Small game hunting	1	1	13	15

<sup>1</sup>Most popular activities in the market area receive highest score, down to 1 for least popular of Type II activities (i.e., highest score = n, where n = number of activities)

<sup>2</sup>Fastest growing activities in the region receive highest score where growth rate in percent growth since 1995.

<sup>3</sup>Highest cumulative scores (Type II activities) across demographics receive highest score.

<sup>4</sup>Sum of scores across columns.

## **Step 7. – Identifying Niche Activities**

- ▶ What if your NF has niche markets that you want to emphasize because of unique, high quality resources, e.g., whitewater experiences, wilderness experiences. We have designed an exercise to help you learn more about who the niche users for special recreation (i.e., rockclimbing or ORV use) are in your market area.

### **Exercise**

- ▶ Turn to Appendix III, Tables 5-41 in your report. Identify the top 3 activities that you want to emphasize, that you know to be special attractions on your forest by reviewing the list of activities provided. Record the names of up to 3 niche activities below.

#### **My Forest's Special Niche Activities**

Niche Activities

## **Step 8. – Equity Analysis**

For each niche activity you identified from Step 7 AND for the top three activities identified in Step 6 as being in highest demand, fill in the following worksheet. When completed this worksheet will identify who will be disproportionately served or not served if you manage for activities identified in Steps 6 and 7. The exercise is basically a Civil Rights analysis.

- ▶ Directions: To fill in the worksheet on the next page, follow the step-by-step directions that follow:
- a. Write in the top 3 activities identified in Step 6 and the top 3 niche activities from Step 7 (6 activities in total).
- b. Next, for each activity, record in the following table the ratio values found in Tables 5-41 in Appendix III (Note: there is a separate table for each activity). These values are found in column 4 (Ratio (1)/(2)).
- c. Then record the number of ratio values equal to or less than 0.9 for each demographic strata in the third from last column of the table below.
- d. Record the number of ratio values equal to or greater than 1.1 in the second from last column.
- e. Finally, subtract the number of values  $\leq 0.9$  from the number  $\geq 1.1$  and record this difference in the last column. If difference is  $< 0$ , under service is suspected.

Demographic Strata	Ratios for Type II and III Activities Selected						Potential Equity Scores		
	Activity #1 _____	Activity #2 _____	Activity #3 _____	Activity #4 _____	Activity#5 _____	Activity #6 _____	Number 0.9 or less	Number 1.1 or more	Number 0.9's minus number 1.1's
Male									
Female									
Anglo-American									
African-American									
Asian, Native American									
Hispanic									
15-25 years old									
25-35 years old									
35-50 years old									
50-65 years old									
65+ years old									
< \$15K									
\$15-24,999									
\$25-49,999									
\$50-74,999									
\$75-99,999									
\$100,000 >									
Urban									
Rural									

**Step 8.1 – Summarizing Your Equity Analysis**

Your Equity Analysis shows that if you select to emphasize the following activities:  
(List top 3 activities from Step 6 and the top 3 from Step 7)

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

A. You will be orienting your recreation program toward service for:  
(Record the names of the demographic strata with values in the last column of the Equity Analysis workshop that are  $\geq +1$ )

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

B. You may disproportionately under-serve:  
(Record the names of the demographic strata in the Worksheet that are  $\leq -1$ )

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

C. Now, considering the top 3 activities identified in both Steps 6 and 7 as being in greatest demand, and considering agency, federal and regional policy with respect to Civil Rights and service equity, list the activities below that you select to emphasize. Remember these are in addition to all the Type I, widely popular activities, that we recommend you provide whenever and wherever you can.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

**Step 9. – Other Suppliers of Outdoor Recreation in your Market Area**

- a. The table below shows the other suppliers of outdoor recreation in your market area (based on available data). It describes the number of acres in your market area of a variety of public lands and private providers including National Park (NPS) acres, Army Core of Engineers (COE) acres, among others, as well as data from the American Business Listings (ABI) for numbers of private recreation businesses in the market area.
- b. Take time here to bring your local knowledge to bear on the local market area scene and its implications for your recreation realignment.
- c. In light of the activities you selected, review the supply by other providers and consider your own knowledge of the mix of private and public suppliers in your management area.
- d. Does other supply adequately meet demands for the activities you selected?
- e. Do local providers meet demand for some of the selected activities better than your Forest?
- f. Evaluate each selected activity and note by each one in the work space following this table your assessment of your Forest’s legitimate supply role.

Recreation Resource	Market Area		Region 8	
	Amount of resource	Amount per million population	Amount of resource	Amount per million population
NPS gross acres	768,123	64,350.8	5,411,892	60,809.1
COE Project total land and water acres	321,985	26,974.8	5,633,764	63,302.1
FWS refuge acres open for recreation	0	0	3,594,475	40,388.3
TVA recreation area acres	10,549	883.8	25,267	283.9
TVA undeveloped acres	130,336	10,919.1	414,876	4,661.6
Wild & Scenic River miles: Total 1992	133	11.1	446	5.0
NRI Total river miles, outstanding value	4,069	340.9	23,226	261.0

Recreation Resource	Market Area		Region 8	
	Amount of resource	Amount per million population	Amount of resource	Amount per million population
State Park areas	226,240	18,953.6	1,571,214	17,654.5
Woodalls number of public campgrounds	34	2.8	310	3.5
Woodalls number of public campground sites	3,166	265.2	25,853	290.5
Woodalls number of private campgrounds	267	22.4	1,852	20.8
Woodalls number of private campground sites	24,772	2,075.3	222,054	2,495.0
NRI acres private forest land	23,398,200	52.6	173,078,600	32.4
NPLOS acres leased to industry or groups	1,483,419	124,275.9	33,906,753	380,983.3
NPLOS acres open to general public	2,683,426	224,808.6	30,262,101	340,031.3
ABI number of hunting and fishing preserves	15	1.3	192	2.2
ABI number of fish camps	2	0.2	202	2.3
ABI number of organized camps	297	24.9	1,722	19.3
ABI number of private fishing lakes	3	0.3	24	0.3
ABI number of boat rental firms	62	5.2	2,054	23.1
ABI number of canoe trip outfitters	1	0.1	19	0.2
ABI number of canoe rental firms	12	1.0	73	0.8
ABI number of public fishing lakes	34	2.8	95	1.1

Recreation Resource	Market Area		Region 8	
	Amount of resource	Amount per million population	Amount of resource	Amount per million population
ABI number of guide services	13	1.1	361	4.1
ABI number of sightseeing tours	55	4.6	603	6.8
ABI number of fishing lakes and ponds	7	0.6	76	0.9
ABI number of raft trip firms	19	1.6	29	0.3

Observations concerning how the availability of other providers affect each selected activity.

Activity (list activities from Steps 6 and 7)	✓	Comments evaluating whether my NF is best positioned to provide this activity.
1.		
2.		
3.		
4.		
5.		
6.		

- ▶ Place a check (✓) beside each activity you have decided to recommend to the Forest Supervisor and District Rangers for management emphasis. Remember, all Type I activities are to be considered automatically selected.



# Appendix I

## I: OVERVIEW OF MARKET AREA

Table 1--Descriptive statistics for the GEORGE WASHINGTON NATIONAL FOREST Market Area

FIPS code	County name	Number of NSRE interviews	Total population 2000	Total population 2020	Projected percent change, 2000 to 2020
24027	Howard, MD	33	256,949	403,215	56.9
51153	Prince William, VA	22	332,823	517,465	55.5
51179	Stafford, VA	5	92,457	140,384	51.8
51041	Chesterfield, VA	24	274,506	410,710	49.6
51061	Fauquier, VA	5	57,338	82,065	43.1
51177	Spotsylvania, VA	8	104,361	145,033	39.0
24017	Charles, MD	24	123,275	168,997	37.1
51075	Goochland, VA	0	17,728	23,991	35.3
51069	Frederick, VA	7	82,231	111,094	35.1
24021	Frederick, MD	31	192,348	258,857	34.6
51087	Henrico, VA	17	255,079	342,952	34.4
51085	Hanover, VA	8	80,965	105,989	30.9
51187	Warren, VA	1	31,659	41,148	30.0
54037	Jefferson, WV	8	42,765	55,456	29.7
51145	Powhatan, VA	3	20,402	26,318	29.0
51059	Fairfax, VA	60	989,294	1,273,390	28.7
51107	Loudoun, VA	10	124,553	159,148	27.8
54003	Berkeley, WV	13	70,965	88,156	24.2
51033	Caroline, VA	10	22,391	27,511	22.9
51043	Clarke, VA	1	13,053	15,814	21.2
24031	Montgomery, MD	117	853,520	1,030,602	20.7
51047	Culpeper, VA	1	32,220	38,840	20.5
51185	Tazewell, VA	13	49,424	58,698	18.8
51165	Rockingham, VA	16	99,555	117,947	18.5
51099	King George, VA	2	17,256	20,428	18.4
51121	Montgomery, VA	13	96,216	113,354	17.8
51161	Roanoke, VA	6	110,774	130,354	17.7
51019	Bedford, VA	4	61,513	72,297	17.5
54065	Morgan, WV	10	13,747	16,054	16.8
24043	Washington, MD	23	132,399	153,693	16.1
51029	Buckingham, VA	5	13,838	16,000	15.6
51197	Wythe, VA	1	27,402	31,653	15.5
51003	Albemarle, VA	6	117,698	135,239	14.9
51023	Botetourt, VA	2	28,322	32,539	14.9
54027	Hampshire, WV	12	19,078	21,929	14.9
54023	Grant, WV	5	11,429	12,955	13.4
51065	Fluvanna, VA	2	16,451	18,149	10.3
51021	Bland, VA	5	6,961	7,661	10.1
51079	Greene, VA	3	12,953	14,167	9.4
54071	Pendleton, WV	5	8,311	9,055	9.0
51141	Patri ck, VA	9	18,132	19,741	8.9
24033	Prince Georges, MD	92	782,900	851,450	8.8
51109	Louisa, VA	16	23,358	25,368	8.6
54031	Hardy, WV	3	11,873	12,869	8.4
54025	Greenbrier, WV	10	36,243	39,083	7.8
37145	Person, NC	7	32,924	35,474	7.7
51067	Franklin, VA	8	43,670	47,037	7.7

Source: NSRE is the National Survey on Recreation and the Environment, 2000-2001.

USDA Forest Service, Southern Research Station, Athens, GA.

2000 population estimate and 2020 population projection are from Woods & Poole Economics Inc., 1997.

## I: OVERVIEW OF MARKET AREA

Table 1--Descriptive statistics for the GEORGE WASHINGTON NATIONAL FOREST Market Area

FIPS code	County name	Number of NSRE interviews	Total population 2000	Total population 2020	Projected percent change, 2000 to 2020
51009	Amherst, VA	0	30,302	32,536	7.4
51031	Campbell, VA	3	117,636	126,062	7.2
51157	Rappahannock, VA	0	7,228	7,742	7.1
51125	Nelson, VA	7	13,536	14,393	6.3
54061	Monongalia, WV	27	79,178	83,995	6.1
24023	Garrett, MD	26	29,786	31,411	5.5
54081	Raleigh, WV	14	79,656	83,985	5.4
51147	Prince Edward, VA	1	18,961	19,968	5.3
51171	Shenandoah, VA	3	33,800	35,600	5.3
51139	Page, VA	6	22,954	24,069	4.9
54077	Preston, WV	8	30,161	31,594	4.8
54067	Nicholas, WV	13	27,928	29,253	4.7
51015	Augusta, VA	17	104,319	108,995	4.5
42057	Fulton, PA	10	14,479	15,093	4.2
51137	Orange, VA	2	23,958	24,925	4.0
42009	Bedford, PA	7	49,646	51,579	3.9
51163	Rockbridge, VA	2	33,046	34,344	3.9
51063	Floyd, VA	5	12,759	13,200	3.5
54017	Doddridge, WV	2	7,447	7,697	3.4
54097	Upshur, WV	6	24,054	24,836	3.3
54033	Harrison, WV	20	71,413	73,623	3.1
51011	Appomattox, VA	6	12,868	13,252	3.0
37033	Caswell, NC	10	21,428	22,003	2.7
54039	Kanawha, WV	44	207,370	212,925	2.7
51113	Madison, VA	7	12,274	12,589	2.6
51135	Nottoway, VA	4	15,217	15,620	2.6
51035	Carroll, VA	7	34,435	35,272	2.4
54019	Fayette, WV	20	48,882	49,932	2.1
54005	Boone, WV	5	26,400	26,937	2.0
54083	Randolph, WV	2	28,985	29,535	1.9
51155	Pulaski, VA	7	34,527	35,120	1.7
54001	Barbour, WV	9	16,280	16,555	1.7
54087	Roane, WV	7	15,443	15,709	1.7
54091	Taylor, WV	5	15,379	15,635	1.7
54021	Gilmer, WV	5	7,380	7,498	1.6
54055	Mercer, WV	31	65,119	66,191	1.6
42051	Fayette, PA	14	147,233	149,468	1.5
54015	Clay, WV	2	10,411	10,566	1.5
54109	Wyoming, WV	9	28,283	28,680	1.4
51510	Alexandria, VA	6	115,258	116,734	1.3
51089	Henry, VA	11	72,616	73,457	1.2
54049	Marion, WV	20	58,188	58,909	1.2
42055	Franklin, PA	21	126,436	127,840	1.1
51117	Mecklenburg, VA	7	30,774	31,112	1.1
54013	Calhoun, WV	5	7,936	8,027	1.1
54041	Lewis, WV	7	17,655	17,843	1.1
54075	Pocahontas, WV	4	8,981	9,077	1.1

Source: NSRE is the National Survey on Recreation and the Environment, 2000-2001.

USDA Forest Service, Southern Research Station, Athens, GA.

2000 population estimate and 2020 population projection are from Woods & Poole Economics Inc., 1997.

## I: OVERVIEW OF MARKET AREA

Table 1--Descriptive statistics for the GEORGE WASHINGTON NATIONAL FOREST Market Area

FIPS code	County name	Number of NSRE interviews	Total population 2000	Total population 2020	Projected percent change, 2000 to 2020
51013	Arlington, VA	12	171,704	173,445	1.0
54007	Braxton, WV	13	13,404	13,493	0.7
51071	Giles, VA	13	16,365	16,439	0.5
51045	Craig, VA	4	4,817	4,830	0.3
54101	Webster, WV	9	10,408	10,425	0.2
54089	Summers, WV	3	14,042	14,050	0.1
51143	Pittsylvania, VA	5	109,667	109,373	-0.3
54063	Monroe, WV	3	12,961	12,922	-0.3
51770	Roanoke, VA	13	95,449	94,981	-0.5
51091	Highland, VA	2	2,571	2,549	-0.9
42111	Somerset, PA	14	79,805	78,925	-1.1
51083	Halifax, VA	4	37,300	36,773	-1.4
51007	Amelia, VA	7	9,600	9,419	-1.9
54093	Tucker, WV	5	7,702	7,494	-2.7
54057	Mineral, WV	3	26,987	26,124	-3.2
51017	Bath, VA	2	4,819	4,634	-3.8
51037	Charlotte, VA	5	12,000	11,401	-5.0
51049	Cumberland, VA	1	7,593	7,171	-5.6
11001	District of Columbia	332	543,628	510,563	-6.1
51005	Alleghany, VA	0	23,464	21,983	-6.3
24001	Allegany, MD	12	72,069	65,631	-8.9
51111	Lunenburg, VA	5	10,831	9,676	-10.7
51760	Richmond city, VA	12	191,853	169,327	-11.7
54047	McDowell, WV	5	31,430	26,591	-15.4
51515	Bedford, VA	1	.	.	.
51540	Charlottesville, VA	4	.	.	.
51560	Clifton Forge, VA	1	.	.	.
51580	Covington, VA	1	.	.	.
51600	Fairfax, VA	1	.	.	.
51660	Harrisonburg, VA	6	.	.	.
51678	Lexington, VA	1	.	.	.
51680	Lynchburg, VA	4	.	.	.
51683	Manassas, VA	0	.	.	.
51685	Manassas Park, VA	0	.	.	.
51690	Martinsville, VA	5	.	.	.
51775	Salem, VA	3	.	.	.
51790	Staunton, VA	7	.	.	.
51820	Waynesboro, VA	3	.	.	.
51840	Winchester, VA	5	.	.	.
		=====	=====	=====	
		1,666	9,391,783	10,999,934	

Source: NSRE is the National Survey on Recreation and the Environment, 2000-2001.

USDA Forest Service, Southern Research Station, Athens, GA.

2000 population estimate and 2020 population projection are from Woods & Poole Economics Inc., 1997.

# Appendix II

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 1--Population and percent change in the market area, state, and region: 1990, 2000, and 2020

GEORGE WASHINGTON NATIONAL FOREST			
Statistic	Market Area	State	Region 8
1990 population (1,000s)	8,548.6	6,213.8	77,867.8
2000 population (1,000s)	9,391.8	6,945.1	88,998.0
2020 population (1,000s)	10,999.9	8,269.0	110,145.0
Percent change, 1990-2000	9.9	11.8	14.3
Percent change, 2000-2020	17.1	19.1	23.8

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 2a--Age distribution in market area, state, and R-8, 1990

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Age Group	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population	% population	population	% population	population	% population
	1990	1990	1990	1990	1990	1990
Age 15-24	1,272.6	14.9	963.8	15.5	11,730.7	15.1
Age 25-34	1,541.5	18.0	1,141.1	18.4	13,294.3	17.1
Age 35-44	1,404.5	16.4	999.0	16.1	11,574.2	14.9
Age 45-54	942.6	11.0	663.8	10.7	7,851.9	10.1
Age 55-64	714.8	8.4	502.0	8.1	6,596.5	8.5
Age 65 & older	965.2	11.3	665.2	10.7	9,785.1	12.6
	=====	=====	=====	=====	=====	=====
	6,841.2	80.0	4,934.9	79.5	60,832.7	78.3

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages do not sum to 100 because ages 14 and under not included.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 2b--Current age distribution in market area, state, and R-8, 2000

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Age Group	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population	% population	population	% population	population	% population
	2000	2000	2000	2000	2000	2000
Age 15-24	1,279.0	13.6	989.6	14.2	12,671.7	14.2
Age 25-34	1,365.3	14.5	1,031.6	14.9	11,976.4	13.5
Age 35-44	1,624.0	17.3	1,180.3	17.0	14,224.4	16.0
Age 45-54	1,382.2	14.7	988.6	14.2	11,920.4	13.4
Age 55-64	815.4	8.7	585.6	8.4	7,861.4	8.8
Age 65 & older	1,059.9	11.3	746.4	10.7	11,256.2	12.6
	=====	=====	=====	=====	=====	=====
	7,525.8	80.1	5,522.1	79.4	69,910.5	78.5

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages do not sum to 100 because ages 14 and under not included.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 2c--Projected future age distribution in market area, state, and R-8, 2020

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Age Group	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population	% population	population	% population	population	% population
	2020	2020	2020	2020	2020	2020
Age 15-24	1,407.6	12.8	1,114.9	13.5	14,537.3	13.2
Age 25-34	1,527.4	13.9	1,178.2	14.2	14,437.1	13.1
Age 35-44	1,442.1	13.1	1,082.8	13.1	13,516.1	12.3
Age 45-54	1,401.3	12.7	1,028.5	12.4	12,746.4	11.6
Age 55-64	1,447.4	13.2	1,040.8	12.6	14,200.7	12.9
Age 65 & older	1,703.0	15.5	1,218.2	14.7	18,619.7	16.9
	=====	=====	=====	=====	=====	=====
	8,928.8	81.2	6,663.4	80.5	88,057.3	80.0

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages do not sum to 100 because ages 14 and under not included.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 2d--Absolute and percent change in population by age groups  
in market area, state, and region-wide, 1990-2000

## GEORGE WASHINGTON NATIONAL FOREST

(Absolute change in 1000s.)

Age Group	Abs. change, MARKET AREA 1990 to 2000	Pct. change, MARKET AREA 1990 to 2000	Abs. change, STATE 1990 to 2000	Pct. change, STATE 1990 to 2000	Abs. change, REGION 8 1990 to 2000	Pct. change, REGION 8 1990 to 2000
Age 15-24	6.4	0.5	25.8	2.7	941.0	8.0
Age 25-34	-176.2	-11.4	-109.5	-9.6	-1,317.9	-9.9
Age 35-44	219.5	15.6	181.3	18.1	2,650.2	22.9
Age 45-54	439.6	46.6	324.8	48.9	4,068.5	51.8
Age 55-64	100.6	14.1	83.6	16.7	1,264.9	19.2
Age 65 & older	94.7	9.8	81.2	12.2	1,471.1	15.0

Source: Woods &amp; Poole Economics Inc., 1997.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 2e--Projected absolute and percent change in population by age groups  
in market area, state, and region-wide, 2000-2020

GEORGE WASHINGTON NATIONAL FOREST

(Absolute change in 1000s.)

Age Group	Abs. change, MARKET AREA 2000 to 2020	Pct. change, MARKET AREA 2000 to 2020	Abs. change, STATE 2000 to 2020	Pct. change, STATE 2000 to 2020	Abs. change, REGION 8 2000 to 2020	Pct. change, REGION 8 2000 to 2020
Age 15-24	128.6	10.1	125.3	12.7	1,865.6	14.7
Age 25-34	162.1	11.9	146.6	14.2	2,460.7	20.5
Age 35-44	-181.9	-11.2	-97.5	-8.3	-708.3	-5.0
Age 45-54	19.1	1.4	39.9	4.0	826.0	6.9
Age 55-64	632.0	77.5	455.2	77.7	6,339.3	80.6
Age 65 & older	643.1	60.7	471.8	63.2	7,363.5	65.4

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 3a--Household size distribution in market area, state, and R-8, 1990

## GEORGE WASHINGTON NATIONAL FOREST

(Number of households in 1000s.)

Household size	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	# households 1990	% households 1990	# households 1990	% households 1990	# households 1990	% households 1990
1 person households	769.2	24.3	520.9	22.7	6,861.2	23.7
2 person households	1,011.0	32.0	751.2	32.7	9,422.9	32.6
3 person households	593.8	18.8	445.0	19.4	5,225.3	18.1
4 person households	485.3	15.3	360.6	15.7	4,381.1	15.2
5+ person households	302.9	9.6	217.0	9.5	3,011.3	10.4
	=====	=====	=====	=====	=====	=====
	3,162.2	100.0	2,294.7	100.0	28,901.8	100.0

Source: CensusDC+Map, Geolytics, Inc., 1999.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 3b--Household size distribution in market area, state, and R-8, 1998

## GEORGE WASHINGTON NATIONAL FOREST

(Number of households in 1000s.)

Household size	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	# households 1998	% households 1998	# households 1998	% households 1998	# households 1998	% households 1998
1 person households	857.2	24.5	592.1	23.0	7,974.0	24.4
2 person households	1,147.2	32.8	862.3	33.5	10,902.9	33.4
3 person households	637.6	18.2	483.7	18.8	5,689.2	17.4
4 person households	545.4	15.6	410.7	15.9	4,977.5	15.2
5+ person households	313.8	9.0	228.8	8.9	3,138.4	9.6
	=====	=====	=====	=====	=====	=====
	3,501.2	100.1	2,577.6	100.1	32,682.0	100.0

Source: CensusDC+Map, Geolytics, Inc., 1999.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 3c--Projected future household size distribution in market area, state, and R-8, 2003

## GEORGE WASHINGTON NATIONAL FOREST

(Number of households in 1000s.)

Household size	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	# households 2003	% households 2003	# households 2003	% households 2003	# households 2003	% households 2003
1 person households	925.0	25.2	644.2	23.7	8,935.5	25.3
2 person households	1,229.0	33.4	928.5	34.1	11,983.4	34.0
3 person households	642.0	17.5	489.6	18.0	5,863.4	16.6
4 person households	560.2	15.2	424.4	15.6	5,218.9	14.8
5+ person households	320.0	8.7	235.2	8.6	3,272.4	9.3
	=====	=====	=====	=====	=====	=====
	3,676.2	100.0	2,721.9	100.0	35,273.6	100.0

Source: CensusDC+Map, Geolytics, Inc., 1999.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 3d--Absolute and percent change in number of households by size category in market area, state, and region-wide, 1990-1998

## GEORGE WASHINGTON NATIONAL FOREST

(Absolute change in 1000s.)

Household size	Abs. change,	Pct. change,	Abs. change,	Pct. change,	Abs. change,	Pct. change,
	MARKET AREA 1990 to 1998	MARKET AREA 1990 to 1998	STATE 1990 to 1998	STATE 1990 to 1998	REGION 8 1990 to 1998	REGION 8 1990 to 1998
1 person households	88.0	11.5	71.2	13.7	1,112.8	16.2
2 person households	136.2	13.5	111.1	14.8	1,480.0	15.7
3 person households	43.8	7.4	38.7	8.7	463.9	8.9
4 person households	60.1	12.4	50.1	13.9	596.4	13.6
5+ person households	10.9	3.6	11.8	5.4	127.1	4.2

Source: CensusDC+Map, Geolytics, Inc., 1999.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 3e--Projected absolute and percent change in number of households by size category in market area, state, and region-wide, 1998-2003

GEORGE WASHINGTON NATIONAL FOREST

(Absolute change in 1000s.)

Household size	Abs. change,	Pct. change,	Abs. change,	Pct. change,	Abs. change,	Pct. change,
	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	1998 to 2003					
1 person households	67.8	7.9	52.1	8.8	961.5	12.1
2 person households	81.8	7.1	66.2	7.7	1,080.5	9.9
3 person households	4.4	0.7	5.9	1.2	174.2	3.1
4 person households	14.8	2.7	13.7	3.3	241.4	4.8
5+ person households	6.2	2.0	6.4	2.8	134.0	4.3

Source: CensusDC+Map, Geolytics, Inc., 1999.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 4a--Population distribution by race/ethnicity in market area, state, and R-8, 1990  
(Hispanics included, can be of any race.)

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Race/ethnicity	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population 1990	% population 1990	population 1990	% population 1990	population 1990	% population 1990
White population	6,659.6	77.9	4,860.3	78.2	62,118.5	79.8
Black population	1,622.3	19.0	1,174.4	18.9	14,200.0	18.2
Other population	266.7	3.1	179.2	2.9	1,549.2	2.0
	=====	=====	=====	=====	=====	=====
	8,548.6	100.0	6,213.9	100.0	77,867.7	100.0

Source: Woods & Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

OTHER population includes Asians, Pacific Islanders and American Indians.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 4b--Population distribution by race/ethnicity in market area, state, and R-8, 1990  
(Hispanics ONLY, can be of any race.)

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Race/ethnicity	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population 1990	% population 1990	population 1990	% population 1990	population 1990	% population 1990
Hispanic population	258.8	3	160.9	2.6	6,611.9	8.5

Source: Woods & Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 4c--Population distribution by race/ethnicity in market area, state, and R-8, 2000  
(Hispanics included, can be of any race.)

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Race/ethnicity	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population 2000	% population 2000	population 2000	% population 2000	population 2000	% population 2000
White population	7,153.5	76.2	5,326.2	76.7	70,074.9	78.7
Black population	1,838.3	19.6	1,352.9	19.5	16,682.8	18.7
Other population	400.0	4.3	266.0	3.8	2,240.2	2.5
	=====	=====	=====	=====	=====	=====
	9,391.8	100.1	6,945.1	100.0	88,997.9	99.9

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

OTHER population includes Asians, Pacific Islanders and American Indians.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 4d--Population distribution by race/ethnicity in market area, state, and R-8, 2000  
(Hispanics ONLY, can be of any race.)

GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Race/ethnicity	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population 2000	% population 2000	population 2000	% population 2000	population 2000	% population 2000
Hispanic population	405.5	4.3	267.8	3.9	9,890.5	11.1

Source: Woods & Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 4e--Population distribution by race/ethnicity in market area, state, and R-8, 2020  
(Hispanics included, can be of any race.)

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Race/ethnicity	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population 2020	% population 2020	population 2020	% population 2020	population 2020	% population 2020
White population	7,994.1	72.7	6,091.5	73.7	84,620.4	76.8
Black population	2,255.1	20.5	1,687.0	20.4	21,508.1	19.5
Other population	750.7	6.8	490.4	5.9	4,016.5	3.6
	=====	=====	=====	=====	=====	=====
	10,999.9	100.0	8,268.9	100.0	110,145.0	99.9

Source: Woods & Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

OTHER population includes Asians, Pacific Islanders and American Indians.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 4f--Population distribution by race/ethnicity in market area, state, and R-8, 2020  
(Hispanics ONLY, can be of any race.)

GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Race/ethnicity	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population 2020	% population 2020	population 2020	% population 2020	population 2020	% population 2020
Hispanic population	803.1	7.3	535.6	6.5	17,822.4	16.2

Source: Woods & Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 4g--Absolute and percent change in population by race/ethnicity  
in market area, state, and region-wide, 1990-2000

GEORGE WASHINGTON NATIONAL FOREST

(Absolute change in 1000s.)

Race/ethnicity	Abs. change, MARKET AREA 1990 to 2000	Pct. change, MARKET AREA 1990 to 2000	Abs. change, STATE 1990 to 2000	Pct. change, STATE 1990 to 2000	Abs. change, REGION 8 1990 to 2000	Pct. change, REGION 8 1990 to 2000
White population	493.9	7.4	465.9	9.6	7,956.4	12.8
Black population	216.0	13.3	178.5	15.2	2,482.8	17.5
Other population	133.3	50.0	86.8	48.4	691.0	44.6
Hispanic population	146.7	56.7	106.9	66.4	3,278.6	49.6

Source: Woods & Poole Economics Inc., 1997.

OTHER population includes Asians, Pacific Islanders and American Indians.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 4h--Projected absolute and percent change in population by race/ethnicity  
in market area, state, and region-wide, 2000-2020

GEORGE WASHINGTON NATIONAL FOREST

(Absolute change in 1000s.)

Race/ethnicity	Abs. change, MARKET AREA 2000 to 2020	Pct. change, MARKET AREA 2000 to 2020	Abs. change, STATE 2000 to 2020	Pct. change, STATE 2000 to 2020	Abs. change, REGION 8 2000 to 2020	Pct. change, REGION 8 2000 to 2020
White population	840.6	11.8	765.3	14.4	14,545.5	20.8
Black population	416.8	22.7	334.1	24.7	4,825.3	28.9
Other population	350.7	87.7	224.4	84.4	1,776.3	79.3
Hispanic population	397.6	98.1	267.8	100.0	7,931.9	80.2

Source: Woods & Poole Economics Inc., 1997.

OTHER population includes Asians, Pacific Islanders and American Indians.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 5a--Household income distribution (1990 \$) in market area, state, and R-8, 1990

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Income category	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	# households 1990	% households 1990	# households 1990	% households 1990	# households 1990	% households 1990
\$<20k	893.7	27.8	647.8	28.1	11,080.2	38.2
\$20- 29. 999k	494.4	15.4	376.2	16.3	5,163.7	17.8
\$30- 39. 999k	448.8	13.9	340.3	14.8	4,133.7	14.2
\$40- 49. 999k	369.9	11.5	273.7	11.9	2,945.7	10.2
\$50- 74. 999k	565.9	17.6	393.5	17.1	3,644.6	12.6
\$75- 99. 999k	239.4	7.4	150.5	6.5	1,111.0	3.8
\$100+k	205.3	6.4	120.2	5.2	938.0	3.2
	=====	=====	=====	=====	=====	=====
	3,217.4	100.0	2,302.2	99.9	29,016.9	100.0

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 5b--Household income distribution (1990 \$) in market area, state, and R-8, 2000

Income category	GEORGE WASHINGTON NATIONAL FOREST					
	(Population in 1000s.)					
	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	# households	% population	# households	% households	# households	% households
	2000	2000	2000	2000	2000	2000
\$<20k	778.7	21.6	583.5	22.1	10,022.4	30.0
\$20-29.999k	491.3	13.6	377.0	14.3	5,356.1	16.0
\$30-39.999k	512.4	14.2	400.3	15.2	5,477.9	16.4
\$40-49.999k	445.7	12.4	348.7	13.2	4,236.5	12.7
\$50-74.999k	755.6	21.0	536.5	20.4	5,339.0	16.0
\$75-99.999k	335.8	9.3	217.3	8.2	1,642.7	4.9
\$100+k	284.1	7.9	172.5	6.5	1,379.3	4.1
	=====	=====	=====	=====	=====	=====
	3,603.6	100.0	2,635.8	99.9	33,453.9	100.1

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 5c--Projected future household income distribution (1990 \$) in market area, state, and R-8, 2020

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Income category	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	# households 2020	% populati on 2020	# households 2020	% households 2020	# households 2020	% households 2020
\$<20k	550.5	12.8	417.0	13.0	7,233.6	17.4
\$20-29.999k	369.5	8.6	284.8	8.9	4,077.9	9.8
\$30-39.999k	501.4	11.7	383.4	11.9	5,709.8	13.7
\$40-49.999k	550.0	12.8	457.0	14.2	6,756.3	16.2
\$50-74.999k	1,112.8	25.9	883.1	27.5	11,093.2	26.7
\$75-99.999k	651.2	15.2	425.8	13.3	3,648.1	8.8
\$100+k	559.9	13.0	358.4	11.2	3,060.0	7.4
	=====	=====	=====	=====	=====	=====
	4,295.3	100.0	3,209.5	100.0	41,578.9	100.0

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 5d--Absolute and percent change in number of households by income category (1990 \$)  
in market area, state, and region-wide, 1990-2000

GEORGE WASHINGTON NATIONAL FOREST

(Absolute change in 1000s.)

Income category	Abs. change, MARKET AREA 1990 to 2000	Pct. change, MARKET AREA 1990 to 2000	Abs. change, STATE 1990 to 2000	Pct. change, STATE 1990 to 2000	Abs. change, REGION 8 1990 to 2000	Pct. change, REGION 8 1990 to 2000
\$<20k	- 115. 0	- 12. 9	- 64. 3	- 9. 9	- 1, 057. 8	- 9. 5
\$20- 29. 999k	- 3. 1	- 0. 6	0. 8	0. 2	192. 4	3. 7
\$30- 39. 999k	63. 6	14. 2	60. 0	17. 6	1, 344. 2	32. 5
\$40- 49. 999k	75. 8	20. 5	75. 0	27. 4	1, 290. 8	43. 8
\$50- 74. 999k	189. 7	33. 5	143. 0	36. 3	1, 694. 4	46. 5
\$75- 99. 999k	96. 4	40. 3	66. 8	44. 3	531. 7	47. 9
\$100+k	78. 8	38. 4	52. 3	43. 5	441. 3	47. 0

Source: Woods & Poole Economics Inc., 1997.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 5e--Projected absolute and percent change in number of households by income category (1990 \$) in market area, state, and region-wide, 2000-2020

GEORGE WASHINGTON NATIONAL FOREST

(Absolute change in 1000s.)

Income category	Abs. change, MARKET AREA 2000 to 2020	Pct. change, MARKET AREA 2000 to 2020	Abs. change, STATE 2000 to 2020	Pct. change, STATE 2000 to 2020	Abs. change, REGION 8 2000 to 2020	Pct. change, REGION 8 2000 to 2020
\$<20k	- 228. 2	- 29. 3	- 166. 5	- 28. 5	- 2, 788. 8	- 27. 8
\$20- 29. 999k	- 121. 8	- 24. 8	- 92. 2	- 24. 5	- 1, 278. 2	- 23. 9
\$30- 39. 999k	- 11. 0	- 2. 2	- 16. 9	- 4. 2	231. 9	4. 2
\$40- 49. 999k	104. 3	23. 4	108. 3	31. 1	2, 519. 8	59. 5
\$50- 74. 999k	357. 2	47. 3	346. 6	64. 6	5, 754. 2	107. 8
\$75- 99. 999k	315. 4	93. 9	208. 5	96. 0	2, 005. 4	122. 1
\$100+k	275. 8	97. 1	185. 9	107. 8	1, 680. 7	121. 9

Source: Woods & Poole Economics Inc., 1997.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 6a- -Metropolitan population distribution in market area, state, and R-8, 1990

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Metropolitan status	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population 1990	% population 1990	population 1990	% population 1990	population 1990	% population 1990
Metropolitan	6,416.0	75.1	4,796.6	77.2	55,312.3	71
Non-metropolitan	2,132.7	24.9	1,417.2	22.8	22,555.5	29
	=====	=====	=====	=====	=====	=====
	8,548.7	100.0	6,213.8	100.0	77,867.8	100

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 6b- -Metropolitan population distribution in market area, state, and R-8, 2000

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Metropolitan status	MARKET AREA population 2000	MARKET AREA % population 2000	STATE population 2000	STATE % population 2000	REGION 8 population 2000	REGION 8 % population 2000
Metropolitan	7,155.5	76.2	5,445.9	78.4	64,613.4	72.6
Non-metropolitan	2,236.3	23.8	1,499.2	21.6	24,384.6	27.4
	=====	=====	=====	=====	=====	=====
	9,391.8	100.0	6,945.1	100.0	88,998.0	100.0

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 6c--Projected future metropolitan population distrib. in market area, state, and R-8, 2020

## GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Metropolitan status	MARKET AREA population 2020	MARKET AREA % population 2020	STATE population 2020	STATE % population 2020	REGION 8 population 2020	REGION 8 % population 2020
Metropolitan	8,622.9	78.4	6,651.0	80.4	82,890.0	75.3
Non-metropolitan	2,377.0	21.6	1,617.9	19.6	27,255.0	24.7
	=====	=====	=====	=====	=====	=====
	10,999.9	100.0	8,268.9	100.0	110,145.0	100.0

Source: Woods &amp; Poole Economics Inc., 1997.

Percentages may not sum to 100 because of rounding.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 6d--Absolute and percent change in population by metropolitan status in market area, state, and region-wide, 1990-2000

GEORGE WASHINGTON NATIONAL FOREST						
Metropolitan status	Abs. change, MARKET AREA 1990 to 2000	Pct. change, MARKET AREA 1990 to 2000	Abs. change, STATE 1990 to 2000	Pct. change, STATE 1990 to 2000	Abs. change, REGION 8 1990 to 2000	Pct. change, REGION 8 1990 to 2000
Metropolitan	739.5	11.5	649.3	13.5	9,301.1	16.8
Non-metropolitan	103.6	4.9	82.0	5.8	1,829.1	8.1

Source: Woods &amp; Poole Economics Inc., 1997.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 6e--Projected absolute and percent change in population by metropolitan status in market area, state, and region-wide, 2000-2020

GEORGE WASHINGTON NATIONAL FOREST						
Metropolitan status	Abs. change, MARKET AREA 2000 to 2020	Pct. change, MARKET AREA 2000 to 2020	Abs. change, STATE 2000 to 2020	Pct. change, STATE 2000 to 2020	Abs. change, REGION 8 2000 to 2020	Pct. change, REGION 8 2000 to 2020
Metropolitan	1,467.4	20.5	1,205.1	22.1	18,276.6	28.3
Non-metropolitan	140.7	6.3	118.7	7.9	2,870.4	11.8

Source: Woods &amp; Poole Economics Inc., 1997.

## II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 7--Persons with disabilities by type of limitation in market area, state, and R-8, 1990

## GEORGE WASHINGTON NATIONAL FOREST

(Number of disabled in 1000s.)

Disability	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	# disabled 1990	% pop. 1990	# disabled 1990	% pop. 1990	# disabled 1990	% pop. 1990
Mobility/self-care, age 16-64	236.2	4.3	164.5	4.1	2,478.9	5.1
Work disability, age 16-64	419.5	7.6	299.2	7.5	4,331.3	8.9
Mobility/self-care, age 65+	188.9	21.1	132.1	21.1	2,058.3	22.1

Source: CensusDC+Map, Geolytics, Inc., 1999.

(Data on persons with disabilities available for 1990 only.)

Note: Percentages are proportion of persons within the age groups.

II: POPULATION AND DEMOGRAPHIC CHANGES IN THE MARKET AREA, STATE, AND REGION 8

Table 8--Population by gender in market area, state, and R-8, 1998

GEORGE WASHINGTON NATIONAL FOREST

(Population in 1000s.)

Gender	MARKET AREA	MARKET AREA	STATE	STATE	REGION 8	REGION 8
	population	% population	population	% population	population	% population
	1998	1998	1998	1998	1998	1998
Male population	4,411.8	48.5	3,324.0	48.9	42,115.0	48.5
Female population	4,682.9	51.5	3,473.2	51.1	44,779.1	51.5
	=====	=====	=====	=====	=====	=====
	9,094.7	100.0	6,797.2	100.0	86,894.1	100.0

Source: CensusDC+Map, Geolytics, Inc., 1999.

(Data on gender available for 1990 only.)

Percentages may not sum to 100 because of rounding.

# Appendix III

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 1--Objectives for managing public lands for recreation, Market Area and Region 8 respondents

Percent who said important or very important (and sample size)

## GEORGE WASHINGTON NATIONAL FOREST

Management objective	Market area percent	Market area sample size	Region 8 percent	Region 8 sample size
Inform public about recreation concerns	92.9	56	85.8	385
Conserve & protect F&G (esp. water)	91.0	74	90.9	486
Increase law enforcement efforts	85.2	42	69.1	347
Develop volunteer programs: maintenance	78.0	62	71.7	380
Preserve 'wilderness' experience on F&G	73.6	65	66.9	468
Introduce a recreation fee	68.1	32	60.4	321
Designate more wilderness areas	61.0	60	57.2	376
Designate trails for specific rec. uses	45.9	55	50.0	385
Develop trail systems (nonmotorized rec)	43.7	41	55.2	391
Make easier to get permits for some uses	42.8	42	36.3	376
Expand commercial recreation on F&G	39.5	46	39.1	385
Develop trail systems (motorized rec.)	33.7	58	29.5	446
Develop paved roads on F&G for access	19.6	59	26.2	386
Expand access for motorized OHVs on F&G	16.0	49	21.2	382

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 2--Vision of National Forest land management, Market Area and Region 8 respondents

Percent who said important or very important (and sample size)

## GEORGE WASHINGTON NATIONAL FOREST

Management objective	Market area percent	Market area sample size	Region 8 percent	Region 8 sample size
Protect streams & sources of clean water	95.4	285	93.6	1380
Maintain NFs for future generations' use	92.4	285	92.4	1380
Use forest areas so they're left natural	87.8	285	85.1	1380
Protect rare plant & animal species	86.3	285	85.0	1380
Provide habitat for wildlife & fish	86.0	285	87.0	1380
Provide info & educ services re: forests	81.3	285	78.8	1380
Provide quiet, natural places	75.9	285	74.3	1380
Provide access, facil. & services for OR	74.2	285	75.9	1380
Emphasize planting & management of trees	73.1	285	77.4	1380
Provide roads & serv. for local business	53.3	285	60.1	1380
Provide grazing permits to ranchers	46.2	285	51.6	1380
Provide raw materials/prod. for industry	42.7	285	48.9	1380

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 3a--Outdoor recreation activity participation in the Market Area and Region 8, 2001

Percent and millions of participants

## ALL ACTIVITY TYPES

Activity Type	Activity	MARKET AREA		REGION 8	
		Percent participated 2001	# particip. 2001	Percent 2001	# particip. 2001
I	Walk for pleasure	84.9	6.14	81.0	55.97
I	Family gathering	75.4	5.45	72.3	49.96
I	Picnicking	60.0	4.34	49.1	33.93
I	Visit historic sites	59.9	4.33	43.1	29.78
I	Visit nature centers, etc	59.8	4.32	53.1	36.69
I	View/photograph natural scenery	59.6	4.31	55.5	38.35
I	Sightseeing	54.4	3.93	51.4	35.52
I	Driving for pleasure	52.8	3.82	50.6	34.96
II	View wildlife	46.2	3.34	42.5	29.37
II	View/photograph wildflowers, trees, etc.	44.7	3.23	42.4	29.30
II	Swimming in natural water	40.3	2.91	40.0	27.64
I	Bicycling	38.7	2.80	34.2	23.63
I	Boating	33.5	2.42	34.3	23.70
II	View birds	31.7	2.29	30.8	21.28
II	Day hiking	31.7	2.29	26.2	18.10
II	Visit a wilderness	31.2	2.26	29.5	20.38
II	Gather mushrooms, berries, etc.	28.4	2.05	26.9	18.59
II	Visit waterside besides beach	26.7	1.93	25.9	17.90
III	Visit archeol. sites	25.0	1.81	19.7	13.61
II	Mountain biking	24.9	1.80	16.2	11.19
II	View or photograph fish	23.5	1.70	25.5	17.62
II	Warmwater fishing	20.7	1.50	28.5	19.69
I	Motorboating	19.5	1.41	25.2	17.41
II	Developed camping	19.0	1.37	21.9	15.13
II	Drive off-road	16.6	1.20	17.5	12.09
III	Coldwater fishing	14.6	1.06	10.1	6.98
II	Primitive camping	12.1	0.88	13.3	9.19
III	Saltwater fishing	10.3	0.74	14.2	9.81
III	Rafting	9.3	0.67	8.9	6.15
III	Canoeing	9.1	0.66	7.8	5.39
II	Backpacking	8.9	0.64	7.5	5.18
II	Big game hunting	8.9	0.64	9.5	6.56
II	Horseback riding on trails	7.1	0.51	8.2	5.67
II	Small game hunting	6.6	0.48	8.7	6.01
III	Snorkeling or scuba diving	5.8	0.42	6.7	4.63
III	Waterskiing	5.6	0.40	8.4	5.80
III	Kayaking	3.0	0.22	2.0	1.38
III	Migratory bird hunting	1.1	0.08	2.7	1.87

Source: NSRE 2000-2001

Region 8 participation based on 2000 16+ pop. estimate of 69.1 million.

Market Area participation based on 2000 16+ pop. estimate of 77 percent of total Market Area population, the percentage of 16+ population in Region 8. (See very first table for total Market Area population.)

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 3b--Outdoor recreation activity participation in the Market Area and Region 8, 2001

ACTIVITY TYPE I: Broadly popular activities--provide or facilitate whenever possible.

Percent and millions of participants

Activity	MARKET AREA		REGION 8	
	Percent participated 2001	MARKET AREA # particip. 2001	Percent 2001	REGION 8 # particip. 2001
Walk for pleasure	84.9	6.14	81.0	55.97
Family gathering	75.4	5.45	72.3	49.96
Picnicking	60.0	4.34	49.1	33.93
Visit historic sites	59.9	4.33	43.1	29.78
Visit nature centers, etc	59.8	4.32	53.1	36.69
View/photograph natural scenery	59.6	4.31	55.5	38.35
Sightseeing	54.4	3.93	51.4	35.52
Driving for pleasure	52.8	3.82	50.6	34.96
Bicycling	38.7	2.80	34.2	23.63
Boating	33.5	2.42	34.3	23.70
Motorboating	19.5	1.41	25.2	17.41

Source: NSRE 2000-2001

Region 8 participation based on 2000 16+ pop. estimate of 69.1 million.

Market Area participation based on 2000 16+ pop. estimate of 77 percent of total Market Area population, the percentage of 16+ population in Region 8. (See first table for total Market Area population.)

III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 3c--Market Area trends in outdoor recreation activity participation:  
Absolute and percent change in millions of participants, 1995 to 2001

ACTIVITY TYPE I: Broadly popular activities--provide or facilitate whenever possible.

Activity	Absolute change 1995 to 2001	Percent change in # participants 1995 to 2001
Bicycling	0.94	44.4
Visit nature centers, etc	1.14	30.3
Walk for pleasure	1.44	25.0
Family gathering	1.05	18.7
Visit historic sites	0.81	17.9
Boating	0.38	13.6
Picnicking	0.60	11.1
Motorboating	0.14	6.0
Sightseeing	-0.02	-4.7

Source: NSRE 2000-2001 and NSRE 1994-1995

Activities not appearing in trend tables were not comparable between 1995 and 2001.

Number of participants is based on proportion of 16+ population (77%) in Market Area for 1995 and 2000.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 3d--Outdoor recreation activity participation in the Market Area and Region 8, 2001

ACTIVITY TYPE II: Activities especially suited for National Forests. Provide most popular ones.

Percent and millions of participants

Activity	MARKET AREA		REGION 8 Percent 2001	REGION 8 # particip. 2001
	Percent participated 2001	MARKET AREA # particip. 2001		
View wildlife	46.2	3.34	42.5	29.37
View/photograph wildflowers, trees, etc.	44.7	3.23	42.4	29.30
Swimming in natural water	40.3	2.91	40.0	27.64
Day hiking	31.7	2.29	26.2	18.10
View birds	31.7	2.29	30.8	21.28
Visit a wilderness	31.2	2.26	29.5	20.38
Gather mushrooms, berries, etc.	28.4	2.05	26.9	18.59
Visit waterside besides beach	26.7	1.93	25.9	17.90
Mountain biking	24.9	1.80	16.2	11.19
View or photograph fish	23.5	1.70	25.5	17.62
Warmwater fishing	20.7	1.50	28.5	19.69
Developed camping	19.0	1.37	21.9	15.13
Drive off-road	16.6	1.20	17.5	12.09
Primitive camping	12.1	0.88	13.3	9.19
Big game hunting	8.9	0.64	9.5	6.56
Backpacking	8.9	0.64	7.5	5.18
Horseback riding on trails	7.1	0.51	8.2	5.67
Small game hunting	6.6	0.48	8.7	6.01

Source: NSRE 2000-2001.

Region 8 participation based on 2000 16+ pop. estimate of 69.1 million.

Market Area participation based on 2000 16+ pop. estimate of 77 percent of total Market Area population, the percentage of 16+ population in Region 8. (See first table for total Market Area population.)

III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 3e--Market Area trends in outdoor recreation activity participation:  
Absolute and percent change in millions of participants, 1995 to 2001

ACTIVITY TYPE II: Activities especially suited for National Forests. Provide most popular ones.

Activity	Absolute change 1995 to 2001	Percent change in # participants 1995 to 2001
View or photograph fish	0.82	85.0
View wildlife	1.05	39.6
Day hiking	0.64	33.2
Horseback riding on trails	0.14	31.5
View birds	0.38	14.9
Drive off-road	0.18	12.9
Primitive camping	0.11	9.0
Big game hunting	0.06	6.0
Developed camping	0.12	5.6
Backpacking	0.05	4.7
Warmwater fishing	0.10	2.5
Swimming in natural water	0.11	-0.2
Small game hunting	-0.03	-10.8

Source: NSRE 2000-2001 and NSRE 1994-1995

Activities not appearing in trend tables were not comparable between 1995 and 2001.

Number of participants is based on proportion of 16+ population (77%) in Market Area for 1995 and 2000.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 3f--Outdoor recreation activity participation in the Market Area and Region 8, 2001

ACTIVITY TYPE III: Niche activities. Emphasize if your resources are unique and high quality.

Percent and millions of participants

Activity	MARKET AREA		REGION 8	
	Percent participated 2001	MARKET AREA # particip. 2001	Percent 2001	REGION 8 # particip. 2001
Visit archeol. sites	25.0	1.81	19.7	13.61
Coldwater fishing	14.6	1.06	10.1	6.98
Saltwater fishing	10.3	0.74	14.2	9.81
Rafting	9.3	0.67	8.9	6.15
Canoeing	9.1	0.66	7.8	5.39
Snorkeling or scuba diving	5.8	0.42	6.7	4.63
Waterskiing	5.6	0.40	8.4	5.80
Kayaking	3.0	0.22	2.0	1.38
Migratory bird hunting	1.1	0.08	2.7	1.87

Source: NSRE 2000-2001

Region 8 participation based on 2000 16+ pop. estimate of 69.1 million.

Market Area participation based on 2000 16+ pop. estimate of 77 percent of total Market Area population, the percentage of 16+ population in Region 8. (See first table for total Market Area population.)

III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 3g--Market Area trends in outdoor recreation activity participation:  
Absolute and percent change in millions of participants, 1995 to 2001

ACTIVITY TYPE III: Niche activities. Emphasize if your resources are unique and high quality.

Activity	Absolute change 1995 to 2001	Percent change in # participants 1995 to 2001
Kayaking	0.13	130.8
Visit archeol. sites	0.54	35.9
Rafting	0.15	24.0
Coldwater fishing	0.17	14.1
Canoeing	0.01	-3.2
Snorkeling or scuba diving	-0.02	-7.9
Saltwater fishing	-0.06	-11.2
Migratory bird hunting	-0.02	-21.4
Waterskiing	-0.11	-24.3

Source: NSRE 2000-2001 and NSRE 1994-1995

Activities not appearing in trend tables were not comparable between 1995 and 2001.

Number of participants is based on proportion of 16+ population (77%) in Market Area for 1995 and 2000.

III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4a.1-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= GENDER, Strata= MALE

Activity	Percent participating		
	Male	Total Market Area	Ratio of strata % to market area %
Big game hunting	16.1	8.7	1.85
Small game hunting	12.2	6.6	1.85
Primitive camping	17.1	12.0	1.43
Backpacking	12.6	9.0	1.40
Warmwater fishing	28.5	20.7	1.38
Drive off-road	20.6	16.5	1.25
Mountain biking	29.2	24.9	1.17
Horseback riding on trails	8.2	7.1	1.15
Gather mushrooms, berries, etc.	31.4	28.3	1.11
View or photograph fish	26.0	23.4	1.11
Visit a wilderness or other primitive area	33.8	31.3	1.08
Swimming in natural water	42.8	40.3	1.06
Day hiking	33.8	31.8	1.06
Developed camping	20.1	18.9	1.06
Visit waterside besides beach	27.4	26.7	1.03
View wildlife	45.0	46.2	0.97
View/photograph wildflowers, trees, etc.	39.8	44.6	0.89
View birds	28.0	31.7	0.88

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4a.2-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= GENDER, Strata= FEMALE

Activity	Percent participating		
	Female	Total Market Area	Ratio of strata % to market area %
View birds	34.9	31.7	1.10
View/photograph wildflowers, trees, etc.	48.7	44.6	1.09
View wildlife	47.3	46.2	1.02
Visit waterside besides beach	26.1	26.7	0.98
Swimming in natural water	38.2	40.3	0.95
Day hiking	30.0	31.8	0.94
Developed camping	17.8	18.9	0.94
Visit a wilderness or other primitive area	29.1	31.3	0.93
Gather mushrooms, berries, etc.	25.7	28.3	0.91
View or photograph fish	21.2	23.4	0.91
Horseback riding on trails	6.2	7.1	0.87
Mountain biking	21.1	24.9	0.85
Drive off-road	12.8	16.5	0.78
Warmwater fishing	13.8	20.7	0.67
Backpacking	5.9	9.0	0.66
Primitive camping	7.6	12.0	0.63
Small game hunting	1.6	6.6	0.24
Big game hunting	2.0	8.7	0.23

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4b.1-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= AGE, Strata= Age 16-24

Activity	Percent participating		
	16-24	Total Market Area	Ratio of strata % to market area %
Backpacking	17.9	8.9	2.01
Primitive camping	23.7	12.3	1.93
Mountain biking	39.1	25.2	1.55
Drive off-road	25.0	16.8	1.49
Visit waterside besides beach	39.6	26.7	1.48
Horseback riding on trails	10.4	7.2	1.44
Swimming in natural water	51.7	40.4	1.28
Visit a wilderness or other primitive area	39.4	31.3	1.26
Warmwater fishing	25.2	20.7	1.22
Small game hunting	8.2	6.8	1.21
Gather mushrooms, berries, etc.	32.9	28.9	1.14
Day hiking	35.8	31.9	1.12
Developed camping	21.2	19.1	1.11
View or photograph fish	24.6	23.1	1.06
Big game hunting	8.9	9.0	0.99
View/photograph wildflowers, trees, etc.	43.6	44.4	0.98
View wildlife	44.2	46.5	0.95
View birds	23.3	31.7	0.74

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4b.2-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= AGE, Strata= Age 25-34

Activity	Percent participating		
	25-34	Total Market Area	Ratio of strata % to market area %
Drive off-road	23.8	16.8	1.42
Developed camping	25.2	19.1	1.32
Visit waterside besides beach	34.5	26.7	1.29
Swimming in natural water	51.7	40.4	1.28
Warmwater fishing	26.1	20.7	1.26
Horseback riding on trails	8.9	7.2	1.24
Mountain biking	30.9	25.2	1.23
Primitive camping	14.9	12.3	1.21
View or photograph fish	26.3	23.1	1.14
Big game hunting	10.3	9.0	1.14
Visit a wilderness or other primitive area	35.5	31.3	1.13
Day hiking	35.3	31.9	1.11
Backpacking	9.3	8.9	1.04
View wildlife	45.9	46.5	0.99
View/photograph wildflowers, trees, etc.	43.5	44.4	0.98
Gather mushrooms, berries, etc.	27.5	28.9	0.95
View birds	28.6	31.7	0.90
Small game hunting	6.0	6.8	0.88

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4b.3- - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= AGE, Strata= Age 35-44

Activity	Percent participating		
	35-44	Total Market Area	Ratio of strata % to market area %
Horseback riding on trails	10.7	7.2	1.49
Mountain biking	34.4	25.2	1.37
Warmwater fishing	28.0	20.7	1.35
View birds	41.4	31.7	1.31
View or photograph fish	29.9	23.1	1.29
Developed camping	24.5	19.1	1.28
Swimming in natural water	51.0	40.4	1.26
Day hiking	40.0	31.9	1.25
Primitive camping	15.4	12.3	1.25
View wildlife	55.9	46.5	1.20
Visit waterside besides beach	31.7	26.7	1.19
View/photograph wildflowers, trees, etc.	52.4	44.4	1.18
Gather mushrooms, berries, etc.	34.1	28.9	1.18
Visit a wilderness or other primitive area	35.3	31.3	1.13
Backpacking	10.0	8.9	1.12
Big game hunting	9.9	9.0	1.10
Drive off-road	18.3	16.8	1.09
Small game hunting	7.2	6.8	1.06

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4b.4 - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= AGE, Strata= Age 45-54

Activity	Percent participating		
	45-54	Total Market Area	Ratio of strata % to market area %
Small game hunting	9.7	6.8	1.43
Big game hunting	10.1	9.0	1.12
View wildlife	51.7	46.5	1.11
Day hiking	35.5	31.9	1.11
View birds	32.5	31.7	1.03
View or photograph fish	23.2	23.1	1.00
Developed camping	19.1	19.1	1.00
View/photograph wildflowers, trees, etc.	43.0	44.4	0.97
Gather mushrooms, berries, etc.	28.1	28.9	0.97
Visit a wilderness or other primitive area	29.7	31.3	0.95
Swimming in natural water	36.4	40.4	0.90
Backpacking	7.8	8.9	0.88
Horseback riding on trails	5.9	7.2	0.82
Mountain biking	20.1	25.2	0.80
Visit waterside besides beach	20.6	26.7	0.77
Drive off-road	12.7	16.8	0.76
Warmwater fishing	15.6	20.7	0.75
Primitive camping	7.2	12.3	0.59

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4b.5-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= AGE, Strata= Age 55-64

Activity	Percent participating		
	55-64	Total Market Area	Ratio of strata % to market area %
Big game hunting	9.3	9.0	1.03
View birds	31.9	31.7	1.01
View wildlife	43.5	46.5	0.94
View/photograph wildflowers, trees, etc.	41.3	44.4	0.93
Gather mushrooms, berries, etc.	25.5	28.9	0.88
Warmwater fishing	17.9	20.7	0.86
Visit a wilderness or other primitive area	26.5	31.3	0.85
Small game hunting	5.1	6.8	0.75
View or photograph fish	16.8	23.1	0.73
Swimming in natural water	27.7	40.4	0.69
Visit waterside besides beach	17.9	26.7	0.67
Day hiking	20.5	31.9	0.64
Drive off-road	9.6	16.8	0.57
Developed camping	10.7	19.1	0.56
Horseback riding on trails	3.3	7.2	0.46
Mountain biking	10.3	25.2	0.41
Backpacking	2.8	8.9	0.31
Primitive camping	3.6	12.3	0.29

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4b.6 - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= AGE, Strata= Age 65+

Activity	Percent participating		
	65+	Total Market Area	Ratio of strata % to market area %
View birds	31.0	31.7	0.98
View/photograph wildflowers, trees, etc.	39.6	44.4	0.89
Gather mushrooms, berries, etc.	21.8	28.9	0.75
View wildlife	33.5	46.5	0.72
View or photograph fish	13.1	23.1	0.57
Big game hunting	5.0	9.0	0.56
Visit a wilderness or other primitive area	16.6	31.3	0.53
Day hiking	16.7	31.9	0.52
Small game hunting	3.3	6.8	0.49
Developed camping	8.5	19.1	0.45
Drive off-road	6.8	16.8	0.40
Warmwater fishing	7.0	20.7	0.34
Swimming in natural water	13.0	40.4	0.32
Visit waterside besides beach	8.6	26.7	0.32
Primitive camping	3.1	12.3	0.25
Mountain biking	5.5	25.2	0.22
Backpacking	1.7	8.9	0.19
Horseback riding on trails	0.6	7.2	0.08

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4c.1-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= HOUSEHOLD SIZE, Strata= 1 PERSON HOUSEHOLD

Activity	Percent participating		
	1 person household	Total Market Area	Ratio of strata % to market area %
Day hiking	28.5	32.1	0.89
Gather mushrooms, berries, etc.	24.8	27.8	0.89
View birds	28.1	31.8	0.88
Visit a wilderness or other primitive area	28.2	33.3	0.85
Backpacking	8.1	9.5	0.85
View wildlife	40.6	48.5	0.84
View/photograph wildflowers, trees, etc.	38.7	46.4	0.83
Visit waterside besides beach	22.8	28.3	0.81
Mountain biking	21.5	26.6	0.81
Developed camping	16.0	19.9	0.80
Horseback riding on trails	6.3	8.2	0.77
Warmwater fishing	16.7	23.0	0.73
View or photograph fish	16.7	23.8	0.70
Swimming in natural water	30.0	43.3	0.69
Small game hunting	4.7	7.2	0.65
Drive off-road	11.2	17.9	0.63
Big game hunting	5.1	9.5	0.54
Primitive camping	5.8	12.6	0.46

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4c.2-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= HOUSEHOLD SIZE, Strata= 2 PERSON HOUSEHOLD

Activity	Percent participating		
	2 person household	Total Market Area	Ratio of strata % to market area %
View birds	38.7	31.8	1.22
View wildlife	50.3	48.5	1.04
View or photograph fish	24.3	23.8	1.02
View/photograph wildflowers, trees, etc.	46.5	46.4	1.00
Gather mushrooms, berries, etc.	26.5	27.8	0.95
Visit a wilderness or other primitive area	30.3	33.3	0.91
Day hiking	29.3	32.1	0.91
Warmwater fishing	20.5	23.0	0.89
Swimming in natural water	37.5	43.3	0.87
Backpacking	8.3	9.5	0.87
Primitive camping	10.4	12.6	0.83
Small game hunting	6.0	7.2	0.83
Developed camping	16.3	19.9	0.82
Visit waterside besides beach	23.0	28.3	0.81
Big game hunting	7.6	9.5	0.80
Horseback riding on trails	6.4	8.2	0.78
Drive off-road	13.4	17.9	0.75
Mountain biking	19.8	26.6	0.74

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4c.3 - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= HOUSEHOLD SIZE, Strata= 3 PERSON HOUSEHOLD

Activity	Percent participating		
	3 person household	Total Market Area	Ratio of strata % to market area %
Big game hunting	13.9	9.5	1.46
Small game hunting	10.0	7.2	1.39
Mountain biking	35.6	26.6	1.34
Drive off-road	23.9	17.9	1.34
Visit waterside besides beach	37.1	28.3	1.31
Swimming in natural water	55.8	43.3	1.29
Primitive camping	15.0	12.6	1.19
Day hiking	36.9	32.1	1.15
View wildlife	53.0	48.5	1.09
Visit a wilderness or other primitive area	35.8	33.3	1.08
Warmwater fishing	24.4	23.0	1.06
View or photograph fish	24.6	23.8	1.03
View/photograph wildflowers, trees, etc.	47.3	46.4	1.02
Gather mushrooms, berries, etc.	27.8	27.8	1.00
Developed camping	19.9	19.9	1.00
View birds	25.6	31.8	0.81
Backpacking	7.3	9.5	0.77
Horseback riding on trails	5.2	8.2	0.63

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4c. 4- - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= HOUSEHOLD SIZE, Strata= 4 PERSON HOUSEHOLD

Activity	Percent participating		
	4 person household	Total Market Area	Ratio of strata % to market area %
Primitive camping	21.1	12.6	1.67
Backpacking	15.5	9.5	1.63
Developed camping	31.5	19.9	1.58
Drive off-road	26.9	17.9	1.50
Swimming in natural water	58.1	43.3	1.34
Gather mushrooms, berries, etc.	35.1	27.8	1.26
View or photograph fish	29.7	23.8	1.25
Visit a wilderness or other primitive area	41.3	33.3	1.24
Warmwater fishing	28.5	23.0	1.24
Day hiking	38.8	32.1	1.21
Small game hunting	8.7	7.2	1.21
Mountain biking	30.9	26.6	1.16
Visit waterside besides beach	31.9	28.3	1.13
View/photograph wildflowers, trees, etc.	49.7	46.4	1.07
View wildlife	51.6	48.5	1.06
Big game hunting	8.8	9.5	0.93
Horseback riding on trails	7.1	8.2	0.87
View birds	27.3	31.8	0.86

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4c.5 - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= HOUSEHOLD SIZE, Strata= 5 or more PERSON HOUSEHOLD

Activity	Percent participating		
	5+ persons household	Total Market Area	Ratio of strata % to market area %
Horseback riding on trails	20.4	8.2	2.49
Big game hunting	15.6	9.5	1.64
Warmwater fishing	30.6	23.0	1.33
Mountain biking	33.9	26.6	1.27
Primitive camping	15.2	12.6	1.21
Visit waterside besides beach	34.1	28.3	1.20
Drive off-road	20.6	17.9	1.15
Small game hunting	8.3	7.2	1.15
View/photograph wildflowers, trees, etc.	53.1	46.4	1.14
View birds	34.7	31.8	1.09
View or photograph fish	26.0	23.8	1.09
Visit a wilderness or other primitive area	36.0	33.3	1.08
Backpacking	10.3	9.5	1.08
Swimming in natural water	45.1	43.3	1.04
Developed camping	20.3	19.9	1.02
View wildlife	47.7	48.5	0.98
Gather mushrooms, berries, etc.	26.7	27.8	0.96
Day hiking	30.0	32.1	0.93

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4d.1-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= RACE, Strata= WHITE

Activity	Percent participating		
	White	Total Market Area	Ratio of strata % to market area %
Backpacking	12.2	9.0	1.36
Small game hunting	9.4	7.0	1.34
Big game hunting	12.1	9.3	1.30
Gather mushrooms, berries, etc.	37.2	29.1	1.28
Day hiking	40.1	31.6	1.27
Primitive camping	15.8	12.5	1.26
Horseback riding on trails	9.1	7.2	1.26
Visit a wilderness or other primitive area	38.9	31.5	1.23
Drive off-road	21.0	17.1	1.23
View wildlife	55.7	46.9	1.19
Swimming in natural water	48.1	40.5	1.19
Warmwater fishing	25.0	21.0	1.19
Developed camping	22.8	19.4	1.18
Mountain biking	28.1	25.2	1.12
View/photograph wildflowers, trees, etc.	49.7	44.6	1.11
View birds	35.0	31.4	1.11
Visit waterside besides beach	30.3	27.5	1.10
View or photograph fish	22.9	23.8	0.96

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4d.2-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= RACE, Strata= BLACK

Activity	Percent participating		
	Black or Afric. Amer.	Total Market Area	Ratio of strata % to market area %
View or photograph fish	26.5	23.8	1.11
Visit waterside besides beach	21.6	27.5	0.79
View/photograph wildflowers, trees, etc.	33.9	44.6	0.76
View birds	23.4	31.4	0.75
Mountain biking	18.5	25.2	0.73
Warmwater fishing	13.9	21.0	0.66
Developed camping	12.7	19.4	0.65
Swimming in natural water	25.6	40.5	0.63
View wildlife	27.1	46.9	0.58
Visit a wilderness or other primitive area	17.4	31.5	0.55
Drive off-road	9.0	17.1	0.53
Gather mushrooms, berries, etc.	15.0	29.1	0.52
Day hiking	16.1	31.6	0.51
Horseback riding on trails	3.6	7.2	0.50
Primitive camping	5.4	12.5	0.43
Big game hunting	3.4	9.3	0.37
Small game hunting	2.3	7.0	0.33
Backpacking	2.5	9.0	0.28

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4d.3- - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activitiesDemographic category= RACE, Strata= OTHER  
(OTHER includes Asian, Pacific Islander, and American Indian)

Activity	Percent participating		
	Other	Total Market Area	Ratio of strata % to market area %
View birds	35.7	31.4	1.14
View wildlife	51.8	46.9	1.10
Primitive camping	13.7	12.5	1.10
Mountain biking	26.7	25.2	1.06
Visit waterside besides beach	27.8	27.5	1.01
View/photograph wildflowers, trees, etc.	40.8	44.6	0.91
Developed camping	16.0	19.4	0.82
Backpacking	7.4	9.0	0.82
Swimming in natural water	32.7	40.5	0.81
View or photograph fish	17.6	23.8	0.74
Visit a wilderness or other primitive area	21.6	31.5	0.69
Drive off-road	10.5	17.1	0.61
Day hiking	16.0	31.6	0.51
Warmwater fishing	10.0	21.0	0.48
Big game hunting	4.4	9.3	0.47
Horseback riding on trails	3.1	7.2	0.43
Gather mushrooms, berries, etc.	7.7	29.1	0.26
Small game hunting	1.6	7.0	0.23

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4d.4- - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= RACE/ETHNICITY, Strata= HISPANIC

Activity	Percent participating		
	Hispanic	Total Market Area	Ratio of strata % to market area %
Day hiking	56.9	31.7	1.79
Horseback riding on trails	12.7	7.2	1.76
Mountain biking	31.4	25.1	1.25
Developed camping	18.7	19.2	0.97
Visit a wilderness or other primitive area	28.8	31.2	0.92
View wildlife	41.5	46.5	0.89
View/photograph wildflowers, trees, etc.	36.7	44.5	0.82
View birds	25.5	31.7	0.80
Warmwater fishing	16.1	20.8	0.77
Backpacking	6.8	9.0	0.76
Swimming in natural water	27.1	40.4	0.67
Gather mushrooms, berries, etc.	18.1	28.5	0.64
View or photograph fish	10.9	23.5	0.46
Drive off-road	7.2	16.7	0.43
Visit waterside besides beach	9.1	26.8	0.34
Primitive camping	2.7	12.2	0.22
Big game hunting	0.0	8.9	0.00
Small game hunting	0.0	6.7	0.00

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4e.1-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= INCOME, Strata= Less than \$20,000

Activity	Percent participating		
	\$<20k	Total Market Area	Ratio of strata % to market area %
Horseback riding on trails	8.5	6.6	1.29
Visit a wilderness or other primitive area	34.8	34.9	1.00
Gather mushrooms, berries, etc.	35.0	35.4	0.99
Day hiking	29.9	31.9	0.94
View wildlife	46.5	51.2	0.91
Primitive camping	10.4	12.2	0.85
View birds	29.9	35.8	0.84
Warmwater fishing	17.7	21.4	0.83
Developed camping	16.1	20.2	0.80
View or photograph fish	16.4	21.3	0.77
View/photograph wildflowers, trees, etc.	30.3	45.6	0.66
Big game hunting	7.1	10.9	0.65
Mountain biking	17.3	27.2	0.64
Drive off-road	12.0	19.0	0.63
Visit waterside besides beach	15.9	27.4	0.58
Backpacking	4.2	7.6	0.55
Small game hunting	3.8	7.3	0.52
Swimming in natural water	21.2	43.4	0.49

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4e.2-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= INCOME, Strata= \$20,000 to \$29,999

Activity	Percent participating		
	\$20-29. 999k	Total Market Area	Ratio of strata % to market area %
Gather mushrooms, berries, etc.	40.8	35.4	1.15
Drive off-road	21.9	19.0	1.15
View/photograph wildflowers, trees, etc.	49.4	45.6	1.08
View or photograph fish	23.0	21.3	1.08
Big game hunting	11.0	10.9	1.01
Backpacking	7.7	7.6	1.01
Developed camping	20.3	20.2	1.00
View wildlife	50.5	51.2	0.99
Visit waterside besides beach	27.1	27.4	0.99
Mountain biking	26.3	27.2	0.97
Warmwater fishing	19.4	21.4	0.91
Small game hunting	6.4	7.3	0.88
Visit a wilderness or other primitive area	30.1	34.9	0.86
Swimming in natural water	37.1	43.4	0.85
Horseback riding on trails	5.4	6.6	0.82
Day hiking	25.5	31.9	0.80
Primitive camping	9.1	12.2	0.75
View birds	23.3	35.8	0.65

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4e.3 - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= INCOME, Strata= \$30,000 to \$39,999

Activity	Percent participating		
	\$30-39. 999k	Total Market Area	Ratio of strata % to market area %
Big game hunting	15.9	10.9	1.46
Small game hunting	9.8	7.3	1.34
Day hiking	36.8	31.9	1.15
Warmwater fishing	24.1	21.4	1.13
Drive off-road	19.0	19.0	1.00
Swimming in natural water	42.0	43.4	0.97
Horseback riding on trails	6.4	6.6	0.97
Visit a wilderness or other primitive area	33.6	34.9	0.96
Gather mushrooms, berries, etc.	30.2	35.4	0.85
Primitive camping	10.4	12.2	0.85
View/photograph wildflowers, trees, etc.	36.3	45.6	0.80
View wildlife	39.6	51.2	0.77
Developed camping	15.6	20.2	0.77
Mountain biking	20.1	27.2	0.74
View birds	24.3	35.8	0.68
View or photograph fish	13.6	21.3	0.64
Visit waterside besides beach	17.2	27.4	0.63
Backpacking	3.6	7.6	0.47

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4e. 4- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= INCOME, Strata= \$40,000 to \$49,999

Activity	Percent participating		
	\$40- 49. 999k	Total Market Area	Ratio of strata % to market area %
Mountain biking	41.2	27.2	1.51
Developed camping	29.5	20.2	1.46
Horseback riding on trails	8.4	6.6	1.27
View birds	43.1	35.8	1.20
Primitive camping	14.4	12.2	1.18
Swimming in natural water	49.3	43.4	1.14
View or photograph fish	23.9	21.3	1.12
Backpacking	8.2	7.6	1.08
View/photograph wildflowers, trees, etc.	46.8	45.6	1.03
Visit waterside besides beach	27.8	27.4	1.01
Day hiking	31.3	31.9	0.98
View wildlife	48.7	51.2	0.95
Gather mushrooms, berries, etc.	33.7	35.4	0.95
Visit a wilderness or other primitive area	31.1	34.9	0.89
Warmwater fishing	18.2	21.4	0.85
Drive off-road	15.4	19.0	0.81
Big game hunting	8.1	10.9	0.74
Small game hunting	5.1	7.3	0.70

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4e.5 - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= INCOME, Strata= \$50,000 to \$74,999

Activity	Percent participating		
	\$50-74. 999k	Total Market Area	Ratio of strata % to market area %
Warmwater fishing	30.9	21.4	1.44
Swimming in natural water	58.5	43.4	1.35
Visit waterside besides beach	36.9	27.4	1.35
View/photograph wildflowers, trees, etc.	60.2	45.6	1.32
Small game hunting	9.6	7.3	1.32
Backpacking	9.7	7.6	1.28
Mountain biking	33.4	27.2	1.23
Big game hunting	13.2	10.9	1.21
View birds	42.8	35.8	1.20
View or photograph fish	24.9	21.3	1.17
Gather mushrooms, berries, etc.	40.3	35.4	1.14
View wildlife	57.8	51.2	1.13
Day hiking	36.2	31.9	1.13
Developed camping	22.6	20.2	1.12
Drive off-road	21.2	19.0	1.12
Primitive camping	13.6	12.2	1.11
Visit a wilderness or other primitive area	36.0	34.9	1.03
Horseback riding on trails	5.0	6.6	0.76

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4e.6 - Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= INCOME, Strata= \$75,000 to \$99,999

Activity	Percent participating		
	\$75-99. 999k	Total Market Area	Ratio of strata % to market area %
Small game hunting	12.3	7.3	1.68
View birds	49.5	35.8	1.38
Big game hunting	14.7	10.9	1.35
Backpacking	10.2	7.6	1.34
View or photograph fish	28.1	21.3	1.32
View/photograph wildflowers, trees, etc.	56.9	45.6	1.25
Swimming in natural water	53.1	43.4	1.22
Visit a wilderness or other primitive area	41.6	34.9	1.19
Visit waterside besides beach	30.9	27.4	1.13
View wildlife	54.8	51.2	1.07
Drive off-road	20.4	19.0	1.07
Mountain biking	28.4	27.2	1.04
Horseback riding on trails	6.8	6.6	1.03
Gather mushrooms, berries, etc.	36.2	35.4	1.02
Primitive camping	11.4	12.2	0.93
Day hiking	27.0	31.9	0.85
Developed camping	16.5	20.2	0.82
Warmwater fishing	15.0	21.4	0.70

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4e.7-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= INCOME, Strata= \$100,000 or more

Activity	Percent participating		
	\$100+k	Total Market Area	Ratio of strata % to market area %
Backpacking	14.3	7.6	1.88
Visit waterside besides beach	47.3	27.4	1.73
Primitive camping	18.8	12.2	1.54
Drive off-road	26.2	19.0	1.38
Swimming in natural water	57.8	43.4	1.33
View birds	46.6	35.8	1.30
View wildlife	64.7	51.2	1.26
Developed camping	25.0	20.2	1.24
View or photograph fish	25.4	21.3	1.19
Visit a wilderness or other primitive area	39.6	34.9	1.13
Mountain biking	28.8	27.2	1.06
Day hiking	33.6	31.9	1.05
View/photograph wildflowers, trees, etc.	43.3	45.6	0.95
Horseback riding on trails	6.2	6.6	0.94
Warmwater fishing	17.6	21.4	0.82
Gather mushrooms, berries, etc.	28.5	35.4	0.81
Small game hunting	4.4	7.3	0.60
Big game hunting	5.2	10.9	0.48

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4f.1-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= METROPOLITAN STATUS, Strata= NON-METROPOLITAN

Activity	Percent participating		
	Non-metropolitan	Total Market Area	Ratio of strata % to market area %
Small game hunting	16.8	6.6	2.55
Big game hunting	20.4	8.9	2.29
Drive off-road	28.5	16.6	1.72
Primitive camping	18.5	12.1	1.53
Gather mushrooms, berries, etc.	43.2	28.4	1.52
Warmwater fishing	30.4	20.7	1.47
Developed camping	22.5	19.0	1.18
Visit a wilderness or other primitive area	36.1	31.2	1.16
View wildlife	53.3	46.2	1.15
View birds	34.6	31.7	1.09
Horseback riding on trails	7.7	7.1	1.08
View/photograph wildflowers, trees, etc.	46.0	44.7	1.03
Day hiking	32.8	31.7	1.03
View or photograph fish	24.3	23.5	1.03
Backpacking	8.8	8.9	0.99
Visit waterside besides beach	26.1	26.7	0.98
Swimming in natural water	38.3	40.3	0.95
Mountain biking	23.1	24.9	0.93

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4f.2-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= METROPOLITAN STATUS, Strata= METROPOLITAN

Activity	Percent participating		
	Metropolitan	Total Market Area	Ratio of strata % to market area %
Swimming in natural water	41.0	40.3	1.02
Mountain biking	25.4	24.9	1.02
Backpacking	9.0	8.9	1.01
Visit waterside besides beach	26.8	26.7	1.00
View/photograph wildflowers, trees, etc.	44.2	44.7	0.99
Day hiking	31.4	31.7	0.99
View or photograph fish	23.2	23.5	0.99
View birds	30.9	31.7	0.97
Horseback riding on trails	6.9	7.1	0.97
Visit a wilderness or other primitive area	29.8	31.2	0.96
View wildlife	44.1	46.2	0.95
Developed camping	17.9	19.0	0.94
Warmwater fishing	17.7	20.7	0.86
Gather mushrooms, berries, etc.	24.0	28.4	0.85
Primitive camping	10.2	12.1	0.84
Drive off-road	12.9	16.6	0.78
Big game hunting	5.3	8.9	0.60
Small game hunting	3.5	6.6	0.53

Total Market Area is percent of ALL respondents in the Market Area.

Source: NSRE 2000-2001

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4g.1-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= DISABLED, Type= PHYSICAL DISABILITY

Percent participating	
Activity	Percent participating
View birds	35.44
View wildlife	32.01
Swimming in natural water	31.85
Warmwater fishing	24.09
Day hiking	18.99
Drive off-road	18.26
Developed camping	17.58
Primitive camping	14.06
View or photograph fish	12.44
Big game hunting	6.29
Small game hunting	5.22
Backpacking	5.14

Disability data are from NSRE 1994-1995. They are for all of Region 8, NOT just the Market Area.

III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

Table 4g.2-- Outdoor recreation participation by demographic strata:  
Most popular National Forest-based activities

Demographic category= DISABLED, Type= OTHER DISABILITY (Non-physical)

Percent participating	
Activity	Percent participating
Swimming in natural water	36.75
View wildlife	34.89
View birds	33.89
Warmwater fishing	30.44
Developed camping	19.14
View or photograph fish	17.11
Drive off-road	16.29
Day hiking	15.09
Primitive camping	12.94
Big game hunting	7.94
Small game hunting	7.82
Backpacking	3.28

Disability data are from NSRE 1994-1995. They are for all of Region 8, NOT just the Market Area.

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## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 5--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	% of	% of all	Ratio (1)/(2)	Percent of U. S. population
	participants in MARKET AREA	respondents in MARKET AREA		
Male	52.5	46.3	1.13	48.2
Female	47.5	53.7	0.88	51.8
White, non-Hispanic	61.9	60.1	1.03	71.3
Black, non-Hispanic	28.6	29.9	0.96	12.2
Amer. Indian, non-Hispanic	0.3	0.3	1.00	0.7
Asian/PI, non-Hispanic	3.5	3.7	0.95	3.8
Hispanic	5.7	6.0	0.95	11.9
16-24	29.6	18.9	1.57	16.2
25-34	18.5	17.5	1.06	17.4
35-44	26.9	20.4	1.32	21.0
45-54	14.2	17.2	0.83	17.7
55-64	5.9	10.6	0.56	11.3
65+	4.8	15.5	0.31	16.4
<\$15,000	4.0	5.4	0.74	10.6
\$15,000-\$24,999	5.0	7.5	0.67	12.0
\$25,000-\$49,999	19.0	18.4	1.03	28.3
\$50,000-\$74,999	13.7	11.1	1.23	21.2
\$75,000-\$99,999	7.7	6.3	1.22	12.7
\$100,000+	10.9	8.0	1.36	15.2
Don't know	3.2	1.9	1.68	.
Refused	36.5	41.4	0.88	.
U. S. citizen	92.9	92.2	1.01	90.5
Foreign born	7.1	7.8	0.91	9.5
Non-metro resident	18.8	22.9	0.82	19.8
Metro area resident	81.2	77.1	1.05	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 6--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Mountain Biking			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	55.1	46.3	1.19	48.2
Female	44.9	53.7	0.84	51.8
White, non-Hispanic	67.3	60.1	1.12	71.3
Black, non-Hispanic	21.0	29.9	0.70	12.2
Amer. Indian, non-Hispanic	0.2	0.3	0.67	0.7
Asian/PI, non-Hispanic	4.5	3.7	1.22	3.8
Hispanic	7.1	6.0	1.18	11.9
16-24	28.8	18.9	1.52	16.2
25-34	21.2	17.5	1.21	17.4
35-44	29.0	20.4	1.42	21.0
45-54	13.3	17.2	0.77	17.7
55-64	4.3	10.6	0.41	11.3
65+	3.4	15.5	0.22	16.4
<\$15,000	4.4	5.4	0.81	10.6
\$15,000-\$24,999	4.9	7.5	0.65	12.0
\$25,000-\$49,999	20.7	18.4	1.13	28.3
\$50,000-\$74,999	14.4	11.1	1.30	21.2
\$75,000-\$99,999	7.4	6.3	1.17	12.7
\$100,000+	11.1	8.0	1.39	15.2
Don't know	3.2	1.9	1.68	.
Refused	33.8	41.4	0.82	.
U.S. citizen	92.8	92.2	1.01	90.5
Foreign born	7.2	7.8	0.92	9.5
Non-metro resident	21.6	22.9	0.94	19.8
Metro area resident	78.4	77.1	1.02	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 7--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Horseback Riding on Trails			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	53.9	46.3	1.16	48.2
Female	46.1	53.7	0.86	51.8
White, non-Hispanic	73.1	60.1	1.22	71.3
Black, non-Hispanic	15.0	29.9	0.50	12.2
Amer. Indian, non-Hispanic	0.6	0.3	2.00	0.7
Asian/PI, non-Hispanic	1.3	3.7	0.35	3.8
Hispanic	10.0	6.0	1.67	11.9
16-24	27.1	18.9	1.43	16.2
25-34	21.6	17.5	1.23	17.4
35-44	31.6	20.4	1.55	21.0
45-54	13.6	17.2	0.79	17.7
55-64	4.9	10.6	0.46	11.3
65+	1.2	15.5	0.08	16.4
<\$15,000	4.3	5.4	0.80	10.6
\$15,000-\$24,999	6.7	7.5	0.89	12.0
\$25,000-\$49,999	19.7	18.4	1.07	28.3
\$50,000-\$74,999	10.0	11.1	0.90	21.2
\$75,000-\$99,999	10.2	6.3	1.62	12.7
\$100,000+	10.9	8.0	1.36	15.2
Don't know	1.8	1.9	0.95	.
Refused	36.4	41.4	0.88	.
U.S. citizen	88.6	92.2	0.96	90.5
Foreign born	11.4	7.8	1.46	9.5
Non-metro resident	25.3	22.9	1.10	19.8
Metro area resident	74.7	77.1	0.97	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 8--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Picnicking			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	44.9	46.3	0.97	48.2
Female	55.1	53.7	1.03	51.8
White, non-Hispanic	64.2	60.1	1.07	71.3
Black, non-Hispanic	27.4	29.9	0.92	12.2
Amer. Indian, non-Hispanic	0.3	0.3	1.00	0.7
Asian/PI, non-Hispanic	3.7	3.7	1.00	3.8
Hispanic	4.4	6.0	0.73	11.9
16-24	19.0	18.9	1.01	16.2
25-34	18.8	17.5	1.07	17.4
35-44	24.1	20.4	1.18	21.0
45-54	18.0	17.2	1.05	17.7
55-64	9.4	10.6	0.89	11.3
65+	10.7	15.5	0.69	16.4
<\$15,000	5.4	5.4	1.00	10.6
\$15,000-\$24,999	7.2	7.5	0.96	12.0
\$25,000-\$49,999	19.6	18.4	1.07	28.3
\$50,000-\$74,999	13.5	11.1	1.22	21.2
\$75,000-\$99,999	6.6	6.3	1.05	12.7
\$100,000+	9.3	8.0	1.16	15.2
Don't know	2.1	1.9	1.11	.
Refused	36.4	41.4	0.88	.
U.S. citizen	92.7	92.2	1.01	90.5
Foreign born	7.3	7.8	0.94	9.5
Non-metro resident	24.0	22.9	1.05	19.8
Metro area resident	76.0	77.1	0.99	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 9--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	% of	% of all	Ratio (1)/(2)	Percent of U. S. population
	participants in MARKET AREA	respondents in MARKET AREA		
Male	48.3	46.3	1.04	48.2
Female	51.7	53.7	0.96	51.8
White, non-Hispanic	60.2	60.1	1.00	71.3
Black, non-Hispanic	31.5	29.9	1.05	12.2
Amer. Indian, non-Hispanic	0.4	0.3	1.33	0.7
Asian/PI, non-Hispanic	3.3	3.7	0.89	3.8
Hispanic	4.7	6.0	0.78	11.9
16-24	20.8	18.9	1.10	16.2
25-34	18.8	17.5	1.07	17.4
35-44	21.5	20.4	1.05	21.0
45-54	16.0	17.2	0.93	17.7
55-64	10.1	10.6	0.95	11.3
65+	12.8	15.5	0.83	16.4
<\$15,000	4.8	5.4	0.89	10.6
\$15,000-\$24,999	7.9	7.5	1.05	12.0
\$25,000-\$49,999	19.1	18.4	1.04	28.3
\$50,000-\$74,999	12.0	11.1	1.08	21.2
\$75,000-\$99,999	6.9	6.3	1.10	12.7
\$100,000+	7.8	8.0	0.98	15.2
Don't know	2.2	1.9	1.16	.
Refused	39.3	41.4	0.95	.
U. S. citizen	93.5	92.2	1.01	90.5
Foreign born	6.5	7.8	0.83	9.5
Non-metro resident	23.0	22.9	1.00	19.8
Metro area resident	77.0	77.1	1.00	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 10--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Visit Nature Centers etc.			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	47.9	46.3	1.03	48.2
Female	52.1	53.7	0.97	51.8
White, non-Hispanic	63.8	60.1	1.06	71.3
Black, non-Hispanic	24.6	29.9	0.82	12.2
Amer. Indian, non-H	0.2	0.3	0.67	0.7
Asian/PI, non-Hisp.	3.8	3.7	1.03	3.8
Hispanic	7.6	6.0	1.27	11.9
16-24	19.3	18.9	1.02	16.2
25-34	21.3	17.5	1.22	17.4
35-44	25.1	20.4	1.23	21.0
45-54	16.6	17.2	0.97	17.7
55-64	8.8	10.6	0.83	11.3
65+	8.8	15.5	0.57	16.4
<\$15,000	4.4	5.4	0.81	10.6
\$15,000-\$24,999	6.4	7.5	0.85	12.0
\$25,000-\$49,999	19.4	18.4	1.05	28.3
\$50,000-\$74,999	13.8	11.1	1.24	21.2
\$75,000-\$99,999	8.0	6.3	1.27	12.7
\$100,000+	10.0	8.0	1.25	15.2
Don't know	2.2	1.9	1.16	.
Refused	35.7	41.4	0.86	.
U.S. citizen	90.5	92.2	0.98	90.5
Foreign born	9.5	7.8	1.22	9.5
Non-metro resident	18.8	22.9	0.82	19.8
Metro area resident	81.2	77.1	1.05	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 11--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Visit Prehistoric Sites			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	49.8	46.3	1.08	48.2
Female	50.2	53.7	0.93	51.8
White, non-Hispanic	61.1	60.1	1.02	71.3
Black, non-Hispanic	27.8	29.9	0.93	12.2
Amer. Indian, non-Hispanic	0.4	0.3	1.33	0.7
Asian/PI, non-Hispanic	2.8	3.7	0.76	3.8
Hispanic	7.9	6.0	1.32	11.9
16-24	21.3	18.9	1.13	16.2
25-34	17.8	17.5	1.02	17.4
35-44	26.4	20.4	1.29	21.0
45-54	17.0	17.2	0.99	17.7
55-64	8.0	10.6	0.75	11.3
65+	9.6	15.5	0.62	16.4
<\$15,000	6.0	5.4	1.11	10.6
\$15,000-\$24,999	4.9	7.5	0.65	12.0
\$25,000-\$49,999	19.2	18.4	1.04	28.3
\$50,000-\$74,999	12.6	11.1	1.14	21.2
\$75,000-\$99,999	7.9	6.3	1.25	12.7
\$100,000+	10.6	8.0	1.33	15.2
Don't know	2.5	1.9	1.32	.
Refused	36.3	41.4	0.88	.
U.S. citizen	90.1	92.2	0.98	90.5
Foreign born	9.9	7.8	1.27	9.5
Non-metro resident	19.4	22.9	0.85	19.8
Metro area resident	80.6	77.1	1.05	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 12--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Visit Historic Sites		Ratio (1)/(2)	Percent of U. S. population
	% of participants in MARKET AREA	% of all respondents in MARKET AREA		
Male	49.0	46.3	1.06	48.2
Female	51.0	53.7	0.95	51.8
White, non-Hispanic	63.5	60.1	1.06	71.3
Black, non-Hispanic	26.5	29.9	0.89	12.2
Amer. Indian, non-H	0.3	0.3	1.00	0.7
Asian/PI, non-Hisp.	4.0	3.7	1.08	3.8
Hispanic	5.7	6.0	0.95	11.9
16-24	22.2	18.9	1.17	16.2
25-34	20.0	17.5	1.14	17.4
35-44	24.0	20.4	1.18	21.0
45-54	16.6	17.2	0.97	17.7
55-64	8.7	10.6	0.82	11.3
65+	8.4	15.5	0.54	16.4
<\$15,000	3.4	5.4	0.63	10.6
\$15,000-\$24,999	5.4	7.5	0.72	12.0
\$25,000-\$49,999	19.7	18.4	1.07	28.3
\$50,000-\$74,999	14.2	11.1	1.28	21.2
\$75,000-\$99,999	8.2	6.3	1.30	12.7
\$100,000+	9.9	8.0	1.24	15.2
Don't know	2.4	1.9	1.26	.
Refused	36.8	41.4	0.89	.
U. S. citizen	92.7	92.2	1.01	90.5
Foreign born	7.3	7.8	0.94	9.5
Non-metro resident	16.8	22.9	0.73	19.8
Metro area resident	83.2	77.1	1.08	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 13--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Walking For Pleasure			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	45.1	46.3	0.97	48.2
Female	54.9	53.7	1.02	51.8
White, non-Hispanic	62.3	60.1	1.04	71.3
Black, non-Hispanic	29.6	29.9	0.99	12.2
Amer. Indian, non-Hispanic	0.3	0.3	1.00	0.7
Asian/PI, non-Hispanic	2.8	3.7	0.76	3.8
Hispanic	5.0	6.0	0.83	11.9
16-24	19.3	18.9	1.02	16.2
25-34	18.4	17.5	1.05	17.4
35-44	21.5	20.4	1.05	21.0
45-54	16.8	17.2	0.98	17.7
55-64	9.8	10.6	0.92	11.3
65+	14.3	15.5	0.92	16.4
<\$15,000	5.0	5.4	0.93	10.6
\$15,000-\$24,999	7.6	7.5	1.01	12.0
\$25,000-\$49,999	18.7	18.4	1.02	28.3
\$50,000-\$74,999	11.7	11.1	1.05	21.2
\$75,000-\$99,999	6.6	6.3	1.05	12.7
\$100,000+	8.5	8.0	1.06	15.2
Don't know	2.2	1.9	1.16	.
Refused	39.7	41.4	0.96	.
U.S. citizen	93.4	92.2	1.01	90.5
Foreign born	6.6	7.8	0.85	9.5
Non-metro resident	23.1	22.9	1.01	19.8
Metro area resident	76.9	77.1	1.00	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 14--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Hi king			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	49.2	46.3	1.06	48.2
Female	50.8	53.7	0.95	51.8
White, non-Hispanic	72.2	60.1	1.20	71.3
Black, non-Hispanic	15.0	29.9	0.50	12.2
Amer. Indian, non-H	0.2	0.3	0.67	0.7
Asian/PI, non-Hisp.	2.0	3.7	0.54	3.8
Hispanic	10.7	6.0	1.78	11.9
16-24	21.2	18.9	1.12	16.2
25-34	19.4	17.5	1.11	17.4
35-44	25.4	20.4	1.25	21.0
45-54	19.1	17.2	1.11	17.7
55-64	6.8	10.6	0.64	11.3
65+	8.1	15.5	0.52	16.4
<\$15,000	6.3	5.4	1.17	10.6
\$15,000-\$24,999	6.4	7.5	0.85	12.0
\$25,000-\$49,999	16.9	18.4	0.92	28.3
\$50,000-\$74,999	13.1	11.1	1.18	21.2
\$75,000-\$99,999	6.4	6.3	1.02	12.7
\$100,000+	9.6	8.0	1.20	15.2
Don't know	2.1	1.9	1.11	.
Refused	39.1	41.4	0.94	.
U.S. citizen	87.8	92.2	0.95	90.5
Foreign born	12.2	7.8	1.56	9.5
Non-metro resident	23.8	22.9	1.04	19.8
Metro area resident	76.2	77.1	0.99	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 15--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Backpacking			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	64.8	46.3	1.40	48.2
Female	35.2	53.7	0.66	51.8
White, non-Hispanic	83.5	60.1	1.39	71.3
Black, non-Hispanic	8.4	29.9	0.28	12.2
Amer. Indian, non-Hispanic	3.5	0.3	11.67	0.7
Asian/PI, non-Hispanic	4.6	3.7	1.24	3.8
Hispanic	.	6.0	.	11.9
16-24	37.8	18.9	2.00	16.2
25-34	18.2	17.5	1.04	17.4
35-44	22.7	20.4	1.11	21.0
45-54	15.1	17.2	0.88	17.7
55-64	3.4	10.6	0.32	11.3
65+	2.9	15.5	0.19	16.4
<\$15,000	4.6	5.4	0.85	10.6
\$15,000-\$24,999	3.3	7.5	0.44	12.0
\$25,000-\$49,999	12.6	18.4	0.68	28.3
\$50,000-\$74,999	13.6	11.1	1.23	21.2
\$75,000-\$99,999	7.1	6.3	1.13	12.7
\$100,000+	12.8	8.0	1.60	15.2
Don't know	5.0	1.9	2.63	.
Refused	40.9	41.4	0.99	.
U.S. citizen	92.3	92.2	1.00	90.5
Foreign born	7.7	7.8	0.99	9.5
Non-metro resident	22.7	22.9	0.99	19.8
Metro area resident	77.3	77.1	1.00	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 16--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Developed Camping			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	49.5	46.3	1.07	48.2
Female	50.5	53.7	0.94	51.8
White, non-Hispanic	71.3	60.1	1.19	71.3
Black, non-Hispanic	19.5	29.9	0.65	12.2
Amer. Indian, non-H	0.4	0.3	1.33	0.7
Asian/PI, non-Hisp.	2.9	3.7	0.78	3.8
Hispanic	5.9	6.0	0.98	11.9
16-24	20.7	18.9	1.10	16.2
25-34	23.2	17.5	1.33	17.4
35-44	26.1	20.4	1.28	21.0
45-54	17.2	17.2	1.00	17.7
55-64	5.9	10.6	0.56	11.3
65+	6.9	15.5	0.45	16.4
<\$15,000	6.4	5.4	1.19	10.6
\$15,000-\$24,999	5.1	7.5	0.68	12.0
\$25,000-\$49,999	19.8	18.4	1.08	28.3
\$50,000-\$74,999	16.8	11.1	1.51	21.2
\$75,000-\$99,999	6.1	6.3	0.97	12.7
\$100,000+	8.8	8.0	1.10	15.2
Don't know	2.5	1.9	1.32	.
Refused	34.4	41.4	0.83	.
U.S. citizen	93.9	92.2	1.02	90.5
Foreign born	6.1	7.8	0.78	9.5
Non-metro resident	27.3	22.9	1.19	19.8
Metro area resident	72.7	77.1	0.94	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 17--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Primitive Camping			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	66.1	46.3	1.43	48.2
Female	33.9	53.7	0.63	51.8
White, non-Hispanic	80.9	60.1	1.35	71.3
Black, non-Hispanic	13.3	29.9	0.44	12.2
Amer. Indian, non-Hispanic	0.8	0.3	2.67	0.7
Asian/PI, non-Hispanic	3.7	3.7	1.00	3.8
Hispanic	1.3	6.0	0.22	11.9
16-24	36.0	18.9	1.90	16.2
25-34	21.3	17.5	1.22	17.4
35-44	25.6	20.4	1.25	21.0
45-54	10.1	17.2	0.59	17.7
55-64	3.1	10.6	0.29	11.3
65+	3.9	15.5	0.25	16.4
<\$15,000	4.9	5.4	0.91	10.6
\$15,000-\$24,999	8.3	7.5	1.11	12.0
\$25,000-\$49,999	14.9	18.4	0.81	28.3
\$50,000-\$74,999	13.8	11.1	1.24	21.2
\$75,000-\$99,999	6.1	6.3	0.97	12.7
\$100,000+	7.9	8.0	0.99	15.2
Don't know	3.2	1.9	1.68	.
Refused	40.9	41.4	0.99	.
U.S. citizen	95.8	92.2	1.04	90.5
Foreign born	4.2	7.8	0.54	9.5
Non-metro resident	35.2	22.9	1.54	19.8
Metro area resident	64.8	77.1	0.84	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 18--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	% of	% of all	Ratio (1)/(2)	Percent of U. S. population
	participants in MARKET AREA	respondents in MARKET AREA		
Male	50.0	46.3	1.08	48.2
Female	50.0	53.7	0.93	51.8
White, non-Hispanic	74.9	60.1	1.25	71.3
Black, non-Hispanic	16.6	29.9	0.56	12.2
Amer. Indian, non-H	0.4	0.3	1.33	0.7
Asian/PI, non-Hisp.	2.5	3.7	0.68	3.8
Hispanic	5.6	6.0	0.93	11.9
16-24	23.7	18.9	1.25	16.2
25-34	19.8	17.5	1.13	17.4
35-44	23.0	20.4	1.13	21.0
45-54	16.3	17.2	0.95	17.7
55-64	9.0	10.6	0.85	11.3
65+	8.3	15.5	0.54	16.4
<\$15,000	6.2	5.4	1.15	10.6
\$15,000-\$24,999	6.3	7.5	0.84	12.0
\$25,000-\$49,999	19.9	18.4	1.08	28.3
\$50,000-\$74,999	13.8	11.1	1.24	21.2
\$75,000-\$99,999	7.7	6.3	1.22	12.7
\$100,000+	9.4	8.0	1.18	15.2
Don't know	2.1	1.9	1.11	.
Refused	34.7	41.4	0.84	.
U. S. citizen	94.0	92.2	1.02	90.5
Foreign born	6.0	7.8	0.77	9.5
Non-metro resident	26.3	22.9	1.15	19.8
Metro area resident	73.7	77.1	0.96	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 19--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Gather Mushrooms-Berries-etc.			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	51.2	46.3	1.11	48.2
Female	48.8	53.7	0.91	51.8
White, non-Hispanic	79.6	60.1	1.32	71.3
Black, non-Hispanic	15.5	29.9	0.52	12.2
Amer. Indian, non-H	0.5	0.3	1.67	0.7
Asian/PI, non-Hisp.	0.7	3.7	0.19	3.8
Hispanic	3.8	6.0	0.63	11.9
16-24	21.5	18.9	1.14	16.2
25-34	16.7	17.5	0.95	17.4
35-44	24.0	20.4	1.18	21.0
45-54	16.8	17.2	0.98	17.7
55-64	9.3	10.6	0.88	11.3
65+	11.8	15.5	0.76	16.4
<\$15,000	6.5	5.4	1.20	10.6
\$15,000-\$24,999	11.5	7.5	1.53	12.0
\$25,000-\$49,999	20.9	18.4	1.14	28.3
\$50,000-\$74,999	15.0	11.1	1.35	21.2
\$75,000-\$99,999	6.8	6.3	1.08	12.7
\$100,000+	6.6	8.0	0.83	15.2
Don't know	2.7	1.9	1.42	.
Refused	30.0	41.4	0.72	.
U.S. citizen	94.9	92.2	1.03	90.5
Foreign born	5.1	7.8	0.65	9.5
Non-metro resident	34.8	22.9	1.52	19.8
Metro area resident	65.2	77.1	0.85	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 20--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Big Game Hunting		Ratio (1)/(2)	Percent of U. S. population
	% of participants in MARKET AREA	% of all respondents in MARKET AREA		
Male	87.8	46.3	1.90	48.2
Female	12.2	53.7	0.23	51.8
White, non-Hispanic	87.5	60.1	1.46	71.3
Black, non-Hispanic	10.5	29.9	0.35	12.2
Amer. Indian, non-Hispanic	2.1	0.3	7.00	0.7
Asian/PI, non-Hispanic	.	3.7	.	3.8
Hispanic	.	6.0	.	11.9
16-24	18.1	18.9	0.96	16.2
25-34	19.6	17.5	1.12	17.4
35-44	24.4	20.4	1.20	21.0
45-54	18.3	17.2	1.06	17.7
55-64	11.1	10.6	1.05	11.3
65+	8.5	15.5	0.55	16.4
<\$15,000	8.3	5.4	1.54	10.6
\$15,000-\$24,999	6.6	7.5	0.88	12.0
\$25,000-\$49,999	30.1	18.4	1.64	28.3
\$50,000-\$74,999	15.5	11.1	1.40	21.2
\$75,000-\$99,999	5.4	6.3	0.86	12.7
\$100,000+	4.7	8.0	0.59	15.2
Don't know	0.8	1.9	0.42	.
Refused	28.5	41.4	0.69	.
U. S. citizen	100.0	92.2	1.08	90.5
Foreign born	.	7.8	.	9.5
Non-metro resident	54.8	22.9	2.39	19.8
Metro area resident	45.2	77.1	0.59	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 21--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Small Game Hunting			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	87.0	46.3	1.88	48.2
Female	13.0	53.7	0.24	51.8
White, non-Hispanic	89.8	60.1	1.49	71.3
Black, non-Hispanic	9.2	29.9	0.31	12.2
Amer. Indian, non-Hispanic	1.0	0.3	3.33	0.7
Asian/PI, non-Hispanic	.	3.7	.	3.8
Hispanic	.	6.0	.	11.9
16-24	22.1	18.9	1.17	16.2
25-34	15.3	17.5	0.87	17.4
35-44	23.6	20.4	1.16	21.0
45-54	23.4	17.2	1.36	17.7
55-64	8.1	10.6	0.76	11.3
65+	7.5	15.5	0.48	16.4
<\$15,000	3.6	5.4	0.67	10.6
\$15,000-\$24,999	3.4	7.5	0.45	12.0
\$25,000-\$49,999	26.3	18.4	1.43	28.3
\$50,000-\$74,999	16.3	11.1	1.47	21.2
\$75,000-\$99,999	9.8	6.3	1.56	12.7
\$100,000+	5.0	8.0	0.63	15.2
Don't know	5.1	1.9	2.68	.
Refused	30.4	41.4	0.73	.
U.S. citizen	100.0	92.2	1.08	90.5
Foreign born	.	7.8	.	9.5
Non-metro resident	60.1	22.9	2.62	19.8
Metro area resident	39.9	77.1	0.52	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 22--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Migratory Bird Hunting			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	88.2	46.3	1.90	48.2
Female	11.8	53.7	0.22	51.8
White, non-Hispanic	78.2	60.1	1.30	71.3
Black, non-Hispanic	21.8	29.9	0.73	12.2
Amer. Indian, non-Hispanic	.	0.3	.	0.7
Asian/PI, non-Hispanic	.	3.7	.	3.8
Hispanic	.	6.0	.	11.9
16-24	21.7	18.9	1.15	16.2
25-34	15.4	17.5	0.88	17.4
35-44	26.9	20.4	1.32	21.0
45-54	26.4	17.2	1.53	17.7
55-64	9.6	10.6	0.91	11.3
65+	.	15.5	.	16.4
<\$15,000	3.2	5.4	0.59	10.6
\$15,000-\$24,999	3.0	7.5	0.40	12.0
\$25,000-\$49,999	19.0	18.4	1.03	28.3
\$50,000-\$74,999	11.3	11.1	1.02	21.2
\$75,000-\$99,999	23.5	6.3	3.73	12.7
\$100,000+	8.1	8.0	1.01	15.2
Don't know	13.7	1.9	7.21	.
Refused	18.2	41.4	0.44	.
U.S. citizen	100.0	92.2	1.08	90.5
Foreign born	.	7.8	.	9.5
Non-metro resident	39.1	22.9	1.71	19.8
Metro area resident	60.9	77.1	0.79	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 23--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Sightseeing			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	46.1	46.3	1.00	48.2
Female	53.9	53.7	1.00	51.8
White, non-Hispanic	69.7	60.1	1.16	71.3
Black, non-Hispanic	24.5	29.9	0.82	12.2
Amer. Indian, non-Hispanic	0.3	0.3	1.00	0.7
Asian/PI, non-Hispanic	1.6	3.7	0.43	3.8
Hispanic	3.8	6.0	0.63	11.9
16-24	17.9	18.9	0.95	16.2
25-34	20.4	17.5	1.17	17.4
35-44	22.5	20.4	1.10	21.0
45-54	16.6	17.2	0.97	17.7
55-64	10.4	10.6	0.98	11.3
65+	12.3	15.5	0.79	16.4
<\$15,000	4.1	5.4	0.76	10.6
\$15,000-\$24,999	7.6	7.5	1.01	12.0
\$25,000-\$49,999	21.8	18.4	1.18	28.3
\$50,000-\$74,999	13.3	11.1	1.20	21.2
\$75,000-\$99,999	8.2	6.3	1.30	12.7
\$100,000+	9.1	8.0	1.14	15.2
Don't know	2.6	1.9	1.37	.
Refused	33.3	41.4	0.80	.
U.S. citizen	95.4	92.2	1.03	90.5
Foreign born	4.6	7.8	0.59	9.5
Non-metro resident	24.4	22.9	1.07	19.8
Metro area resident	75.6	77.1	0.98	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 24--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Driving For Pleasure			Percent of U.S. population
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	
Male	45.9	46.3	0.99	48.2
Female	54.1	53.7	1.01	51.8
White, non-Hispanic	68.9	60.1	1.15	71.3
Black, non-Hispanic	25.5	29.9	0.85	12.2
Amer. Indian, non-Hispanic	0.2	0.3	0.67	0.7
Asian/PI, non-Hispanic	2.0	3.7	0.54	3.8
Hispanic	3.4	6.0	0.57	11.9
16-24	18.6	18.9	0.98	16.2
25-34	20.3	17.5	1.16	17.4
35-44	21.8	20.4	1.07	21.0
45-54	16.4	17.2	0.95	17.7
55-64	11.2	10.6	1.06	11.3
65+	11.6	15.5	0.75	16.4
<\$15,000	3.6	5.4	0.67	10.6
\$15,000-\$24,999	7.5	7.5	1.00	12.0
\$25,000-\$49,999	22.1	18.4	1.20	28.3
\$50,000-\$74,999	13.6	11.1	1.23	21.2
\$75,000-\$99,999	7.1	6.3	1.13	12.7
\$100,000+	9.0	8.0	1.13	15.2
Don't know	2.3	1.9	1.21	.
Refused	34.8	41.4	0.84	.
U.S. citizen	95.1	92.2	1.03	90.5
Foreign born	4.9	7.8	0.63	9.5
Non-metro resident	26.7	22.9	1.17	19.8
Metro area resident	73.3	77.1	0.95	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 25--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Driving Off-road		Ratio (1)/(2)	Percent of U.S. population
	% of participants in MARKET AREA	% of all respondents in MARKET AREA		
Male	59.0	46.3	1.27	48.2
Female	41.0	53.7	0.76	51.8
White, non-Hispanic	80.2	60.1	1.33	71.3
Black, non-Hispanic	14.6	29.9	0.49	12.2
Amer. Indian, non-H	0.4	0.3	1.33	0.7
Asian/PI, non-Hisp.	2.2	3.7	0.59	3.8
Hispanic	2.6	6.0	0.43	11.9
16-24	27.1	18.9	1.43	16.2
25-34	24.3	17.5	1.39	17.4
35-44	24.0	20.4	1.18	21.0
45-54	12.3	17.2	0.72	17.7
55-64	6.1	10.6	0.58	11.3
65+	6.1	15.5	0.39	16.4
<\$15,000	2.8	5.4	0.52	10.6
\$15,000-\$24,999	6.4	7.5	0.85	12.0
\$25,000-\$49,999	24.1	18.4	1.31	28.3
\$50,000-\$74,999	12.5	11.1	1.13	21.2
\$75,000-\$99,999	8.5	6.3	1.35	12.7
\$100,000+	8.4	8.0	1.05	15.2
Don't know	1.3	1.9	0.68	.
Refused	36.0	41.4	0.87	.
U.S. citizen	95.4	92.2	1.03	90.5
Foreign born	4.6	7.8	0.59	9.5
Non-metro resident	40.8	22.9	1.78	19.8
Metro area resident	59.2	77.1	0.77	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 26--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Coldwater Fishing			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	61.8	46.3	1.33	48.2
Female	38.2	53.7	0.71	51.8
White, non-Hispanic	77.3	60.1	1.29	71.3
Black, non-Hispanic	15.4	29.9	0.52	12.2
Amer. Indian, non-H	0.3	0.3	1.00	0.7
Asian/PI, non-Hisp.	1.5	3.7	0.41	3.8
Hispanic	5.6	6.0	0.93	11.9
16-24	25.4	18.9	1.34	16.2
25-34	21.1	17.5	1.21	17.4
35-44	26.7	20.4	1.31	21.0
45-54	11.9	17.2	0.69	17.7
55-64	6.4	10.6	0.60	11.3
65+	8.5	15.5	0.55	16.4
<\$15,000	6.4	5.4	1.19	10.6
\$15,000-\$24,999	8.4	7.5	1.12	12.0
\$25,000-\$49,999	19.2	18.4	1.04	28.3
\$50,000-\$74,999	17.5	11.1	1.58	21.2
\$75,000-\$99,999	6.3	6.3	1.00	12.7
\$100,000+	6.0	8.0	0.75	15.2
Don't know	3.7	1.9	1.95	.
Refused	32.4	41.4	0.78	.
U.S. citizen	92.4	92.2	1.00	90.5
Foreign born	7.6	7.8	0.97	9.5
Non-metro resident	36.4	22.9	1.59	19.8
Metro area resident	63.6	77.1	0.82	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 27--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Warmwater Fishing			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	64.8	46.3	1.40	48.2
Female	35.2	53.7	0.66	51.8
White, non-Hispanic	73.7	60.1	1.23	71.3
Black, non-Hispanic	19.8	29.9	0.66	12.2
Amer. Indian, non-H	0.4	0.3	1.33	0.7
Asian/PI, non-Hisp.	1.7	3.7	0.46	3.8
Hispanic	4.4	6.0	0.73	11.9
16-24	22.7	18.9	1.20	16.2
25-34	21.7	17.5	1.24	17.4
35-44	28.7	20.4	1.41	21.0
45-54	12.4	17.2	0.72	17.7
55-64	9.1	10.6	0.86	11.3
65+	5.3	15.5	0.34	16.4
<\$15,000	5.2	5.4	0.96	10.6
\$15,000-\$24,999	6.7	7.5	0.89	12.0
\$25,000-\$49,999	22.7	18.4	1.23	28.3
\$50,000-\$74,999	17.0	11.1	1.53	21.2
\$75,000-\$99,999	5.7	6.3	0.90	12.7
\$100,000+	6.0	8.0	0.75	15.2
Don't know	1.6	1.9	0.84	.
Refused	35.1	41.4	0.85	.
U.S. citizen	94.8	92.2	1.03	90.5
Foreign born	5.2	7.8	0.67	9.5
Non-metro resident	34.2	22.9	1.49	19.8
Metro area resident	65.8	77.1	0.85	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 28--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Saltwater Fishing			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	71.4	46.3	1.54	48.2
Female	28.6	53.7	0.53	51.8
White, non-Hispanic	57.0	60.1	0.95	71.3
Black, non-Hispanic	39.2	29.9	1.31	12.2
Amer. Indian, non-Hispanic	0.4	0.3	1.33	0.7
Asian/PI, non-Hispanic	3.4	3.7	0.92	3.8
Hispanic	.	6.0	.	11.9
16-24	23.7	18.9	1.25	16.2
25-34	24.1	17.5	1.38	17.4
35-44	23.8	20.4	1.17	21.0
45-54	9.9	17.2	0.58	17.7
55-64	10.4	10.6	0.98	11.3
65+	8.1	15.5	0.52	16.4
<\$15,000	4.7	5.4	0.87	10.6
\$15,000-\$24,999	6.7	7.5	0.89	12.0
\$25,000-\$49,999	14.9	18.4	0.81	28.3
\$50,000-\$74,999	12.9	11.1	1.16	21.2
\$75,000-\$99,999	8.4	6.3	1.33	12.7
\$100,000+	11.6	8.0	1.45	15.2
Don't know	1.7	1.9	0.89	.
Refused	39.1	41.4	0.94	.
U.S. citizen	96.6	92.2	1.05	90.5
Foreign born	3.4	7.8	0.44	9.5
Non-metro resident	19.2	22.9	0.84	19.8
Metro area resident	80.8	77.1	1.05	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 29--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Canoeing			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	63.7	46.3	1.38	48.2
Female	36.3	53.7	0.68	51.8
White, non-Hispanic	85.9	60.1	1.43	71.3
Black, non-Hispanic	11.7	29.9	0.39	12.2
Amer. Indian, non-Hispanic	0.2	0.3	0.67	0.7
Asian/PI, non-Hispanic	1.4	3.7	0.38	3.8
Hispanic	0.7	6.0	0.12	11.9
16-24	41.3	18.9	2.19	16.2
25-34	15.7	17.5	0.90	17.4
35-44	24.9	20.4	1.22	21.0
45-54	8.8	17.2	0.51	17.7
55-64	3.5	10.6	0.33	11.3
65+	5.7	15.5	0.37	16.4
<\$15,000	2.3	5.4	0.43	10.6
\$15,000-\$24,999	2.8	7.5	0.37	12.0
\$25,000-\$49,999	13.6	18.4	0.74	28.3
\$50,000-\$74,999	17.7	11.1	1.59	21.2
\$75,000-\$99,999	2.8	6.3	0.44	12.7
\$100,000+	11.5	8.0	1.44	15.2
Don't know	6.0	1.9	3.16	.
Refused	43.3	41.4	1.05	.
U.S. citizen	94.9	92.2	1.03	90.5
Foreign born	5.1	7.8	0.65	9.5
Non-metro resident	21.9	22.9	0.96	19.8
Metro area resident	78.1	77.1	1.01	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 30--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Kayaking			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	48.3	46.3	1.04	48.2
Female	51.7	53.7	0.96	51.8
White, non-Hispanic	76.5	60.1	1.27	71.3
Black, non-Hispanic	8.3	29.9	0.28	12.2
Amer. Indian, non-Hispanic	7.2	0.3	24.00	0.7
Asian/PI, non-Hispanic	8.0	3.7	2.16	3.8
Hispanic	.	6.0	.	11.9
16-24	42.6	18.9	2.25	16.2
25-34	20.6	17.5	1.18	17.4
35-44	19.9	20.4	0.98	21.0
45-54	13.4	17.2	0.78	17.7
55-64	2.3	10.6	0.22	11.3
65+	1.1	15.5	0.07	16.4
<\$15,000	8.9	5.4	1.65	10.6
\$15,000-\$24,999	4.8	7.5	0.64	12.0
\$25,000-\$49,999	12.5	18.4	0.68	28.3
\$50,000-\$74,999	7.5	11.1	0.68	21.2
\$75,000-\$99,999	12.9	6.3	2.05	12.7
\$100,000+	19.8	8.0	2.48	15.2
Don't know	1.9	1.9	1.00	.
Refused	31.7	41.4	0.77	.
U.S. citizen	97.7	92.2	1.06	90.5
Foreign born	2.3	7.8	0.29	9.5
Non-metro resident	14.9	22.9	0.65	19.8
Metro area resident	85.1	77.1	1.10	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 31--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Motorboating			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	50.7	46.3	1.10	48.2
Female	49.3	53.7	0.92	51.8
White, non-Hispanic	79.5	60.1	1.32	71.3
Black, non-Hispanic	15.4	29.9	0.52	12.2
Amer. Indian, non-Hispanic	0.6	0.3	2.00	0.7
Asian/PI, non-Hispanic	2.6	3.7	0.70	3.8
Hispanic	1.9	6.0	0.32	11.9
16-24	28.6	18.9	1.51	16.2
25-34	20.1	17.5	1.15	17.4
35-44	22.1	20.4	1.08	21.0
45-54	14.1	17.2	0.82	17.7
55-64	7.5	10.6	0.71	11.3
65+	7.6	15.5	0.49	16.4
<\$15,000	2.9	5.4	0.54	10.6
\$15,000-\$24,999	6.0	7.5	0.80	12.0
\$25,000-\$49,999	20.4	18.4	1.11	28.3
\$50,000-\$74,999	15.8	11.1	1.42	21.2
\$75,000-\$99,999	6.7	6.3	1.06	12.7
\$100,000+	12.9	8.0	1.61	15.2
Don't know	2.7	1.9	1.42	.
Refused	32.7	41.4	0.79	.
U.S. citizen	98.0	92.2	1.06	90.5
Foreign born	2.0	7.8	0.26	9.5
Non-metro resident	24.8	22.9	1.08	19.8
Metro area resident	75.2	77.1	0.98	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 32--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Waterskiing			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	57.5	46.3	1.24	48.2
Female	42.5	53.7	0.79	51.8
White, non-Hispanic	84.2	60.1	1.40	71.3
Black, non-Hispanic	11.2	29.9	0.37	12.2
Amer. Indian, non-H	0.4	0.3	1.33	0.7
Asian/PI, non-Hisp.	4.2	3.7	1.14	3.8
Hispanic	.	6.0	.	11.9
16-24	47.2	18.9	2.50	16.2
25-34	24.9	17.5	1.42	17.4
35-44	13.0	20.4	0.64	21.0
45-54	10.3	17.2	0.60	17.7
55-64	2.7	10.6	0.25	11.3
65+	2.0	15.5	0.13	16.4
<\$15,000	1.7	5.4	0.31	10.6
\$15,000-\$24,999	2.4	7.5	0.32	12.0
\$25,000-\$49,999	22.9	18.4	1.24	28.3
\$50,000-\$74,999	14.7	11.1	1.32	21.2
\$75,000-\$99,999	2.6	6.3	0.41	12.7
\$100,000+	14.6	8.0	1.83	15.2
Don't know	8.0	1.9	4.21	.
Refused	33.0	41.4	0.80	.
U.S. citizen	98.7	92.2	1.07	90.5
Foreign born	1.3	7.8	0.17	9.5
Non-metro resident	25.7	22.9	1.12	19.8
Metro area resident	74.3	77.1	0.96	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 33--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Rafting			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	51.7	46.3	1.12	48.2
Female	48.3	53.7	0.90	51.8
White, non-Hispanic	80.6	60.1	1.34	71.3
Black, non-Hispanic	9.2	29.9	0.31	12.2
Amer. Indian, non-Hispanic	0.1	0.3	0.33	0.7
Asian/PI, non-Hispanic	0.5	3.7	0.14	3.8
Hispanic	9.7	6.0	1.62	11.9
16-24	39.3	18.9	2.08	16.2
25-34	23.4	17.5	1.34	17.4
35-44	19.7	20.4	0.97	21.0
45-54	14.8	17.2	0.86	17.7
55-64	1.5	10.6	0.14	11.3
65+	1.4	15.5	0.09	16.4
<\$15,000	8.1	5.4	1.50	10.6
\$15,000-\$24,999	6.1	7.5	0.81	12.0
\$25,000-\$49,999	15.4	18.4	0.84	28.3
\$50,000-\$74,999	13.9	11.1	1.25	21.2
\$75,000-\$99,999	9.0	6.3	1.43	12.7
\$100,000+	10.5	8.0	1.31	15.2
Don't know	6.7	1.9	3.53	.
Refused	30.4	41.4	0.73	.
U.S. citizen	94.0	92.2	1.02	90.5
Foreign born	6.0	7.8	0.77	9.5
Non-metro resident	25.6	22.9	1.12	19.8
Metro area resident	74.4	77.1	0.96	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 34--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Swimming in Natural Water			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	49.3	46.3	1.06	48.2
Female	50.7	53.7	0.94	51.8
White, non-Hispanic	74.1	60.1	1.23	71.3
Black, non-Hispanic	18.7	29.9	0.63	12.2
Amer. Indian, non-Hispanic	0.3	0.3	1.00	0.7
Asian/PI, non-Hispanic	2.9	3.7	0.78	3.8
Hispanic	4.0	6.0	0.67	11.9
16-24	23.9	18.9	1.26	16.2
25-34	22.5	17.5	1.29	17.4
35-44	25.8	20.4	1.26	21.0
45-54	15.6	17.2	0.91	17.7
55-64	7.3	10.6	0.69	11.3
65+	5.0	15.5	0.32	16.4
<\$15,000	3.8	5.4	0.70	10.6
\$15,000-\$24,999	5.9	7.5	0.79	12.0
\$25,000-\$49,999	20.9	18.4	1.14	28.3
\$50,000-\$74,999	14.8	11.1	1.33	21.2
\$75,000-\$99,999	8.3	6.3	1.32	12.7
\$100,000+	11.2	8.0	1.40	15.2
Don't know	2.2	1.9	1.16	.
Refused	32.8	41.4	0.79	.
U.S. citizen	94.4	92.2	1.02	90.5
Foreign born	5.6	7.8	0.72	9.5
Non-metro resident	21.8	22.9	0.95	19.8
Metro area resident	78.2	77.1	1.01	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 35--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Visit a Beach			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	49.1	46.3	1.06	48.2
Female	50.9	53.7	0.95	51.8
White, non-Hispanic	62.4	60.1	1.04	71.3
Black, non-Hispanic	29.7	29.9	0.99	12.2
Amer. Indian, non-Hispanic	0.2	0.3	0.67	0.7
Asian/PI, non-Hispanic	4.5	3.7	1.22	3.8
Hispanic	3.2	6.0	0.53	11.9
16-24	24.4	18.9	1.29	16.2
25-34	21.0	17.5	1.20	17.4
35-44	23.4	20.4	1.15	21.0
45-54	16.6	17.2	0.97	17.7
55-64	8.1	10.6	0.76	11.3
65+	6.6	15.5	0.43	16.4
<\$15,000	3.1	5.4	0.57	10.6
\$15,000-\$24,999	5.4	7.5	0.72	12.0
\$25,000-\$49,999	19.9	18.4	1.08	28.3
\$50,000-\$74,999	14.7	11.1	1.32	21.2
\$75,000-\$99,999	8.4	6.3	1.33	12.7
\$100,000+	11.2	8.0	1.40	15.2
Don't know	2.3	1.9	1.21	.
Refused	35.1	41.4	0.85	.
U.S. citizen	92.7	92.2	1.01	90.5
Foreign born	7.3	7.8	0.94	9.5
Non-metro resident	15.1	22.9	0.66	19.8
Metro area resident	84.9	77.1	1.10	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 36--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	Visit Waterside Besides a Beach			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	47.8	46.3	1.03	48.2
Female	52.2	53.7	0.97	51.8
White, non-Hispanic	69.9	60.1	1.16	71.3
Black, non-Hispanic	24.0	29.9	0.80	12.2
Amer. Indian, non-H	0.3	0.3	1.00	0.7
Asian/PI, non-Hisp.	3.8	3.7	1.03	3.8
Hispanic	2.0	6.0	0.33	11.9
16-24	27.5	18.9	1.46	16.2
25-34	22.7	17.5	1.30	17.4
35-44	24.2	20.4	1.19	21.0
45-54	13.3	17.2	0.77	17.7
55-64	7.2	10.6	0.68	11.3
65+	5.1	15.5	0.33	16.4
<\$15,000	4.8	5.4	0.89	10.6
\$15,000-\$24,999	6.6	7.5	0.88	12.0
\$25,000-\$49,999	19.6	18.4	1.07	28.3
\$50,000-\$74,999	15.1	11.1	1.36	21.2
\$75,000-\$99,999	6.5	6.3	1.03	12.7
\$100,000+	11.1	8.0	1.39	15.2
Don't know	3.5	1.9	1.84	.
Refused	32.8	41.4	0.79	.
U.S. citizen	94.5	92.2	1.02	90.5
Foreign born	5.5	7.8	0.71	9.5
Non-metro resident	22.3	22.9	0.97	19.8
Metro area resident	77.7	77.1	1.01	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 37--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	View/photograph Birds		Ratio (1)/(2)	Percent of U. S. population
	% of participants in MARKET AREA	% of all respondents in MARKET AREA		
Male	41.1	46.3	0.89	48.2
Female	58.9	53.7	1.10	51.8
White, non-Hispanic	68.9	60.1	1.15	71.3
Black, non-Hispanic	21.9	29.9	0.73	12.2
Amer. Indian, non-H	0.3	0.3	1.00	0.7
Asian/PI, non-Hisp.	4.7	3.7	1.27	3.8
Hispanic	4.2	6.0	0.70	11.9
16-24	13.4	18.9	0.71	16.2
25-34	16.4	17.5	0.94	17.4
35-44	26.9	20.4	1.32	21.0
45-54	17.6	17.2	1.02	17.7
55-64	10.4	10.6	0.98	11.3
65+	15.4	15.5	0.99	16.4
<\$15,000	4.7	5.4	0.87	10.6
\$15,000-\$24,999	7.1	7.5	0.95	12.0
\$25,000-\$49,999	19.3	18.4	1.05	28.3
\$50,000-\$74,999	14.2	11.1	1.28	21.2
\$75,000-\$99,999	7.2	6.3	1.14	12.7
\$100,000+	9.8	8.0	1.23	15.2
Don't know	1.6	1.9	0.84	.
Refused	36.0	41.4	0.87	.
U. S. citizen	94.3	92.2	1.02	90.5
Foreign born	5.7	7.8	0.73	9.5
Non-metro resident	24.7	22.9	1.08	19.8
Metro area resident	75.3	77.1	0.98	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 38--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	View/photograph Fish			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	51.1	46.3	1.10	48.2
Female	48.9	53.7	0.91	51.8
White, non-Hispanic	59.0	60.1	0.98	71.3
Black, non-Hispanic	35.2	29.9	1.18	12.2
Amer. Indian, non-H	0.4	0.3	1.33	0.7
Asian/PI, non-Hisp.	3.0	3.7	0.81	3.8
Hispanic	2.4	6.0	0.40	11.9
16-24	19.6	18.9	1.04	16.2
25-34	20.0	17.5	1.14	17.4
35-44	26.7	20.4	1.31	21.0
45-54	17.9	17.2	1.04	17.7
55-64	7.3	10.6	0.69	11.3
65+	8.6	15.5	0.55	16.4
<\$15,000	3.7	5.4	0.69	10.6
\$15,000-\$24,999	7.6	7.5	1.01	12.0
\$25,000-\$49,999	15.8	18.4	0.86	28.3
\$50,000-\$74,999	13.9	11.1	1.25	21.2
\$75,000-\$99,999	7.6	6.3	1.21	12.7
\$100,000+	9.0	8.0	1.13	15.2
Don't know	1.2	1.9	0.63	.
Refused	41.3	41.4	1.00	.
U.S. citizen	97.0	92.2	1.05	90.5
Foreign born	3.0	7.8	0.38	9.5
Non-metro resident	23.2	22.9	1.01	19.8
Metro area resident	76.8	77.1	1.00	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 39--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	View/photograph Other Wildlife		Ratio (1)/(2)	Percent of U. S. population
	% of participants in MARKET AREA	% of all respondents in MARKET AREA		
Male	44.8	46.3	0.97	48.2
Female	55.2	53.7	1.03	51.8
White, non-Hispanic	72.5	60.1	1.21	71.3
Black, non-Hispanic	17.0	29.9	0.57	12.2
Amer. Indian, non-H	0.5	0.3	1.67	0.7
Asian/PI, non-Hisp.	4.5	3.7	1.22	3.8
Hispanic	5.4	6.0	0.90	11.9
16-24	17.8	18.9	0.94	16.2
25-34	17.3	17.5	0.99	17.4
35-44	25.0	20.4	1.23	21.0
45-54	19.1	17.2	1.11	17.7
55-64	9.9	10.6	0.93	11.3
65+	10.9	15.5	0.70	16.4
<\$15,000	5.4	5.4	1.00	10.6
\$15,000-\$24,999	7.3	7.5	0.97	12.0
\$25,000-\$49,999	18.6	18.4	1.01	28.3
\$50,000-\$74,999	14.3	11.1	1.29	21.2
\$75,000-\$99,999	6.8	6.3	1.08	12.7
\$100,000+	10.8	8.0	1.35	15.2
Don't know	1.5	1.9	0.79	.
Refused	35.3	41.4	0.85	.
U. S. citizen	93.1	92.2	1.01	90.5
Foreign born	6.9	7.8	0.88	9.5
Non-metro resident	26.1	22.9	1.14	19.8
Metro area resident	73.9	77.1	0.96	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 40--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	% of	% of all	Ratio (1)/(2)	Percent of U. S. population
	participants in MARKET AREA	respondents in MARKET AREA		
View/photograph Wildflowers-Trees-etc.				
Male	40.7	46.3	0.88	48.2
Female	59.3	53.7	1.10	51.8
White, non-Hispanic	68.4	60.1	1.14	71.3
Black, non-Hispanic	22.8	29.9	0.76	12.2
Amer. Indian, non-H	0.3	0.3	1.00	0.7
Asian/PI, non-Hisp.	3.6	3.7	0.97	3.8
Hispanic	4.8	6.0	0.80	11.9
16-24	17.7	18.9	0.94	16.2
25-34	17.3	17.5	0.99	17.4
35-44	24.9	20.4	1.22	21.0
45-54	16.5	17.2	0.96	17.7
55-64	9.7	10.6	0.92	11.3
65+	13.9	15.5	0.90	16.4
<\$15,000	4.5	5.4	0.83	10.6
\$15,000-\$24,999	7.0	7.5	0.93	12.0
\$25,000-\$49,999	17.7	18.4	0.96	28.3
\$50,000-\$74,999	13.9	11.1	1.25	21.2
\$75,000-\$99,999	8.2	6.3	1.30	12.7
\$100,000+	9.7	8.0	1.21	15.2
Don't know	1.7	1.9	0.89	.
Refused	37.1	41.4	0.90	.
U. S. citizen	93.9	92.2	1.02	90.5
Foreign born	6.1	7.8	0.78	9.5
Non-metro resident	23.4	22.9	1.02	19.8
Metro area resident	76.6	77.1	0.99	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

## III: RECREATION DEMAND IN THE NATIONAL FOREST MARKET AREA

## GEORGE WASHINGTON NATIONAL FOREST

Table 41--Comparison of demographic composition of activity participants to all NSRE 2000-2001 respondents

Demographic group	View/photograph Natural Scenery			
	% of participants in MARKET AREA	% of all respondents in MARKET AREA	Ratio (1)/(2)	Percent of U.S. population
Male	44.0	46.3	0.95	48.2
Female	56.0	53.7	1.04	51.8
White, non-Hispanic	68.2	60.1	1.13	71.3
Black, non-Hispanic	22.7	29.9	0.76	12.2
Amer. Indian, non-Hispanic	0.2	0.3	0.67	0.7
Asian/PI, non-Hispanic	3.8	3.7	1.03	3.8
Hispanic	5.1	6.0	0.85	11.9
16-24	18.8	18.9	0.99	16.2
25-34	17.7	17.5	1.01	17.4
35-44	24.2	20.4	1.19	21.0
45-54	17.1	17.2	0.99	17.7
55-64	10.3	10.6	0.97	11.3
65+	11.9	15.5	0.77	16.4
<\$15,000	4.3	5.4	0.80	10.6
\$15,000-\$24,999	8.3	7.5	1.11	12.0
\$25,000-\$49,999	19.0	18.4	1.03	28.3
\$50,000-\$74,999	13.7	11.1	1.23	21.2
\$75,000-\$99,999	7.9	6.3	1.25	12.7
\$100,000+	8.9	8.0	1.11	15.2
Don't know	0.8	1.9	0.42	.
Refused	37.0	41.4	0.89	.
U.S. citizen	94.2	92.2	1.02	90.5
Foreign born	5.8	7.8	0.74	9.5
Non-metro resident	22.5	22.9	0.98	19.8
Metro area resident	77.5	77.1	1.01	80.2

Source: NSRE 2000-2001

Column percents sum to 100 within each demographic group. A ratio larger than 1.0 indicates that the proportion of people in a given demographic strata is larger for participants than it is for the population in general (i.e., the full Market Area sample). Percentages for the U.S. population are also shown for comparison.

# Appendix IV

## IV: LOCAL OUTDOOR RECREATION SUPPLIERS

Table 1--Amount of selected recreation resource acreages or facility counts in Market Area and Region 8

## GEORGE WASHINGTON NATIONAL FOREST

Recreation Resource	Amount of resource in MARKET AREA	Amount per million pop., MARKET AREA	Amount of resource in REGION 8	Amount per million pop., REGION-8
NPS gross acres	433,173	46,122.6	5,411,892	60,809.1
COE Project total land and water acres	258,482	27,522.1	5,633,764	63,302.1
FWS refuge acres open for recreation	7,849	835.7	3,594,475	40,388.3
TVA recreation area acres	0	0.0	25,267	283.9
TVA undeveloped acres	0	0.0	414,876	4,661.6
Wild & Scenic River miles: Total 1992	17	1.8	446	5.0
NRI Total river miles, outstanding value	3,478	370.3	23,226	261.0
State Park acres	358,566	38,178.7	1,571,214	17,654.5
WOODALLS # public campgrounds	27	2.9	310	3.5
WOODALLS # public campground sites	2,466	262.6	25,853	290.5
WOODALLS # private campgrounds	126	13.4	1,852	20.8
WOODALLS # private campground sites	13,346	1,421.0	222,054	2,495.0
NRI acres private forest land	18,988,300	54.3	173,078,600	32.4
NPLOS acres leased to inds. or groups	1,111,913	118,392.1	33,906,753	380,983.3
NPLOS acres open to general public	2,193,280	233,531.8	30,262,101	340,031.3
ABI # hunting & fishing preserves	16	1.7	192	2.2
ABI # fish camps	0	0.0	202	2.3
ABI # organized camps	244	26.0	1,722	19.3
ABI # private fishing lakes	1	0.1	24	0.3
ABI # boat rental firms	54	5.7	2,054	23.1
ABI # canoe trip outfitters	1	0.1	19	0.2
ABI # canoe rental firms	12	1.3	73	0.8
ABI # public fishing lakes	5	0.5	95	1.1
ABI # guides services	21	2.2	361	4.1
ABI # sightseeing tours	72	7.7	603	6.8
ABI # fishing lakes and ponds	1	0.1	76	0.9
ABI # raft trip firms	11	1.2	29	0.3

NRI acres private land forest is percent of total area, NOT number per million pop.

Source: USDA-FS: National Outdoor Recreation Supply Information System, 1997.

## IV: LOCAL OUTDOOR RECREATION SUPPLIERS

Table 2--Description of recreation resource abbreviations

## Resource

NPS = U. S. Department of the Interior, National Park Service

COE = U. S. Army Corps of Engineers

FWS = U. S. Department of the Interior, Fish and Wildlife Service

TVA = Tennessee Valley Authority

NRI (total river miles) = 1993 Nationwide Rivers Inventory administered by the National Park Service.

WOODALLS = Woodall Publications. Ventura, CA. Publisher of "Woodall's Campground Directory". 1996.

NRI (private forest land) = 1992 National Resources Inventory, USDA-Natural Resources Conservation Serv.

NPLoS = 1995 National Private Land Owners Survey. USDA Forest Service. Southern Research Station.

ABI = American Business Information, Inc. Omaha, NE. Database of yellow-page telephone directories.