

# National Park Visitor Spending and Payroll Impacts 2008

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## **Executive Summary.**

*The National Park System received 274.9 million recreation visits in 2008. Park visitors spent \$11.56 billion in local gateway regions (within roughly 50 miles of the park). Visitors staying outside the park in motels, hotels, cabins, and B&B's accounted for 55% of the total spending. Over half of the spending was for lodging and meals, 17% for gas and local transportation, 9% for groceries, and 14% for souvenirs. Local economic impacts are estimated after excluding spending by visitors from the local area (9.8% of the total). Combining local impacts across all parks yields a total impact, including direct and secondary effects, of 205,000 jobs, \$4.4 billion in labor income, and \$6.9 billion value added. The four economic sectors most directly affected by visitor spending are lodging, restaurants, retail trade, and amusements. Visitor spending supports over 50,000 jobs in each of the hotel and restaurant sectors, and over 23,000 jobs each in the retail trade and the amusements sectors.*

*Parks also impact the local region through the NPS payroll. In FY 2008 the National Park Service employed 24,954 people<sup>1</sup> with a total payroll of \$1,203 million in wages and salaries and \$313 million in payroll benefits. Including the induced effects of the spending of NPS wages and salaries in the local region, the total local economic impact of park payrolls are \$1.86 billion in labor income, \$2.11 billion in value added, and 36,816 jobs (including NPS jobs). The combined impact of visitor spending and park payrolls, including secondary effects, are \$6.3 billion in labor income, \$9.0 billion in value added, and 241,442 local jobs. Visitor spending accounts for 85% of the total jobs and 77% of the total value added*

## **Introduction**

This report provides updated estimates of NPS visitor spending for 2008 and estimates the economic impacts of visitor spending and the NPS payroll on local economies. Visitor spending and impacts are estimated using the MGM2 model (Stynes et. al., 2000) based on calendar year 2008 park visits, spending averages from park visitor surveys, and local area economic multipliers. Impacts of the NPS payroll are estimated based on fiscal year 2008 payroll data for each park.

Visitor spending impacts are estimated for all park units with visitation data. Payroll impacts are estimated for all parks, including administrative units and parks without visit count data. Impacts measure the direct and secondary effects of visitor spending and park payrolls on local economies in terms of jobs, income, and value added<sup>2</sup>. Impacts of construction activity and park purchases of

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<sup>1</sup> The number of employees is estimated as an annual average for each park, so that seasonal positions are converted to annual equivalents. However, the job estimates include both full-time and part-time positions.

<sup>2</sup> Jobs include full-time and part-time jobs. Seasonal positions are adjusted to an annual basis. Labor income covers wages and salaries, including income of sole proprietors and payroll benefits. Value added is the sum of labor income, profits and rents, and indirect business taxes. It can also be defined as total sales net of the costs of all non-labor inputs. Value added is the preferred economic measure of the contribution of an industry or activity to the economy.

goods and services from local firms are not included. Local regions are defined as a 50-mile radius<sup>3</sup> around each park.

Direct effects cover businesses selling goods and services directly to park visitors. Secondary effects include indirect effects resulting from sales to backward-linked industries within the local region and induced effects from household spending of income earned directly or indirectly from visitor spending. Sales in retail and wholesale trade sectors represent the margins accruing to local firms on goods sold to park visitors.

Systemwide totals are estimated by summing the spending and impact estimates for all park units. Results for individual park units are reported in the Appendix.

### **Recreation Visits**

The National Park System received 274.9 million recreation visits in 2008. Visitor spending was estimated by dividing visitors to each park into segments with distinct spending patterns and applying spending averages based on surveys of park visitors at selected parks. As spending averages are measured on a party-day basis (party nights for overnight trips), the NPS counts of recreation visits are converted from person entries to a park to party days in the area by applying average party size, length of stay, and park re-entry factors. This adjusts for some double counting of visits. To the extent possible, spending not directly related to a park visit is excluded<sup>4</sup>.

Twenty-nine percent of park visits were day trips by local residents, 41% were day trips from 50 miles or more<sup>5</sup>, and 30% involved an overnight stay near the park. Visitor spending depends on the number of days spent in the local area and also the type of lodging on overnight trips. Non-local day trips account for 35% of the party days spent in the local area, local day trips 29%, and overnight stays 36%. In 2008, there were 13.659 million recreation overnight stays in the parks representing 3.4% of all visits. Two-thirds of all overnight stays by park visitors are in motels, lodges or B&B's outside the park, another 19% are in campgrounds outside the park, and 12% are inside the park in NPS campgrounds, lodges, or backcountry sites.

### **Visitor Spending**

Visitor spending averages cover expenses within the local region, excluding park entrance fees. Spending averages for each segment are derived from park visitor surveys at selected parks over the past seven years. Price indices are applied to adjust all spending to 2008 dollars.

NPS Systemwide spending averages for 2008 are given in Table 1 for seven distinct visitor segments. A typical park visitor party on a day trip spends \$41 if a local resident and \$75 if non-local (Table 1).

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<sup>3</sup> The 50-mile radius is a general average representing the primary impact region around most parks. The radius is closer to 30 miles for parks in urban settings and as large as 100 miles for some western parks. Economic multipliers are based on regions defined as groupings of counties to approximate a 50-mile radius of the park.

<sup>4</sup> For example, spending during extended stays in an area visiting relatives, on business, or when the park visit was not the primary trip purpose. For most historic sites and parks in urban areas, spending for one day or night is counted for each park entry. Where several park units are within a 50-mile radius, adjustments are made for those visiting more than one park on the same day.

<sup>5</sup> Day trips include pass-through visitors not spending a night within 50 miles of the park, as well as stays with friends and relatives and in owned seasonal homes.

Spending Category	Visitor Segment						
	Local Day Trip	Non-local Day Trip	NPS Lodge	NPS Camp-ground	Back-country	Motel-Outside Park	Camp-Outside Park
Motel, hotel, B&B	0.00	0.00	164.69	0.00	7.12	113.29	0.00
Camping fees	0.00	0.00	0.00	20.12	3.17	0.00	23.36
Restaurants & bars	12.71	20.88	73.78	13.29	9.46	57.41	14.05
Amusements/entert.	4.09	8.81	23.38	7.69	5.06	17.88	12.53
Groceries	6.30	7.76	12.66	17.12	6.72	13.33	12.96
Gas & oil	8.94	22.05	29.54	24.70	18.44	21.25	23.19
Local transportation	0.52	1.28	4.28	1.30	0.69	3.08	1.22
<u>Souvenirs</u>	<u>8.30</u>	<u>14.35</u>	<u>31.66</u>	<u>11.68</u>	<u>13.73</u>	<u>25.47</u>	<u>17.26</u>
<b>Total</b>	<b>40.86</b>	<b>75.14</b>	<b>340.00</b>	<b>95.91</b>	<b>64.38</b>	<b>251.71</b>	<b>104.57</b>

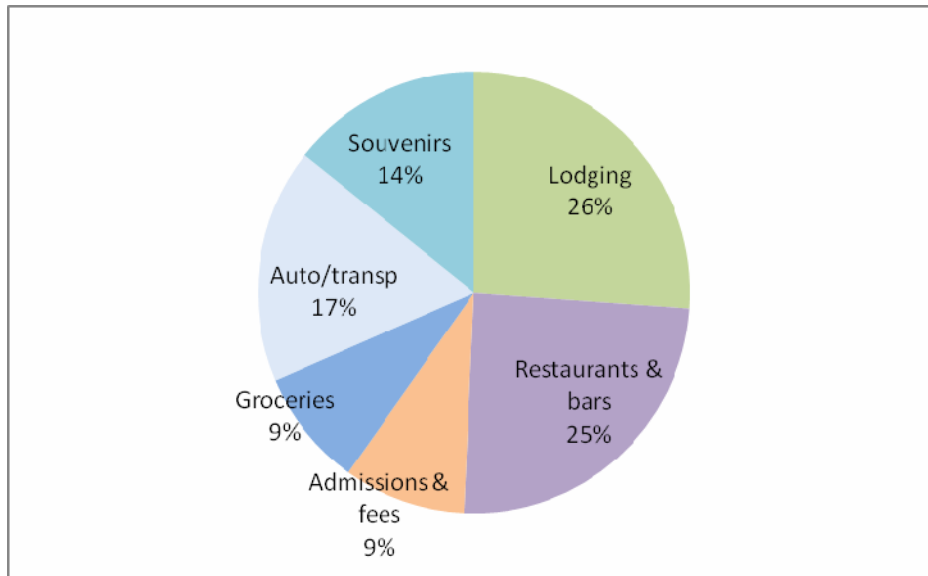
On a party-night basis, spending by visitors on overnight trips varies from \$64 for backcountry campers to \$340 for visitors staying in park lodges. Campers spend \$105 per night if staying outside the park and \$96 if staying inside the park. Spending averages at individual parks vary from these Systemwide averages due to differences in local prices and spending opportunities. For example, while non-local visitors on day trips spent \$28 per party at John Day Fossil Beds NM, their counterparts at Grand Canyon spent \$147.

In total, park visitors spent \$11.56 billion in the local region surrounding the parks in 2008<sup>6</sup>. Local residents account for 9.8% of this spending (Table 2). Visitors staying in motels and lodges outside the park account for 55% of the total spending, while non-local visitors on day trips contribute 21% of all spending.

Lodging and restaurant/bar expenses each account for about a quarter of the spending. Transportation expenses (mainly auto fuel) account for 17%, souvenirs 14%, groceries 9%, and recreation and entertainment admissions 9% (Figure 1).

<sup>6</sup> Spending figures exclude airfares and other trip spending beyond 50 miles of the park. Purchases of durable goods (boats, RV's) and major equipment are also excluded. Special expenses for commercial rafting trips, air tour flights, and other special activities are not fully captured for all parks.

<b>Table 2. National Park Visitor Spending by Segment, 2008.</b>		
<b>Segment</b>	<b>Total Spending \$Millions</b>	<b>Pct of Spending</b>
Local day trip	1,135	9.8%
Non-local day trip	2,466	21.3%
Lodge/cabin-In park	430	3.7%
Camp-In park	256	2.2%
Backcountry campers	35	0.3%
Motel-Outside park	6,310	54.6%
Camp-Outside park	794	6.9%
Other overnight visitors	136	1.2%
<b>Total</b>	<b>11,563</b>	<b>100.0%</b>



**Figure 1. Distribution of National Park Visitor Spending**

## Impacts of Visitor Spending

Economic impacts of visitor spending are estimated in the MGM2 model using multipliers for local areas around each park<sup>7</sup>. Multipliers capture both the direct and secondary economic effects in gateway communities around the parks in terms of jobs, personal income, and value added. National totals are the sum of the local impacts for 356 park units that have counts of visitors.

Both economic significance and economic impacts were estimated. The economic significance estimates in Table 3 measure the impacts of all visitor spending (\$11.56 billion), including that of local visitors. Economic impacts in Table 4 exclude spending by local residents on day trips, estimating the impacts of the \$10.43 billion spent by visitors who do not reside within the local region or by local residents staying overnight inside the park.

Economic impact measures attempt to estimate the likely losses in economic activity to the region in the absence of the park. Should the park opportunities not be available, it is assumed that local residents on day trips would spend the money on other local activities, while visitors from outside the region would not have made a trip to the region<sup>8</sup>. Some local residents are included in the overnight visitor segments, and their spending is included in the impact analyses. All local residents' spending is included in the economic significance measures, as these capture all economic activity associated with park visits, including local and non-local visitors.

### Economic Significance

The \$11.56 billion spent by park visitors within 50 miles of the park (Table 2) has a total economic effect (significance) of \$14.1 billion in sales, \$4.9 billion in labor income, and \$7.6 billion in value added. Visitor spending supports about 227,000 jobs in gateway regions. Total effects may be divided between the direct effects that occur in businesses selling goods and services directly to park visitors and secondary effects that result from the circulation of this money within the local economy<sup>9</sup>.

Direct effects are \$9.4 billion in sales, \$3.6 billion in labor income, \$5.3 billion in value added and 183,000 jobs. The local region captures 81% of all visitor spending as direct sales. Note that direct sales of \$9.4 billion is less than the \$11.56 billion in visitor spending, as the manufacturing share of retail purchases (groceries, gas, sporting goods, souvenirs) is not included. It is assumed that most of the producer price of retail purchases immediately leaks out of the region to cover the cost of goods sold. Sales figures for retail and wholesale trade are the margins on retail purchases.

The average sales multiplier across all local park regions is 1.50, which means for every dollar of direct sales another \$ .50 in sales is generated in the region through secondary effects.

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<sup>7</sup> For parks conducting visitor spending surveys since 2001, sector-specific multipliers are estimated for the surrounding region using the IMPLAN input-output modeling system. For other parks, one of four sets of the MGM2 generic multipliers are used based on the population of the local region. MGM2 multipliers are based on IMPLAN's Type II multipliers. IMPLAN job-to-sales ratios are adjusted to 2008.

<sup>8</sup> To the extent possible, spending not directly associated with a park visit is also excluded. For example, only one night's expenses are counted for visitors in the area primarily on business, visiting relatives, or visiting other attractions. For parks with visitor surveys, spending attributed to a park visit was estimated based on the percentage of visitors identifying the park visit as the primary purpose of the trip.

<sup>9</sup> Secondary effects include indirect effects of businesses buying goods and services from backward-linked local firms and induced effects of household spending of their earnings.

<b>Table 3. Economic Significance of National Park Visitor Spending to Local Economies, 2008.</b>				
<b>Sector/Spending Category</b>	<b>Sales \$Millions</b>	<b>Jobs</b>	<b>Labor Income \$Millions</b>	<b>Value Added \$Millions</b>
<b>Direct Effects</b>				
Motel, hotel, cabin, or B&B	2,994	51,493	1,257	2,088
Camping fees	256	2,930	31	74
Restaurants & bars	3,063	64,626	1,153	1,332
Amusements & entertain.	1,133	26,235	398	684
Other vehicle expenses	131	1,473	24	57
Local transportation	38	911	18	20
Grocery stores	271	5,294	105	144
Gas stations	440	5,616	163	218
Other retail	842	16,328	378	541
<u>Wholesale trade</u>	<u>222</u>	<u>8,572</u>	<u>104</u>	<u>119</u>
<b>Total Direct Effects</b>	<b>9,390</b>	<b>183,478</b>	<b>3,631</b>	<b>5,278</b>
<u>Secondary Effects</u>	<u>4,700</u>	<u>43,255</u>	<u>1,298</u>	<u>2,376</u>
<b>Total Effects</b>	<b>14,090</b>	<b>226,732</b>	<b>4,930</b>	<b>7,654</b>

Notes : Economic significance covers all \$11.56 billion in spending of park visitors in the local region, including that of local visitors. Jobs include full-time and part-time jobs, with seasonal positions adjusted to an annual basis. Labor income covers wages and salaries, including income of sole proprietors and payroll benefits. Value added is the sum of labor income, profits and rents, and indirect business taxes. Columns may not sum to totals due to rounding.

### Economic Impacts

Excluding \$1.13 billion dollars spent by local residents on day trips to the park reduces the total spending to \$10.43 billion (Table 2) for the impact analysis. Local day trips represent about 29% of all visits, but less than 10% of all visitor spending. The total effects of visitor spending, excluding local day trips, is \$12.7 billion in sales, \$4.4 billion in labor income, \$6.9 billion in value added, and 205,000 jobs. The four economic sectors most directly affected are lodging, restaurants, retail trade, and amusements. Visitor spending supports over 50,000 jobs in each of the hotel and restaurant sectors, and over 23,000 jobs each in the retail trade and the amusements sectors.



<b>Table 4. Economic Impacts of National Park Visitor Spending on Local Economies, 2008.</b>				
<b>Sector/Spending Category</b>	<b>Sales \$Millions</b>	<b>Jobs</b>	<b>Labor Income \$Millions</b>	<b>Value Added \$Millions</b>
<b>Direct Effects</b>				
Motel, hotel, cabin, or B&B	2,994	51,493	1,257	2,088
Camping fees	256	2,930	31	74
Restaurants & bars	2,612	55,863	981	1,115
Amusements & entertain.	985	23,099	345	583
Other vehicle expenses	112	1,280	21	48
Local transportation	37	899	17	19
Grocery stores	217	4,306	84	114
Gas stations	371	4,791	137	180
Other retail	705	13,834	316	445
Wholesale trade	184	7,233	86	97
<b>Total Direct Effects</b>	<b>8,474</b>	<b>165,728</b>	<b>3,276</b>	<b>4,764</b>
<u>Secondary Effects</u>	<u>4,210</u>	<u>38,897</u>	<u>1,165</u>	<u>2,132</u>
<b>Total Effects</b>	<b>12,684</b>	<b>204,626</b>	<b>4,441</b>	<b>6,895</b>

Note: Economic impacts cover the \$10.43 billion spent by non-local visitors. Columns may not sum to totals due to rounding.

### Impacts of NPS payrolls

National park units also impact local economies through their own spending, especially NPS payrolls. Payroll impacts were estimated for fiscal year (FY) 2008. In FY 2008, the NPS employed 24,954 people<sup>10</sup>, with a total payroll of \$1,203 million in wages and salaries and \$313 million in payroll benefits (Table 5). Including the induced effects of the spending of NPS wages and salaries in the local region, the total local economic impacts of park payrolls are \$1.86 billion in labor income, \$2.11 billion in value added, and 36,816 jobs (including NPS jobs).

<b>Table 5. NPS Payroll Impacts on Local Economies, 2008.</b>			
	<b>Salary &amp; Benefits (\$Millions)</b>	<b>Value Added (\$Millions)</b>	<b>Jobs</b>
NPS payroll	1,517	1,517	24,954
<u>Induced effects</u>	<u>344</u>	<u>344</u>	<u>11,862</u>
<b>Total Local Impacts</b>	<b>1,861</b>	<b>2,107</b>	<b>36,816</b>

Impacts of park payrolls for each park unit were estimated by applying economic multipliers to wage and salary data to capture the induced effects of NPS employee spending on local

<sup>10</sup> The number of employees is estimated as an annual average for each park, so that seasonal positions are converted to annual equivalents. However, the job estimates include both full-time and part-time positions.

economies. As with the MGM2 model, distinct multipliers were used for parks in rural areas, parks in or near small cities, and parks in larger metropolitan regions<sup>11</sup>. The overall employment multiplier for NPS jobs is 1.5. For every two NPS jobs, another job is supported through the induced effects of employee spending in the local region. There are additional local economic effects from NPS purchases of goods and services from local suppliers and from construction activity. These impacts were not estimated.

The visitor spending and payroll impacts may be combined, as park admission fees and most other visitor spending accruing to the National Park Service were omitted from the visitor spending figures to avoid double counting<sup>12</sup>. Using the visitor spending impact estimates from Table 4, which exclude spending of local visitors, the combined total impacts, including secondary effects are \$6.3 billion in labor income, \$9.0 billion in value added, and 241,442 local jobs. Visitor spending accounts for 85% of the total jobs and 77% of the total value added (Table 6).

**Table 6. Combined Impacts - Visitor Spending and NPS Payroll.**

Impact Measure	Visitor Spending Impacts <sup>a</sup>	NPS Payroll Impacts	Combined Impacts	Visitor Spending Share
<b>Direct Effects</b>				
Labor income (\$Millions)	\$3,276	\$1,517	\$4,793	68%
Value added (\$Millions)	\$4,764	\$1,517	\$6,281	76%
Jobs	165,728	24,954	190,682	87%
<b>Total Effects</b>				
Labor income (\$Millions)	\$4,441	\$1,861	\$6,302	70%
Value added (\$Millions)	\$6,895	\$2,107	\$9,002	77%
Jobs	204,626	36,816	241,442	85%

a. Excludes spending by local visitors

### State-by-State Impact Estimates

Economic impacts of individual parks can be aggregated to the state level with a few complications. While most parks fall within a single state, there are 20 park units with facilities in more than one state. For these parks, shares of visits were assigned to each state based on percentages provided by the NPS Public Use Statistics Office. It was assumed that spending and economic impacts are proportional to where recreation visits are assigned.

Estimates of recreation visits, spending, and local economic impacts for each state and U.S. territory are given in Table A-5 in the Appendix. States receiving the greatest economic effects from NPS visitor and payroll spending are Washington D.C., California, Arizona, North Carolina, Virginia, and Utah. Regional totals are given in Table A-6.

<sup>11</sup> Multipliers for household spending were estimated in IMPLAN using the spending patterns of households with incomes of \$50,000-\$75,000.

<sup>12</sup> There will be some double counting of camping fees, as payments to concessionaires could not be fully sorted out from payments to the NPS.

It should be noted that the state and regional totals represent an accumulation of local impacts within roughly 50 miles of each park. The total economic effects on each state or region would be much larger if we estimated all spending of NPS visitors that takes place within each state and used statewide multipliers instead of local ones to capture the secondary effects. As noted earlier, impacts reported here do not include long-distance travel, airfares, or purchases made at home for items that may be used on trips to national parks.

### **Trends 2003-2008**

Recent trends in national park visits, spending, and impacts are summarized in Table 7. Spending and economic impacts follow the trends in recreation visits. Recreation visits declined slightly in 2008, while average spending increased by 2.7%. Party days/nights declined by 4% due to some adjustments in average party sizes and lengths of stay. Total spending decreased by about 2%. For consistency with prior years, spending and impact figures in this table include local visitors. Impacts excluding local visitors are about 10% lower than when local visitors are included.

### **Methods**

Spending and impacts were estimated using the Money Generation Model version 2 (MGM2). NPS public use statistics for calendar year 2008 provide estimates of the number of recreation visits and overnight stays at each park. For each park, recreation visits were allocated to the seven MGM2 segments<sup>13</sup>, converted to party days/nights spent in the local area, and then multiplied by per-day spending averages for each segment. Spending and impact estimates for 2008 are made individually for each park unit and then summed to obtain Systemwide totals. The system totals are therefore a sum of local impacts at each park, not an overall estimate of the impacts on the national economy<sup>14</sup>.

Spending averages cover all trip expenses within roughly 50 miles of the park. They therefore exclude most en route expenses on longer trips, as well as airfares, and purchases made at home in preparation for the trip, including costs of durable goods and equipment. Spending averages vary from park to park based on the type of park and the regional setting (low, medium, or high spending area).

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<sup>13</sup> Visits are classified as local day trips, non-local day trips, and overnight trips staying in campgrounds or hotels, lodges, cabins, and B&B's. For parks with lodging facilities within the park, visitors staying in park lodges, campgrounds, or backcountry sites are distinguished from those staying outside the park in motels or non-NPS campgrounds. Visitors staying with friends or relatives, in owned seasonal homes, or passing through without a local overnight stay are generally treated as day trips.

<sup>14</sup> Applying park visitor spending to a national model/set of multipliers would capture 98% of visitor spending as direct sales (instead of the 80% that accrues to firms in the local regions around each park) and would also yield significantly larger secondary effects. National sales multipliers for tourism spending are about 2.5, while the average sales multiplier for local regions around parks is only 1.5.

	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
Recreation visits (millions)	276.9	272.6 <sup>e</sup>	272.3 <sup>e</sup>	275.2 <sup>e</sup>	274.9 <sup>e</sup>
Party days/nights (millions) <sup>b</sup>	107.3	105.6	103.4	103.9	99.7
Spending per party day	\$96	\$99	\$104	\$113	\$116
Total spending (\$Millions)	\$10,281	\$10,423	\$10,727	\$11,786	\$11,563
<b>Direct Effects</b>					
Direct <sup>c</sup> sales (\$Millions)	\$8,407	\$8,387	\$8,679	\$9,577	\$9,390
Direct jobs	193,478	186,807	173,292	188,018	183,478
Direct income (\$Millions)	\$2,973	\$2,992	\$3,348	\$3,709	\$3,631
Direct value added (\$Millions)	\$4,506	\$4,535	\$4,857	\$5,388	\$5,278
<b>Total Local Effects<sup>d</sup></b>					
Total sales (\$Millions)	\$12,206	\$12,238	\$13,013	\$14,383	\$14,090
Total jobs	243,398	234,803	212,807	232,242	226,732
Total income (\$Millions)	\$4,349	\$4,381	\$4,516	\$5,031	\$4,930
Total value added (\$ Millions)	\$6,884	\$6,943	\$7,006	\$7,808	\$7,654

Note: All dollar figures are actual dollars, not adjusted for inflation.

a. Spending and impact figures include visitors from the local area.

b. Adjusts visits for park re-entries, party sizes, and length of stay in the region. Party nights are measured in days for day trips and nights for overnight trips. To the extent possible, only nights in the local area directly related to the park visit are counted. Average party sizes range from 2.0 - 3.0 across parks and visitor segments. Systemwide the average party size is 2.6.

c. Direct effects accrue to tourism-related businesses selling goods and services directly to park visitors. Jobs include full-time and part-time jobs. Seasonal jobs are adjusted to an annual basis. Income is personal income, including wages and salaries, income of sole proprietors, and payroll benefits. Value added includes all personal income, rents and profits, and indirect business taxes.

d. Total local effects include direct, indirect, and induced effects in the local regions around NPS units

e. Beginning in 2005, visits to Kings Canyon and Sequoia national parks were combined for the economic analysis, and the combined visits for the two units were reduced to account for some double counting (Stynes and Sun 2003). Visit figures for these years are therefore slightly lower than those in the *NPS Statistical Abstract*.

The segment mix is very important in estimating visitor spending, as spending varies considerably across the MGM2 segments. Segment shares are estimated based on park overnight stay data and, where available, park visitor surveys. For park units that lack recent visitor surveys, estimates are made by generalizing from studies at similar parks or based on manager or researcher judgment.

For parks with Visitor Services Project (VSP) studies over the past seven years, spending averages are estimated from the survey data at each park<sup>15</sup>. Averages estimated in the surveys were price-adjusted to 2008 using Bureau of Labor Statistics price indices for each spending category. Sampling errors for the spending averages in VSP studies are generally 5-10% overall, and can be as high as 20% for individual visitor segments.

<sup>15</sup> Detailed impact reports for parks that have included economic questions in their VSP studies are available at the MGM2 (<http://web4.canr.msu.edu/mgm2/>) or NPS social science websites (<http://www.nature.nps.gov/socialscience/products.cfm#MGM2Reports>).

The observed spending patterns in park visitor studies are then used to estimate spending averages for other parks that lack visitor spending surveys. This procedure will not capture some spending variations attributable to unique characteristics of a given park or gateway region, such as the wider use of public transportation at Alaska parks or extra expenses for special commercial attractions in or around some parks, including rafting trips, flightseeing, and other tours. When visitor studies are conducted at individual parks, these unique situations are taken into account. For example, river runners were treated as a distinct segment at Grand Canyon (Stynes and Sun 2005).

Multipliers for local regions around national parks were applied to the spending totals to translate spending into jobs, income, and value added and also to estimate secondary effects. All MGM2 multipliers were re-estimated in 2006 using 2001 IMPLAN data based on the North American Industrial Classification System (NAICS).

For most parks, we use generic multipliers built into the MGM2 model (Stynes, Propst, et al. 2000)<sup>16</sup>. The appropriate generic multipliers for each park are selected based on the population of the surrounding region. Generic multipliers were estimated as averages across over 100 distinct IMPLAN models for each type of region. The maximum observed absolute deviations between the IMPLAN multipliers for individual regions and the corresponding generic multiplier for that region are generally 10% or less. On average, the differences are less than 5% (Chang 2001). The larger deviations, typically in job-to-sales ratios, can be due to errors in the underlying IMPLAN data. In this respect, the generic multipliers average out some errors in IMPLAN data for individual regions.

The generic approach to multipliers works well for tourism-related applications because the vast majority of visitor spending accrues to service industries. These sectors are quite labor intensive, and the other inputs to production are primarily utilities and services that tend to exist in an area in direct proportion to population size. Hence, secondary effects are predicted fairly well based on the local population size.

Note that the IMPLAN estimates of the ratios of income and value added to sales for each sector are essentially constant across regions since IMPLAN uses a national average production function for each sector. Only the IMPLAN estimates of job-to-sales ratios and secondary effects vary significantly between regions, and these variations are captured quite well for service and retail sectors by the population of the region.

With the exception of parks with new visitor surveys in 2007<sup>17</sup>, no changes were made in party sizes, lengths of stay, or re-entry factors between 2006 and 2008. Local economic ratios and multipliers were also assumed constant, except for job-to-sales ratios, which were adjusted to 2008

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<sup>16</sup> For some parks we have used custom IMPLAN models estimated for the county or counties around the park to derive the multipliers. In all of these cases, the impact results with the custom multipliers were not significantly different than with the appropriate generics.

<sup>17</sup> New VSP surveys that included spending questions were conducted in 2007 at Agate Fossil Beds NM, Big Cypress National Preserve, Fort Union Trading Post NHS, Glen Canyon NRA, and Lava Beds NM. Estimates for Yosemite NP were updated based on the 2008 winter VSP survey. Estimates for Alaska parks were updated in 2007 based in part on the 2006 Katmai NP survey. Alaska state multipliers are used for all Alaska parks.

based on price changes. MGM2 model parameters for individual parks are adjusted over time as new park visitor studies are conducted or other relevant information becomes available.

Impacts of park payrolls were estimated for each park by applying local area multipliers to NPS wage and salary figures for FY 2008. Multipliers capture the induced effects of park employee spending by re-circulating their income as household spending within the local economy. Payroll benefits were not re-circulated in estimating secondary effects of park employee spending, but the direct payroll benefits are included in total value added. Four sets of household spending multipliers were estimated to capture variations in impacts across regions based on population size<sup>18</sup>. Local impacts of park purchases of supplies and services or construction activities were not included in the analysis.

The number of employees for each park was estimated by totaling the number of distinct social security numbers in each pay period and dividing by the number of pay periods. The figure is therefore an annual average. Four seasonal jobs for three months counts as one job. No distinction is made between part-time and full-time employees. Jobs, salary, and payroll benefits are assigned to the park where the employee's time was charged, which may differ from his or her duty station.

Spending and impact totals for states were developed from the 2008 estimates by simply summing the results for all units in a given state using the mailing address for the park to identify the state. Twenty parks have facilities in more than one state. For these parks, visitors and spending were allocated to individual states based on shares used by the NPS Public Use Statistics Office for allocating visits to states. For example, visits to Great Smoky Mountains NP were split 44% to North Carolina and 56% to Tennessee. It should be noted that these allocations may not fully account for where the spending and impacts occur. There are also many other parks with facilities in a single state, but located within 50 miles of a state border. A portion of the spending and impacts for these parks may accrue to nearby states. For example, the local region for Saint-Gaudens NHS includes counties in both Vermont and New Hampshire (Stynes, 2008a), but all impacts in this report are assigned to New Hampshire, since the visitor surveys do not identify exactly where spending may have occurred within the local region.

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<sup>18</sup> IMPLAN's spending patterns for households averaging \$50,000- \$75,000 were used to estimate the multipliers.

## **Errors and Limitations**

The accuracy of the spending and impact estimates rests largely on the input data, namely (1) public use recreation visit and overnight stay data; (2) party size, length of stay, and park re-entry conversion factors; (3) visitor segment shares; (4) spending averages; and (5) local area multipliers.

Public use data provide reasonably accurate estimates of visitor entries for most parks. Some visitors may be missed by the counting procedures, while others may be counted multiple times when they re-enter a park more than once on a single trip. Accurate estimates of park re-entries, party sizes, and lengths of stay in the area are needed to convert park entries to the number of visitor or party days in the region. Visitors staying overnight outside the park pose significant problems as they tend to be the greatest spenders and may enter the park several times during their stay. Similarly, visitors staying inside the park may enter and leave several times during their stay and be counted each time as a distinct visit. Re-entry factors adjust for these problems to the extent possible.

For multi-purpose trips, it is difficult to determine what portion of the spending should be attributed to the park visit. This is especially a problem for historic sites and parks in urban areas or parks in multiple-attraction destinations. For parks with visitor surveys, the proportion of days and spending counted was decided based on stated trip purposes and the importance of the park in generating the trip to the region.

Parkways and urban parks pose special difficulties for economic impact analyses. These units have some of the highest number of visits while posing the most difficult problems for estimating visits, spending, and impacts. The majority of visits to these types of units were assumed to be local or non-local day trips, and only one night of spending was counted for overnight trips. Due to the high numbers of visits at these units, small changes in assumed spending averages or segment mixes can swing the spending estimates by substantial amounts.

Clusters of parks within a single 50-mile area pose additional difficulties. For example, the many monuments and parks in the Washington D.C. area each count visitors separately. To avoid double counting of spending across many national capital parks, we must know how many times a visitor has been counted at park units during a trip to the Washington D.C. area. For parks in the National Capital Region, we currently assume an average of 1.7 park visits are counted for local day trips, 3.4 visits for non-local day trips, and 5.1 park visits on overnight trips. Similar difficulties exist for clusters of parks in Boston, New York, and San Francisco.

NPS units in Alaska also pose special problems for economic analysis. Spending opportunities near Alaska parks are limited, and for many visitors the park visit is part of a cruise or guided tour, frequently purchased as a package. Most visitors are on extended trips to Alaska, making it difficult to allocate expenses to a particular park visit. Lodging, vehicle rentals, and air expenses frequently occur in Anchorage, many miles from the park. Many Alaska parks are only accessible by air or boat, so spending profiles estimated from visitor surveys at parks in the lower 48 states do not apply well. Due to the prominence of cruise lines and package tours, special studies would be required to estimate the proportion of visitor spending that stays in the local regions around national park units in Alaska.

Estimates for Alaska parks were updated last year based on a visitor survey at Katmai (Littlejohn and Hollenhorst 2008), but there remain problems with visit counts, handling of package tours, and isolating the share of spending to allocate to park visits in Alaska. A visit to one or more national parks is an important part of the trip for most Alaska visitors. One could therefore argue to count most tourism spending in Alaska as related to national park visits. The U.S. Travel Association estimated tourist spending in Alaska at \$1.8 billion in 2007 (USTA 2009). This is more than ten times what we have included as spending in the local regions around Alaska national parks.

### **Suggestions for Further Research**

Suggestions for further research were discussed at length in last year's report (Stynes, 2008b). In the future, we hope to be able to make greater use of data on concession operations as new NPS electronic concession databases become available. Concession receipts cover a number of special spending opportunities that are not fully captured in the current estimates for some parks. They also help to validate MGM2 estimates for spending inside the park.

### **References**

- Chang, Wen-Huei. 2001. Variations in multipliers and related economic ratios for recreation and tourism impact analysis. Ph.D. Dissertation, East Lansing, MI : Michigan State University.
- Littlejohn, M. and Hollenhorst, S. 2008. Katmai National Park and Preserve Visitor Study. Summer 2006. Visitor Service Project Report #182. Moscow, Idaho: Univ. of Idaho Park Studies Unit.
- Minnesota IMPLAN Group Inc. 1999. IMPLAN Pro Version 2, Social Accounting and Impact Analysis Software. Stillwater, MN.
- Stynes, D.J., Propst, D.B., Chang, W.H., and Sun, Y. 2000. Estimating regional economic impacts of park visitor spending: Money Generation Model Version 2 (MGM2). East Lansing, MI: Department of Park, Recreation and Tourism Resources, Michigan State University.
- Stynes, Daniel J. and Sun, Ya-Yen. 2003. Impacts of Visitor Spending on the Local Economy; Sequoia and Kings Canyon National Parks, 2002. East Lansing, MI: Department of Park, Recreation and Tourism Resources, Michigan State University.
- Stynes, Daniel J. and Sun, Ya-Yen. 2005. Economic Impacts of Grand Canyon National Park Visitor Spending on the Local Economy, 2003. East Lansing, MI: Department of Park, Recreation and Tourism Resources, Michigan State University.
- Stynes, Daniel J. 2008a. Impacts of Visitor Spending on the Local Economy: Saint-Gaudens National Historic Site, 2004. East Lansing MI: Department of Community, Agriculture, Recreation, and Resource Studies . Michigan State University.
- Stynes, Daniel J. 2008b. National Park Visitor Spending and Payroll Impacts, 2007. Report to National Park Service. East Lansing MI: Department of Community, Agriculture, Recreation and Resource Studies, Michigan State University.



U.S. Travel Association (USTA). 2009. The Power of Travel, Economic Impact of Travel and Tourism. On-line :<http://www.poweroftravel.org/statistics/>.

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**Table A-1. Spending and Economic Impacts of National Park Visitors on Local Economies, CY 2008.**

Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Abraham Lincoln Birthplace NHS	200,404	0	\$7,159	\$6,673	133	2,317	3,582
Acadia NP	2,075,857	130,153	\$157,935	\$155,608	3,130	62,143	96,182
Adams NHS	241,536	0	\$16,024	\$14,937	281	6,944	10,799
*Agate Fossil Beds NM	12,425	0	\$788	\$782	16	321	491
Alibates Flint Quarries NM	2,297	0	\$117	\$109	2	44	68
Allegheny Portage Railroad NHS	113,991	0	\$5,817	\$5,423	109	2,166	3,352
Amistad NRA	1,980,717	30,275	\$58,079	\$50,645	1,010	17,583	27,188
Andersonville NHS	159,592	0	\$5,701	\$5,314	106	1,845	2,853
Andrew Johnson NHS	69,433	0	\$3,543	\$3,303	66	1,319	2,042
Antietam NB	352,548	0	\$17,783	\$16,059	323	6,413	9,926
*Apostle Islands NL	162,871	17,729	\$18,054	\$17,673	384	7,565	10,708
Appomattox Court House NHP	178,748	0	\$9,122	\$8,503	171	3,396	5,256
*Arches NP	928,795	50,855	\$96,789	\$96,789	2,345	36,480	57,563
Arkansas Post NMEM	43,137	0	\$1,541	\$1,436	29	499	771
Arlington House, Robert E. Lee Mem	518,515	0	\$34,399	\$32,065	602	14,907	23,183
Assateague Island NS	2,011,438	95,465	\$139,127	\$132,336	2,662	52,849	81,797
Aztec Ruins NM	38,709	0	\$1,240	\$1,202	24	480	743
*Badlands NP	845,734	32,597	\$20,285	\$20,285	436	6,852	11,000
Bandelier NM	207,656	12,061	\$9,307	\$9,000	181	3,594	5,563
Bent's Old Fort NHS	25,001	0	\$893	\$833	17	289	447
Bering Land Bridge NPRES	1,019	375	\$207	\$207	3	107	183
Big Bend NP	362,512	166,510	\$16,081	\$15,388	307	5,342	8,261
Big Cypress NPRES	813,790	25,586	\$98,320	\$96,895	1,386	44,418	74,410
Big Hole NB	54,818	0	\$1,958	\$1,825	36	634	980
Big South Fork NRRRA	675,928	70,619	\$28,009	\$24,548	489	8,523	13,178
Big Thicket NPRES	93,634	924	\$6,485	\$6,162	124	2,461	3,809
Bighorn Canyon NRA	178,533	16,444	\$5,352	\$4,706	94	1,634	2,527
Biscayne NP	686,062	6,236	\$45,752	\$45,219	801	19,113	30,291
Black Canyon of the Gunnison NP	160,185	13,820	\$7,738	\$7,367	147	2,558	3,955
Blue Ridge Parkway	16,309,307	147,452	\$342,522	\$313,509	6,305	125,201	193,781
Bluestone NSR	46,942	0	\$2,037	\$1,784	36	712	1,103
Booker T. Washington NM	19,990	0	\$1,020	\$951	19	380	588
Boston African American NHS	280,279	0	\$18,594	\$17,333	326	8,058	12,531
Boston NHP	2,232,495	0	\$80,293	\$77,681	1,459	36,114	56,163
Brown V. Board of Education NHS	16,950	0	\$865	\$806	15	375	583
Bryce Canyon NP	1,043,321	129,532	\$89,690	\$88,847	1,771	30,846	47,696
Buck Island Reef NM	46,025	3,920	\$3,178	\$3,026	60	1,050	1,624
Buffalo National River	1,405,802	95,050	\$43,673	\$38,522	768	13,374	20,680

**Table A-1. Spending and Economic Impacts of National Park Visitors on Local Economies, CY 2008.**

Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Cabrillo NM	705,331	0	\$46,792	\$43,618	819	20,278	31,536
Canaveral NS	994,453	2,474	\$68,927	\$65,488	1,317	26,153	40,478
Cane River Creole NHP	24,587	0	\$1,255	\$1,170	23	406	628
Canyon de Chelly NM	835,860	54,985	\$41,737	\$38,941	783	15,551	24,069
Canyonlands NP	436,715	96,113	\$35,385	\$35,043	699	12,166	18,812
Cape Cod NS	4,644,235	14,690	\$174,120	\$138,906	2,769	48,226	74,570
Cape Hatteras NS	2,146,392	71,069	\$108,354	\$103,030	2,054	35,771	55,310
Cape Krusenstern NM	1,575	267	\$392	\$392	7	203	348
Cape Lookout NS	486,899	41,452	\$35,989	\$34,378	685	11,936	18,455
Capitol Reef NP	604,811	37,872	\$29,260	\$27,842	555	9,666	14,946
*Capulin Volcano NM	45,178	0	\$1,258	\$1,236	26	405	653
Carl Sandburg Home NHS	21,233	0	\$1,084	\$1,010	20	403	624
Carlsbad Caverns NP	400,381	86	\$22,258	\$21,710	437	8,670	13,419
Casa Grande Ruins NM	73,763	0	\$2,198	\$2,065	41	717	1,109
Castillo de San Marcos NM	618,769	0	\$41,050	\$38,265	719	17,789	27,666
Castle Clinton NM	3,727,030	0	\$66,439	\$46,052	865	21,409	33,295
Catoctin Mountain Park	466,926	36,175	\$23,834	\$22,273	448	8,895	13,767
Cedar Breaks NM	538,016	733	\$19,219	\$17,916	357	6,220	9,618
Chaco Culture NHP	37,180	10,447	\$985	\$947	19	378	586
Chamizal NMEM	197,767	0	\$13,120	\$12,230	230	5,686	8,842
Channel Islands NP	332,177	35,622	\$29,688	\$28,267	531	13,141	20,437
Charles Pinckney NHS	44,072	0	\$2,249	\$2,096	42	837	1,296
Chattahoochee River NRA	2,826,171	0	\$80,469	\$54,097	1,016	25,150	39,112
*Chesapeake & Ohio Canal NHP	3,111,468	6,571	\$40,507	\$25,947	566	12,708	19,737
Chickamauga & Chattanooga NMP	993,535	1,851	\$50,702	\$47,265	951	18,876	29,215
Chickasaw NRA	1,230,609	73,325	\$17,918	\$14,224	276	5,394	8,108
Chiricahua NM	56,557	9,254	\$2,888	\$2,707	54	1,081	1,673
Christiansted NHS	105,136	0	\$3,756	\$3,501	70	1,215	1,879
City of Rocks NRES	85,893	0	\$5,955	\$5,658	114	2,259	3,497
Clara Barton NHS	9,007	0	\$598	\$557	10	259	403
*Colonial NHP	3,332,039	0	\$51,099	\$46,409	1,076	22,403	35,050
Colorado NM	390,972	14,942	\$19,953	\$18,623	375	7,437	11,511
Congaree Swamp NM	104,913	4,068	\$2,813	\$2,518	61	1,172	1,754
Coronado NMEM	390,972	14,942	\$13,967	\$13,036	260	4,526	6,998
Cowpens NB	235,176	0	\$12,001	\$11,187	225	4,468	6,915
*Crater Lake NP	415,686	68,660	\$32,240	\$31,281	736	11,314	18,194
*Craters of the Moon NM	227,179	11,138	\$6,824	\$6,747	107	2,639	3,769
Cumberland Gap NHP	843,893	9,654	\$43,047	\$40,141	807	16,031	24,811
Cumberland Island NS	82,812	17,937	\$5,659	\$5,403	109	2,158	3,339

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	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Curecanti NRA	1,007,444	57,472	\$42,758	\$37,467	754	14,963	23,158
Cuyahoga Valley NP	2,828,233	4,568	\$59,321	\$42,778	804	19,887	30,928
*Dayton Aviation Heritage NHP	53,292	0	\$2,760	\$2,614	62	1,313	1,942
De Soto NMEM	265,944	0	\$17,643	\$16,446	309	7,646	11,891
Death Valley NP	871,938	199,043	\$44,532	\$42,676	851	14,816	22,910
Delaware Water Gap NRA	5,127,074	111,429	\$113,224	\$98,391	1,979	39,293	60,815
Denali NP & Pres	432,309	93,864	\$43,828	\$43,828	739	22,620	38,876
Devils Postpile NM	134,005	4,150	\$4,788	\$4,467	89	1,551	2,398
Devils Tower NM	336,303	16,804	\$12,016	\$11,219	224	3,895	6,023
Dinosaur NM	201,724	56,542	\$6,764	\$6,333	126	2,199	3,400
Dry Tortugas NP	63,947	17,090	\$5,689	\$5,442	102	2,530	3,934
Edgar Allan Poe NHS	12,961	0	\$860	\$802	15	373	579
Edison NHS	8,027	0	\$533	\$496	9	231	359
*Effigy Mounds NM	68,696	0	\$4,032	\$3,864	78	1,447	2,152
*Eisenhower NHS	70,757	0	\$4,493	\$4,457	114	1,721	2,758
El Malpais NM	115,066	569	\$4,307	\$4,151	83	1,441	2,228
El Morro NM	45,178	2,891	\$1,578	\$1,512	30	525	812
Eleanor Roosevelt NHS	53,632	0	\$933	\$582	12	202	312
Eugene O'Neill NHS	2,544	0	\$169	\$157	3	73	114
Everglades NP	822,118	52,192	\$84,705	\$82,566	1,551	38,385	59,695
Federal Hall NMEM	212,564	0	\$14,102	\$13,145	247	6,111	9,504
Fire Island NS	604,577	44,279	\$35,228	\$30,953	623	12,361	19,132
First Ladies NHS	9,770	0	\$648	\$604	12	241	373
Flight 93 NMEM	136,091	0	\$6,945	\$6,474	129	2,248	3,475
Florissant Fossil Beds NM	56,988	0	\$2,908	\$2,711	55	1,083	1,676
Ford's Theatre NHS	335,865	0	\$11,198	\$10,274	193	4,776	7,428
Fort Bowie NHS	10,095	0	\$515	\$480	10	192	297
Fort Caroline NMEM	279,984	0	\$18,574	\$17,314	325	8,049	12,518
Fort Davis NHS	49,290	0	\$1,761	\$1,641	33	570	881
Fort Donelson NB	208,631	22	\$7,453	\$6,947	139	2,412	3,729
Fort Frederica NM	248,093	0	\$12,660	\$11,802	237	4,713	7,295
Fort Laramie NHS	48,297	0	\$1,725	\$1,608	32	558	863
Fort Larned NHS	21,483	0	\$767	\$715	14	248	384
Fort Matanzas NM	813,131	0	\$53,944	\$50,285	945	23,377	36,356
Fort McHenry NM & HS	598,050	0	\$39,675	\$36,984	695	17,194	26,739
Fort Necessity NB	127,672	146	\$4,163	\$3,664	73	1,272	1,967
Fort Point NHS	1,390,187	0	\$92,226	\$85,970	1,615	39,967	62,156
Fort Pulaski NM	352,636	14	\$17,995	\$16,775	337	6,699	10,369
Fort Raleigh NHS	311,751	0	\$11,136	\$10,381	207	3,604	5,573

**Table A-1. Spending and Economic Impacts of National Park Visitors on Local Economies, CY 2008.**

Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Fort Scott NHS	25,322	0	\$905	\$843	17	293	453
Fort Smith NHS	75,174	0	\$3,836	\$3,576	72	1,428	2,210
*Fort Stanwix NM	71,263	0	\$2,644	\$2,533	60	911	1,460
Fort Sumter NM	744,971	2	\$17,450	\$15,555	292	7,231	11,246
Fort Union NM	9,171	0	\$210	\$201	4	70	108
*Fort Union Trading Post NHS	12,405	0	\$868	\$841	16	303	457
Fort Vancouver NHS	894,417	0	\$45,643	\$42,547	856	16,991	26,298
Fort Washington Park	484,202	0	\$16,144	\$14,811	278	6,886	10,708
Fossil Butte NM	17,727	0	\$633	\$590	12	205	317
Franklin Delano Roosevelt Memorial	2,622,806	0	\$87,447	\$80,227	1,507	37,297	58,004
Frederick Douglass NHS	37,852	0	\$1,262	\$1,158	22	538	837
Frederick Law Olmsted NHS	2,969	0	\$197	\$184	3	85	133
Fredericksburg & Spotsylvania NMP	473,841	0	\$24,181	\$22,540	453	9,002	13,932
Friendship Hill NHS	30,623	0	\$2,032	\$1,894	36	880	1,369
Gates of the Arctic NP & Pres	11,397	6,274	\$1,765	\$1,765	30	911	1,566
Gateway NRA	9,431,021	8,484	\$165,336	\$67,179	1,262	31,231	48,570
Gauley River NRA	112,262	5,543	\$4,754	\$4,162	84	1,662	2,572
General Grant NMEM	91,436	0	\$6,066	\$5,654	106	2,629	4,088
George Rogers Clark NHP	113,688	0	\$5,802	\$5,408	109	2,160	3,343
*George Washington Birthplace NM	99,975	0	\$2,327	\$1,475	28	526	763
George Washington Carver NM	40,407	0	\$2,062	\$1,922	39	768	1,188
George Washington Memorial Pkwy	7,009,630	0	\$28,819	\$4,198	79	1,952	3,035
*Gettysburg NMP	1,455,951	25,937	\$91,207	\$90,489	2,307	34,935	55,998
Gila Cliff Dwellings NM	38,987	0	\$1,053	\$1,016	20	353	545
Glacier Bay NP & Pres	418,911	19,640	\$3,053	\$3,053	51	1,576	2,708
Glacier NP	1,808,027	328,852	\$93,138	\$89,713	1,804	35,827	55,452
Glen Canyon NRA	1,947,507	1,279,407	\$131,873	\$131,873	2,416	52,663	85,065
Golden Gate NRA	14,554,750	55,669	\$258,559	\$107,605	2,021	50,025	77,798
*Golden Spike NHS	39,968	0	\$1,981	\$1,933	35	862	1,281
Governors Island NM	205,010	0	\$18,478	\$17,555	330	8,161	12,692
*Grand Canyon NP	4,425,314	1,298,901	\$422,679	\$422,679	10,760	168,267	263,514
Grand Portage NM	77,323	125	\$8,796	\$8,752	174	3,039	4,698
*Grand Teton NP	2,485,987	553,735	\$259,868	\$252,771	3,680	102,813	158,691
Grant-Kohrs Ranch NHS	16,633	0	\$594	\$554	11	192	297
Great Basin NP	69,235	25,710	\$3,299	\$3,163	63	1,098	1,698
Great Sand Dunes NM	273,903	45,414	\$9,761	\$9,147	182	3,176	4,910
Great Smoky Mountains NP	9,044,010	367,434	\$800,292	\$775,617	14,569	360,582	560,769
Greenbelt Park	164,103	18,369	\$10,892	\$10,191	191	4,738	7,368
Guadalupe Mountains NP	163,709	18,574	\$11,277	\$10,743	216	4,290	6,640

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Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Guilford Courthouse NMP	354,077	7	\$18,069	\$16,843	339	6,726	10,411
Gulf Islands NS	2,054,201	14,983	\$57,648	\$33,310	670	13,303	20,589
Hagerman Fossil Beds NM	23,163	0	\$719	\$630	13	219	338
Haleakala NP	1,185,068	19,394	\$82,090	\$78,023	1,569	31,159	48,226
Hamilton Grange NMEM	690	0	\$46	\$43	1	20	31
Hampton NHS	35,260	0	\$2,339	\$2,180	41	1,014	1,576
Harpers Ferry NHP	254,162	0	\$10,149	\$9,333	203	4,829	7,141
Harry S Truman NHS	30,848	0	\$2,046	\$1,908	36	887	1,379
Hawaii Volcanoes NP	1,270,538	119,100	\$89,886	\$85,705	1,724	34,227	52,975
Herbert Hoover NHS	142,656	0	\$7,280	\$6,786	136	2,710	4,195
Home of Franklin D. Roosevelt	124,073	0	\$2,584	\$2,279	45	791	1,224
Homestead National Monument of America	71,314	0	\$2,547	\$2,375	47	824	1,275
Hopewell Culture NHP	28,130	0	\$1,005	\$937	19	325	503
Hopewell Furnace NHS	49,328	0	\$2,517	\$2,347	47	937	1,450
Horseshoe Bend NMP	50,719	0	\$2,588	\$2,413	49	964	1,491
Hot Springs NP	1,238,147	6,464	\$85,820	\$81,546	1,640	32,566	50,404
Hovenweep NM	25,411	1,530	\$1,297	\$1,212	24	484	749
Hubbell Trading Post NHS	61,955	0	\$3,162	\$2,947	59	1,177	1,822
Independence NHP	4,076,638	0	\$153,018	\$137,036	2,574	63,707	99,076
Indiana Dunes NL	1,833,596	30,927	\$54,936	\$38,712	772	13,440	20,782
Isle Royale NP	14,038	46,213	\$1,804	\$1,804	36	626	969
James A. Garfield NHS	27,289	0	\$1,810	\$1,688	32	785	1,220
Jean Lafitte NHP & PRES	339,821	0	\$17,341	\$16,165	325	6,456	9,992
Jefferson National Expansion Memorial	1,954,810	0	\$80,767	\$71,237	1,338	33,118	51,504
Jewel Cave NM	100,481	0	\$5,128	\$4,780	96	1,909	2,954
Jimmy Carter NHS	82,417	0	\$2,944	\$2,744	55	953	1,473
John D Rockefeller Jr. Mem Pkwy	1,099,060	31,976	\$6,352	\$5,892	118	2,353	3,642
*John Day Fossil Beds NM	112,578	300	\$5,166	\$5,087	94	1,853	2,748
John Fitzgerald Kennedy NHS	10,090	0	\$669	\$624	12	290	451
John Muir NHS	28,770	0	\$1,909	\$1,779	33	827	1,286
Johnstown Flood NMEM	135,308	0	\$7,543	\$6,967	181	3,414	5,068
*Joshua Tree NP	1,392,446	234,620	\$37,267	\$32,506	602	14,543	21,103
Kalaupapa NHP	60,934	0	\$3,110	\$2,899	58	1,158	1,792
Kaloko-Honokohau NHP	104,835	0	\$5,350	\$4,987	100	1,992	3,082
*Katmai NP & Pres/Aniakchak	82,000	1,156	\$17,091	\$16,860	284	8,701	14,955
Kenai Fjords NP	272,190	1,672	\$8,668	\$8,541	144	4,408	7,576
Kennesaw Mountain NBP	1,415,917	0	\$42,356	\$36,805	691	17,110	26,610
*Kings Mountain NMP	254,997	61	\$8,933	\$7,982	150	3,622	5,563

**Table A-1. Spending and Economic Impacts of National Park Visitors on Local Economies, CY 2008.**

Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Klondike Gold Rush NHP Alaska	935,940	6,386	\$24,650	\$24,356	411	12,570	21,604
Klondike Gold Rush NHP Seattle	58,389	0	\$3,874	\$3,611	68	1,679	2,611
Knife River Indian Villages NHS	24,798	0	\$886	\$826	16	287	443
Kobuk Valley NP	1,565	334	\$381	\$381	6	197	338
Korean War Veterans Memorial	3,654,976	0	\$121,861	\$111,799	2,100	51,975	80,831
Lake Chelan NRA	25,139	8,033	\$1,275	\$1,196	24	415	642
Lake Clark NP & Pres	6,802	2,346	\$1,459	\$1,459	25	753	1,294
Lake Mead NRA	7,601,863	889,237	\$280,358	\$239,423	4,774	83,124	128,531
Lake Meredith NRA	875,280	32,466	\$36,924	\$32,282	649	12,892	19,954
Lake Roosevelt NRA	1,337,024	109,251	\$40,513	\$35,658	711	12,380	19,143
Lassen Volcanic NP	377,361	78,290	\$16,096	\$14,641	275	6,807	10,586
*Lava Beds NM	120,076	10,295	\$4,350	\$4,150	59	1,611	2,415
LBJ Memorial Grove on the Potomac	411,164	0	\$27,277	\$25,427	478	11,821	18,383
Lewis & Clark NHP	230,057	0	\$11,740	\$10,944	220	4,370	6,764
Lincoln Boyhood NMEM	147,123	0	\$7,508	\$6,999	141	2,795	4,326
Lincoln Home NHS	335,473	0	\$17,813	\$17,491	455	8,443	12,560
Lincoln Memorial	4,678,861	0	\$155,999	\$143,118	2,688	66,535	103,474
Little Bighorn Battlefield NM	282,233	0	\$10,082	\$9,398	187	3,263	5,045
Little River Canyon NPRES	197,693	0	\$9,594	\$9,115	182	3,165	4,893
Little Rock Central High School	42,302	0	\$2,159	\$2,012	40	804	1,244
Longfellow NHS	59,827	0	\$3,053	\$2,846	57	1,137	1,759
Lowell NHP	574,410	0	\$38,107	\$35,522	667	16,514	25,682
Lyndon B. Johnson NHP	93,204	0	\$6,183	\$5,764	108	2,680	4,167
Maggie L Walker NHS	7,367	0	\$177	\$95	2	38	59
Mammoth Cave NP	446,174	80,699	\$30,116	\$28,519	569	9,901	15,310
Manassas NBP	594,992	0	\$8,184	\$7,837	147	3,644	5,666
*Manzanar NHS	78,468	0	\$7,840	\$7,817	145	3,216	4,791
Marsh-Billings Rockefeller NHP	37,121	0	\$1,894	\$1,766	36	705	1,091
Martin Luther King Jr NHS	658,873	0	\$43,710	\$40,745	765	18,942	29,459
Martin Van Buren NHS	21,216	0	\$428	\$374	7	130	201
Mary McLeod Bethune Council House NHS	17,635	0	\$588	\$539	10	251	390
Mesa Verde NP	551,446	96,192	\$42,119	\$40,391	812	16,130	24,966
Minute Man NHP	1,067,578	0	\$70,824	\$66,020	1,240	30,692	47,732
Minuteman Missile NHS	30,615	0	\$1,094	\$1,019	20	354	547
Missouri National Recreational River	162,086	0	\$7,866	\$7,474	149	2,595	4,012
Mojave NPRES	618,285	1,651	\$13,466	\$11,775	237	4,702	7,278
*Monocacy NB	31,276	0	\$2,289	\$2,129	26	1,158	1,753
Montezuma Castle NM	603,755	0	\$30,810	\$28,720	578	11,470	17,752



**Table A-1. Spending and Economic Impacts of National Park Visitors on Local Economies, CY 2008.**

Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Moore's Creek NB	44,820	167	\$1,599	\$1,490	30	517	800
Morristown NHP	277,203	0	\$14,146	\$13,186	265	5,266	8,151
*Mount Rainier NP	1,163,227	154,412	\$34,975	\$33,308	700	13,775	21,570
Mount Rushmore NMEM	1,789,328	0	\$60,485	\$56,984	1,146	22,757	35,222
Muir Woods NM	838,292	0	\$55,613	\$51,840	974	24,100	37,480
Natchez NHP	232,470	0	\$11,863	\$11,059	222	4,416	6,835
Natchez Trace Parkway	5,747,235	23,454	\$86,774	\$31,834	640	12,713	19,677
National Capital Parks Central	2,559,653	0	\$85,342	\$78,295	1,471	36,399	56,607
National Capital Parks East	1,296,990	0	\$43,243	\$39,673	745	18,444	28,683
Natural Bridges NM	91,838	6,012	\$4,688	\$4,379	88	1,749	2,707
Navajo NM	74,143	2,362	\$3,781	\$3,528	71	1,409	2,181
New Bedford Whaling NHP	281,512	0	\$18,676	\$17,409	327	8,093	12,587
New Orleans Jazz NHP	66,726	0	\$3,405	\$3,174	64	1,268	1,962
*New River Gorge NR	1,212,854	10,454	\$48,653	\$45,745	852	17,869	26,243
Nez Perce NHP	207,250	0	\$7,403	\$6,901	138	2,396	3,705
Nicodemus NHS	2,434	0	\$112	\$109	3	44	64
Ninety Six NHS	57,304	0	\$2,924	\$2,726	55	1,089	1,685
Niobrara NSR	70,270	0	\$3,410	\$3,240	65	1,125	1,739
Noatak NPRES	2,147	710	\$457	\$457	8	236	405
North Cascades NP	18,725	15,353	\$1,180	\$1,137	23	454	702
Obed Wild and Scenic River	192,154	1,611	\$8,360	\$7,326	147	2,926	4,528
Ocmulgee NM	102,631	0	\$5,237	\$4,882	98	1,950	3,018
*Olympic NP	3,081,451	298,264	\$112,859	\$103,554	2,191	42,957	67,428
Oregon Caves NM	73,774	6,157	\$3,591	\$3,347	67	1,337	2,069
Organ Pipe Cactus NM	340,290	20,124	\$17,360	\$16,214	326	6,475	10,022
Ozark National Scenic Riverways	1,243,507	124,122	\$55,801	\$49,401	994	19,729	30,535
Padre Island NS	635,925	57,312	\$43,838	\$41,735	839	16,667	25,796
Palo Alto Battlefield NHS	45,026	0	\$1,608	\$1,499	30	521	805
Pea Ridge NMP	68,464	0	\$3,494	\$3,257	66	1,301	2,013
Pecos NHP	32,701	0	\$727	\$704	14	245	378
Pennsylvania Avenue NHS	239,785	0	\$7,995	\$7,335	138	3,410	5,303
Perry's Victory & Int. Peace Mem	157,337	2,702	\$5,621	\$5,243	105	1,820	2,814
Petersburg NB	154,003	0	\$7,859	\$7,326	147	2,926	4,528
Petrified Forest NP	543,714	174	\$37,695	\$35,813	720	14,302	22,136
Petroglyph NM	116,620	0	\$4,975	\$4,063	76	1,889	2,937
*Pictured Rocks NL	398,774	28,096	\$16,944	\$16,661	374	5,824	9,435
Pinnacles NM	166,988	20,209	\$3,087	\$2,610	52	906	1,401
Pipe Spring NM	47,418	0	\$2,420	\$2,256	45	901	1,394
Pipestone NM	80,137	0	\$3,543	\$3,442	69	1,195	1,848

**Table A-1. Spending and Economic Impacts of National Park Visitors on Local Economies, CY 2008.**

Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Piscataway Park	324,394	0	\$10,816	\$9,923	186	4,613	7,174
Point Reyes NS	2,248,203	39,495	\$94,035	\$85,824	1,612	39,899	62,051
President's Park	1,178,845	0	\$39,304	\$36,059	677	16,764	26,070
Prince William Forest Park	345,361	58,224	\$19,386	\$14,823	278	6,891	10,717
Pu'uhonua o Honaunau NHP	414,667	0	\$21,161	\$19,726	397	7,878	12,192
Puukohola Heiau NHS	92,584	0	\$4,725	\$4,404	89	1,759	2,722
Rainbow Bridge NM	95,567	0	\$4,877	\$4,546	91	1,816	2,810
Redwood NP	396,899	12,951	\$20,608	\$18,698	376	7,467	11,557
Richmond NBP	120,823	0	\$8,758	\$7,919	159	3,163	4,895
Rio Grande Wild and Scenic River	1,606	6,631	\$149	\$146	3	51	78
Rock Creek Park	2,076,466	0	\$69,232	\$63,515	1,193	29,528	45,921
Rocky Mountain NP	2,757,390	203,797	\$234,075	\$226,849	4,523	78,759	121,780
Roger Williams NMEM	46,154	0	\$3,062	\$2,854	54	1,327	2,064
Ross Lake NRA	253,333	52,550	\$8,194	\$7,328	146	2,544	3,934
Russell Cave NM	36,375	0	\$1,856	\$1,730	35	691	1,070
Sagamore Hill NHS	53,772	0	\$3,567	\$3,325	62	1,546	2,404
Saguaro NP	699,137	1,599	\$23,911	\$16,657	335	6,652	10,296
Saint Croix NSR	523,595	83,631	\$16,062	\$14,209	283	4,933	7,628
Saint Paul's Church NHS	14,538	0	\$964	\$899	17	418	650
*Saint-Gaudens NHS	29,819	0	\$1,149	\$1,060	23	531	789
Salem Maritime NHS	856,935	0	\$56,850	\$52,993	995	24,636	38,314
Salinas Pueblo Missions NM	31,248	0	\$823	\$793	16	275	426
San Antonio Missions NHP	1,303,212	0	\$48,917	\$43,807	823	20,366	31,673
San Francisco Maritime NHP	4,086,211	10,681	\$81,584	\$60,363	1,134	28,063	43,642
San Juan Island NHP	255,492	0	\$16,949	\$15,800	297	7,345	11,423
San Juan NHS	1,135,577	0	\$57,950	\$54,019	1,086	21,573	33,389
Santa Monica Mountains NRA	419,374	144	\$17,166	\$11,443	215	5,320	8,273
Saratoga NHP	88,834	0	\$3,173	\$2,958	59	1,027	1,588
Saugus Iron Works NHS	12,433	0	\$825	\$769	14	357	556
Scotts Bluff NM	111,849	0	\$3,700	\$3,028	61	1,209	1,872
*Sequoia NP/ Kings Canyon NP <sup>a</sup>	1,158,758	408,330	\$87,762	\$81,149	1,779	35,417	55,521
Shenandoah NP	1,075,878	294,374	\$65,763	\$58,681	1,170	20,373	31,502
Shiloh NMP	357,340	0	\$12,765	\$11,899	237	4,131	6,388
Sitka NHP	241,407	0	\$4,879	\$4,821	81	2,488	4,276
Sleeping Bear Dunes NL	1,008,135	108,367	\$29,314	\$24,297	484	8,436	13,044
Springfield Armory NHS	17,358	0	\$1,152	\$1,073	20	499	776
Statue of Liberty NM	3,555,244	0	\$148,456	\$133,821	2,514	62,213	96,752
Steamtown NHS	71,123	0	\$2,541	\$2,368	47	822	1,271
Stones River NB	198,918	0	\$10,151	\$9,462	190	3,779	5,849

**Table A-1. Spending and Economic Impacts of National Park Visitors on Local Economies, CY 2008.**

Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Sunset Crater Volcano NM	209,399	0	\$10,686	\$9,961	200	3,978	6,157
Tallgrass Prairie NPRES	20,075	0	\$974	\$926	18	321	497
Thaddeus Kosciuszko NMEM	3,918	0	\$260	\$242	5	113	175
Theodore Roosevelt Birthplace NHS	18,590	0	\$1,233	\$1,150	22	534	831
Theodore Roosevelt Inaugural NHS	834	0	\$55	\$52	1	24	37
Theodore Roosevelt Island	109,156	0	\$7,241	\$6,750	127	3,138	4,880
Theodore Roosevelt NP	516,804	19,933	\$25,033	\$23,806	475	8,265	12,780
Thomas Jefferson Memorial	2,363,263	0	\$78,794	\$72,288	1,358	33,606	52,264
Thomas Stone NHS	5,720	0	\$379	\$354	7	164	256
Timpanogos Cave NM	123,682	0	\$8,205	\$7,649	144	3,556	5,530
Timucuan Ecological & Historic Pres	1,038,888	0	\$54,046	\$42,358	796	19,692	30,625
Tonto NM	63,553	0	\$3,243	\$3,023	61	1,207	1,869
Tumacacori NHP	45,079	0	\$1,610	\$1,501	30	521	806
Tuskegee Airmen NHS	50,331	0	\$2,568	\$2,394	48	956	1,480
Tuskegee Institute NHS	52,027	0	\$2,655	\$2,475	50	988	1,530
Tuzigoot NM	102,811	0	\$5,247	\$4,891	98	1,953	3,023
Ulysses S. Grant NHS	45,959	0	\$3,049	\$2,842	53	1,321	2,055
Upper Delaware SRR	284,347	0	\$8,639	\$7,564	151	2,626	4,061
USS Arizona Memorial	1,407,879	0	\$52,845	\$47,326	889	22,002	34,216
*Valley Forge NHP	1,275,871	1,500	\$46,611	\$33,485	766	14,744	23,103
Vanderbilt Mansion NHS	360,334	0	\$5,213	\$3,126	62	1,085	1,678
Vicksburg NMP	555,109	0	\$28,328	\$26,406	531	10,546	16,322
Vietnam Veterans Memorial	4,243,573	0	\$141,486	\$129,803	2,438	60,345	93,847
*Virgin Islands NP	469,034	98,226	\$59,180	\$59,180	1,414	28,789	43,918
Voyageurs NP	221,585	22,819	\$10,886	\$10,373	207	3,601	5,569
Walnut Canyon NM	101,833	0	\$5,197	\$4,844	97	1,935	2,994
War in the Pacific NHP	187,005	0	\$6,680	\$6,227	124	2,162	3,343
Washington Monument	671,031	0	\$22,373	\$27,448	548	13,561	21,090
Washita Battlefield NHS	14,579	0	\$583	\$548	11	190	294
Weir Farm NHS	18,522	0	\$1,229	\$1,145	22	532	828
Whiskeytown-Shasta-Trinity NRA	676,281	39,298	\$28,686	\$25,134	506	10,038	15,536
White House	519,011	0	\$17,304	\$15,876	298	7,381	11,478
White Sands NM	438,511	1,330	\$15,743	\$15,445	308	5,362	8,291
Whitman Mission NHS	53,356	0	\$1,906	\$1,777	35	617	954
William Howard Taft NHS	16,968	0	\$1,126	\$1,049	20	488	759
Wilson's Creek NB	120,670	0	\$6,158	\$5,740	115	2,292	3,548
Wind Cave NP	573,433	6,417	\$39,735	\$37,761	759	15,080	23,340
Wolf Trap National Park for the Performing Arts	487,197	0	\$32,321	\$30,129	566	14,007	21,783

**Table A-1. Spending and Economic Impacts of National Park Visitors on Local Economies, CY 2008.**

Park Unit	Public Use Data		Visitor Spending 2008		Impacts of Non-local Visitor Spending		
	2008 Recreation Visits	2008 Overnight Stays	All Visitors (\$000's)	Non-local Visitors (\$000's)	Jobs	Labor Income (\$000's)	Value Added (\$000's)
Women's Rights NHP	23,093	0	\$516	\$491	10	170	264
World War II Memorial	4,153,749	0	\$138,491	\$127,056	2,387	59,068	91,861
Wrangell-St Elias NP & Pres	65,693	0	\$2,981	\$2,981	50	1,538	2,644
Wright Brothers NMEM	527,721	0	\$18,851	\$17,572	350	6,101	9,434
Wupatki NM	239,157	0	\$12,204	\$11,377	229	4,543	7,032
*Yellowstone NP	3,066,580	1,194,187	\$345,267	\$344,015	6,293	169,514	255,254
*Yosemite NP	3,431,514	1,682,615	\$292,368	\$289,987	4,880	139,195	215,701
Yukon-Charley Rivers NPRES	4,942	17,514	\$638	\$638	11	329	565
*Zion NP	2,690,154	300,582	\$140,758	\$139,660	2,986	71,208	103,744

a. Sequoia and Kings Canyon national parks are combined for the economic analysis. Recreation visits for the two parks are reduced to reflect double counting between the two parks

\* For these parks, results are based on a visitor survey at the designated park that included spending data. The MGM2 model is used along with custom multipliers for the local region estimated with the IMPLAN system. For other parks, a variation of the MGM2 shortform model is employed, along with MGM2 generic multipliers.

Notes: Non-local visitors live outside a roughly 50-mile radius of the park. Jobs include part-time and full-time jobs, with seasonal jobs adjusted to an annual basis. Impacts include direct and secondary effects of visitor spending on the local economy. Labor income covers wages and salaries, payroll benefits, and incomes of sole proprietors in the local region. Value added includes labor income, profits and rents, and indirect business taxes.

**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Abraham Lincoln Birthplace NHS	890	188	22	29	1,255	1,389
Acadia NP	6,422	1,574	150	211	9,794	11,207
Adams NHS	1,279	278	27	41	1,979	2,260
Agate Fossil Beds NM	403	101	12	15	585	645
Allegheny Portage Railroad NHS	1,270	399	25	37	2,024	2,304
Amistad NRA	1,882	538	38	53	2,796	3,078
Andersonville NHS	874	216	18	25	1,264	1,395
Andrew Johnson NHS	477	98	10	15	709	814
Antietam NB	2,550	730	55	79	3,994	4,556
Apostle Islands NL	2,422	686	45	65	3,592	3,956
Appomattox Court House NHP	961	257	22	31	1,487	1,699
Arches NP	886	250	23	30	1,313	1,446
Arkansas Post NMem	460	122	10	14	674	743
Arlington House, The Robert E. Lee Mem	814	215	21	30	1,298	1,478
Assateague Island NS	3,391	850	80	112	5,191	5,937
Aztec Ruins NM	1,126	303	27	38	1,745	1,993
Badlands NP	3,418	904	80	107	5,006	5,519
Bandelier NM	3,132	892	81	111	4,901	5,591
Bent's Old Fort NHS	881	195	23	30	1,253	1,385
Bering Land Bridge Npres	191	40	3	5	294	336
Big Bend NP	4,517	1,339	109	145	6,759	7,437
Big Cypress Npres	4,424	1,289	84	133	7,173	8,147
Big South Fork NRRRA	2,635	770	53	74	3,931	4,326
Big Thicket NPres	2,088	585	66	85	3,258	3,717
Bighorn Canyon NRA	2,861	736	51	74	4,170	4,599
Biscayne NP	2,491	661	48	76	3,974	4,522
Black Canyon of the Gunnison NP	923	248	22	30	1,356	1,495
Blue Ridge Parkway	11,243	3,155	245	352	17,546	20,020
Bluestone NSR	54	19	1	2	88	100
Booker T. Washington NM	615	184	12	18	972	1,107
Boston African American NHS	491	104	13	18	757	865
Boston NHP	6,152	1,647	106	174	9,829	11,183
Brown V. Board of Education NHS	698	226	15	23	1,154	1,307
Bryce Canyon NP	3,008	811	80	104	4,420	4,871
Buck Island Reef NM	213	56	5	7	311	343
Buffalo National River	3,888	1,190	105	136	5,856	6,439
Cabrillo NM	1,244	354	27	41	2,008	2,281
Canaveral NS	2,317	598	51	73	3,564	4,074
Cane River Creole NHP	610	162	16	21	894	985

**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Canyon de Chelly NM	1,274	296	31	43	1,926	2,206
Canyonlands NP	4,850	1,317	128	167	7,136	7,864
Cape Cod NS	6,476	1,742	139	191	9,514	10,485
Cape Hatteras NS	5,727	1,425	143	189	8,298	9,157
Cape Lookout NS	1,949	386	44	60	2,725	3,017
Capitol Reef NP	1,756	500	38	52	2,607	2,871
Capulin Volcano NM	462	138	11	15	693	762
Carl Sandburg Home NHS	738	181	16	23	1,126	1,288
Carlsbad Caverns NP	4,144	1,046	102	141	6,350	7,261
Casa Grande Ruins NM	647	197	15	20	974	1,071
Castillo de San Marcos NM	1,899	526	46	67	3,051	3,469
Castle Clinton NM	331	92	6	10	532	605
Catoctin Mountain Park	2,119	540	49	69	3,252	3,718
Cedar Breaks NM	382	80	9	12	538	595
Chaco Culture NHP	1,421	359	30	43	2,178	2,490
Chamizal NMem	1,282	353	27	41	2,059	2,341
Channel Islands NP	4,344	1,141	85	132	6,918	7,874
Charles Pinckney NHS	369	103	8	11	576	657
Chattahoochee River NRA	2,066	549	40	63	3,297	3,751
Chesapeake & Ohio Canal NHP	6,219	1,631	129	188	9,592	10,960
Chickamauga & Chattanooga NMP	2,037	546	44	63	3,153	3,601
Chickasaw NRA	2,793	784	68	91	4,137	4,556
Chiricahua NM	1,065	282	23	33	1,646	1,880
Christiansted NHS	512	119	13	17	734	810
City of Rocks NRES	22	7	2	2	35	40
Clara Barton NHS	346	103	10	14	564	640
Colonial NHP	4,164	1,208	81	121	6,538	7,454
Colorado NM	993	253	26	35	1,525	1,744
Congaree Swamp NM	783	211	18	26	1,214	1,387
Coronado Nmem	695	202	15	20	1,037	1,141
Cowpens NB	441	118	13	17	682	779
Crater Lake NP	4,010	957	93	131	6,090	6,973
Craters of the Moon NM	931	265	19	26	1,383	1,523
Cumberland Gap NHP	2,280	709	56	78	3,627	4,129
Cumberland Island NS	1,609	485	31	46	2,544	2,897
Curecanti NRA	2,346	609	51	74	3,611	4,127
Cuyahoga Valley NP	7,845	2,027	160	246	12,460	14,186
Dayton Aviation Heritage NHP	1,146	272	25	37	1,797	2,049
De Soto Nmem	335	96	9	12	541	615
Death Valley NP	6,023	1,534	132	180	8,762	9,666

**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Delaware Water Gap NRA	7,315	1,827	130	200	11,191	12,801
Denali NP & Pres	10,355	2,159	202	300	15,414	17,692
Devils Postpile NM	323	75	8	11	463	511
Devils Tower NM	818	188	19	25	1,169	1,292
Dinosaur NM	2,202	549	51	68	3,192	3,522
Dry Tortugas NP	653	185	16	23	1,054	1,197
Edgar Allan Poe NHS	317	96	7	10	518	588
Edison NHS	1,536	397	28	44	2,440	2,778
Effigy Mounds NM	946	183	25	32	1,318	1,460
Eisenhower NHS	809	233	16	23	1,269	1,447
El Malpais NM	989	290	22	30	1,478	1,626
El Morro NM	601	148	17	22	868	959
Eleanor Roosevelt NHS	251	45	11	13	347	384
Eugene O'Neill NHS	281	75	6	9	449	511
Everglades NP	16,338	4,486	303	482	26,215	29,810
Federal Hall NMem	252	50	8	11	385	441
Fire Island NS	3,111	690	64	93	4,672	5,356
First Ladies NHS	40	9	1	2	57	63
Florissant Fossil Beds NM	638	188	15	21	1,005	1,146
Ford's Theatre NHS	802	249	16	24	1,316	1,493
Fort Bowie NHS	250	72	6	8	392	447
Fort Caroline NMem	1,431	389	31	46	2,292	2,607
Fort Davis NHS	879	212	19	26	1,266	1,398
Fort Donelson NB	797	247	18	25	1,203	1,323
Fort Frederica NM	494	165	10	15	798	906
Fort Laramie NHS	973	243	24	32	1,410	1,556
Fort Larned NHS	692	202	16	22	1,033	1,137
Fort Matanzas NM	75	33	1	2	133	150
Fort McHenry NM & HS	1,337	320	32	46	2,099	2,393
Fort Necessity NB	984	319	18	26	1,499	1,647
Fort Point NHS	443	103	8	13	692	790
Fort Pulaski NM	875	249	22	31	1,369	1,562
Fort Raleigh NHS	254	72	6	8	377	415
Fort Scott NHS	939	217	21	29	1,343	1,484
Fort Smith NHS	605	174	14	19	948	1,081
Fort Stanwix NM	765	227	18	24	1,145	1,260
Fort Sumter NM	1,458	373	35	51	2,313	2,634
Fort Union NM	640	172	19	24	940	1,036
Fort Union Trading Post NHS	523	105	13	17	732	810
Fort Vancouver NHS	1,312	331	29	42	2,010	2,299

**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Fossil Butte NM	443	110	10	13	641	708
Frederick Douglass NHS	361	52	11	15	532	611
Frederick Law Olmsted NHS	1,190	334	22	35	1,917	2,179
Fredericksburg & Spotsylvania NMP	2,726	733	53	79	4,223	4,822
Friendship Hill NHS	362	132	7	11	613	692
Gates of the Arctic NP & Pres	1,233	279	31	41	1,759	1,943
Gateway NRA	17,104	3,975	344	532	26,724	30,487
Gauley River NRA	287	110	6	9	477	540
General Grant NMem	317	85	8	11	506	576
George Rogers Clark NHP	591	154	13	19	910	1,040
George Washington Birthplace NM	999	277	25	35	1,555	1,775
George Washington Carver NM	606	151	17	23	927	1,060
George Washington Memorial Pkwy	5,846	1,600	131	196	9,374	10,660
Gettysburg NMP	4,802	1,119	76	122	7,266	8,322
Gila Cliff Dwellings NM	168	33	3	5	234	259
Glacier Bay NP & Pres	4,213	969	72	106	6,025	6,657
Glacier NP	12,077	2,780	295	410	18,238	20,895
Glen Canyon NRA	8,301	2,305	172	251	12,931	14,757
Golden Gate NRA	13,517	3,410	270	418	21,388	24,361
Golden Spike NHS	570	146	12	18	875	1,001
Governors Island NM	652	159	12	19	1,026	1,170
Grand Canyon NP	24,780	6,699	575	810	38,417	43,869
Grand Portage NM	666	180	15	21	979	1,079
Grand Teton NP	10,434	2,630	259	358	15,985	18,281
Grant-Kohrs Ranch NHS	840	245	20	26	1,252	1,378
Great Basin NP	1,969	537	45	60	2,900	3,195
Great Sand Dunes NM	1,538	444	33	46	2,290	2,521
Great Smoky Mountains NP	14,961	4,355	342	507	24,253	27,545
Greenbelt Park	684	167	15	22	1,076	1,226
Guadalupe Mountains NP	1,746	489	39	56	2,723	3,107
Guilford Courthouse NMP	542	172	12	18	865	984
Gulf Islands NS	4,982	1,345	114	161	7,722	8,818
Hagerman Fossil Beds NM	535	136	13	18	778	858
Haleakala NP	3,936	999	91	129	6,036	6,902
Hamilton Grange NMem	30	5	4	4	44	51
Hampton NHS	839	191	22	31	1,306	1,491
Harpers Ferry NHP	4,740	1,295	112	157	7,362	8,405
Harry S Truman NHS	824	246	19	28	1,341	1,522
Hawaii Volcanoes NP	6,747	1,747	153	217	10,383	11,868
Herbert Hoover NHS	836	200	19	27	1,270	1,454



**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Home of Franklin D. Roosevelt N	923	244	24	32	1,425	1,628
Homestead National Monument of America	753	224	19	25	1,128	1,241
Hopewell Culture NHP	738	169	18	24	1,055	1,166
Hopewell Furnace NHS	1,073	275	21	31	1,648	1,884
Horseshoe Bend NMP	516	161	11	16	822	936
Hot Springs NP	3,459	919	87	120	5,346	6,107
Hovenweep NM	338	113	7	11	545	619
Hubbell Trading Post NHS	604	149	11	17	922	1,054
Independence NHP	11,742	3,307	218	347	18,924	21,507
Indiana Dunes NL	6,308	1,740	126	177	9,309	10,255
Isle Royale NP	2,946	722	64	87	4,257	4,699
James A. Garfield NHS	203	49	6	8	319	364
Jean Lafitte NHP & PRES	3,229	891	76	107	5,024	5,734
Jefferson National Expansion Memorial	7,505	2,256	179	262	12,239	13,890
Jewel Cave NM	782	170	23	30	1,171	1,343
Jimmy Carter NHS	763	249	17	23	1,165	1,280
John D Rockefeller Jr. Mem Pkwy	321	94	6	9	505	576
John Day Fossil Beds NM	988	229	22	30	1,414	1,563
John Fitzgerald Kennedy NHS	253	63	5	8	400	456
John Muir NHS	705	172	13	21	1,110	1,265
Johnstown Flood Nmem	430	140	10	14	690	784
Joshua Tree NP	4,913	1,316	114	168	7,850	8,931
Kalaupapa NHP	2,105	595	40	60	3,289	3,752
Kaloko-Honokohau NHP	1,344	347	30	43	2,067	2,363
Katmai NP & Pres/Aniakchak	2,343	521	39	57	3,333	3,685
Kenai Fjords NP	2,164	516	47	67	3,287	3,763
Kennesaw Mountain NBP	770	199	14	23	1,223	1,392
Kings Mountain NMP	677	167	17	24	1,034	1,183
Klondike Gold Rush NHP Alaska	2,016	461	37	53	2,880	3,183
Klondike Gold Rush NHP Seattle	389	112	10	14	629	715
Knife River Indian Villages NHS	516	148	12	16	767	845
Lake Clark NP & Pres	1,679	398	32	48	2,547	2,916
Lake Mead NRA	14,443	3,857	341	456	21,188	23,355
Lake Meredith NRA	1,808	540	54	71	2,855	3,252
Lake Roosevelt NRA	3,106	852	69	94	4,580	5,046
Lassen Volcanic NP	3,695	913	80	121	5,827	6,640
Lava Beds NM	1,685	423	39	55	2,580	2,951
LBJ Memorial Grove on the Potomac	29	9	3	4	48	54
Lewis & Clark NHP	1,027	252	26	36	1,565	1,791
Lincoln Boyhood NMem	646	171	16	22	998	1,140

**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Lincoln Home NHS	1,965	477	49	68	2,993	3,425
Little Bighorn Battlefield NM	861	211	20	27	1,245	1,374
Little River Canyon NPRES	756	221	19	25	1,128	1,242
Little Rock Central High School	481	135	11	15	751	857
Longfellow NHS	681	170	14	21	1,054	1,191
Lowell NHP	5,450	1,367	106	166	8,615	9,814
Lyndon B. Johnson NHP	2,489	699	59	86	4,009	4,556
Maggie L Walker NHS	395	100	9	13	606	692
Mammoth Cave NP	5,649	1,342	171	216	8,120	8,967
Manassas NBP	1,682	485	29	47	2,722	3,092
Manzanar NHS	848	226	19	26	1,243	1,370
Marsh-Billings Rockefeller NHP	1,177	268	25	36	1,774	2,033
Martin Luther King Jr NHS	1,783	417	36	56	2,789	3,181
Martin Van Buren NHS	723	165	15	20	1,033	1,141
Mary McLeod Bethune NHS	428	97	11	16	667	761
Mesa Verde NP	5,870	1,388	143	198	8,902	10,194
Minute Man NHP	1,776	460	38	57	2,822	3,213
Missouri National Recreational River	407	105	10	14	633	715
Mojave Npres	3,362	978	61	93	5,282	6,022
Monocacy NB	1,176	340	26	39	1,905	2,164
Montezuma Castle NM	1,223	346	30	41	1,911	2,180
Moore's Creek NB	367	103	8	11	544	599
Morristown NHP	1,512	396	30	44	2,332	2,664
Mount Rainier NP	10,091	2,217	238	334	15,134	17,354
Mount Rushmore Nmem	3,605	1,054	85	119	5,668	6,461
Muir Woods NM	557	146	12	18	887	1,009
Natchez NHP	820	238	21	28	1,287	1,467
Natchez Trace Parkway	7,251	2,348	161	230	11,629	13,224
National Capital Parks Central	13,028	3,366	273	417	20,694	23,560
National Capital Parks East	7,304	1,957	150	231	11,671	13,278
Natural Bridges NM	317	70	7	10	476	545
Navajo NM	626	133	16	22	934	1,072
New Bedford Whaling NHP	424	105	9	14	669	762
New Orleans Jazz NHP	338	107	8	11	539	613
New River Gorge NR	5,045	1,472	110	158	7,930	9,040
Nez Perce NHP	1,641	459	37	50	2,428	2,675
Nicodemus NHS	193	56	5	6	287	316
Ninety Six NHS	301	77	8	11	462	529
Niobrara NSR	333	108	7	10	507	557
North Cascades NP	6,532	1,841	149	211	10,203	11,640

**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Obed Wild and Scenic River	443	137	10	14	704	802
Ocmulgee NM	645	151	15	21	977	1,119
Olympic NP	10,055	2,460	227	323	15,331	17,543
Oregon Caves NM	886	209	22	30	1,343	1,538
Organ Pipe Cactus NM	1,878	559	36	54	2,962	3,376
Ozark National Scenic Riverways	4,669	1,379	107	151	7,355	8,382
Padre Island NS	2,812	678	65	91	4,277	4,896
Palo Alto Battlefield NHS	492	145	11	15	735	809
Pea Ridge NMP	862	225	27	35	1,328	1,518
Pecos NHP	1,114	372	25	34	1,709	1,876
Perry's Victory and Internatl Peace Mem	731	201	17	23	1,078	1,188
Petersburg NB	2,105	538	42	62	3,232	3,695
Petrified Forest NP	2,612	709	52	77	4,052	4,627
Petroglyph NM	1,153	273	28	41	1,807	2,061
Pictured Rocks NL	1,655	367	33	46	2,353	2,601
Pinnacles NM	2,327	599	50	68	3,391	3,740
Pipe Spring NM	654	174	15	21	1,011	1,155
Pipestone NM	527	129	14	19	761	840
Piscataway Park	305	84	7	10	490	557
Point Reyes NS	6,290	1,639	126	195	10,005	11,389
Prince William Forest Park	2,062	592	50	73	3,335	3,789
Pu'uuhonua o Honaunau NHP	1,097	298	25	36	1,703	1,944
Puukohola Heiau NHS	843	152	19	27	1,230	1,416
Rainbow Bridge NM	75	22	2	3	118	134
Redwood NP	6,207	1,707	135	194	9,652	11,018
Richmond NBP	1,778	492	39	56	2,767	3,158
Rio Grande Wild and Scenic River	113	55	3	4	191	208
Rock Creek Park	3,544	904	78	117	5,617	6,397
Rocky Mountain NP	12,878	3,195	306	409	18,649	20,580
Roger Williams Nmem	272	81	7	10	443	503
Russell Cave NM	236	57	6	8	360	412
Sagamore Hill NHS	1,057	261	24	36	1,667	1,899
Saguaro NP	3,049	815	81	110	4,717	5,388
Saint Croix NSR	2,614	713	56	77	3,850	4,242
Saint-Gaudens NHS	857	234	18	26	1,331	1,519
Salem Maritime NHS	1,662	409	36	54	2,619	2,984
Salinas Pueblo Missions NM	976	209	29	37	1,379	1,525
San Antonio Missions NHP	2,280	741	51	76	3,773	4,274
San Francisco Maritime NHP	5,050	1,305	80	135	8,022	9,133
San Juan Island NHP	572	162	12	19	923	1,048

**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
San Juan NHS	3,061	736	96	125	4,654	5,327
Santa Monica Mountains NRA	5,301	1,518	113	171	8,568	9,734
Saratoga NHP	1,324	358	26	39	2,052	2,343
Saugus Iron Works NHS	552	138	11	17	871	993
Scotts Bluff NM	636	159	16	22	973	1,113
Sequoia NP/ Kings Canyon NP	14,828	3,655	359	522	23,377	26,639
Shenandoah NP	9,627	2,732	227	304	14,285	15,729
Shiloh NMP	1,286	316	32	43	1,859	2,052
Sitka NHP	1,284	324	25	35	1,864	2,057
Sleeping Bear Dunes NL	3,599	706	79	108	5,025	5,565
Springfield Armory NHS	836	204	14	24	1,315	1,499
Statue of Liberty NM	7,691	1,968	154	239	12,197	13,889
Steamtown NHS	3,387	983	62	89	5,048	5,556
Stones River NB	971	194	25	34	1,436	1,650
Tallgrass Prairie NPRes	637	158	16	21	923	1,018
Thaddeus Kosciuszko NMem	106	45	4	5	186	210
Theodore Roosevelt Birthplace NHS	169	53	4	6	278	315
Theodore Roosevelt Island	48	15	1	1	77	86
Theodore Roosevelt NP	1,896	498	52	67	2,774	3,059
Thomas Stone NHS	242	46	8	10	367	421
Timpanogos Cave NM	988	193	38	49	1,507	1,724
Tonto NM	671	196	15	21	1,055	1,203
Tumacacori NHP	897	242	18	26	1,318	1,453
Tuskegee Airmen NHS	363	101	13	17	566	646
Tuskegee Institute NHS	490	132	12	16	759	867
Tuzigoot NM	47	12	2	2	72	81
Ulysses S. Grant NHS	667	161	19	26	1,048	1,194
Upper Delaware SRR	1,880	490	33	48	2,745	3,027
USS Arizona Memorial	1,665	412	38	57	2,627	2,993
Valley Forge NHP	4,408	1,207	75	117	6,848	7,818
Vanderbilt Mansion NHS	804	201	23	32	1,271	1,448
Vicksburg NMP	1,828	491	46	63	2,830	3,233
Virgin Islands NP	3,174	858	77	103	4,666	5,142
Voyageurs NP	3,069	825	64	88	4,508	4,968
Washita Battlefield NHS	393	105	11	14	577	635
Weir Farm NHS	657	182	13	21	1,056	1,201
Whiskeytown-Shasta-Trinity NRA	3,641	921	91	125	5,581	6,382
White House	5,861	1,394	124	188	9,188	10,478
White Sands NM	1,036	283	26	34	1,526	1,681
Whitman Mission NHS	582	134	13	18	832	919

**Table A-2. Payroll Impacts of National Park Units on Local Economies, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
William Howard Taft NHS	440	129	9	14	714	811
Wilson's Creek NB	1,471	399	32	46	2,281	2,605
Wind Cave NP	2,803	774	72	98	4,362	4,978
Wolf Trap National Park for the Performing Arts	2,789	600	71	101	4,310	4,924
Women's Rights NHP	892	231	17	25	1,302	1,436
Wrangell-St Elias NP & Pres	3,779	731	64	94	5,265	5,832
Wright Brothers NMEM	447	102	11	15	638	705
Wupatki NM	2,353	617	50	72	3,628	4,146
Yellowstone NP	28,146	7,387	618	885	43,415	49,607
Yosemite NP	32,414	7,993	851	1,111	46,890	51,752
Yukon-Charley Rivers Npres	1,154	271	28	38	1,656	1,829
Zion NP	7,574	2,064	196	267	11,759	13,425

Notes: Jobs include part-time and full-time jobs, with seasonal positions adjusted to an annual basis. NPS jobs, salary, and benefits are assigned to the unit where the employee's time was charged, which may differ from his or her duty station. Economic impacts include NPS payroll and jobs plus the induced effects of NPS employee spending of their wages and salaries in the local region.

**Table A-3. Payroll Impacts of National Park Units on Local Economies, Administrative Units and Parks without Visit Counts, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Administration Team Coord, PGSO	17,942	3,091	279	459	26,415	30,004
Administrative Program Cntr	0	0	1	1	0	0
Ala Kahakai NHT	103	30	2	3	161	184
Alaska Regional Office	4,248	862	61	107	6,511	7,446
Alaska Support Office	8,835	1,991	155	226	12,592	13,917
American Memorial Park	528	157	15	20	832	948
Anacostia Park	1	0	1	1	1	1
Anchorage Interagency Visitors Center	444	70	11	16	661	759
Appalachian NST	811	211	12	21	1,290	1,468
Associate Reg Dir, Administration	8,906	2,068	188	286	13,913	15,872
Biological Resources Mgmt Division	1,791	433	24	44	2,816	3,210
Blackstone River Valley NHC	658	182	12	20	1,056	1,201
Boston Harbor Islands NRA	608	122	16	22	930	1,064
Boston Support Office	1,007	245	16	27	1,583	1,805
Cedar Creek And Belle Grove NHP	211	45	3	5	319	361
Center For Urban Ecology	392	100	8	12	622	708
Chesapeake Bay Program Office	1,174	301	17	29	1,862	2,120
Chihuahuan Desert Network	186	58	3	5	306	346
Columbia Cascades So	5,080	1,274	74	124	7,879	8,895
Denver Service Center	18,201	4,509	430	631	28,716	32,721
Ebey's Landing NHRES	124	29	3	4	188	215
Erie Canalway National Heritage Corridor	335	88	7	10	517	590
Fairbanks Interagency Visitors Center	259	58	6	9	388	445
Flagstaff Areas	3	1	2	2	5	6
FLETC (Fed Law Enforcement Trg Cntr)	2,384	724	102	128	3,894	4,419
Glen Echo Park	405	109	9	13	596	656
Gloria Dei Church NHS	309	79	9	12	474	542
Great Falls Park Virginia	24	7	2	2	39	44
Great Lakes Network	725	196	21	29	1,160	1,320
Greater Yellowstone Network	600	157	13	20	955	1,086
Harpers Ferry Center	362	88	8	12	570	650
Heartland Network	8,492	2,024	176	257	12,893	14,762
Historic Preservation Training Cntr (HPTC)	488	154	10	16	803	910
Horace Albright Training Cntr	2,258	557	59	84	3,561	4,057
Ice Age NST	934	249	18	28	1,492	1,698
Intermountain Nr-Pro	278	67	5	7	422	483
Intermountain Regional Office	919	246	19	29	1,468	1,671
Job Corps Program	21,188	4,865	343	576	33,045	37,706
Juan Bautista De Anza NHT	246	66	4	7	380	435

**Table A-3. Payroll Impacts of National Park Units on Local Economies, Administrative Units and Parks without Visit Counts, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Keweenaw NHP	1,039	261	23	32	1,507	1,663
Land Acquisition Project Office	337	94	6	9	532	599
Lewis & Clark NHT	768	213	14	21	1,196	1,365
Manhattan Sites	930	227	17	28	1,464	1,669
Mather Training Cntr	898	226	14	24	1,420	1,618
Midwest Archeological Center	1,478	367	33	48	2,288	2,583
Midwest Regional Office	12,642	3,259	191	330	20,073	22,854
Minidoka Internment NM	163	40	5	6	249	285
Mississippi NR&RA	1,590	426	31	47	2,493	2,811
Museum Resources Ctr	476	109	8	13	742	847
National Capital Regional Office	3,598	750	75	115	5,536	6,327
National Information Systems Cntr	107	18	2	3	160	184
National Information Technology Cntr	0	0	4	4	0	0
National Interagency Fire Center	3,427	964	50	85	5,418	6,104
National Mall	3,584	932	76	115	5,698	6,486
National Parks of New York Harbor	1,460	354	26	42	2,296	2,618
National Trails System, Salt Lake City	0	0	5	5	0	0
National Trails System, Santa Fe	1,335	330	24	37	2,065	2,332
Natl Ctr For Rec & Conservation	1,228	311	16	29	1,944	2,214
NER Historic Architecture Program	659	134	12	18	991	1,123
North Country NT	274	65	4	7	422	477
Northeast Education Services Center	131	36	2	3	206	232
Northeast Museum Services Center	823	232	16	24	1,302	1,467
Northeast Regional Office	20,989	4,830	304	514	32,115	36,313
Northern Colorado Plateau Network	743	198	16	24	1,186	1,350
Northern Great Plains Network	265	87	6	8	440	498
NP of American Samoa	675	155	16	23	1,020	1,168
Office Of The Chief Information Officer	6,713	1,604	74	148	10,532	12,009
Office Of The Director	73,245	17,485	1,052	1,858	114,900	131,014
Office Of Wyoming State Coordinator	102	24	1	2	157	177
Old Post Office Tower	343	94	8	12	550	626
Olmstead Center For Landscape Preservation	630	179	14	20	998	1,124
Overmountain Victory NHT	79	16	2	2	118	134
Pacific Island Support Office	862	192	12	20	1,312	1,484
Pacific West Regional Office	7,731	1,738	140	217	11,789	13,335
Parashant National Monument	603	163	12	18	946	1,067
Pinelands NPRES (Interp Pgm)	114	33	2	3	182	204
Potomac Heritage NST	123	36	4	5	200	228
Presidio of San Francisco	7,554	2,229	141	225	12,276	13,938
Rocky Mountain Network	309	87	5	8	497	565

**Table A-3. Payroll Impacts of National Park Units on Local Economies, Administrative Units and Parks without Visit Counts, FY 2008.**

Park Unit	Park Payroll			Impacts of Park Payroll		
	Salary (\$000's)	Payroll Benefits (\$000's)	NPS Jobs	Total Jobs	Labor Income (\$000's)	Value Added (\$000's)
Roosevelt-Vanderbilt Headquarters	1,731	454	33	52	2,756	3,136
Rosie The Riveter/WW II Homefront NHP	339	85	7	10	536	610
Saint Croix Island Intl HS	173	35	4	6	260	294
Salt River Bay NHP & Eco Pres	266	72	7	10	417	471
Sand Creek Massacre NHS	265	67	8	11	411	464
SE Archeological Center	1,683	392	37	54	2,580	2,917
Selma To Montgomery NHT	285	73	10	13	443	500
Sonoran Desert Network	412	125	9	13	673	763
Southeast Regional Office	15,471	3,943	235	390	24,055	27,149
Southern Arizona Group	839	223	14	22	1,313	1,481
Southern Colorado Plateau Network	608	184	11	17	992	1,126
Southern Plains Network	187	46	3	5	295	336
Spanish Colonial Research Center	84	30	2	3	140	156
Strategic Planning Division	337	70	3	7	519	593
United States Park Police	59,097	20,731	908	1,558	99,331	112,332
Virgin Islands Coral Reef NM	193	54	7	9	305	344
Washington Training Cntr	430	77	5	10	649	744
Western Archeol & Conserv Ctr	662	166	22	29	1,027	1,159
Western Arctic National Parklands	1,681	354	28	44	2,540	2,876
Yucca House NM	56	19	2	2	92	103

Notes: Jobs include part-time and full-time jobs, with seasonal positions adjusted to an annual basis. NPS jobs, salary, and benefits are assigned to the unit where the employee's time was charged, which may differ from his or her duty station. Economic impacts include NPS payroll and jobs plus the induced effects of NPS employee spending of their wages and salaries in the local region.



Park Unit	2008 Recreation Visits	Spending (\$000's)			Jobs Impacts		
		Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non-local Visitors	From NPS Payroll	Total Jobs
Abraham Lincoln Birthplace NHS	200,404	6,673	578	7,251	133	29	162
Acadia NP	2,075,857	155,608	5,458	161,066	3,130	211	3,340
Adams NHS	241,536	14,937	1,215	16,152	281	41	322
Agate Fossil Beds NM	12,425	782	262	1,044	16	15	30
Alibates Flint Quarries NM	2,297	109	0	109	2	0	2
Allegheny Portage Railroad NHS	113,991	5,423	1,080	6,502	109	37	146
Amistad NRA	1,980,717	50,645	1,223	51,869	1,010	53	1,063
Andersonville NHS	159,592	5,314	568	5,882	106	25	131
Andrew Johnson NHS	69,433	3,303	406	3,709	66	15	81
Antietam NB	352,548	16,059	2,168	18,226	323	79	402
Apostle Islands NL	162,871	17,673	1,575	19,247	384	65	448
Appomattox Court House NHP	178,748	8,503	817	9,320	171	31	203
Arches NP	928,795	96,789	576	97,365	2,345	30	2,375
Arkansas Post NM	43,137	1,436	299	1,735	29	14	43
Arlington House, R. E. Lee Mem	518,515	32,065	774	32,839	602	30	632
Assateague Island NS	2,011,438	132,336	2,883	135,219	2,662	112	2,774
Aztec Ruins NM	38,709	1,202	957	2,160	24	38	62
Badlands NP	845,734	20,285	2,222	22,507	436	107	544
Bandelier NM	207,656	9,000	2,662	11,663	181	111	292
Bent's Old Fort NHS	25,001	833	573	1,405	17	30	47
Bering Land Bridge Npres	1,019	207	182	388	3	5	9
Big Bend NP	362,512	15,388	2,936	18,324	307	145	452
Big Cypress Npres	813,790	96,895	4,203	101,098	1,386	133	1,519
Big Hole NB	54,818	1,825	0	1,825	36	0	36
Big South Fork NRR	675,928	24,548	1,712	26,260	489	74	563
Big Thicket NPres	93,634	6,162	1,775	7,937	124	85	209
Bighorn Canyon NRA	178,533	4,706	1,860	6,566	94	74	168
Biscayne NP	686,062	45,219	2,367	47,586	801	76	877
Black Canyon of the Gunnison NP	160,185	7,367	600	7,967	147	30	177
Blue Ridge Parkway	16,309,307	313,509	9,557	323,066	6,305	352	6,657
Bluestone NSR	46,942	1,784	46	1,830	36	2	37
Booker T. Washington NM	19,990	951	523	1,474	19	18	37
Boston African American NHS	280,279	17,333	467	17,799	326	18	344
Boston NHP	2,232,495	77,681	5,845	83,525	1,459	174	1,633
Brown V. Board of Education NHS	16,950	806	663	1,469	15	23	38
Bryce Canyon NP	1,043,321	88,847	1,955	90,802	1,771	104	1,876
Buck Island Reef NM	46,025	3,026	138	3,164	60	7	67
Buffalo National River	1,405,802	38,522	2,527	41,049	768	136	904
Cabrillo NM	705,331	43,618	1,181	44,799	819	41	860

**Table A4. Spending and Economic Impacts of National Parks on Local Economies, 2008.**

Park Unit	2008 Recreation Visits	Spending (\$000's)			Jobs Impacts		
		Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non-local Visitors	From NPS Payroll	Total Jobs
Canaveral NS	994,453	65,488	1,970	67,458	1,317	73	1,390
Cane River Creole NHP	24,587	1,170	396	1,566	23	21	45
Canyon de Chelly NM	835,860	38,941	1,083	40,024	783	43	827
Canyonlands NP	436,715	35,043	3,152	38,195	699	167	865
Cape Cod NS	4,644,235	138,906	4,210	143,116	2,769	191	2,961
Cape Hatteras NS	2,146,392	103,030	3,723	106,753	2,054	189	2,243
Cape Krusenstern NM	1,575	392	0	392	7	0	7
Cape Lookout NS	486,899	34,378	1,267	35,645	685	60	745
Capitol Reef NP	604,811	27,842	1,141	28,983	555	52	607
Capulin Volcano NM	45,178	1,236	300	1,536	26	15	41
Carl Sandburg Home NHS	21,233	1,010	627	1,637	20	23	43
Carlsbad Caverns NP	400,381	21,710	3,522	25,232	437	141	578
Casa Grande Ruins NM	73,763	2,065	421	2,486	41	20	61
Castillo de San Marcos NM	618,769	38,265	1,804	40,069	719	67	786
Castle Clinton NM	3,727,030	46,052	315	46,366	865	10	875
Catoctin Mountain Park	466,926	22,273	1,801	24,074	448	69	517
Cedar Breaks NM	538,016	17,916	248	18,164	357	12	369
Chaco Culture NHP	37,180	947	1,208	2,155	19	43	62
Chamizal NMem	197,767	12,230	1,218	13,448	230	41	271
Channel Islands NP	332,177	28,267	4,127	32,394	531	132	663
Charles Pinckney NHS	44,072	2,096	314	2,410	42	11	54
Chattahoochee River NRA	2,826,171	54,097	1,963	56,060	1,016	63	1,079
Chesapeake & Ohio Canal NHP	3,111,468	25,947	5,286	31,233	566	188	754
Chickamauga & Chattanooga NMP	993,535	47,265	1,731	48,996	951	63	1,014
Chickasaw NRA	1,230,609	14,224	1,816	16,040	276	91	366
Chiricahua NM	56,557	2,707	905	3,612	54	33	88
Christiansted NHS	105,136	3,501	333	3,834	70	17	87
City of Rocks NRES	85,893	5,658	19	5,676	114	2	116
Clara Barton NHS	9,007	557	329	886	10	14	24
Colonial NHP	3,332,039	46,409	3,539	49,948	1,076	121	1,197
Colorado NM	390,972	18,623	844	19,467	375	35	410
Congaree NP	104,913	2,518	666	3,184	61	26	87
Coronado Nmem	390,972	13,036	452	13,488	260	20	280
Cowpens NB	235,176	11,187	375	11,562	225	17	242
Crater Lake NP	415,686	31,281	3,409	34,690	736	131	867
Craters of the Moon NM	227,179	6,747	605	7,352	107	26	133
Cumberland Gap NHP	843,893	40,141	1,938	42,079	807	78	885
Cumberland Island NS	82,812	5,403	1,367	6,770	109	46	155
Curecanti NRA	1,007,444	37,467	1,994	39,461	754	74	827
Cuyahoga Valley NP	2,828,233	42,778	7,453	50,230	804	246	1,050
Dayton Aviation Heritage NHP	53,292	2,614	1,089	3,703	62	37	99

**Table A4. Spending and Economic Impacts of National Parks on Local Economies, 2008.**

Park Unit	2008 Recreation Visits	Spending (\$000's)			Jobs Impacts		
		Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non- local Visitors	From NPS Payroll	Total Jobs
De Soto Nmem	265,944	16,446	318	16,765	309	12	321
Death Valley NP	871,938	42,676	3,915	46,591	851	180	1,031
Delaware Water Gap NRA	5,127,074	98,391	6,218	104,609	1,979	200	2,179
Denali NP & Pres	432,309	43,828	8,802	52,630	739	300	1,039
Devils Postpile NM	134,005	4,467	210	4,677	89	11	100
Devils Tower NM	336,303	11,219	532	11,751	224	25	249
Dinosaur NM	201,724	6,333	1,432	7,765	126	68	195
Dry Tortugas NP	63,947	5,442	620	6,062	102	23	125
Edgar Allan Poe NHS	12,961	802	301	1,103	15	10	25
Edison NHS	8,027	496	1,460	1,956	9	44	54
Effigy Mounds NM	68,696	3,864	615	4,479	78	32	111
Eisenhower NHS	70,757	4,457	687	5,145	114	23	137
El Malpais NM	115,066	4,151	643	4,794	83	30	113
El Morro NM	45,178	1,512	390	1,902	30	22	52
Eleanor Roosevelt NHS	53,632	582	163	745	12	13	25
Eugene O'Neill NHS	2,544	157	267	425	3	9	12
Everglades NP	822,118	82,566	15,521	98,088	1,551	482	2,033
Federal Hall NMem	212,564	13,145	240	13,385	247	11	258
Fire Island NS	604,577	30,953	2,644	33,597	623	93	716
First Ladies NHS	9,770	604	26	630	12	2	14
Flight 93 NMEM	136,091	6,474	0	6,474	129	0	129
Florissant Fossil Beds NM	56,988	2,711	543	3,254	55	21	76
Ford's Theatre NHS	335,865	10,274	762	11,036	193	24	217
Fort Bowie NHS	10,095	480	213	693	10	8	18
Fort Caroline NMem	279,984	17,314	1,360	18,674	325	46	372
Fort Davis NHS	49,290	1,641	571	2,213	33	26	59
Fort Donelson NB	208,631	6,947	518	7,465	139	25	163
Fort Frederica NM	248,093	11,802	420	12,222	237	15	252
Fort Laramie NHS	48,297	1,608	632	2,240	32	32	64
Fort Larned NHS	21,483	715	450	1,165	14	22	36
Fort Matanzas NM	813,131	50,285	71	50,356	945	2	946
Fort McHenry NM & HS	598,050	36,984	1,270	38,254	695	46	741
Fort Necessity NB	127,672	3,664	640	4,304	73	26	99
Fort Point NHS	1,390,187	85,970	421	86,391	1,615	13	1,628
Fort Pulaski NM	352,636	16,775	744	17,519	337	31	368
Fort Raleigh NHS	311,751	10,381	165	10,546	207	8	215
Fort Scott NHS	25,322	843	610	1,453	17	29	46
Fort Smith NHS	75,174	3,576	514	4,090	72	19	91
Fort Stanwix NM	71,263	2,533	497	3,031	60	24	84
Fort Sumter NM	744,971	15,555	1,385	16,940	292	51	344
Fort Union NM	9,171	201	416	617	4	24	28

**Table A4. Spending and Economic Impacts of National Parks on Local Economies, 2008.**

Park Unit	Spending (\$000's)			Jobs Impacts			
	2008 Recreation Visits	Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non-local Visitors	From NPS Payroll	Total Jobs
Fort Union Trading Post NHS	12,405	841	340	1,181	16	17	33
Fort Vancouver NHS	894,417	42,547	1,115	43,663	856	42	898
Fort Washington Park	484,202	14,811	0	14,811	278	0	278
Fossil Butte NM	17,727	590	288	878	12	13	25
Franklin Delano Roosevelt Memorial	2,622,806	80,227	0	80,227	1,507	0	1,507
Frederick Douglass NHS	37,852	1,158	343	1,500	22	15	36
Frederick Law Olmsted NHS	2,969	184	1,131	1,315	3	35	38
Fredericksburg & Spotsylvania NMP	473,841	22,540	2,317	24,857	453	79	532
Friendship Hill NHS	30,623	1,894	344	2,237	36	11	46
Gates of the Arctic NP & Pres	11,397	1,765	801	2,567	30	41	71
Gateway NRA	9,431,021	67,179	16,249	83,428	1,262	532	1,794
Gauley River NRA	112,262	4,162	244	4,406	84	9	93
General Grant NMem	91,436	5,654	301	5,956	106	11	117
George Rogers Clark NHP	113,688	5,408	502	5,910	109	19	127
George Washington Birthplace NM	99,975	1,475	849	2,324	28	35	62
George Washington Carver NM	40,407	1,922	515	2,437	39	23	61
George Washington Memorial Pkwy	7,009,630	4,198	5,553	9,752	79	196	275
Gettysburg NMP	1,455,951	90,489	4,082	94,571	2,307	122	2,429
Gila Cliff Dwellings NM	38,987	1,016	109	1,125	20	5	25
Glacier Bay NP & Pres	418,911	3,053	2,739	5,792	51	106	158
Glacier NP	1,808,027	89,713	10,265	99,978	1,804	410	2,214
Glen Canyon NRA	1,947,507	131,873	7,056	138,929	2,416	251	2,667
Golden Gate NRA	14,554,750	107,605	12,841	120,446	2,021	418	2,439
Golden Spike NHS	39,968	1,933	485	2,417	35	18	53
Governors Island NM	205,010	17,555	620	18,175	330	19	349
Grand Canyon NP	4,425,314	422,679	21,063	443,742	10,760	810	11,570
Grand Portage NM	77,323	8,752	433	9,185	174	21	195
Grand Teton NP	2,485,987	252,771	8,869	261,640	3,680	358	4,038
Grant-Kohrs Ranch NHS	16,633	554	546	1,100	11	26	37
Great Basin NP	69,235	3,163	1,280	4,443	63	60	124
Great Sand Dunes NM	273,903	9,147	1,000	10,147	182	46	228
Great Smoky Mountains NP	9,044,010	775,617	14,213	789,830	14,569	507	15,076
Greenbelt Park	164,103	10,191	649	10,840	191	22	214
Guadalupe Mountains NP	163,709	10,743	1,484	12,226	216	56	272
Guilford Courthouse NMP	354,077	16,843	460	17,304	339	18	356
Gulf Islands NS	2,054,201	33,310	4,234	37,545	670	161	831
Hagerman Fossil Beds NM	23,163	630	348	977	13	18	30
Haleakala NP	1,185,068	78,023	3,345	81,368	1,569	129	1,698
Hamilton Grange NMem	690	43	28	71	1	4	5

**Table A4. Spending and Economic Impacts of National Parks on Local Economies, 2008.**

Park Unit	2008 Recreation Visits	Spending (\$000's)			Jobs Impacts		
		Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non- local Visitors	From NPS Payroll	Total Jobs
Hampton NHS	35,260	2,180	797	2,977	41	31	72
Harpers Ferry NHP	254,162	9,333	4,029	13,362	203	157	361
Harry S Truman NHS	30,848	1,908	782	2,690	36	28	64
Hawaii Volcanoes NP	1,270,538	85,705	5,735	91,441	1,724	217	1,941
Herbert Hoover NHS	142,656	6,786	710	7,496	136	27	163
Home of Franklin D. Roosevelt N	124,073	2,279	784	3,064	45	32	78
Homestead National Monument of America	71,314	2,375	490	2,864	47	25	72
Hopewell Culture NHP	28,130	937	480	1,417	19	24	42
Hopewell Furnace NHS	49,328	2,347	912	3,258	47	31	78
Horseshoe Bend NMP	50,719	2,413	439	2,851	49	16	65
Hot Springs NP	1,238,147	81,546	2,940	84,486	1,640	120	1,760
Hovenweep NM	25,411	1,212	287	1,499	24	11	35
Hubbell Trading Post NHS	61,955	2,947	513	3,460	59	17	76
Independence NHP	4,076,638	137,036	11,155	148,190	2,574	347	2,921
Indiana Dunes NL	1,833,596	38,712	4,100	42,812	772	177	948
Isle Royale NP	14,038	1,804	1,915	3,719	36	87	123
James A. Garfield NHS	27,289	1,688	193	1,881	32	8	40
Jean Lafitte NHP & PRES Jefferson National Expansion Memorial	339,821	16,165	2,745	18,910	325	107	432
Jewel Cave NM	1,954,810	71,237	7,130	78,368	1,338	262	1,600
Jewel Cave NM	100,481	4,780	665	5,444	96	30	126
Jimmy Carter NHS	82,417	2,744	496	3,240	55	23	78
John D Rockefeller Jr. Mem Pkwy	1,099,060	5,892	273	6,165	118	9	128
John Day Fossil Beds NM	112,578	5,087	642	5,729	94	30	124
John Fitzgerald Kennedy NHS	10,090	624	240	864	12	8	20
John Muir NHS	28,770	1,779	670	2,449	33	21	54
Johnstown Flood Nmem	135,308	6,967	365	7,332	181	14	194
Joshua Tree NP	1,392,446	32,506	4,667	37,173	602	168	770
Kalaupapa NHP	60,934	2,899	1,789	4,688	58	60	119
Kaloko-Honokohau NHP	104,835	4,987	1,142	6,129	100	43	144
Katmai NP & Pres/Aniakchak	82,000	16,860	1,523	18,383	284	57	342
Kenai Fjords NP	272,190	8,541	1,840	10,381	144	67	211
Kennesaw Mountain NBP	1,415,917	36,805	731	37,536	691	23	714
Kings Mountain NMP	254,997	7,982	576	8,557	150	24	173
Klondike Gold Rush NHP Alaska	935,940	24,356	1,310	25,667	411	53	464
Klondike Gold Rush NHP Seattle	58,389	3,611	370	3,980	68	14	82
Knife River Indian Villages NHS	24,798	826	336	1,161	16	16	33
Kobuk Valley NP	1,565	381	0	381	6	0	6
Korean War Veterans Memorial	3,654,976	111,799	0	111,799	2,100	0	2,100
Lake Chelan NRA	25,139	1,196	0	1,196	24	0	24
Lake Clark NP & Pres	6,802	1,459	1,427	2,886	25	48	72

**Table A4. Spending and Economic Impacts of National Parks on Local Economies, 2008.**

Park Unit	2008 Recreation Visits	Spending (\$000's)			Jobs Impacts		
		Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non-local Visitors	From NPS Payroll	Total Jobs
Lake Mead NRA	7,601,863	239,423	9,388	248,811	4,774	456	5,230
Lake Meredith NRA	875,280	32,282	1,537	33,819	649	71	720
Lake Roosevelt NRA	1,337,024	35,658	2,019	37,677	711	94	805
Lassen Volcanic NP	377,361	14,641	3,510	18,152	275	121	396
Lava Beds NM	120,076	4,150	1,432	5,582	59	55	114
LBJ Memorial Grove on the Potomac	411,164	25,427	28	25,454	478	4	481
Lewis & Clark NHP	230,057	10,944	873	11,816	220	36	256
Lincoln Boyhood NMem	147,123	6,999	549	7,548	141	22	163
Lincoln Home NHS	335,473	17,491	1,670	19,161	455	68	522
Lincoln Memorial	4,678,861	143,118	0	143,118	2,688	0	2,688
Little Bighorn Battlefield NM	282,233	9,398	560	9,958	187	27	215
Little River Canyon NPRES	197,693	9,115	491	9,607	182	25	207
Little Rock Central High School	42,302	2,012	409	2,421	40	15	56
Longfellow NHS	59,827	2,846	612	3,458	57	21	78
Lowell NHP	574,410	35,522	5,177	40,699	667	166	833
Lyndon B. Johnson NHP	93,204	5,764	2,364	8,128	108	86	194
Maggie L Walker NHS	7,367	95	336	431	2	13	15
Mammoth Cave NP	446,174	28,519	3,672	32,191	569	216	785
Manassas NBP	594,992	7,837	1,598	9,435	147	47	195
Manzanar NHS	78,468	7,817	551	8,368	145	26	171
Marsh-Billings Rockefeller NHP	37,121	1,766	1,000	2,766	36	36	72
Martin Luther King Jr NHS	658,873	40,745	1,694	42,439	765	56	821
Martin Van Buren NHS	21,216	374	470	844	7	20	28
Mary McLeod Bethune Council House NHS	17,635	539	407	946	10	16	26
Mesa Verde NP	551,446	40,391	4,990	45,381	812	198	1,011
Minute Man NHP	1,067,578	66,020	1,687	67,707	1,240	57	1,297
Minuteman Missile NHS	30,615	1,019	0	1,019	20	0	20
Missouri National Recreational River	162,086	7,474	366	7,840	149	14	163
Mojave Npres	618,285	11,775	2,858	14,633	237	93	330
Monocacy NB	31,276	2,129	1,118	3,247	26	39	65
Montezuma Castle NM	603,755	28,720	1,039	29,760	578	41	619
Moore's Creek NB	44,820	1,490	239	1,729	30	11	40
Morristown NHP	277,203	13,186	1,285	14,472	265	44	309
Mount Rainier NP	1,163,227	33,308	8,577	41,886	700	334	1,034
Mount Rushmore Nmem	1,789,328	56,984	3,064	60,048	1,146	119	1,265
Muir Woods NM	838,292	51,840	529	52,369	974	18	992
Natchez NHP	232,470	11,059	697	11,755	222	28	251
Natchez Trace Parkway	5,747,235	31,834	6,163	37,997	640	230	870
National Capital Parks Central	2,559,653	78,295	12,377	90,672	1,471	417	1,887

**Table A4. Spending and Economic Impacts of National Parks on Local Economies, 2008.**

Park Unit	2008 Recreation Visits	Spending (\$000's)			Jobs Impacts		
		Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non-local Visitors	From NPS Payroll	Total Jobs
National Capital Parks East	1,296,990	39,673	6,939	46,611	745	231	976
Natural Bridges NM	91,838	4,379	269	4,649	88	10	98
Navajo NM	74,143	3,528	532	4,060	71	22	93
New Bedford Whaling NHP	281,512	17,409	402	17,811	327	14	341
New Orleans Jazz NHP	66,726	3,174	287	3,461	64	11	75
New River Gorge NR	1,212,854	45,745	4,289	50,033	852	158	1,011
Nez Perce NHP	207,250	6,901	1,067	7,968	138	50	188
Nicodemus NHS	2,434	109	125	234	3	6	9
Ninety Six NHS	57,304	2,726	256	2,982	55	11	66
Niobrara NSR	70,270	3,240	216	3,456	65	10	75
Noatak Npres	2,147	457	0	457	8	0	8
North Cascades NP	18,725	1,137	5,553	6,689	23	211	234
Obed Wild and Scenic River	192,154	7,326	377	7,703	147	14	161
Ocmulgee NM	102,631	4,882	549	5,431	98	21	120
Olympic NP	3,081,451	103,554	8,547	112,101	2,191	323	2,513
Oregon Caves NM	73,774	3,347	753	4,100	67	30	97
Organ Pipe Cactus NM	340,290	16,214	1,596	17,810	326	54	380
Ozark National Scenic Riverways	1,243,507	49,401	3,969	53,370	994	151	1,145
Padre Island NS	635,925	41,735	2,390	44,125	839	91	931
Palo Alto Battlefield NHS	45,026	1,499	320	1,819	30	15	45
Pea Ridge NMP	68,464	3,257	733	3,989	66	35	101
Pecos NHP	32,701	704	724	1,428	14	34	48
Pennsylvania Avenue NHS	239,785	7,335	0	7,335	138	0	138
Perry's Victory & Int. Peace Mem	157,337	5,243	475	5,718	105	23	127
Petersburg NB	154,003	7,326	1,789	9,115	147	62	210
Petrified Forest NP	543,714	35,813	2,220	38,033	720	77	797
Petroglyph NM	116,620	4,063	1,096	5,158	76	41	117
Pictured Rocks NL	398,774	16,661	1,075	17,736	374	46	420
Pinnacles NM	166,988	2,610	1,513	4,123	52	68	120
Pipe Spring NM	47,418	2,256	556	2,812	45	21	67
Pipestone NM	80,137	3,442	342	3,785	69	19	87
Piscataway Park	324,394	9,923	290	10,213	186	10	196
Point Reyes NS	2,248,203	85,824	5,976	91,800	1,612	195	1,807
President's Park	1,178,845	36,059	0	36,059	677	0	677
Prince William Forest Park	345,361	14,823	1,959	16,782	278	73	351
Pu'uhonua o Honaunau NHP	414,667	19,726	933	20,658	397	36	433
Puukohola Heiau NHS	92,584	4,404	716	5,120	89	27	116
Rainbow Bridge NM	95,567	4,546	64	4,610	91	3	95
Redwood NP	396,899	18,698	5,276	23,974	376	194	571
Richmond NBP	120,823	7,919	1,511	9,430	159	56	216
Rio Grande Wild and Scenic River	1,606	146	74	219	3	4	7

**Table A4. Spending and Economic Impacts of National Parks on Local Economies, 2008.**

Park Unit	2008 Recreation Visits	Spending (\$000's)			Jobs Impacts		
		Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non- local Visitors	From NPS Payroll	Total Jobs
Rock Creek Park	2,076,466	63,515	3,367	66,882	1,193	117	1,310
Rocky Mountain NP	2,757,390	226,849	8,371	235,220	4,523	409	4,932
Roger Williams Nmem	46,154	2,854	258	3,113	54	10	64
Ross Lake NRA	253,333	7,328	0	7,328	146	0	146
Russell Cave NM	36,375	1,730	201	1,931	35	8	43
Sagamore Hill NHS	53,772	3,325	1,004	4,329	62	36	98
Saguaro NP	699,137	16,657	2,591	19,248	335	110	445
Saint Croix NSR	523,595	14,209	1,699	15,908	283	77	360
Saint Paul's Church NHS	14,538	899	1	900	17	2	19
Saint-Gaudens NHS	29,819	1,060	728	1,788	23	26	49
Salem Maritime NHS	856,935	52,993	1,579	54,572	995	54	1,050
Salinas Pueblo Missions NM	31,248	793	634	1,427	16	37	52
San Antonio Missions NHP	1,303,212	43,807	2,166	45,973	823	76	899
San Francisco Maritime NHP	4,086,211	60,363	4,798	65,161	1,134	135	1,269
San Juan Island NHP	255,492	15,800	543	16,343	297	19	316
San Juan NHS	1,135,577	54,019	2,601	56,621	1,086	125	1,211
Santa Monica Mountains NRA	419,374	11,443	5,036	16,479	215	171	386
Saratoga NHP	88,834	2,958	1,125	4,083	59	39	98
Saugus Iron Works NHS	12,433	769	524	1,293	14	17	32
Scotts Bluff NM	111,849	3,028	541	3,569	61	22	83
Sequoia NP/ Kings Canyon NP	1,158,758	81,149	14,087	95,236	1,779	522	2,301
Shenandoah NP	1,075,878	58,681	6,258	64,939	1,170	304	1,474
Shiloh NMP	357,340	11,899	836	12,735	237	43	280
Sitka NHP	241,407	4,821	834	5,655	81	35	117
Sleeping Bear Dunes NL	1,008,135	24,297	2,339	26,636	484	108	592
Springfield Armory NHS	17,358	1,073	794	1,867	20	24	44
Statue of Liberty NM	3,555,244	133,821	7,306	141,128	2,514	239	2,752
Steamtown NHS	71,123	2,368	2,202	4,570	47	89	137
Stones River NB	198,918	9,462	825	10,288	190	34	225
Sunset Crater Volcano NM	209,399	9,961	0	9,961	200	0	200
Tallgrass Prairie NPres	20,075	926	414	1,340	18	21	39
Thaddeus Kosciuszko NMem	3,918	242	101	343	5	5	10
Theod. Roosevelt Birthplace NHS	18,590	1,150	161	1,310	22	6	27
Theod. Roosevelt Inaugural NHS	834	52	2	53	1	1	2
Theodore Roosevelt Island	109,156	6,750	43	6,793	127	1	128
Theodore Roosevelt NP	516,804	23,806	1,233	25,038	475	67	541
Thomas Jefferson Memorial	2,363,263	72,288	0	72,288	1,358	0	1,358
Thomas Stone NHS	5,720	354	230	583	7	10	17
Timpanogos Cave NM	123,682	7,649	939	8,587	144	49	193
Timucuan Ecol. & Historic Pres	1,038,888	42,358	0	42,358	796	0	796
Tonto NM	63,553	3,023	570	3,594	61	21	82



**Table A4. Spending and Economic Impacts of National Parks on Local Economies, 2008.**

Park Unit	2008 Recreation Visits	Spending (\$000's)			Jobs Impacts		
		Non-local Visitor Spending	NPS Payroll Spending	Total Spending	From Non- local Visitors	From NPS Payroll	Total Jobs
Tumacacori NHP	45,079	1,501	583	2,084	30	26	56
Tuskegee Airmen NHS	50,331	2,394	309	2,703	48	17	65
Tuskegee Institute NHS	52,027	2,475	416	2,891	50	16	66
Tuzigoot NM	102,811	4,891	42	4,933	98	2	100
Ulysses S. Grant NHS	45,959	2,842	634	3,476	53	26	80
Upper Delaware SRR	284,347	7,564	1,222	8,786	151	48	199
USS Arizona Memorial	1,407,879	47,326	1,582	48,908	889	57	946
Valley Forge NHP	1,275,871	33,485	3,747	37,232	766	117	883
Vanderbilt Mansion NHS	360,334	3,126	764	3,891	62	32	94
Vicksburg NMP	555,109	26,406	1,554	27,960	531	63	594
Vietnam Veterans Memorial	4,243,573	129,803	0	129,803	2,438	0	2,438
Virgin Islands NP	469,034	59,180	2,063	61,243	1,414	103	1,517
Voyageurs NP	221,585	10,373	1,995	12,368	207	88	295
Walnut Canyon NM	101,833	4,844	0	4,844	97	0	97
War in the Pacific NHP	187,005	6,227	0	6,227	124	0	124
Washington Monument	671,031	27,448	0	27,448	548	0	548
Washita Battlefield NHS	14,579	548	255	804	11	14	25
Weir Farm NHS	18,522	1,145	624	1,770	22	21	42
Whiskeytown-Shasta-Trinity NRA	676,281	25,134	3,094	28,229	506	125	631
White House	519,011	15,876	5,568	21,443	298	188	487
White Sands NM	438,511	15,445	673	16,118	308	34	342
Whitman Mission NHS	53,356	1,777	378	2,155	35	18	53
William Howard Taft NHS	16,968	1,049	418	1,467	20	14	34
Wilson's Creek NB	120,670	5,740	1,250	6,990	115	46	161
Wind Cave NP	573,433	37,761	2,383	40,144	759	98	858
Wolf Trap National Park for the Performing Arts	487,197	30,129	2,650	32,778	566	101	667
Women's Rights NHP	23,093	491	580	1,071	10	25	34
World War II Memorial	4,153,749	127,056	0	127,056	2,387	0	2,387
Wrangell-St Elias NP & Pres	65,693	2,981	2,456	5,437	50	94	145
Wright Brothers NMEM	527,721	17,572	291	17,863	350	15	365
Wupatki NM	239,157	11,377	2,000	13,376	229	72	301
Yellowstone NP	3,066,580	344,015	23,924	367,939	6,293	885	7,178
Yosemite NP	3,431,514	289,987	21,069	311,056	4,880	1,111	5,990
Yukon-Charley Rivers Npres	4,942	638	750	1,388	11	38	48
Zion NP	2,690,154	139,660	6,438	146,098	2,986	267	3,253

Notes: Non-local visitors do not live within roughly a 50-mile radius of the park. Total spending is the sum of non-local visitor spending and payroll spending. Jobs include part-time and full-time jobs, with seasonal jobs adjusted to an annual basis. Total job impacts include NPS jobs, induced effects of NPS salaries, and the direct and secondary effects of non-local visitor spending in the local region. A handful of parks with no payroll-related jobs report jobs and payroll under a broader unit.

**Table A-5. Impacts of NPS Visitor Spending and Payroll on Local Economies by State, 2008.**

<b>State</b>	<b>Recreation Visits</b>	<b>Non-local Visitor Spending (\$000's)</b>	<b>Jobs from Non-local Visitor Spending</b>	<b>Payroll-related Jobs</b>	<b>Total Jobs</b>
Alabama	789,451	20,356	408	111	619
Alaska	2,477,897	109,739	1,850	1,247	3,110
American Samoa				43	43
Arizona	10,981,071	692,046	16,145	1,558	18,302
Arkansas	2,873,026	130,349	2,615	340	3,158
California	34,028,858	1,012,479	18,808	4,890	27,971
Colorado	5,383,786	348,607	6,968	2,149	9,461
Connecticut	18,522	1,145	22	21	44
District of Columbia	33,165,410	962,550	18,179	6,140	22,001
Florida	7,937,737	485,261	8,753	1,035	10,686
Georgia	6,425,910	202,200	3,890	787	5,433
Guam	187,005	6,227	124		133
Hawaii	4,536,505	243,069	4,826	572	5,714
Idaho	543,485	19,935	371	187	577
Illinois	335,473	17,491	455	68	531
Indiana	2,094,407	51,119	1,021	218	1,581
Iowa	211,352	10,650	215	59	288
Kansas	86,264	3,400	67	100	172
Kentucky	1,504,597	74,453	1,491	348	1,940
Louisiana	431,134	20,509	412	139	581
Maine	2,075,857	155,608	3,130	217	3,393
Maryland	3,544,992	165,434	3,209	429	3,645
Massachusetts	10,281,657	426,296	8,171	863	10,072
Michigan	1,420,947	42,762	894	273	1,273
Minnesota	640,843	29,672	592	213	836
Mississippi	5,898,917	71,260	1,433	316	2,810
Missouri	3,436,201	133,051	2,575	536	3,436
Montana	4,090,668	290,193	5,513	954	6,602
Nebraska	265,858	9,425	189	142	351
Nevada	5,770,632	182,731	3,643	420	4,678
New Hampshire	29,819	1,060	23	26	51
New Jersey	5,811,657	96,976	1,932	337	2,869
New Mexico	1,556,586	61,980	1,238	615	1,902
New York	16,913,720	322,518	6,127	1,198	9,669
North Carolina	17,984,028	720,352	14,005	763	15,542
North Dakota	554,007	25,472	507	100	634
Ohio	3,121,019	54,912	1,052	354	1,733
Oklahoma	1,245,188	14,773	286	105	464
Oregon	832,095	50,659	1,118	227	1,389
Pennsylvania	9,189,257	327,962	7,051	1,539	9,221
Puerto Rico	1,135,577	54,019	1,086	125	1,290

**Table A-5. Impacts of NPS Visitor Spending and Payroll on Local Economies by State, 2008.**

State	Recreation Visits	Non-local Visitor Spending (\$000's)	Jobs from Non-local Visitor Spending	Payroll-related Jobs	Total Jobs
Rhode Island	46,154	2,854	54	10	67
South Carolina	1,441,433	42,064	825	143	1,051
South Dakota	3,501,677	128,303	2,608	369	3,103
Tennessee	7,440,364	503,831	9,552	519	10,584
Texas	5,804,179	222,151	4,374	750	5,564
Utah	8,451,252	548,251	11,340	971	12,441
Vermont	37,121	1,766	36	36	74
Virgin Islands	620,195	65,706	1,544	145	1,697
Virginia	22,542,952	485,737	9,738	1,433	12,515
Washington	7,140,553	245,915	5,050	1,059	6,549
West Virginia	1,812,908	62,580	1,209	595	1,912
Wisconsin	424,669	24,777	525	117	669
Wyoming	5,800,925	451,940	7,375	906	8,455
<b>Total</b>	<b>274,875,795</b>	<b>10,434,575</b>	<b>204,625</b>	<b>36,816</b>	<b>258,888</b>

Notes: Payroll-related jobs include NPS jobs and the induced effects of the NPS payroll on the local economy, covering parks with visit counts (Table A-2), as well as administrative units and parks without visit counts (Table A-3). Total job impacts include those supported by non-local visitor spending and the NPS payroll. For 20 parks with property in more than one state, activity is allocated using the proportions in Table A-7.

**Table A-6. Impacts of NPS Visitor Spending and Payroll on Local Economies by Region, 2008.**

Region	Visits (000's)	Non-local Spending (\$Millions)	Jobs from Non-local Visitor Spending	Payroll-related Jobs	Total Jobs
Alaska	2,478	110	1,850	1,247	3,110
Harpers Ferry				257	257
Intermountain	40,861	2,548	51,614	7,895	61,189
Midwest	18,956	661	13,302	2,885	17,749
National Capital	45,324	1,177	22,282	2,512	23,105
Northeast	53,889	1,714	34,147	5,370	44,790
Pacific West	54,994	1,823	35,169	7,511	48,605
Southeast	58,373	2,402	46,261	4,573	55,518
Washington Office				4,565	4,565
<b>Total</b>	<b>274,876</b>	<b>10,435</b>	<b>204,625</b>	<b>36,816</b>	<b>258,888</b>

Notes: Payroll-related jobs include NPS jobs and the induced effects of the NPS payroll on the local economy, covering parks with visit counts (Table A-2), as well as administrative units and parks without visit counts (Table A-3). Total job impacts include those supported by non-local visitor spending and the NPS payroll.

<b>Table A-7. Allocations to States for Multi-state Parks.</b>		
<b>Park</b>	<b>State</b>	<b>Share</b>
Assateague Island NS	MD	33%
Assateague Island NS	VA	67%
Bighorn Canyon NRA	WY	46%
Bighorn Canyon NRA	MT	54%
Big South Fork NRRRA	KY	41%
Big South Fork NRRRA	TN	59%
Blue Ridge Parkway	VA	38%
Blue Ridge Parkway	NC	62%
Chickamauga & Chattanooga NMP	GA	50%
Chickamauga & Chattanooga NMP	TN	50%
Chesapeake & Ohio Canal NHP	WV	6%
Chesapeake & Ohio Canal NHP	MD	9%
Chesapeake & Ohio Canal NHP	DC	85%
Cumberland Gap NHP	KY	93%
Cumberland Gap NHP	VA	7%
Delaware Water Gap NRA	PA	29%
Delaware Water Gap NRA	NJ	71%
Dinosaur NM	UT	26%
Dinosaur NM	CO	74%
Gateway NRA	NJ	20%
Gateway NRA	NY	80%
Glen Canyon NRA	AZ	8%
Glen Canyon NRA	UT	92%
Great Smoky Mountains NP	NC	44%
Great Smoky Mountains NP	TN	56%
Gulf Islands Nat Seashore	MS	25%
Gulf Islands Nat Seashore	FL	75%
Hovenweep NM	CO	44%
Hovenweep NM	UT	56%
Lake Mead NRA	AZ	25%
Lake Mead NRA	NV	75%
Natchez Trace Parkway	AL	7%
Natchez Trace Parkway	TN	13%
Natchez Trace Parkway	MS	80%
National Capital Parks East	MD	10%
National Capital Parks East	DC	90%
Saint Croix Nat Scenic River	MN	50%
Saint Croix Nat Scenic River	WI	50%
Upper Delaware SRR	NY	50%
Upper Delaware SRR	PA	50%
Yellowstone NP	WY	49%
Yellowstone NP	MT	51%

