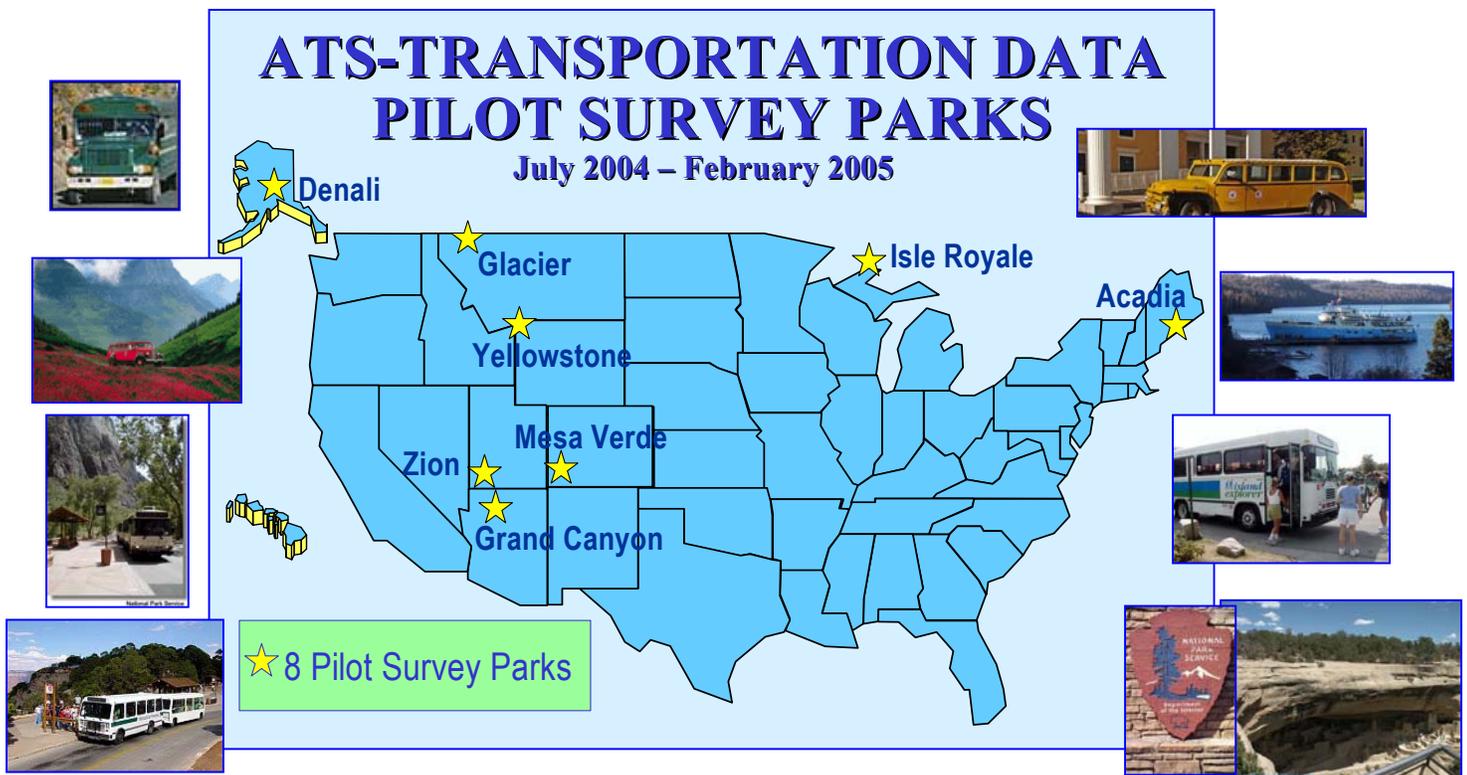




# NATIONAL PARK SERVICE'S ALTERNATIVE TRANSPORTATION PROGRAM: PILOT DATA COLLECTION SUMMARY AND FUTURE RECOMMENDATIONS



MARCH 2006

## ***PREFACE***

This document is the culmination of three years effort of the Alternative Transportation Program (ATP) Data Needs Working Group. This group was composed of dedicated staff from the National Park Service (NPS), the Federal Highway Federal Lands Division (FHWA-FLD), the Federal Transit Administration Office of Planning and Environment (FTA), and the United States DOT John A. Volpe National Transportation Systems Center's (Volpe Center) Office of Surface Transportation Programs.

Funding support this endeavor was provided by the NPS Park Facility Management Division – Transportation Program and the FTA Office of Planning and Environment (Sean Libberton, FTA Project Sponsor). Within the NPS Transportation Program, both the Alternative Transportation Section (Lou DeLorme, Team Leader) and the Park Roads and Parkway Section (Mark Hartsoe, Team Leader) provided staff and financial support for the development of this document and the background work.

The author of this document is David W. Jackson, Transportation Industry Analyst with the US DOT Volpe Center Planning and Policy Analysis Division (RTV-3B). The Pilot Data Collection Program could have not been possible without the extensive coordination, guidance, and outreach by Susan Grosser, the NPS ATP Data Collection Project Lead. The author is grateful to the time and assistance she has provided to this effort.

# **NPS PILOT DATA COLLECTION SUMMARY AND FUTURE RECOMMENDATIONS**

## **March 2006**

### **PURPOSE**

In the summer of 2002 an interagency, multi-disciplinary team was formed to develop a plan for defining and collecting performance data needed for better managing the National Park Service's (NPS) Alternative Transportation Program (ATP). Members of the ATP Data Needs Task Force included transportation planners, highway engineers and landscape architects from the NPS ATP and Denver Service Center offices, individual parks, the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA) and the U.S. DOT Volpe National Transportation Systems Center (Volpe Center).

The group was formed as an outgrowth of a traffic data workshop held earlier by FHWA-Eastern Federal Lands – Highway Department (EFLHD) and in response to a General Accountability Office (GAO) report reviewing the ATP. The GAO report called for the use of more detailed data to justify project need and cost effectiveness in the planning phase of ATP projects and for the evaluation of implemented projects in meeting ATP goals and program performance measures.

### **APPROACH**

At meetings over the next year, a list of the most critical performance variables was developed and prioritized by the Task Force, and a group of eight pilot (and four alternative back-up) parks was identified. To lessen the burden of data collection on park staff and to avoid duplication of effort, data sources were examined across the NPS and elsewhere in order to collect as much existing and relevant information as possible. It was decided that the Task Force, supported by the Volpe Center, would assemble this available information first and then send it to the relevant parks for their review and validation. Information gathered was stored in a separate (Access) database developed by the Volpe Center, which was to serve as the basis for the transportation performance measures system.

### **METHODOLOGY**

A Data Collection and Analysis Plan was drafted in the summer of 2003, which summarized ATP program goals (based on the Alternative Transportation Program Plan, March 2002), performance measures and their associated data variables. The report contained a comprehensive inventory of existing databases available, both in and out of the Park Service. It identified potential data gaps (for the purposes of this effort) in the existing information, and recommended steps for filling these gaps and collecting needed data.

The Volpe staff subsequently assembled the individual packages from the validated existing information for each of the eight pilot parks. This effort was fairly time intensive, and continued into the beginning of 2004.

In order to further lessen the (data collection) burden on park staff, it was decided to develop instructional materials which would help clarify the information being sought and to first beta test this package at one pilot park (Grand Canyon). Subsequent adjustments were made, and packages were sent to the remaining seven pilot parks. Contact persons were identified for each park to assist in the review and collection of needed data. Park contacts could enter data and return the updated information on the disk provided or via e-mail, edit direct to the hard copy provided and return, or transmit any updates or new data through phone interviews. It took approximately nine months to compile the data packets, make initial contact with a park representative, transmit the packets, have the park representative review the information and return it, and cross-check the information through follow-up phone conversations.

### NPS GOALS

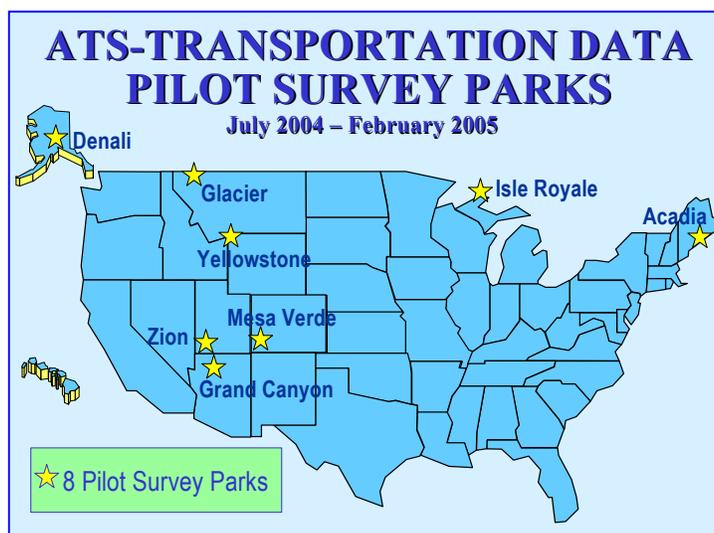
All variables and performance measures developed for the ATP data collection effort and performance reviews are to be linked to at least one of these five National Park Service goals:

1. Protect natural and cultural resources
2. Provide for visitor recreation and experience
3. Improve efficiency of park transportation and operations
4. Protect health, safety and security
5. Promote partnerships or cooperative planning outside park boundaries

### DATA SET DEVELOPMENT AND PILOT REVIEWS FINDINGS

The following steps were performed in assembling the ATP performance measures database:

1. Determine performance goals/ measures and associated data variables (the 13 variables are listed in **Table 1: ATP Key Variables**)
2. Select pilot parks (**Image 1: Eight Pilot Survey Parks** to the right)
3. Collect and prepare data for distribution to eight pilot parks.
  - o Data was assembled for the majority of the **13** variables at the eight pilot parks.
  - o One variable - *Annual number of ATP system violations* - was temporarily dropped prior to the park data validation phase due to extremely limited documentation



**Image I: Eight Pilot Survey Parks**

and the reality that these violations are fairly rare. Because some of the Park representatives were able to provide some accident information, this variable was reinstated, but still may be indirectly identified through other variables or via other methods if consistency and current collection of accident data remain major issues.

4. Develop instructional material (why collect, what data, additional explanatory information)
5. Modify ATP database, instructional material, and data collection method based upon beta test pilot park interview results
6. Initiate discussion with pilot park representatives (park contacts are listed in **Table 5: Pilot Park Representatives' Contact Information**)
7. Conduct data collection / telephone interviews with pilot park representatives
8. Summarize and analyze telephone interviews (summaries of the variables and performance measures are listed in **Table 2: Most Recent Data Collected** and **Table 4: Performance Measure Output from the Data Collected**)
  - o During the interviews, it became evident that data, variable and performance definitions are not consistent across all parks.
  - o The information gathered can be used to establish a baseline for evaluating future program/project performance and for the development of specific performance measures.
  - o The method of collecting data using documentation and telephone interviews is considered time-consuming, but necessary to ensure accuracy and to cross-check current NPS-developed data (such as parking locations). (**Table 3: Sources of Data** lists the resources used.) One park representative suggested an electronic format where park representatives could have the opportunity to directly insert or update ATP data related to transportation services provided at their NPS park unit.
9. Initiate development of ATP website

**TABLE 1. ATP Key Variables and Details**

VARIABLE	DEFINITION	DATA DETAILS	PERFORMANCE MEASURES
1. Traffic counts	Number of vehicles entering the park or crossing a designated location within the park over a defined period.	Vehicles entering area Vehicles exiting area	<ul style="list-style-type: none"> <li>➢ Vehicle density</li> <li>➢ Persons per vehicle entering park</li> </ul>
2. Paved / total parking spaces	Area (in square footage) within the park where vehicles are parked (locations where vehicles are not typically in motion or idling).	(Avg. 320 sq. feet per space) Refer to FMSS Asset Nos. 1300 (Paved parking areas) & 1350 (Unpaved parking area) Unauthorized – undesignated	<ul style="list-style-type: none"> <li>➢ Ratio of parking demand to total parking available</li> <li>➢ Share of parking in unendorsed (unauthorized) areas</li> <li>➢ # of days parking exceeds capacity</li> </ul>
3. Annual ATP ridership/ boardings	Number of passengers entering an ATP vehicle over a defined period	Passengers entering ATP vehicle Passengers exiting same	<ul style="list-style-type: none"> <li>➢ Ratio of ATP ridership to visitation</li> </ul>
4. Total # ATP vehicles	Number of park- or privately-owned vehicles available to transport park visitors/passengers to designated locations under the ATP service provided at the park unit	Road tested and safety approved ATP vehicles – does not include any unsafe, un-permitted vehicle Refer to FMSS Asset No. 8999 (Fleet)	<ul style="list-style-type: none"> <li>➢ Share of ATP vehicles that are “park-like”</li> <li>➢ Share of ATP vehicles with interpretive / educational service</li> </ul>
5. ATP annual operations &	Total gross costs to provide for annual ATP service at contracted (or	All outlays necessary to run ATP service – but not new vehicle	<ul style="list-style-type: none"> <li>➢ Operating cost per ATP boardings</li> </ul>

VARIABLE	DEFINITION	DATA DETAILS	PERFORMANCE MEASURES
maintenance costs	pre-designated) levels	purchase unless an annually budgeted <b>operating expense</b>	➤ ATP vehicle life cycle costs (capital + O&M costs)
6. Total # of transportation-related accidents [incidents]	Total annual number of congestion causing or safety/security events created as a result of an occurrence involving a vehicle (including bike or pedestrian) or the roadway or waterway used for travel	<i>Accident</i> = vehicle collision / impact (single, multiple, human contact) <i>[Incident</i> = breakdown, road blockage, safety or congestion causing event]	➤ Ratio of transportation accidents [incidents] to total visitation level
7. Annual # of ATP violations	Total number of accidents or incidents or safety/operational citations accumulated by the ATP service provider over a defined 12-month period	<i>Accident &amp; Incident Safety / operational citation</i> = speeding, operator impairment, operation of unsafe vehicle, etc.	➤ Ratio of ATP-related incidents to all park transportation incidents ➤ Ratio of ATP-related incidents to all park incidents
8. Types of ATP partners	The number and type (public or private sector) of non-NPS entities sharing in the expenses of operating ATP service at the park unit	Participants in ATP service listed as: 1) local community (public); 2) state (public); 3) regional government (public); 4) local business (private)	➤ Mix of public and private partnering ➤ Distribution of support among partners
9. # of ATP “park like” vehicles	The total number of ATP vehicles in operation that display a unique historic, cultural, or artistic character	<i>Historic</i> = representation of classic vehicles <i>Cultural</i> = use of vehicle to enhance feeling of park culture <i>Artistic</i> = specific coloring of vehicle beyond basic logos	➤ Share of ATP vehicles that are “park-like” ➤ Total number (%) of visitors receiving unique transportation services
10. # of ATP vehicles with interpretive / educational services	The total number of ATP vehicles in operation that include a operator that provides <u>accurate</u> park educational information to the passengers, or an automated visitor information system operates during the ATP route	Vehicles with automated information systems Trained ATP operators	➤ Share of ATP vehicles with interpretive / educational service ➤ Total number (%) of visitors receiving educational information
11. Persons per vehicle (PPV)	Average number of persons within each vehicle entering the park unit	Number of visitors Number of visitors arriving by vehicle Type / classification of vehicle Number of visitors arriving by vehicle type	➤ Persons per vehicle entering a park
12. ATP Vehicle Miles (total miles OR service miles)	Total number of miles traveled by an ATP vehicle during a designated period. A subset is the total number of miles of a vehicle to provide actual service (service miles).	Total service miles preferred to total vehicle miles traveled (VMT)	➤ Cost per mile or per service mile ➤ Passengers per mile or per service mile ➤ ATP accidents per mile
13. Total # of park visitors	Number of individuals that are not park employees, entering the park in any manner or crossing a designated location within the park over a defined period	Individuals entering area Individuals exiting area Number of park employees	➤ Ratio of visitation to paved parking area ➤ Persons per vehicle ➤ ATP ridership rate (to park visitation) ➤ Ratio of accidents to total visitation level

**TABLE 2. Most Recent Data Collected Via Pilot Park Interviews and Other Resources**

Cross Reference to Table 1 Variable #	VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data primarily South Rim only)	Isle Royale National Park	Mesa Verde National Park	Yellowstone National Park	Zion National Park
1	Traffic Counts: 2004 VMT	8,329,000	? Regulated: 10,512 round trips beyond Mile 15 during 3½ month peak season	24,155,000	36,923,000	# for marine traffic?; minimal surface vehicle traffic	2003 VMT: 7,743,000	2003 VMT: 208,149,000	7,357,000
1	Traffic Counts: 2004 Annual Count	616,850	?	162,045	1,336,505	?	2003 Annual Count: 334,705	2003 Annual Count: 643,130	648,970
1	Traffic Counts: 2004 Max AADT	1690	?	1385	3745	?	2003 AADT: 917	2003 AADT: 1762	1778
1	Traffic Counts: 2004 Max SADT	3622	?	3471	4291	?	2003 SADT: 1494	2003 SADT: 4282	2579
2	Total Parking Spaces	1,860	4,132	7,747	6,996	352	2,905	15,776	2338
2	ATP-Linked Spaces	1,831	2,435	6,600	2,965	352	385	7,402	581
3	ATP Ridership or ATP System Boardings	2005: 332,569 2004: ? 2003: 340,336	2004: 86,709 2003: 82,977	2004: ? 2003: 27,811	2004: 4,499,424 2003: 4,364,776	? Ranger III: 126 pass capacity; Queen III: 100 pass; 2 boats: 78 pass ; Island shuttle boats & tours	2001: 51,000	?	2004: 2,585,217 2003: 2,417,477
4	# of ATP Vehicles	19 (30-passenger buses)	110	33 (17-passenger Red Jammer buses)	60	11	11 (3 trams + trailers; 5 sightseeing buses)	10	30 buses (32 passengers) + 15 bus extension trailers (30 passengers)
4	# of ADA Vehicles	19	≈ 80 (20 per hour)	None	≈ 30	11	?	≈ 10	45 (30 buses + 15 trailers)

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Cross Reference to Table 1 Variable #	VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data primarily South Rim only)	Isle Royale National Park	Mesa Verde National Park	Yellowstone National Park	Zion National Park
5	Fare per Ride	Free (included in park entrance fee, donations accepted)	One-way Shuttle Bus: \$18-\$34.50 / (Bus Tours: \$49.50-\$74)	Shuttle: \$8-\$40	Free (included in park entrance fee)	\$50-one way + \$4/day	Free (inc. in park entrance fee)	?	Free (included in park entrance fee)
5	# of Park Days	365	138	117	365	199	365	365	365
5	Approximate # of Days of ATP Operation	110	111	117	365	170	100	365	214
5	ATP Operations and Maintenance Costs (annual costs)	2003: \$732,581	Does not collect Data (concessions)	?	2004: \$2,728,457	?	2004: ≈ \$165,000 (\$15,000 / vehicle)	2002: \$953,822 (Xanterra bus?)	2004: \$2,279,245
6	Total Park Accidents [# Incidents] (Last Year Available)	2000: 55	2002: 10	2000: 59	2000: 128	?	1997: 41	2002: 429	1996: 68
7	ATP Violations [# Incidents] (Last Year Available)	2004: 1 incident with minor passenger injury; 0 accidents	?	?	?	?	?	?	2004: 0 violations
8	ATP Partners (Public & Private)	<u>PUBLIC</u> : NPS, USDOT, Maine DOT, Mount Desert Island towns, Mount Desert Island League of Towns <u>PRIVATE</u> : local businesses, voluntary donations, Friends of Acadia, and L.L. Bean	None	<u>PUBLIC</u> : Glacier National Park, NPS FTA, MT DOT, DOI <u>PRIVATE</u> : Ford Motor Co., Nat'l Trust of Historic Preserv'tn., White Motor Co., Nat'l Park Fdtn, Glacier Fund, Clean Fuels USA, Glacier Fndtn, GPI, Eagle Transit, Suntours	?	?	<u>PRIVATE</u> : Aramark	<u>PRIVATE</u> : The Yellowstone Park Foundation	<u>PUBLIC</u> : Zion National Park, Town of Springdale, Utah DOT, FHWA, <u>PRIVATE</u> : Zion Natural History Assoc, local business community, Zion Canyon Visitors Bureau, Zion Park concessionaires

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Cross Reference to Table 1 Variable #	VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data primarily South Rim only)	Isle Royale National Park	Mesa Verde National Park	Yellowstone National Park	Zion National Park
9	# of "Park Like" ATP Vehicles (i.e. fuel type, historical / cultural vehicles)	19 (17 Propane; 2 diesel)	110 Diesel	33 Propane and Gas Red Jammer Buses	48 TOTAL (3 = Electric; 14 = CNG; 7 = LNG; 16 = Diesel; 8 = Propane)	?	?	10 Bio-Diesel (all park-owned buses use this fuel)	30 Propane (all fleet)
10	Interpretive / educational Services	None (only on concession buses)	5 -Trial Basis (video with 6 TV monitors)	33 Red Jammer Buses	?	?	?	?	None (done by private tours)
11	Persons per Vehicle	3.6	? (Park rep has info)	12.6	3.2	?	1.3	4.7	4.1
12	Total ATP Vehicle Miles	?	? (Park rep has info)	?	2004: 684,005	?	?	?	2004=503,681
12	Service ATP Vehicle Miles	2003 Miles (Hours): 240,037 (12,390)	? Same as Total ATP Miles	?	?	?	?	?	Same as Total ATP miles
13	Recreation Visitors (2004)	2,207,847	404,236	2,033,933	4,326,234	17,276	446,811	2,868,317	2,677,342

"?" Unknown data (Green Shading)

**Table 3: Sources of Data**

Cross Reference to Table 1 Variable #	Variable	Years of Data	Source of Data
1	Traffic Counts	2003 & 2004	<b>NPS 2004 Traffic Data Report</b> , prepared for FHWA EFLHD by Applied Research, Inc., June 2005 – (1) 2004 VMT: Table 4, p.1-29; (2) Annual Count: AADT * # days Park opened; (3) 2004 AADT: 1 centralized point OR sum of cumulative points/entrances; (4) SADT: Same points as AADT
2	Total number of Parking Spaces	2004	<b>NPS Facilities Management Software System (FMSS)</b> list of parking designated areas, supplemented by review of park unit website review and detailed examination of park maps; Lists cross-check by NPS Park representatives
3	Annual ATP Ridership/ATP Systems Boardings	2000-2004	NPS Park representatives interviews and memos; Park unit websites
4	Total number of ATP vehicles / ADA Vehicles	1997 & 2004	1999 <b>Inventory and Assessment of NPS Visitor Transportation Services</b> , by Parsons Brinckerhoff; Jan. 2004 <b>NPS Rolling Stock (Fleet) Equipment Inventory</b> ; NPS Park representatives interviews; Park unit websites
5	ATP annual operations & maintenance costs	2000-2004	NPS Park representatives interviews, correspondence; Park unit websites; <b>2004 Harpers Ferry Technical Report</b> (by HNTB – from 1999 VTS Inventory); Sept. 2003 NPS Transportation Fee Memo (from Jennifer Getz-WASO)
5	Number of Park Days (open) / Approx. number of Days of ATP Operation	2004	Park Websites, ATP Studies
5	Fares & Other ATP Financial Counts	2005	Park Website, ATP Studies
6	Total # of transportation-related accidents	1996-2002	<b>CIRS</b> & miscellaneous accident count park systems (1989-2004) – compiled in Sept. 2004 list by Nancy Arwood, Kathy Clark VIA Linda Dean, Systems Integration Group, Inc
7	Annual # of ATP system violations	2002-2004	Potential ATP accidents reviewed looking at Body Type & Make reported in <b>CIRS</b> (2005 list compiled by Linda Dean); also Direct Contact and Park Estimates
8	Types of ATP partners at each park (Public/ Private)	2004-2005	Park Website, ATP studies, Park representative interviews
9	Number of ATP vehicles that are “park like”	2004	Jan. 2004 <b>NPS Rolling Stock (Fleet) Equipment Inventory</b> ; Park Website, Park representative interviews, & 1999 PB <b>VTS Report</b>
10	Number of ATP vehicles with formal interpretive/ educational services	2004	Park Website & Park representative interviews
11	Persons per vehicle	2003 & 2004	Primarily Park Website + Federal Lands Highway Traffic Count Program – [Total (annual / seasonal) Recreational Visitors / Total (annual / seasonal) Vehicles – PERFORMANCE MEASURE]; PUSO Website
12	Vehicle Miles – Total and Service Miles	1999-2004	Park Website & Park representative interviews
13	Total number of park visitors -Recreation Visits	2000-2004	<b>NPS Statistical Abstract 2002-2004</b> ; Park Unit websites; NPS STATS: <a href="http://www2.nature.nps.gov/NPstats/dspAnnualVisits.cfm">http://www2.nature.nps.gov/NPstats/dspAnnualVisits.cfm</a>

**TABLE 4. Performance Measure Output from the Data Collected**

<b>PERFORMANCE MEASURE</b> (Measures are for 2004, unless year otherwise noted)	<b>Acadia</b>	<b>Denali</b>	<b>Glacier</b>	<b>Grand Canyon</b> (South Rim Only)	<b>Isle Royale</b>	<b>Mesa Verde</b>	<b>Yellowstone</b>	<b>Zion</b>
1. Vehicle density: vehicles/mile (2004 or 2003 VMT / Total road miles: Paved & Unpaved from 2000 RIP)	65,593	? No VMT	146,181	207,724	? No VMT / No Roads	137,556	581,844	151,879
2. Persons per vehicle traveling in park (PPV = Rec. Visitors / Annual Traffic Count)	3.6	? No Traffic Count	12.6	3.2	? No Traffic Count	1.3	4.7	4.1
3. Visitors Per Parking Space	1,187	98	263	618	49	154	182	1,145
4. Visitors Per Public Parking Space (Public = ATP-Linked Spaces)	1,206	166	308	1,459	49	1,161	388	4,608
5. Visitors Per Public Parking Space Per Day	3.30	1.20	2.63	4.00	0.25	3.18	1.06	12.63
6. Ratio of parking demand to total parking available	?	?	?	?	?	?	?	?
7. Share of parking in unendorsed (unauthorized) areas	?	?	?	?	?	?	?	?
8. Number of (% of total) days parking exceeds capacity	100% (2002)	?	?	?	?	?	?	?
9. ATP ridership rate (ATP Ridership / Rec. Visitors)	13.7%	21.5%	1.7% (2003)	104.0%	? (248% at Ranger III capacity)	11.4%	?	96.6%
10. ATP Riders Per ATP Vehicle Per Service Day	144.9	7.1	7.2 (2003)	205.5	? (22.9 at Ranger III capacity)	46.4	?	268.5
11. Share of ATP vehicles that are “park like”	100%	100%	100%	80%	?	?	100%	100%
12. Total number (or %) of visitors receiving unique transportation services (Ridership Rate / Share of Park Like Vehicles)	13.7%	21.5%	1.7%	83.2%	?	?	?	96.6%
13. Share of ATP vehicles with interpretive / educational service	0%	4.5%	100%	?	?	?	?	0%?
14. Total number (or %) of visitors receiving educational information (Ridership Rate / Share of Educational Vehicles)	0%	4.8%	1.7%	?	?	?	?	0%?
15. Operating cost per ATP rider (standard transit industry number) – Cost per Passenger	\$2.15 (2003)	?	?	\$0.61	?	\$3.24	?	\$0.88
16. ATP vehicle life cycle costs (capital + O&M costs)	?	?	?	?	?	?	?	?

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<b>PERFORMANCE MEASURE</b> (Measures are for 2004, unless year otherwise noted)	<b>Acadia</b>	<b>Denali</b>	<b>Glacier</b>	<b>Grand Canyon</b> (South Rim Only)	<b>Isle Royale</b>	<b>Mesa Verde</b>	<b>Yellowstone</b>	<b>Zion</b>
17. Cost per mile (TM) or per service mile (SM)	\$3.05 (SM-2003)	?	?	\$3.99 (TM)	?	?	?	\$4.53 (TM)
18. Passengers per mile (TM) or per service mile (SM)	1.42 (SM-2003)	?	?	6.58	?	?	?	5.13
19. Transportation accidents per 100,000 Visitors	2.23 (2000)	3.21 (2002)	3.41 (2000)	2.87 (2000)	?	?	14.43 (2002)	?
20. ATP Incidents Per 100,000 Visitors	0.045	0.00	?	?	?	?	0.00	0.00 (04) / 0.122 (03)
21. ATP Accidents Per 100,000 Vehicle Miles	?	?	?	?	?	?	?	0.602 (2003)?
22. Mix of public and private partnering	4 Pub / 5 Priv	No Private	4 Pub / 10 Pr	?	?	1 Pub / 1 Pr	1 Pub / 1 Pr	4 Pub / 4 Pr
23. % of Total ATP Funds from Private Partners	?	?	?	?	?	?	?	?
24. % of Total ATP Funds from Public Partners	?	?	?	?	?	?	?	?

**Table 5. Pilot Park Representatives' Contact Information**

PARK UNIT	CONTACT NAME	POSITION/TITLE	PHONE	ADDRESS	INITIAL CONTACT	FOLLOW-UP
Acadia NP	Len Bobinchock	Deputy Superintendent	(207) 288-8700	Route 233 / PO Box 177, Bar Harbor, ME 46469	August 2004	November 2004
	Paul Murphy	General Manager	(207) 667-5796		November 2004	December 2004
Denali NP	Phyllis Motsko	Concessions Specialists	(907) 683-9554	PO Box 9, Denali Park, AK 99755	September 2004	January & February 2005
Glacier NP	Susan Law	Transportation Scholar	(406) 888-7883	PO Box 128, West Glacier, MT 59936	September 2004	December 2004 & January 2005
Grand Canyon NP	Jim Tuck	Transportation Director	(928) 774-1697	823 North San Francisco St, Flagstaff, AZ 86001	June 2004	July & August 2004
Isle Royale NP	Keith Butler	Chief of Maintenance	(906) 482-0984	(e-mail & phone correspondence, no direct contact)	October 2004	December 2004 & January 2005
Mesa Verde NP	Patricia Trap	Chief of Planning & Professional Services	(970) 529-4465	PO Box 8, Mesa Verde, CO 81330	October 2004	December 2004
	Jonathan Upchurch	Transportation Scholar	(970) 529-5061			January 2005
Yellowstone NP	Doug Madsen	Outdoor Recreation Planner	(307) 344-2017	PO Box 168, YNP, WY 82190	December 2004	January 2005
Zion NP	Jacque Lavelle	Concessions Management Specialist	(435) 772-0145	Springdale, UT 84767	October 2004	December 2004 & January 2005

### ADDITIONAL PRODUCTS:

As previously mentioned, a variety of data collection, review and validation steps were taken to produce the data packages sent to the parks for their completion. These data development actions resulted in a number of intermediate products, which are listed below. Most of these products are included in the Appendix. All of these products will be made available on the ATP-Transportation Data Website.

NPS Transportation - ATP Glossary - This glossary, along with the Vehicle and Facility Visual Dictionaries, was developed to ensure consistency in the interpretation of specific terms by the NPS personnel. Many parks have provided assorted transportation and operational data, but it has been difficult to compare because they are not using consistent terminology or calculations. This product makes it possible to employ consistent terms.

Vehicle Visual Dictionary - This short document contains definitions and illustrative photos of a variety of vehicles that could provide alternative transportation. This document includes multi-occupancy and single-occupant vehicles, as well as non-motorized options.

Facility Visual Dictionary - This short document contains definitions and illustrative photos of a variety of facilities used by the alternative transportation services, including administrative and maintenance facilities.

ATP Vehicle and Facility Specification Template - This template was developed to ensure consistency with the FMSS protocols and to enable the direct entry of ATP fleet data into FMSS.

Ridership Performance Measure Brochure - This brochure covered one of many key performance measures that could be applied to ATP. The brochure was developed to define the concept, its application and the benefits of the use of ridership metrics.

Operating Costs Performance Measure Brochure - This brochure covered one of many key performance measures that could be applied to ATP. The brochure was developed to define the concept, its application and the benefits of the use of operating cost metrics.

ATP Vehicle List - This list focuses only on passenger transportation; service vehicles that are used for ATP operations and maintenance will be added at a later period. The initial vehicle list was developed based on a review of prior ATP vehicle surveys ([1] *Inventory and Assessment of NPS Visitor Transportation Services* – a 1999 report and database developed by Parsons Brinckerhoff for the NPS, and [2] the *NPS Inventory of Alternative Transportation Systems Survey* – an October 2001 survey and associated database of 64 ATP systems developed by the USDOT Volpe Center for the 2002 NPS-FHWA Vehicle Design Conference). The vehicle list has subsequently been expanded, edited, and updated based on extensive data contained in the January 2004 NPS fleet equipments records, relevant FMSS entries, and assorted information contained on individual park websites (e.g., Grand Canyon National Park website contains a significant amount of information on its ATP services and equipment).

Parking List – This list was initiated from parking designated areas and associated information obtained and modified from the NPS Facilities Management Software System (FMSS or Maximo™). The list was then supplemented through parking, overlook, and related area information located on each park unit’s website and an extensive review of park maps to determine any additional (or potential) parking areas that were not included in the FMSS or website search. The actual number of spaces was derived from an average of one space per every 320 square feet of parking area (increased if RV or bus parking is evident). These figures are only estimates based on area and primary lot use and not exact parking space counts.

This exhaustive exercise attempts to understand which lots, when filled, would increase pressure on the ATP system or the overall transportation network. The park representatives were asked to check to see if all parking lots or parking areas, including consistently used *unendorsed* (undesigned) roadside parking, were listed within the inventory, if the square footage appears close, and if the usage (parking type) is accurate. For example, some park hotel parking areas are tightly regulated for guests only and may not be relevant for understanding the overall traffic flow within the park unit.

Gathering and formatting this data has proven extremely time-consuming because it requires four phases:

- *Phase I:* Obtain hardcopy parking data for each park (individual requests for each park) from Facility Management Software System (FMSS and Maximo™)
- *Phase II:* Transpose the data onto an Excel spreadsheet manually
- *Phase III:* Compare parking data with park maps and area information, especially looking for “established” unendorsed parking sites at trailheads, near destination points, etc.
- *Phase IV:* Format the data appropriately by organizing and segmenting the data based on newly created use categories, as well as development of formulas that enable manipulation of the extensive amount of data being gathered

NPS ATP-Transportation Database and Performance Website - This website allows the NPS ATP-Transportation database, that has been under development since late 2003, to be accessible for a wider range of key individuals and eventually the general public. The initial website will include specific vehicle and ATP usage reports taken from the ATP database (developed in Access) and other relevant transportation-data support documents (glossaries, reports, etc.) created by the Volpe Center. Due to on-going data collection from a select number of the 388 national park service units, the database will be constantly updated. It would be expected that the database presented on the website be updated at least every quarter (every three months). The website and its contents will eventually be migrated to an appropriate page on the NPS website and the ATP-Transportation operations and vehicle database linked to the Facility Management Software System (FMSS or Maximo™) database.

When the time is deemed appropriate, migration to an NPS site should be a simplified process because all materials posted on this current website conforms to the NPS’ visual and IT requirements. The specialized fonts, layout, and other requirements can be found in the NPS document: *Communicating the National Park Service Mission* (September 2001). Also, when materials on the website are made accessible to the public, all *public* materials must be made 508 compliant.

During its early development, the ATP-Transportation Data Website will be housed on an existing Volpe Center server. In the short term, the website should not be available to the general public. Initial access should be by invitation with a link provided and password access required. Reports from the database will be made available, but because the database is still in development, access to the database itself will be severely restricted to a limited group of NPS, FHWA, and FTA personnel and Volpe Center staff. This short-term stage will enable limited access (by invitation) in April 2006.

## VARIABLE COLLECTION AND PERFORMANCE MEASURE OUTPUT

From a review of the results contained in **Tables 2** and **4**, it is possible to draw some conclusions about the availability of data and application of performance measures. Clearly, the availability of data represents a problem, as noted by the existence of blank boxes in the tables (refer to “?” boxes), but not as great as initially envisioned. Based on this observation, it might be advisable to drop from future consideration those variables for which insufficient data exists. Accident data appears to be the most difficult to obtain, followed by ATP vehicle mileage and ATP operating cost information. At this time, it appears that variable 7: *ATP Violations*, is the only data point with limited response from the pilot park review. However, two parks (Acadia and Zion) were able to provide some specific information on the safety record of their ATP operations. This indicates that this may be easier to monitor than first thought.

Five variables had a 100% response from all eight parks, two variables had seven parks submit information, and four variables had six parks furnish data current data. In sum, for 11 of the 17 variables (some of the original 13 variables were further broken up into smaller variables) there was a response rate of 75% or better. At least half of the parks failed to respond with current data to five of the variables (park accidents, ATP violations, total ATP vehicle miles, ATP cost, educational services on ATP). The response rate of all variables is provided in **Table 6**.

**TABLE 6. Availability of ATP Key Variables**

Variable	Number of 8 Pilot Parks Providing:				
	Current Data (2003 or 2004)	Historic Data (pre-2003)	Related Data	Has Data, But Not Provided	No Data Provided
Traffic Counts	6 (75%)		1 (12.5%)		1 (12.5%)
Total Parking Spaces (ATP-Linked Spaces)	8 (100%)				
ATP Ridership / ATP System Boardings	5 (62.5%)	1 (12.5%)	1 (12.5%)		1 (12.5%)
# of ATP Vehicles	8 (100%)				
# of ADA Vehicles	7 (87.5%)				1 (12.5%)
Fare per Ride	7 (87.5%)				1 (12.5%)
# of Park Days	8 (100%)				

Variable	Number of 8 Pilot Parks Providing:				
	Current Data (2003 or 2004)	Historic Data (pre-2003)	Related Data	Has Data, But Not Provided	No Data Provided
Approx. # of Days of ATP Operation	8 (100%)				
ATP Operations and Maintenance Costs	4 (50%)	1 (12.5%)		1 (12.5%)	2 (25%)
Total Park Accidents [Incidents]		7 (87.5%)		1 (12.5%)	
ATP Violations	2 (25%)			2 (25%)	4 (50%)
ATP Partners (Public & Private)	6 (75%)				2 (25%)
# of "Park Like" ATP Vehicles	6 (75%)				2 (25%)
Interpretive / Educational Services	4 (50%)				4 (50%)
Persons per Vehicle	6 (75%)			1 (12.5%)	1 (12.5%)
Total ATP Vehicle Miles or Service Miles	3 (37.5%)			1 (12.5%)	4 (50%)
Recreation Visitors	8 (100%)				

How can the information gathered in **Table 2** be used? At minimum, it can supply a baseline of conditions, which (with the on-going collection of data) could be used for the purpose of comparing some aspects of the ATP service's performance at an individual park over time.

Secondly, with the data available it is possible to calculate values for some of the performance measures. For example, the *ratio of visitation to paved parking* may provide some insight into potential demand for ATP service. The *ATP ridership rate* gives some indication of the level of ATP usage by the park visitors and if route modifications or marketing is needed. Perhaps even more telling if the ATP services are adequate is the *number of rider for each ATP vehicles per service day*. Once computed, park officials and transportation specialists would need to evaluate both the meaning and the usefulness of the information obtained from these calculations for the purpose of measuring performance. **Table 4** displays the performance measures developed from the baseline variables currently gathered and **Table 7** shows the success rate in actually being able to calculate each specific performance measures for each of the pilot parks.

Only nine of the 24 performance measures could be developed for at least 75% of the eight pilot parks. These measures applied to vehicle volumes at the parks, parking, ATP ridership, and public-private partners. Another five performance measures could not be developed for any of the eight parks. These involved parking demand, illegal parking, total system costs, and total partner contributions. In general, based on the current level and type of data collection, financial performance measures, as well as parkwide and ATP accidents and incidents appear to be the most difficult measures to derive. The lack of financial measures may be the most problematic because a basic return on investment response is one of the most standard transit measurements (along with ridership rate).

**TABLE 7. Ability to Develop Performance Measures from Key Variables**

<b>Performance Measure Development by 8 Pilot Parks</b>				
<b>Performance Measure</b>	<b>Developed</b>	<b>Related PM, But Not Exact</b>	<b>Some Variables for PM, Not All</b>	<b>No Variables Located for PM</b>
1. Vehicle density: vehicles/mile	6 (75%)		1 (12.5%)	1 (12.5%)
2. Persons per vehicle (PPV)	6 (75%)		2 (25%)	
3. Visitors Per Parking Space	8 (100%)			
4. Visitors Per Public Parking Space	8 (100%)			
5. Visitors Per Public Parking Space Per Day	8 (100%)			
6. Ratio of Parking Demand to Total Parking Available				8 (100%)
7. Share of parking in Unendorsed (unauthorized) areas				8 (100%)
8. Number of (% of total) days parking exceeds capacity	1 (12.5%)			7 (87.5%)
9. ATP ridership rate (ATP ridership to park visitation)	6 (75%)		1 (12.5%)	1 (12.5%)
10. ATP Riders Per ATP Vehicle Per Service Day	6 (75%)		1 (12.5%)	1 (12.5%)
11. Share of ATP vehicles that are "park like"	6 (75%)		2 (25%)	
12. Share of ATP vehicles with interpretive/educational service	3 (37.5%)		5 (62.5%)	
13. Percent (%) of visitors receiving unique transportation services	3 (37.5%)		5 (62.5%)	
14. Percent (%) of visitors receiving educational info	3 (37.5%)		5 (62.5%)	
15. Operating cost per ATP boardings / per passenger	4 (50%)			4 (50%)
16. ATP vehicle life cycle costs (capital + O&M costs)				8 (100%)
17. Cost per mile (TM) or per service mile (SM)	3 (37.5%)			5 (62.5%)
18. Passengers per mile (TM) or per service mile (SM)	3 (37.5%)			5 (62.5%)
19. Transportation Accidents per 100,000 Visitors	5 (62.5%)			3 (37.5%)
20. ATP Incidents Per 100,000 Visitors	4 (50%)			4 (50%)
21. ATP Accidents per 100,000 Vehicle Miles	1 (12.5%)			7 (87.5%)
22. Mix of public and private partners	6 (75%)			2 (25%)
23. % of Total Funds from Private Partners				8 (100%)
24. % of Total Funds from Public Partners				8 (100%)

## NEXT STEPS / RECOMMENDATIONS

More work must be performed in order for the NPS Facilities Management Division and the individual park units to truly benefit from the data collection and application activities already underway. This section enumerates the future activities that should occur to enable a greater quantitative knowledge regarding the effectiveness of the nationwide ATP program and of the numerous individual ATP services.

1. Develop an accurate and **comprehensive list of ATP in National Park Service**. This information should be summarized by mode, operations ownership, and overall connection to the NPS (i.e., provided by concessionaire, contract, business permit, public transit, etc.). In order to conduct the best transportation and transit service planning and analysis, it is important to understand exactly what ATP and other options are available to the park traveler near and within a park unit. An extensive amount of this task has already been completed. **Tables 9-12** in the Appendix provide extensive lists of the varied types of alternative transportation in and around **all** of the 388 national park units (including national trails, and other related areas). These lists were compiled by Volpe Center staff during the spring and summer of 2005 and should be verified by those individuals actually working at these parks or by the seven NPS regional offices.
2. Expand coordination with NPS STARS officials to determine if there are other more current sources and compilation of **accident/incident reports**. Discuss how to best pull out any ATP-related accident or incidents.
3. Expand coordination with NPS contracting and concessionaire personnel to determine if there are better ways to gather third party ATP **annual operating and maintenance (O&M) costs**. Understand why some parks are able to obtain this information from third party contractors, while other parks do not collect or are unwilling to provide this information. Create a clear message to the NPS park units why the disclosure of (non-proprietary) general O&M costs are essential to determining the efficiency and effectiveness of the alternative transportation provided at each park unit (and the level of efficiency of the national ATP).
4. Expand coordination with NPS contracting and concessionaire personnel to determine if there are better ways to gather **ATP service or total vehicle miles** provided by third parties. Data on ATP vehicle or service miles should also be able to be gathered from the same sources that provides O&M costs.
5. Expand coordination with NPS personnel that monitor the level of **private partner contributions** within the NPS system. Rather than direct conversation with each park representative, there may be a centralized location to gather information on some of the private assistance, including the level of financial commitment to ATP in each park.
6. Develop a method that enables **automatic distribution** from the number of sources that flow into the ATP-Transportation Performance Database, when those assorted and relevant databases are updated. Likewise, this information transfer should automatically notify the relevant source when the Performance Database is updated with new information. At the very least, the USDOT Volpe Center - the current database/website host, should be on any e-mail dissemination notification of an update (e.g., 2005 visitation numbers are now available, modifications to the RIP, etc.).

7. **Expand data collection** from the initial eight pilot parks to other NPS park units where the NPS owns and operates the ATP service, or the NPS owns the vehicles and contracts with a third party to operate the ATP service at that park unit. The specific parks are listed where the next level of data collection should occur, in agreement with **Table 9**:

NPS OWNS & DELIVERS ATP SERVICE

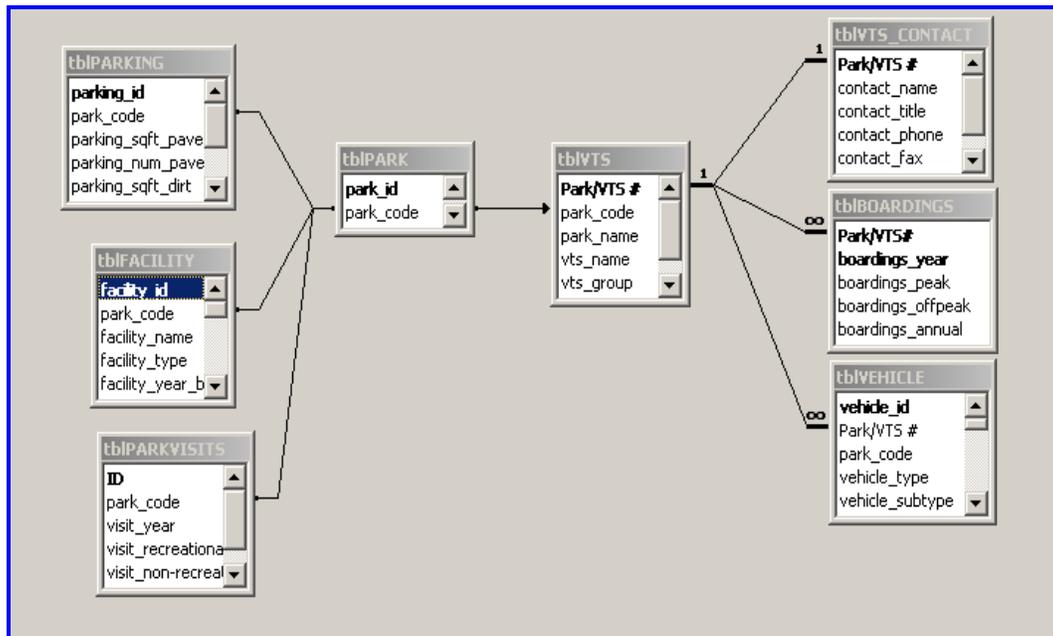
1. Allegheny Portage Railroad National Historic Site (van trip between Allegheny Portage RR and Johnstown Flood sites)
2. Appalachian National Scenic Trail - WEST VIRGINIA (Harpers Ferry-Trailhead shuttle bus)
3. Bent's Old Fort National Historic Site (1/4 mile shuttle van from parking lot to fort)
4. Cape Cod National Seashore (parking lot to beach shuttle bus)
5. Chesapeake & Ohio Canal Nat'l Historical Park (mule-drawn historic canal barge)
6. Colonial National Historical Park, includes: Jamestown Island; Yorktown Nat'l Battlefield & Cemetery; Cape Henry Nat'l Memorial (Historic Triangle shuttle bus and Yorktown trolley)
7. Cumberland Gap National Historical Park (ranger-led shuttle vans to Pinnacle Overlook)
8. Eugene O'Neill National Historic Site (shuttle van & bus from park-and-ride lot to site)
9. Fort Union Trading Post National Historic Site (ADA-compliant ranger shuttle van)
10. Golden Gate National Recreation Area: (Alcatraz Island tram)
11. \*Isle Royal National Park (Ranger III passenger ferry)
12. Johnstown Flood National Memorial (van trip between Allegheny Portage RR and Johnstown Flood sites)
13. Kennesaw Mountain National Battlefield Park (weekend shuttle bus to mountaintop Visitor Center)
14. Keweenaw National Historical Park (cog-rail tramway from Quincy Hoist to Underground Mine)
15. Lowell National Historical Park (historic trolley on rail, canal boats)
16. Lyndon B. Johnson National Historic Park (ranger-guided bus tour at LBJ Ranch)
17. Mammoth Cave National Park (vehicle ferries across Green River; also, concessionaire propane-fueled bus shuttles)
18. Pinnacles National Monument (peak period shuttle bus service from campgrounds and overflow parking areas to trailheads and Visitor Center, with plans for regular shuttle bus route by 2007)

NPS OWNS VEHICLES AND CONTRACTS ATP SERVICE DELIVERY

1. \*Acadia National Park (NPS-owned buses, operated by Downeast Transportation, Inc.)
2. Cuyahoga Valley National Park (scenic rail from Cleveland to Akron, OH along 20-mile Canal Towpath Trail with NPS owning tracks & CVSR operating)
3. Fort Matanzas National Monument (tour boat ferry to fort from Visitor Center)
4. Gettysburg National Military Park & National Cemetery w/Eisenhower NHS (bus tour by NPS partner)
5. Minute Man National Historical Park (Liberty Ride tour bus by NPS partner)
6. Oregon Caves National Monument (bus service 4X day from Grants Pass to Cave Junction & Illinois Valley Visitor Center; also, shuttle bus from Visitor Center to Oregon Caves)
7. Steamtown National Historic Site (historic rail short trip & longer rail excursions)
8. Tallgrass Prairie National Preserve (prairie bus tours with NPS partner)
9. Wolf Trap Farm Park for Performing Arts (Wolf Trap Metro Shuttle Bus Expression with NPS partner)
10. \*Zion National Park (propane-fueled shuttle bus by contractor along Zion Scenic Drive in Zion Canyon & Springdale)

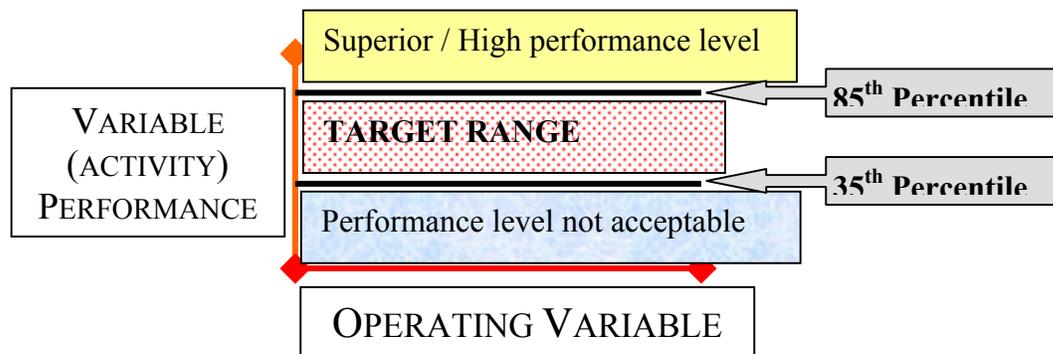
\* One of the 8 Transportation Data Collection Pilot Parks

8. Continue to **review data collection methods** employed in this study to obtain data and to conduct data clarification and confirmation. Determine which methods should be most effective for future data collection efforts. The Pilot Park data review utilized mailing of hard copies and CDs to each park representative. Additional methods can encompass mass non-targeted e-mails to multiple parks apprising them of the data available, an intranet website with input capabilities, or direct phone conversations with park representatives. All processes are rather burdensome and will rely on some input from park staff. It is recommended that the best data collection and clarification method (in addition to staying attuned and connected with other surveys and data collection efforts and inserting their results – see Recommendation #6) is to develop an intra/internet site where the specific data can be collected, displayed, reviewed, and input provided regarding data accuracy. The early aspects of this intra/internet process have been initiated and will be discussed in greater details.
  
9. **Link the ATP-Transportation Data Collection to the NPS Asset Management effort.** The database (and website) already contains extensive vehicle attribute information and selected parking area details. The same general procedure to obtain parking area details from the FMSS could be expanded to include ATP/bus stops, transportation centers, and other ATP facilities. In addition, the same vehicle database from where the ATP service vehicles were taken, also contain NPS-owned (and some contractor-owned) transit support vehicles. The Volpe Center ATP data team should discuss the full extent of the vehicle and facility attributes needed with the NPS Asset Management team. **Image 2** contains a diagram of the proposed data design for the ATP database and associated website. Many of the components needed for the asset management effort are already planned to be included within the ATP-Transportation Database and website. (The prototype website will soon be available at [http://152.122.8.104/npsatp\\_dev/](http://152.122.8.104/npsatp_dev/).)



**Image 2: NPS Transportation Performance Database – Relationship Diagram**

10. Develop an annual (or periodic) **ATP Performance Measure summary report** to the NPS. As more data is collected from a larger number of parks, there will be even more noteworthy information to disseminate. Reporting on relevant ATP and transportation information and analysis could be a semi-regular column in the new NPS *Inside Transportation News E-Newsletter* (December 2005 was the inaugural issue).
11. **Reassess performance measures** being used after coordination efforts have been expanded and additional data has been collected. After a wider range of ATP services have been assessed, the NPS and USDOT should work together to determine what (if any) are the appropriate **performance target ranges (Image 3)** to set for ATP operations.



**Image 3: ATP-Transportation Performance Target Range Concept**

NPS ATP-Transportation Database and Performance Website Recommendations:

The current short-term website activities have been previously discussed (see pages 13-14). The recommendations presented below look at moving the website beyond the prototype stage to one that is reliable, current, useful, interactive, and responsive to the needs of those park planners and transportation officials that require this data and performance analyses.

**Mid-Term Vision of NPS ATP-Transportation Data Website** – In April 2006, the website and limited access capabilities are set up and then reviewed, and approved by federal sponsors. Afterward, the Volpe Center data collection team will work with the asset management team to determine which additional park units (up to 50 parks) should be selected for their park representatives’ reviews of the existing on-line data and feedback on the transportation data shown for their parks. At this stage, much of this information will be easy to access and view in report format. Response by staff from the selected NPS park units should be in a simplified format via e-mail to the Volpe Center Webmaster, by fax, or other method that does not require direct input to the database by those providing feedback.

After this feedback period for those park units identified by both the ATP and transportation management staff and the asset management team, the database should be populated with enough information to be made marginally interactive so the visitor to the site can develop tables showing multiple variables or create their own performance measures. Likewise, during this time, additional reports will be developed and more documents added to the website. Some of the information will be made accessible to the public. This mid-term work should take an

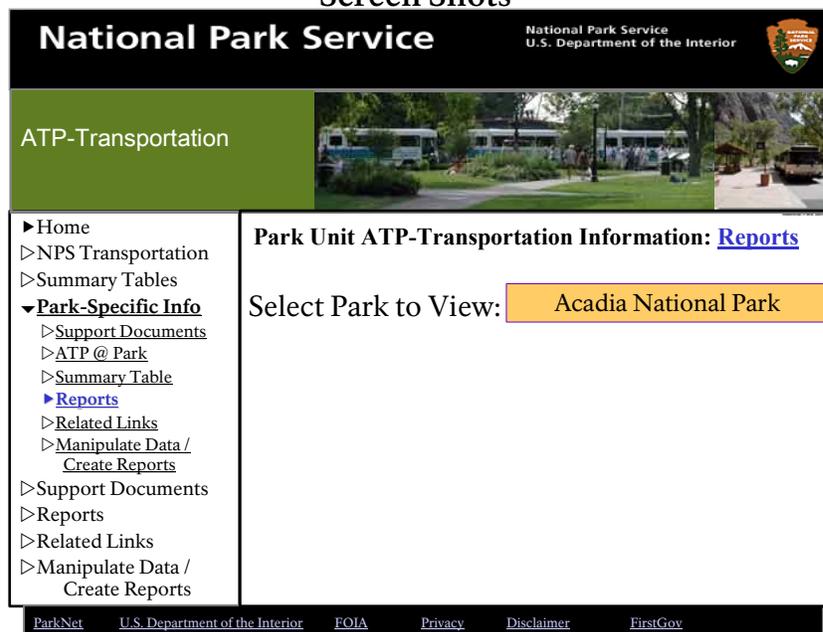
additional six months (December 2006), including a 6-week feedback period and the creation of limited database interactivity after the feedback period. **Images 4** and **5** display a screen shots showing the various levels of information that may be available on this ATP-Transportation Data Website.

**Long-Term Vision of NPS ATP-Transportation Data Website** –After the mid-term period, a larger scale feedback effort will be initiated for all of the park units with some form of alternative transportation (listed in **Tables 9-12** in the Appendices). Feedback will continue to be by an indirect method that does not enter changes directly into the existing database. The Volpe Center team will continue to work with other data gathering efforts being initiated with all NPS park units. A review of the best methods to gather these inputs and manage the operational database will also be merited after the database and website cover all of the NPS-sponsored ATP services. During this period, the database will continue to be updated from data obtained from park units involved in the short and mid-term data collection. Additional reports and documents will continue to be added to the website during this far-range period. While interim products (e.g., reports) will be periodically developed, all activities for this far-range period should be concluded within 15 months of the end of the mid-term period (by March 2008).

**Vision for Linkages & Migration Of Website** - After the far-range activities are completed, the database should be made more interactive and earnest discussions held regarding long-term



**Images 4 & 5: ATP-Transportation Data Website Screen Shots**



linkages and migration of the website to be housed within the NPS servers. Initial linkages of the ATP-Transportation Data Website will be from three NPS transportation homepages:

- (1) **Park Facility Management – Alternative Transportation**  
<http://www.nps.gov/transportation/alt/index.htm>
- (2) **Park Facility Management Division–Park Roads and Parkways**  
<http://www.nps.gov/transportation/roads/roads/history.htm>
- (3) **Park Facility Management –Transportation Program**  
<http://www.nps.gov/transportation/roads/index.htm>

It is desired that the ATP-Transportation database and website will eventually (by mid-2008, if not earlier) be linked to the FMSS that currently has controlled accessed through the NPS Intranet. The FMSS focus is currently on asset inventory and management, not transportation issues. The current restricted access by outside NPS parties (including the FHWA-Federal Lands) and a lack of transportation operations focus are the primary reasons why this transportation database and related website will not be developed or managed as an internal part of the NPS website (and FMSS) for at least the next 18 months.

### Cost of Recommendations

An overall budget of \$150,000 is needed to further develop and expand the database and website in FY2006, approximately \$150,000 for FY2007, and \$100,000 for FY2008. It is desirable that the database updating and website management responsibilities be migrated to the FMSS by FY2009. However, if not, associated ATP-Transportation Database and Website management functions (including data updates) will require up to \$100,000 annually, heavily dependent on the level of support requested.

## APPENDICES

- I. **Table 8: Summary of Interview Results – Comments on Data Availability**
- II. **General List of Sources & Detailed List of Sources for Current and Historic Data**
- III. **Data Packet Cover Letter**
- IV. **ATP Services in the National Park System**
  - A) **TABLE 9: ATP OWNED AND / OR OPERATED BY NPS**
  - B) **TABLE 10: SURFACE ATP / PUBLIC TRANSIT IN NPS PARK UNITS**
  - C) **TABLE II: PUBLIC TRANSIT TO, IN, OR AROUND NPS PARK UNITS**
  - D) **TABLE 12: WATER / AIR ATP OR PUBLIC TRANSIT IN NPS PARK UNITS**

**TABLE 8. Summary of Interview Results (Comments on Data Availability)**

In order to better understand the information shown in **Tables 2**, and **4**, and other data contained in the ATP-Transportation Performance Database, it is important to understand its availability, reliability, and sources. **Table 8** presents a summary of limitations to the availability and reliability of the data, as well as inconsistencies between data listed in the Performance Database and figures compiled by the park representatives. The comments below summarize park representative comments made during the pilot park interviews. As this table displays, much of the data collected were derived from alternative sources other than directly from the park representatives.

VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data for the South Rim Only)	Isle Royale National Park*	Mesa Verde National Park	Yellowstone National Park	Zion National Park
VTS ID	Not Familiar with Variable	Familiar with Variable	Familiar with Variable	Familiar with Variable	Not Familiar with Variable	Not Familiar with Variable	Not Familiar with Variable	Familiar with Variable
Park Alpha Code	ACAD	DENA	GLAC	GRCA	ISRO	MESA	YELL	ZION
Parking	Park collects data, but <b>data &amp; method</b> discrepancies	Park collects data, but there are discrepancies	Concessionaires collects data, but <b>available only to Park</b>	Park collects data, but there are discrepancies	Park collects data, no discrepancies	Law Enforcement collects data and not readily available to park	Park collects data, but there are discrepancies	Park collects data, but <b>data &amp; method</b> discrepancies
# of ATP Vehicles	Park collects data, but <b>data &amp; method</b> discrepancies	Park collects data, but there are discrepancies	Concessionaires collects data, but <b>available only to Park</b>	Park collects data, but there are discrepancies	Park collects data, no discrepancies	Park collects data, but <b>data &amp; method</b> discrepancies	Park collects data, but there are discrepancies	Park collects data, but <b>data</b> discrepancies
Accidents/Incidents	Concessionaires collects data, but <b>available only to Park</b>	Park collects data, but there are discrepancies	Concessionaires collects data, but <b>available only to Park</b>	Park collects data, but there are discrepancies	Park collects data, no discrepancies	Park does not collect data	Park collects data, but there are discrepancies	Park collects data, but <b>data &amp; method</b> discrepancies
Ridership Rate	Concessionaires collects data, but <b>available only to Park</b>	Concessionaires collects data, but <b>available only to Park</b>	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Concessionaires collects data, but <b>available only to Park</b>	Park collects data, no discrepancies	Park does not collect data
System Violations	Concessionaires collects data, but <b>available only to Park</b>	Park collects data, but ATP Database does not have data	Concessionaires collects data, but <b>available only to Park</b>	Park collects data, but ATP Database does not have data	Park collects data, but ATP Database does not have data	Law Enforcement collects data	Park collects data, but ATP Database does not have data	Park collects data, unknown discrepancies b/c ATP Database does not have data
ATP Ridership or ATP System Boardings	Park collects data, but <b>data &amp; method</b> discrepancies	Park collects Ridership data, no data discrepancies	Park collects data, no discrepancies	Park collects Ridership data, no data discrepancies	Park collects data, no discrepancies	Concessionaires collects data, but <b>available only to Park</b>	Park collects Ridership data, no data discrepancies	Park collects data, but <b>data</b> discrepancies

NPS-Alternative Transportation Program: Pilot Data Collection Summary and Future Recommendations

VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data for the South Rim Only)	Isle Royale National Park*	Mesa Verde National Park	Yellowstone National Park	Zion National Park
Cost per Ride	Park does not collect data	Park does not collect data	Park does not collect data	Park does not collect data	Park does not collect data	Park does not collect data	Park does not collect data	Park collects data, unknown discrepancies b/c ATP Database does not have data
Persons per Vehicle	Park does not collect data	Park does not collect data	Park does not collect data	Park does not collect data	Park collects data, no discrepancies	Park does not collect data	Park does not collect data	Park does not collect data
# of Park Days	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies
Approximate # of Days of ATP Operation	Park collects data, but there are discrepancies.	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies
ATP Operations and Maintenance Costs	Park collects data, no discrepancies	Park does not collect data	Concessionaires collect data, but available only to Park	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, but data discrepancies	Park collects data, but there are discrepancies.	Park collects data, but data & method discrepancies
Traffic Counts	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, unknown discrepancies b/c ATP Database does not have data	Park collects data, no discrepancies	Park collects data, no discrepancies	Park does not collect data.	Park collects data, no discrepancies.	Park collects data, no discrepancies
Interpretive/educational Services	Park collects data, but data discrepancies	Park does not collect data.	Park collects data, unknown discrepancies b/c ATP Database does not have data	Park does not collect data.	Park collects data, no discrepancies	Park does not collect data.	Park does not collect data.	Park collects data, but data discrepancies
Total ATP Vehicle Miles	Park collects data, but data & method discrepancies w/ ATP Database	Park collects data & uses "Average Annual Mileage"; no discrepancies, but ATP Data base data only from 1973-1999.	Concessionaires collect data, but available only to Park	Park collects data & uses "Average Annual Mileage"; no discrepancies, but ATP Data base data only from 1973-1999.	Park does not collect data.	Concessionaires collect data, but available only to Park	Park collects data & uses "Average Annual Mileage"; no discrepancies, but ATP Data base data only from 1973-1999.	Park does not collect data.
Service ATP Vehicle Miles	Park collects data, but data & method discrepancies w/ ATP Database	Park does not collect data.	Concessionaires collect data, but available only to Park	Park does not collect data.	Park does not collect data.	Concessionaires collect data, but available only to Park	Park does not collect data.	Park collects data, but data discrepancies w/ ATP Database

NPS-Alternative Transportation Program: Pilot Data Collection Summary and Future Recommendations

VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data for the South Rim Only)	Isle Royale National Park*	Mesa Verde National Park	Yellowstone National Park	Zion National Park
# of "Park Like" ATP Vehicles (i.e. fuel type, historical/cultural vehicles)	Park collects data, but <b>data</b> discrepancies w/ ATP Database	Park does not collect data.	Park collects data, but there are <b>data</b> discrepancies w/ ATP Database	Park does not collect data.	Park does not collect data.		Park does not collect data.	Park collects data, but <b>data</b> discrepancies
# of ADA Vehicles	Park collects data, but <b>data</b> discrepancies w/ ATP Database	Park does not collect data.	Park collects data, but <b>data</b> discrepancies w/ ATP Database	Park does not collect data.	Park does not collect data.	Concessionaires collects data, but available only to Park	Park does not collect data.	Park collects data, but <b>data</b> discrepancies
Recreation Visitors	Park collects data, but <b>data &amp; method</b> discrepancies w/ ATP Database	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies	Park collects data, no discrepancies
ATP Partners	Park collects data, no discrepancies	Park does not collect data.	Park collects data, but <b>data</b> discrepancies	Park does not collect data.	Park collects data, no discrepancies	Park collects data, no discrepancies	Park does not collect data.	Park collects data, no discrepancies

\* Isle Royale data confirmed via Voicemail

## General List of Sources and Detailed List of Sources for Current and Historic Data

In 2005, data from the eight pilot parks were added to the initial data collection of more than 100 NPS units in 2002 and 2003 and captured in the ATP Database. The purpose of the pilot effort was to ensure the accuracy of the existing data and expand the amount of data available. The following sources has provided data for the ATP-Transportation Performance Database:

1. NPS Fleet Inventory – 2004
2. NPS Facilities Inventory – 2004 (from FMSS)
3. NPS Traffic Count Program – 2004, 2000, 1998, 1994 reports
4. 2003 Fleet Equipment Database/ Facilities Management Software System
5. WASO Inventory of Alternative Transportation Systems - 2003
6. Public Transportation Options in Gateway Communities -2003
7. Roadway Inventory Program (RIP) – 2000, 2002 pending
8. Federal Lands Alternative Transportation Systems Study (3039 Study) - 2001
9. NPS ATP Vehicle Survey – 2001
10. National Ferry Database - 2000
11. Inventory & Assessment of NPS Visitor Transportation Services – 1996 data / 1999 report
12. NPS Public Use Statistics Office (PUSO) Website
  - NPS Visitation Statistical Abstract – 2000-2003 Annual Reports
13. NPS Home Website
14. NPS Park Unit Websites
  - Individual Park Data and Studies
15. April 2003 article- 'Acadia National Park ITS Field Operational Test
16. 2003 article-'Partnering for Transportation Success at Acadia National Park'
17. Friends of Acadia Website
18. 2001 Glacier Park Inc. Website
19. 2004 HNTB Harpers Ferry Technical Report
20. October 2003 'Zion Shuttle System Ridership' E-Mail generated from Zion Park representative
21. NPS Servicewide Traffic Accident Reporting System (STARS) – Annual Report
22. October 2003 “Accident Counts” Memo generated from Linda Dean from Systems Integration Group, Inc.
23. September 2003 “Transportation Fee” Memo generated from Park Facility Management
24. NPS Concessions Program – Annual Financial Report (Under Development)

- 25. 2003 discussion with Concessions Management Specialist
- 26. Visitor Experience Resource Protection (VERP) and Other Carrying Capacity Studies
  - Visitor Services Project – Individual Park Studies - Annual
  - Visitor Services Project – Visitor Survey Card - Annual

Detailed List of Sources for Current and Historic Data

Gross Reference to Table 1 Variable #	VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data primarily South Rim only)	Isle Royale National Park*	Mesa Verde National Park	Yellowstone National Park	Zion National Park	
1	Traffic Counts (2004 VMT, 2004 Annual Count; 2004 Max AADT, 2004 Max SADT)	2004 VMT: 8,329,000 Annual Count: 616,850 AADT: 1690 SADT: 3622	? Regulated: 10,512 round trips beyond Mile 15 during 3½ month peak season	2004 VMT: 24,155,000 Annual Count: 162,045 AADT: 1385 SADT: 3471	2004 VMT: 36,923,000 AADT: 3745 SADT: 4291 Annual Count 2004: 1,336,505 2003: 1,301,661 2002: 1,276,495 2001: 1,250,612 2000: 1,384,465 1999: 1,423,188	# for marine traffic?; minimal surface vehicle traffic	2004 2003 VMT: 7,743,000 Ann'l Count: 334,705 AADT: 917 SADT: 1494	2004 2003 VMT: 208,149,000 Annual Count: 643,130 <del>1,607,460</del> (5 entrances/2) AADT: 1762 <del>4404</del> SADT: 4282 <del>7374</del>	2004 VMT: 7,357,000 Annual Count: 648,970 <del>858,480</del> AADT: 1778 <del>2352</del> SADT: 2579 <del>3420</del>	
SOURCE:		NPS 2004 Traffic Data Report, prepared for FHWA EFLHD by Applied Research, Inc., June 2005 – (1) 2004 VMT: Table 4, p.1-29; (2) Annual Count: AADT * # days Park opened; (3) 2004 AADT: 1 centralized point OR sum of cumulative points/entrances; (4) SADT: Same points as AADT								
		AADT / SADT: begin Loop Rd - pp. ACAD2-4	ARTIC, June 2000 (Vol.53, #2), pp146-151; Park rep	AADT / SADT: 2 entrances on Going-To-Sun Rd	AADT / SADT: South & East entrances; An'l Ct: GRCA website	NONE	2003 AADT / SADT: Chapin Mesa Rd – N entrance	2003 AADT / SADT: 5 entrances (N, NE, E, S, W entrances)	AADT / SADT: South & East Entrances	
2	Total Parking Spaces (ATP-Linked Spaces)	1,860 (1,831)	4,132 (2,435)	7,747 (6,600)	6,996 (2,965)	352 (352)	2,905 (385)	15,776 (7,402)	2338 (581)	
SOURCE:		NPS Facilities Management Software System (FMSS) list of parking designated areas, supplemented by review of park unit website review and detailed examination of park maps; Lists cross-check by NPS Park representatives								
3	Ridership Rate	2004: % 2003: 14.0% 2002: 10.8% 2001: 9.6% 2000: 7.7%	2004: 21.5% 2003: 23.1% 2002: 24.7% 2001: 25.2% 2000: 24.8%	2004: 1.7% 2003: 1.5% 2002: 1.5% 2001: 1.5% 2000: 1.3%	2004: 96.3% 2003: 97.8% 2002: 98.2% 2001: 108.4% 2000: 88.3% 1999: 70.4%	?	2001: 9.6% 1996: 7.0%	?	2004: 95.7% 2003: 98.3% 2002: 90.1% 2001: 94.6% 2000: 63.2%	
SOURCE:		ATP Ridership / Total Recreational Visitors (% of all visitors that ride ATP services) – PERFORMANCE MEASURE								

NPS-Alternative Transportation Program: Pilot Data Collection Summary and Future Recommendations

Cross Reference to Table 1 Variable #	VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data primarily South Rim only)	Isle Royale National Park*	Mesa Verde National Park	Yellowstone National Park	Zion National Park	
3	ATP Ridership or ATP System Boardings	2005: 332,569 2004: 2003: 340,336 19.03 (avg Pass. per Route) 2002: 281,142 2001: 240,000 2000: 193,100	2004: <b>86,709</b> 2003: <b>82,977</b> 2002: <b>87,487</b> 2001: <b>90,778</b> 2000: <b>90,386</b>	3-Yr Avg: 26,819 2004: 2003: 27,811 2002: 27811 2001: 24,836 2000:	2004: 4,499,424 2003: 4,364,776 2002: 4,262,170 2001: 4,771,432 2000: 4,254,512 1999: 3,476,312	Ranger III: 126 pass capacity; Queen III: 100 pass; 2 boats: 78 pass; Island shuttle boats & tours	2001: 51,000 (450/day tram trips; 30% of 220 seat daily bus tour)	?	2004: 2,585,217 2003: 2,417,477 2002: 2,356,786 2001: 2,128,733 2000: 1,552,113	
SOURCE:		NPS Park representatives interviews and memos; Park unit websites								
		12/04 memo & Park rep	Park rep	Park rep	Website/Rep	NONE	12/03 memo	NONE	Park rep	
4	# of ATP Vehicles	19 (30 passenger buses)	110	33 (17 passenger Red Jammer Buses)	60	11	11 (3 trams + trailers; 5 sightseeing buses)	10	30 buses (32 passengers) + 15 bus extension trailers (30 passengers)	
SOURCE:		1999 <b>Inventory and Assessment of NPS Visitor Transportation Services</b> , by Parsons Brinckerhoff; Jan. 2004 <b>NPS Rolling Stock (Fleet) Equipment Inventory</b> ; NPS Park representatives interviews; Park unit websites								
		2004 Inventory, Park rep	1999 VTS; 2004 Inv.	1999 VTS; 2004 Inv.	1999 VTS; 2004 Inv.; Park web	1999 VTS; 2004 Inv.	1999 VTS; 2004 Inv.	2004 Inventory; Park rep	1999 VTS; 2004 Inv.; Park rep & list	
4	# of ADA Vehicles	19	20 (every hour)	None	15-30?	11	?	10 (estimate)	30 (+ trailers)	
SOURCE:		Jan. 2004 <b>NPS Rolling Stock (Fleet) Equipment Inventory</b> ; NPS Park representatives interviews; Park unit websites								
		2004 Inv., Park rep.	2004 Inv / Rep	2004 Inv / Rep	2004 Inv / Rep	2004 Inv/ Rep	2004 Inv/ Rep	2004 Inv / Rep	2004 Inv., Park rep.	
5	Fare per Ride	Free (included in park entrance fee, donations accepted))	1-way Shuttle Bus: \$18-\$34.50 / (Bus Tours: \$49.50-\$74)	Shuttle: \$8-\$40	Free (included in park entrance fee)	\$50-one way + \$4/day	Free (inc. in park entrance fee)	?	Free (included in park entrance fee)	
SOURCE:		NPS Park representatives interviews, correspondence; Park unit websites; Sept. 2003 NPS Transportation Fee Memo (from Jennifer Getz-WASO)								
		Park rep & Rep presentation	Park website & Rep memo	Park website & Rep memo	2003 memo/ Park website	Park website	Park rep & Park website	NONE	Park rep / website	
5	# of Park Days	365	138	117	365	199	365	365	365	
SOURCE:		Park website								
		Park website	Park website	Park website	Park website	Park website	Park website	Park website	Park website	

NPS-Alternative Transportation Program: Pilot Data Collection Summary and Future Recommendations

Cross Reference to Table 1 Variable #	VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data primarily South Rim only)	Isle Royale National Park*	Mesa Verde National Park	Yellowstone National Park	Zion National Park
5	Approximate # of Days of ATP Operation	110	111	117	365	170	100	365	214
SOURCE:		Park website							
		Park website & rep	Park web / rep	Park web / rep	Park web / rep	Park web / rep	Park web / rep	Park web / rep	Park website & rep
5	ATP Operations and Maintenance Costs (annual costs)	2003: <b>\$732,581</b> O labor= \$312,998 M labor =\$93,000 Admin = \$68,382 Materials/Supplies = \$258,201 2002: \$568,000 2001: \$472,800 2000: \$394,700	Does not collect Data (concessions)	?	2004: \$2,728,457 2003: \$2,775,215 2002: \$2,668,275 2001: \$2,527,717 2000: \$2,114,811 1999: \$1,183,673	?	2004: ≈ <b>\$165,000 (\$15,000 / vehicle); 1996: \$125,000</b>	2002: \$953,822 (Xanterra bus?)	2004: \$2,279,245 2003: \$2,141,551 2002: \$2,115,289 2001: \$2,078,622 2000: \$2,506,239 (2000 start-up costs)
SOURCE:		NPS Park representatives interviews, correspondence; Park unit websites; 2004 Harpers Ferry Technical Report (by HNTB – from 1999 VTS Inventory); Sept. 2003 NPS Transportation Fee Memo (from Jennifer Getz-WASO)							
		1999-2002: June '03 ACAD Evaluation; 2003: Park rep / presentation	NONE	NONE	1974-2005: Park rep & website	NONE	1996: HF Rpt.; 2004: Park rep	2003 memo; Park rep	Park representative
6	Total Park Accidents [Incidents] (5-yr average, if available)	49 2000: 55 1999: 55 1998: 54 1997: 41 1996: 39	13 2002: 10 2000: 16 1999: 8 1997: 11 1996: 18	63 2000: 59 1999: 63 1998: 60 1997: 58 1996: 77	168 (parkwide) 2000: 128 1999: 163 1998: 137 1997: 184 1996: 227	Hard copy reporting (not in CIRS)	48 1997: 41 1996: 44 1995: 65 1994: 46 1993: 45	456 2002: 429 2001: 450 2000: 435 1999: 493 1998: 473	70 1996: 68 1995: 64 1994: 69 1993: 76
SOURCE:		CIRS & miscellaneous accident count park systems (1989-2004) – compiled in Sept. 2004 list by Nancy Arwood, Kathy Clark VIA Linda Dean, Systems Integration Group, Inc							
		2004 CIRS list	2004 CIRS list	2004 CIRS list	2004 CIRS list	NONE	2004 CIRS list	2004 CIRS list	2004 CIRS list
7	ATP Violations (annual, 5-yr cumulative & average, if available)	2004: 1 incident with minor injury to passenger; 0 accidents	Probably 0 or very low ( <b>Will E-Mail</b> )	?	?	?	?	<b>Will E-Mail</b>	2004: 0 violations 2003 = 3 collisions; 26 bus schedule violations & 3 missed trips 2002 = 1 passenger accident; 66 bus schedule violations;
SOURCE:		Potential ATP accidents reviewed looking at Body Type & Make (2005 list compiled by Linda Dean)							
		2005 list	Park rep	NONE	NONE	NONE	NONE	Park rep	2005 list

NPS-Alternative Transportation Program: Pilot Data Collection Summary and Future Recommendations

Cross Reference to Table 1 Variable #	VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data primarily South Rim only)	Isle Royale National Park*	Mesa Verde National Park	Yellowstone National Park	Zion National Park
8	ATP Partners (Public & Private)	NPS, USDOT, Maine DOT, Mount Desert Island towns, Mount Desert Island League of Towns, local businesses, voluntary donations, Friends of Acadia, and L.L. Bean (Friends of Acadia Website; 2003 article-'Partnering for Transportation Success at Acadia National Park')	None	Glacier National Park, Ford Motor Company, NPS, Nat'l Trust of Historic Preservation, White Motor Co., FTA, MT DOT, DOI, Nat'l Park Foundation, Glacier Fund, Clean Fuels USA, Glacier Foundation (Glacier Park Inc. Website), GPI, Eagle Transit, Suntours	?	?	Aramark	The Yellowstone Park Foundation	Zion National Park, Town of Springdale, Zion Natural History Association, Utah Department of Transportation, Federal Highway Administration, the local business community, Zion Canyon Visitors Bureau, and park concessionaires (NPS Zion Website)
SOURCE:		Park Website, ATP studies, Park representative interviews							
9	# of "Park Like" ATP Vehicles (i.e. fuel type, historical / cultural vehicles)	17 Propane; 2 diesel	110 Diesel	33 Propane and Gas Red Jammer Buses	48 TOTAL 3 = Electric; 14 = CNG; 7 = LNG; 16 = Diesel; 8 = Propane	?	?	10 Bio-Diesel (all park-owned buses use this fuel)	30 Propane (all fleet)
SOURCE:		Jan. 2004 NPS Rolling Stock (Fleet) Equipment Inventory; Park Website, Park representative interviews, & 1999 PB VTS Report							
SOURCE:		Park rep; 2004 Inv.; 2004 presentation	Park rep & website	Park rep & website	Park rep & website	NONE	NONE	Park rep	Park rep & website
10	Interpretive / educational Services	None (only on concession buses)	5 Trial Basis (video with 6 TV monitors)	33 Red Jammer Buses	?	?	?	?	None (done by private tours)
SOURCE:		Park Website & Park representative interviews							
SOURCE:		Park rep	Park rep	Park rep	NONE	NONE	NONE	NONE	Park rep
11	Persons per Vehicle	3.9 3.6	Will E-Mail	10.3	3.5	?	1.4	1.8	3.1
SOURCE:		Primarily Park Website + Federal Lands Highway Traffic Count Program - Total (annual / seasonal) Recreational Visitors / Total (annual / seasonal) Vehicles - PERFORMANCE MEASURE							

NPS-Alternative Transportation Program: Pilot Data Collection Summary and Future Recommendations

Cross Reference to Table 1 Variable #	VARIABLES	Acadia National Park	Denali National Park	Glacier National Park	Grand Canyon National Park (Data primarily South Rim only)	Isle Royale National Park*	Mesa Verde National Park	Yellowstone National Park	Zion National Park
12	Total ATP Vehicle Miles	?	Will E-mail	?	2004: 684,005 2003: 669,026 2002: 584,303 2001: 535,264 2000: 561,610 1999: 487,977	?	?	?	2004=503,681 2003=498,053 2002=499,751
SOURCE:		Park Website & Park representative interviews							
		Park rep	Park rep	NONE	Park Website	NONE	NONE	NONE	Park rep
12	Service ATP Vehicle Miles	2003 Svc Miles/Hrs: 240,037 / 12,390 2002 Miles / Hours: 217,500 / 12,300 2001 Miles / Hours: 220,500 / 12,300 2000 Miles / Hours: 209,500 / 10,100	Same as Total ATP Miles	?	2004: 2003: 2002: 2001: 2000:	?	?	?	Same as Total ATP miles
SOURCE:		Park Website & Park representative interviews							
		Park rep	Park rep	NONE	Park Website	NONE	NONE	NONE	Park rep
13	Recreation Visitors (5 year average)	2,436,654 (avg) 2004: 2,207,847 2003: 2,431,062 2002: 2,558,572 2001: 2,516,551 2000: 2,469,238	359,987 2004: 404,236 2003: 360,189 2002: 311,335 2001: 360,191 2000: 363,983	1,802,595 2004: 2,033,933 2003: 1,664,046 2002: 1,905,689 2001: 1,680,614 2000: 1,728,693	4,203,629 (avg) 2004: 4,326,234 2003: 4,124,900 2002: 4,001,974 2001: 4,104,809 2000: 4,460,228	19,013 2004: 17,276 2003: 17,800 2002: 19,463 2001: 19,431 2000: 21,096	451,496 2004: 446,811 2003: 438,590 2002: 406,385 2001: 513,409 2000: 452,287	2,891,626 2004: 2,868,317 2003: 3,019,375 2002: 2,973,677 2001: 2,758,526 2000: 2,838,233	2,475,761 (avg) 2004: 2,677,342 2003: 2,458,792 2002: 2,592,545 2001: 2,217,779 2000: 2,432,348
SOURCE:		NPS Statistical Abstract 2002-2004; Park Unit websites; NPS STATS: <a href="http://www2.nature.nps.gov/NPstats/dspAnnualVisits.cfm">http://www2.nature.nps.gov/NPstats/dspAnnualVisits.cfm</a>							
<b>Bold values have been updated by park representatives</b>									
* Isle Royale data confirmed via Voicemail									
“?” Unknown data (Green shading)									

[Data Packet](#): This cover letter, along with material outlined within the letter, were presented to each pilot park and discussed with representatives of each of the 8 parks.

***National Park Service***

U.S. Department of the Interior



***Memorandum***

Susan Grosser  
Transportation Planner, Park Roads & Parkways Program  
National Park Service - DOI  
1201 Eye Street, NW (10<sup>th</sup> Floor)  
Washington, D.C. 20005

TO: NPS Park Transportation Specialist

DATE: August 20, 2004

RE: **Pilot review of transportation data and associated material**

As you are aware, the NPS Alternative Transportation Program (ATP) and NPS Park Roads & Parkway Program are developing a transportation database, with the first phase focusing on ATP services and their context within each park's transportation network. A multi-discipline interagency task force has chosen the items now included in the database. In addition, the task force has selected eight parks that provide quality ATP services and would be best suited to conduct an initial review of data already collected, further data needed, and a critical analysis of accompanying materials that will be used to provide an understanding of this data application effort to the other 90 parks with ATP services. Your park is one of the initial eight.

The enclosed forms contain information gathered from a variety of sources concerning ATP service in your park. We would appreciate your review and, as needed, update of this information. The data collection team has made every effort possible to gather data from information already supplied by your park's staff to reduce our requests on your staff's limited time. In the few cases where we could not find the basic information we would request that you supply the missing data.

The following materials are included:

1. **Key Variables ACAD Data Sheet** – This is a screen shot of the database information. Please review each cell for most up to date data. The latest and most reliable data was used to populate these cells. Refer to item #4 for definitions and details of the cells.
2. **ACAD ATP Vehicle List** – 60 transit vehicles were compiled from 3 different databases. Cross-referencing was performed using the VIN and license plates, when available. Please review to ensure that all vehicles currently being used to transport passengers (park visitors and staff) are included in this list. Verify if the equipment is still in the park's possession and in active ATP service. If not, please indicate how it was disposed of. Also, please add any new equipment not shown and include any additional relevant information. This review focuses only on passenger transportation; service vehicles that are used for ATP operations and maintenance will be added at a later period.
3. **ACAD Parking List** – This list was obtained and modified from the Facilities Management Software System (FMSS or Maximo™). The actual number of spaces is derived from an average

of one space per every 320 square feet of parking area (increased if RV or bus parking is evident). These figures are only estimates and we are not asking that you count exact parking spaces. We are trying to understand which lots when filled would increase pressure on the ATP system or the overall transportation network. As explained, some of the hotel parking areas are tightly regulated and may not be relevant for understanding the overall traffic flow within the park unit. Please check to see if the parking lots or parking areas, including consistently used unendorsed roadside parking, are listed within the inventory, the square footage appears close, and the usage (parking type) is accurate.

4. **Detailed List of Key Variables & Performance Measures & Variable Attributes** – Explanation of the variables listed and performance measures that could be derived from these variables. Note that not all measures will be calculated. Please let the task force know if there are any measures that you are most interested in providing for your park.
5. **NPS Transportation - ATP Glossary** – The task force has found that many parks have provided assorted transportation and operational data, but it is difficult to compare because they are not using consistent terminology or calculations. This glossary, along with the Vehicle and Facility Visual Dictionaries (items #6 and #7) is the task force's attempt to ensure that there is NPS consistency in the interpretation of specific terms.
6. **Vehicle Visual Dictionary** (very large file)
7. **Facility Visual Dictionary** (very large file)
8. **What Are Performance Measures? Brochure** – The task force also felt it was important to explain that the goal of collecting this assorted data was not to fill up a database but to ascertain performance. The task force asked that a brochure be developed that provided information regarding performance measures, as well as a couple of brochures to highlight specific measures related to the ATP services – ridership and operating costs (items #9 and #10). Please review these brochures to see if they aid in the park staffs understanding of the data efforts or add to the confusion. Feel free to edit if you so desire and provide feedback. In addition, let us know if there are any performance measures that you would like highlighted in a brochure.
9. **Ridership Performance Measure Brochure**
10. **Operating Costs Performance Measure Brochure**

The material listed above has been provided to you via e-mail (with the exception of the large files) and on hard copy and CD through Federal Express delivery. In your review, you may either make corrections directly to the hard copy or on the files on the enclosed CD. Corrected data may be forwarded to David Jackson, the task force member responsible for compiling this information:

**DAVID W. JACKSON**  
Transportation Industry Analyst, DTS-46  
Volpe National Transportation Systems Center  
U.S. Department of Transportation  
55 Broadway, Kendall Square

Cambridge, MA 02142  
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FAX: (617) 494-2787  
E-Mail: jackson@volpe.dot.gov

If you have any questions please contact David or me (202-513-7032). Thank you for your invaluable assistance in this NPS ATP-transportation effort.

John A. Volpe National Transportation Systems Center  
Research and Special Programs Administration



***U.S. Department of Transportation***



## **ATP SERVICES IN THE NATIONAL PARK SYSTEM**

**TABLE 9: ATP OWNED AND / OR OPERATED BY NPS**

**TABLE 10: SURFACE ATP / PUBLIC TRANSIT IN NPS  
PARK UNITS**

**TABLE 11: PUBLIC TRANSIT TO, IN, OR AROUND NPS  
PARK UNITS**

**TABLE 12: WATER / AIR ATP OR PUBLIC TRANSIT IN  
NPS PARK UNITS**



**TABLE 9. ATP OWNED AND / OR OPERATED BY NPS**

<b>PARK NAME</b>	<b>PLACE</b>	<b>STATE</b>	<b>BUS</b>	<b>VAN</b>	<b>TROLLEY</b>	<b>TRAM</b>	<b>RAIL</b>	<b>OTHER</b>	<b>AIR</b>	<b>WATER</b>	<b>COMMENTS (as of July 2005) on <u>ATP Owned / Operated by NPS</u> and other transportation available</b>
1. Acadia National Park	Bar Harbor	ME	X								Public transit operated by concessionaire [Downeast Transportation Inc.]; NPS owns buses with operational support from LL Bean; air tours
2. Allegheny Portage Railroad National Historic Site	Gallitzin	PA		X							Seasonal bus tours: National Park Foundation funded (free fare?); 15-passenger van trip around Allegheny Portage RR and Johnstown Flood sites (teamed with Ford Foundation or Ford Motor Co.); <b>PT limited bus nearby - CamTran &amp; AmTran (Cambria &amp; Blair County)</b>
3. Appalachian National Scenic Trail - WEST VIRGINIA (ME to GA)		WV	X								Harpers Ferry: AMTRAK daily service; MARC Commuter Rail Brunswick Line from DC; Shuttle bus from HAFE NHP Visitor Ctr (long-term) Pkg Lot to APPA trailhead
4. Bent's Old Fort National Historic Site	La Junta	CO		X							1/4 mile NPS shuttle service ( <b>van?</b> ) - pkg lot to fort; Limited PT bus [ La Junta Transit]; AMTRAK to La Junta, CO; commercial air tour
5. Cape Cod National Seashore	Wellfleet	MA	X								NPS parking-beach bus ( <b>formerly tram</b> ) shuttle in Eastham & PT Bus operated by CC Transit Authority along Route 6
6. Chesapeake & Ohio Canal Nat'l Historical Park (DC/MD/WV) [Potomac River]	Hagerstown	MD								X	Mule-drawn historic canal barge tours; Georgetown Visitor Ctr: WMATA bus/rail; Great Falls Tavern: Ride-On (Montgomery County Transit); near Williamsport Visitor Ctr: County Commuter (Hagerstown, MD)
7. Colonial National Historical Park, includes: Jamestown Island; Yorktown Nat'l Battlefield & Cemetery; Cape Henry Nat'l Memorial (VA Beach)	Yorktown	VA	X								Historic Triangle Shuttle (2004 demo cooperative effort by 5 private foundations & NPS) : Free bus Colonial Williamsburg Visitor Ctr to Jamestown & Yorktown, Jamestown Area Shuttle, Yorktown Trolley; commercial air tour; free auto ferry Scotland-Jamestown
8. Cumberland Gap National Historical Park	Middlesboro	KY		X							NO PT; ranger-led shuttles to Pinnacle Overlook (fee); ( <b>ranger-led?</b> ) reservation shuttle, horseback riding, hiking to Hensley Settlement

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>ATP Owned / Operated by NPS</u> and other transportation available
9. Cuyahoga Valley National Park (Cleveland to Akron, OH along 20-mile Canal Towpath Trail)	Brecksville	OH					X				Cuyahoga Valley Scenic Railway - scenic rail (coop agreement, NPS owns tracks, CVSR operates); <b>GCRTA (Cleveland) &amp; Metro (Akron) provide PT near CUVA</b>
10. Eugene O'Neill National Historic Site	Danville	CA	X	X							Van & bus shuttle to site from Danville, CA Park-N-Ride
11. Fort Matanzas National Monument	St. Augustine	FL							X		Tour boat ferry to fort from Visitor Center
12. Fort Union Trading Post National Historic Site	Williston	ND		X							FOUN ranger (ADA) shuttle for access; No PT to Fort; Amtrak Empire Builder stop in Williston; ample school & tour bus parking
13. Gettysburg National Military Park & National Cemetery w/Eisenhower NHS	Gettysburg	PA	X								Bus tours by Licensed Battlefield Guide Assoc guide (NPS partner) & shuttle bus to EISE from GETT visitor ctr.
14. Golden Gate National Recreation Area: (1) Alcatraz Island	San Francisco	CA				X					Access only by Blue and Gold Fleet ferry at Pier 41 (MUNI); MUNI bus / cable car (trolley) to Pier 41; tram on island (NPS or concessionaire?); air tours
15. Isle Royal National Park	Houghton	MI							X		Boat & seaplane. Seaplane [ISRO Seaplane Service] Houghton, MI to Rock Harbor or Windigo. Passenger boats from Grand Portage, MN, Houghton, MI or Rock Harbor, MI [ISRO Queen, GPIR Transport Lines]. Voyager II ferry circles island; <b>Ranger III - NPS owned?</b>
16. Johnstown Flood National Memorial	South Fork	PA		X							Seasonal bus tours: National Park Foundation funded (free fare?); 15-passenger van trip around Allegheny Portage RR & Johnstown Flood sites (with Ford Foundation or Ford Motor Co.); CamTran PT bus to flood sites in Johnstown, no PT to South Fork Memorial
17. Kennesaw Mountain National Battlefield Park	Kennesaw	GA	X								Weekend shuttle bus: Vis Ctr Mntop along Kennesaw Mtn Dr.; <b>Cobb County Transit bus (#15) w/in 2 miles</b>
18. Keweenaw National Historical Park	Calumet	MI					X				<b>Quincy Unit:</b> Cog-Rail Tramway from Quincy Hoist to Underground Mine. Charter bus [Superior Coaches & Delivery of Houghton]; Nearby PT - Houghton Motor Transit Line; Ferry to Houghton; <b>Calumet Unit:</b> No PT/ATP

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PARK NAME	PLACE	STATE	TRANSPORTATION MODES									COMMENTS (as of July 2005) on <u>ATP Owned / Operated by NPS</u> and other transportation available
			BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER		
19. Lowell National Historical Park	Lowell	MA			X		X				X	Historic trolley on rails; Canal boats & LRTA shuttle bus link to MBTA Commuter Rail
20. Lyndon B. Johnson National Historic Park	Johnson City	TX	X									Ranger-guided bus tour @ LBJ Ranch (fee). Access by bus tour only at ranch. (Tram?)
21. Mammoth Cave National Park	Mammoth Cave	KY									X	Propane bus shuttles to cave entrances, some bus only access [Forever Resorts LLC], funded by cave tour fee; 2 NPS-operated vehicle ferries across Green River; Echo River cave boat tour discontinued in '90s
22. Minute Man National Historical Park	Concord	MA	X									Liberty Ride Tour Bus (Lexington & NPS -fee) - connects MBTA commuter rail Concord Station; Lexpress (Lexington) local bus; MBTA bus nearby
23. Oregon Caves National Monument [Josephine County]	Cave Junction	OR	X									Bus service 4X day from Grants Pass to Cave Jct. (20 miles east of ORCA) & Illinois Valley Visitor Ctr. Shuttle service from Visitor Ctr to Oregon Caves (NPS or Concession?)
24. Pinnacles National Monument	Paicines	CA	X									Intermittent Eastside shuttle bus service from campground & overflow pkg areas to trailheads & Visitor Center at busy times; limited interior pkg; 2007 plans for regular shuttle bus route; air tours
25. Steamtown National Historic Site	Scranton	PA					X					COLTS PT buses; Historic rail short trip & excursions (10 mos.)
26. Tallgrass Prairie National Preserve	Strong City	KS	X									Prairie bus tours w. Nat'l Park Trust partners
27. Wolf Trap Farm Park for Performing Arts	Vienna	VA	X									Wolf Trap Foundation operates Wolf Trap Metro Shuttle Bus Express from WAMATA (DC) West Falls Church metrorail station
28. Zion National Park	Springdale	UT	X									Propane shuttle bus along Zion Scenic Drive in Zion Canyon & Springdale (est. 2000, mandatory April-Oct.); air tours (ZION & Shivwits Band-Paiute Indian Reservation)
<b>TOTAL ATP Owned &amp; Operated by NPS</b>			<b>14</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>5</b>		

**TABLE 10. SURFACE ATP / PT IN NPS PARK UNITS**

#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
1.	Acadia National Park (ME)	Bar Harbor	ME	PT					
2.	Adams National Historical Park (MA)	Quincy	MA	PT		C		PT	
3.	Allegheny Portage Railroad Nat'l Historic Site (PA)	Gallitzin	PA	C / PT	N				
4.	Amistad National Recreation Area (TX)	Del Rio	TX	PT				Amtrak	
5.	Appalachian National Scenic Trail - <b>NEW HAMPSHIRE</b> (Maine to Georgia)		NH	PT					
5B.	Appalachian Nat'l Scenic Trail - <b>VERMONT</b> (ME to GA)		VT	PT					
5C.	Appalachian National Scenic Trail - <b>MASSACHUSETTS</b> (Maine to Georgia)		MA	PT					
5D.	Appalachian Nat'l Scenic Trail- <b>NEW YORK</b> (ME to GA)		NY	PT				PT	
5E.	Appalachian National Scenic Trail - <b>PENNSYLVANIA</b> (Maine to Georgia)		PA	PT					
5F.	Appalachian National Scenic Trail - <b>WEST VIRGINIA</b> (Maine to Georgia)		WV	N				Amtrak/PT	
6.	Arches National Park (UT)	Moab	UT	PT	PT				
7.	Aztec Ruins National Monument (NM)	Aztec	MN	PT					
8.	Bent's Old Fort National Historic Site (CO)	La Junta	CO	PT	N			Amtrak	
9.	<b>Bering Land Bridge National Preserve (AK)</b> [part of Western Artic National Parklands]	Nome	AK						Dog sled, Snow vehicle
10.	Big South Fork Nat'l River & Recreation Area (KY/TN)	Oneida	TN					C	Horse
11.	<b>Blue Ridge Parkway</b> [470-mile parkway] (VA/NC)	Asheville	NC	C / PT					
12.	Boston African American National Historic Site (MA)	Boston	MA	PT				PT	
13.	Boston Harbor Islands Nat'l Recreation Area (MA)	Boston	MA	PT				PT	
14.	Boston National Historical Park [Freedom Trail] (MA)	Boston	MA	PT				PT	
15.	Brown v. Board of Education Nat'l Historic Site (KS)	Topeka	KS	PT					
16.	Bryce Canyon National Park (UT)	Bryce Canyon	UT	C					
17.	Buffalo National River (Harrison & St. Joe, AR)	Harrison	AR	C	C				

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#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
18.	Cabrillo National Monument (CA)	San Diego	CA	PT					
19.	Canyon De Chelly National Monument (AZ)	Chinle	AZ		C				Truck
20.	Canyonlands National Park (UT)	Moab	UT		C				Jeep
21.	Cape Cod National Seashore (MA)	Wellfleet	MA	N / PT					
22.	Cape Krusenstern National Monument (AK) [part of Western Artic National Parklands]	Kotzebue	AK						Snow mobile
23.	Carlsbad Caverns National Park (NM)	Carlsbad	NM	PT					
24.	Casa Grande Ruins National Monument (AZ)	Coolidge	AZ	PT					
25.	Castillo De San Marcos National Monument (FL)	St. Augustine	FL					C	Carriage, Motor scooter
26.	Chamizal National Memorial (TX)	El Paso	TX	PT		PT			
27.	Charles Pinckney National Historic Site (SC)	Mt. Pleasant	SC	PT					
28.	Chattahoochee River National Recreation Area (GA)	Atlanta	GA	PT					
29.	Chesapeake & Ohio Canal National Historical Park (DC/MD/WV) [Potomac River]	Hagerstown	MD	PT					
30.	Chickasaw National Recreation Area (OK)	Sulphur	OK	C					
31.	Chiricahua National Monument (AZ)	Willcox	AZ		N				
32.	Colonial National Historical Park (VA) includes: Jamestown Island; Yorktown Nat'l Battlefield & Cemetery; Cape Henry Nat'l Memorial (VA Beach)	Yorktown	VA	N		N			
33.	Colorado National Monument (CO)	Fruita	CO	C					
34.	Crater Lake National Park (OR)	Crater Lake	OR	C					
35.	Cumberland Gap National Historical Park (KY)	Middlesboro	KY		N				
36.	Cumberland Island National Seashore (GA)	St. Marys	GA						Jeep / SUV
37.	Cuyahoga Valley National Park (Cleveland to Akron, OH along 20-mile Canal Towpath Trail)	Brecksville	OH	PT				N / C	
38.	Dayton Aviation Heritage Nat'l Historical Park (OH)	Dayton	OH	PT					
39.	Delaware & Lehigh National Heritage Corridor (PA) [150-mile long canal & RR corridor]	Bethlehem	PA	PT				Amtrak	

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#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
40.	Delaware Water Gap National Recreation Area (PA-NJ) [including Middle Delaware National Scenic River - 40 miles long]	Bushkill	PA	PT					
41.	Denali National Park & Preserve (AK)	Denali Park	AK	C				AK RR	
42.	Devils Postpile National Monument (CA) [Near Mammoth Lake]	Three Rivers	CA	C/ PT					
43.	Dinosaur Nat'l Monument (Dinosaur, CO /Vernal, UT)	Dinosaur	CO	C	C				
44.	Ebey's Landing National Historic Reserve (WA)	Coupeville	WA	PT					
45.	Edgar Allan Poe National Historic Site (PA)	Philadelphia	PA	PT				PT	
46.	Edison National Historic Site (NJ)	West Orange	NJ	PT				PT	
47.	<b>Erie Canalway National Heritage Corridor</b> (524-mile canal system - Buffalo to Albany, NY) [Buffalo area]	Buffalo	NY	PT				PT	
47B.	<b>Erie Canalway National Heritage Corridor</b> (524-mile canal system - Buffalo to Albany, NY) [Rochester & Fingerlakes area]	Rochester	NY	PT					
47C.	<b>Erie Canalway National Heritage Corridor</b> (524-mile canal system - Buffalo to Albany, NY) [Syracuse area]	Syracuse	NY	PT					
47D.	<b>Erie Canalway National Heritage Corridor</b> (524-mile canal system - Buffalo to Albany, NY) [Albany & Hudson River area]	Albany	NY	PT					
48.	Essex National Heritage Area (40-miles along north coast of MA)	Essex County	MA	PT				PT	
49.	Eugene O'Neill National Historic Site (CA)	Danville	CA	N	N				
50.	Everglades National Park (FL)	Homestead	FL				C		
51.	Fire Island National Seashore (NY)	Patchogue	NY	PT				PT	
52.	Fort McHenry Nat'l Monument & Historic Shrine (MD)	Baltimore	MD	PT		N			
53.	Fort Smith National Historic Site (AR & OK)	Fort Smith	AR			PT			
54.	Fort Stanwix National Monument (NY)	Rome	NY	PT				Amtrak	
55.	Fort Sumter National Monument - including Fort Moultrie (Charleston Harbor & Sullivan Island, SC)	Charleston	SC	PT					
56.	Fort Union Trading Post National Historic Site (ND)	Williston	ND		N			Amtrak	

#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
57.	Fort Vancouver National Historic Site (WA / OR)	Vancouver	WA	PT					
58.	Frederick Law Olmsted National Historic Site (MA)	Brookline	MA	PT				PT	
59.	Fredericksburg & Spotsylvania National Military Park, including Fredericksburg National Cemetery (VA)	Fredericksburg	VA	PT					
60.	Gates of the Arctic National Park & Preserve (AK)	Bettles	AK	PT					
61.	Gateway National Recreation Area w/ Jamaica Bay, Staten Island, Sandy Hook Units (NY / NJ))	Staten Island	NY	PT				PT	
62.	General Grant National Memorial (NY)	New York City	NY	PT				PT	
63.	<b>George Washington Memorial Parkway</b> (VA-DC-MD): (1) Fort Hunt Park, (2) Dyke Marsh Wildlife Preserve, (3) Belle Haven Park, (4) Woodrow Wilson Memorial Bridge, (5) Dangerfield Island [Virginia - South of Reagan National Airport to Mount Vernon]	Arlington	VA	PT					
63B.	<b>George Washington Memorial Parkway</b> (VA-DC-MD): (6) Roaches Run Waterfowl Sanctuary, (7) Gravely Point, (8) Arlington House (Robert E. Lee Mem.), (9) Netherlands Carillon, (10) USMC Mem., (11) Women in Military Service Mem., (12) Lyndon Baines Johnson Mem. Grove on the Potomac, (13) Lady Bird Johnson Park, (14) Arlington Mem. Bridge, (15) Theodore Roosevelt Mem. Bridge, (16) Theodore Roosevelt Island, (17) Francis Scott Key Mem. Bridge [Virginia & DC: all sites within 2 miles of Arlington National Cemetery]	Arlington	VA	C / PT				PT	
63C.	<b>George Washington Memorial Parkway</b> (VA-DC-MD): (18) Fort Marcy (VA), (19) Claude Moore Farm, (20) Turkey Run Park (VA), (21) Great Falls Park (VA), (22) Glen Echo Park (MD), (23) Clara Barton NHS (MD) [Virginia & Maryland: North of DC to Great Falls Park]	Glen Echo	MD	PT					
64.	Gettysburg National Military Park & National Cemetery w/ <b>Eisenhower NHS</b> (PA)	Gettysburg	PA	N/ C					
65.	Glacier Bay National Park & Preserve (AK)	Gustavus	AK	C					
66.	Glacier National Park (MT)	West Glacier	MT	C				Amtrak	
67.	Glen Canyon National Recreation Area (AZ / UT)	Page	AZ	C					

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#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
68.	Gloria Dei Church National Historic Site (PA)	Philadelphia	PA	PT					
69.	<b>Golden Gate National Recreation Area: (1)</b> Alcatraz Island (CA)	San Francisco	CA	PT		PT	N		
69B.	<b>Golden Gate National Recreation Area: (2)</b> Presidio [San Francisco], (3) Ft. Point [San Francisco], (4) Muir Woods [Mill Valley] (CA)	Mill Valley	CA	PT	PT				
70.	<b>Governors Island National Monument (NY)</b>	<b>New York City</b>	<b>NY</b>	PT				PT	
71.	Grand Canyon National Park (AZ)	Grand Canyon	AZ	C			C	C	
72.	Grand Teton National Park (WY)	Moose	WY	C / PT					
73.	Great Smoky Mountains National Park (NC/TN)	Gatlinburg	TN			PT			
74.	Guilford Courthouse National Military Park (NC)	Greensboro	NC	PT					
75.	Gulf Islands National Seashore (Gulf Breeze, FL / Ocean Springs, MS)	Gulf Breeze	FL	PT					
76.	Haleakala National Park (Kalu, Maui, HI)	Maui	HI		C				Bike
77.	Hamilton Grange National Memorial (NY)	New York City	NY	PT				PT	
78.	Hampton National Historic Site (MD)	Towson	MD	PT					
79.	Harpers Ferry National Historical Park (WV)	Harpers Ferry	WV	C				Amtrak/PT	
80.	Harry S. Truman National Historic Site (Independence & Grandview, MO)	Independence	MO	PT					
81.	Hawaii Volcanoes National Park (HI)	Hilo	HI	PT					
82.	Hohokam Pima National Monument (AZ)	Coolidge	AZ	PT					
83.	Hot Springs National Park (AR)	Hot Springs	AR			PT			
84.	Hubbell Trading Post National Historic Site (AZ)	Ganado	AZ	PT					
85.	Ice Age National Scenic Trail (WI)	Madison	WI	PT					
86.	Illinois & Michigan Canal Nat'l Heritage Corridor (97-mile canal - Lake Michigan in Chicago to Illinois River in Peru, IL)	Lockport	IL	PT				PT	
87.	Independence National Historical Park (PA)	Philadelphia	PA	PT				PT	Carriage
88.	Indiana Dunes National Lakeshore (IN)	Porter	IN					PT	
89.	James A. Garfield National Historic Site (OH)	Mentor	OH	PT					

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#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
90.	Jean Lafitte National Historic Park & Preserve (LA) [3 Sites West of New Orleans]	Lafayette	LA	PT				Amtrak	
90B.	Jean Lafitte National Historic Park & Preserve (LA) [3 sites in New Orleans area]	New Orleans	LA					Amtrak	
91.	Jefferson National Expansion Memorial (MO)	St. Louis	MO	PT				PT	Metro Arch Tram
92.	Jimmy Carter National Historic Site (GA)	Plains	GA					C	
93.	John F Kennedy National Historic Site (MA)	Brookline	MA	PT				PT	
94.	John Muir National Historic Site (CA)	Martinez	CA	PT					
95.	Johnstown Flood National Memorial (PA)	South Fork	PA	C / PT					
96.	Joshua Tree National Park (CA)	Twenty-nine Palms	CA	PT					
97.	Juan Bautista De Anza National Historic Trail [Nogales, AZ to San Francisco, CA] Arizona trail portion	Nogales	AZ	PT					
97B.	Juan Bautista De Anza National Historic Trail [Nogales, AZ to San Francisco, CA] Southern California trail portion	Ventura	CA	PT				PT	
97C.	Juan Bautista De Anza National Historic Trail [Nogales, AZ to San Francisco, CA] Northern California trail portion	San Francisco	CA	PT				PT	
98.	Kalaupapa National Historical Park (HI)	Kalaupapa	HI	C					Mule ride
99.	Kaloko-Honokohau National Historical Park (HI)	Kailua-Kona	HI	PT					
100.	Katmai National Park & Preserve (AK)	King Salmon	AK	PT					
101.	Kenai Fjords National Park (AK)	Seward	AK	PT				AK RR	
102.	Kennesaw Mountain National Battlefield Park (GA)	Kennesaw	GA	N / PT					
103.	Keweenaw National Historical Park (MI)	Calumet	MI	PT					
104.	Klondike Gold Rush- Seattle Unit Nat'l Historic Park (WA)	Seattle	WA	PT				PT	
105.	Klondike Gold Rush National Historical Park (AK)	Skagway	AK	PT					
106.	Kobuk Valley National Park (AK) [part of Western Artic National Parklands]	Kotzebue	AK						Dog sled, Snow vehicle

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#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
107.	Lake Mead National Recreation Area (NV / AZ)	Boulder City	NV	PT					
108.	Lake Roosevelt National Recreation Area [along Columbia River] (WA)	Coulee Dam	WA	PT					
109.	Lewis & Clark National Historic Park (formerly Fort Clatsop National Memorial) (OR)	Astoria	OR	PT					
110.	Lincoln Home National Historic Site (IL)	Springfield	IL	PT		PT		Amtrak	
111.	Little Bighorn Battlefield National Monument (MT)	Crow Agency	MT		C				
112.	Little Rock Central High School Nat'l Historic Site (AR)	Little Rock	AR	PT					
113.	Longfellow National Historic Site (MA)	Cambridge	MA	PT				PT	
114.	Lowell National Historical Park (MA)	Lowell	MA	PT		N		N	
115.	Lower East Side Tenement Museum National Historic Site (Manhattan, NY)	New York City	NY	PT				PT	
116.	Lyndon B. Johnson National Historic Park (TX)	Johnson City	TX	N			N?		
117.	Maggie L. Walker National Historic Site (VA)	Richmond	VA	PT					
118.	Mammoth Cave National Park (KY)	Mammoth Cave	KY	C					
119.	<b>Manhattan Sites</b> - (NY): (1) Castle Clinton National Monument (CACL); (2) Federal Hall Nat'l Memorial (FEHA); (3) General Grant Nat'l Memorial (GEGR); (4) Hamilton Grange Nat'l Memorial (HAGR); (5) St. Paul's Church Nat'l Historic Site (STPA); (6) Theodore Roosevelt Birthplace Nat'l Historic Site (THRO)	New York City	NY	PT				PT	
120.	Manzanar National Historic Site (CA)	Independence	CA	PT					
121.	Martin Luther King, Jr. National Historic Site (GA)	Atlanta	GA	PT				PT	
122.	McLoughlin House Nat'l Historic Site (OR) [Part of Fort Vancouver National Historic Site - Washington]	Oregon City	OR	PT					
123.	Mesa Verde National Park (CO)	Cortez	CO	C			N		
124.	Minute Man National Historical Park (MA)	Concord	MA	N / PT				PT	
125.	Mississippi National River & Recreation Area (Twin Cities Area - Minneapolis - St. Paul, MN)	St. Paul	MN	PT					
126.	Morristown National Historical Park (NJ)	Morristown	NJ	PT				PT	

#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
127.	Mount Rainier National Park (WA)	Ashford	WA	C	C				
128.	Mount Rushmore National Memorial (SD)	Keystone	SD		C				
129.	Natchez National Historical Park (MS)	Natchez	MS	PT		PT			
130.	<b>National Capital Parks – East:</b> (1) Anacostia Park - including (2) Kenilworth Park & Aquatic Gardens; (3) Kemilworth Marsh; (4) Langston Golf Course (NE Washington, D.C.; east side of Anacostia River)	Washington, DC	DC	PT					
130 B.	<b>National Capital Parks – East:</b> (5) Frederick Douglass National Historic Site; (6) Fort Circle Parks (Civil War Defenses) - 9 parks including Fort Dupont, Fort Foote, Fort Stanton, Fort Mahan & 5 others (SE Washington, D.C.; east side of Anacostia River)	Washington, DC	DC	PT					
130 C.	<b>National Capital Parks – East:</b> (7) Mary McLeod Bethune Council House National Historic Site; (8) Sewall-Belmont House National Historic Site; (9) Capital Hill Parks - multiple parks, medians, circles, squares, triangle green spaces (NW & NE Washington, D.C.; west side of Anacostia River)	Washington, DC	DC	PT					
130 D.	<b>National Capital Parks – East:</b> (10) Greenbelt Park; (11) Baltimore-Washington Parkway (Prince George's & Anne Arundel Counties, MD; north of Washington, D.C.)	Prince George's County	MD	PT					
NO ATP	<b>National Capital Parks – East:</b> (12) Suitland Parkway; (13) Oxon Run; (14) Oxon Cove Park; (15) Harmony Hall; (16) Fort Washington Park; (17) Piscataway Park - including (18) Hard Bargain Farm; (19) National Colonial Farm; (20) Marshall Hall (Prince George's & Charles Counties, MD; southeast of D.C.)	Prince George's County	MD						
131.	<b>National Mall &amp; Memorial Parks (formerly National Capital Parks-Central):</b> (1) Constitution Gardens, (2) Ford's Theatre National Historic Site, (3) Franklin Delano Roosevelt Memorial, (4) Korean War Veterans Memorial, (5) Lincoln Memorial, (6) National Mall, (7) World War II National Memorial, (8) Old Post Office Tower, (9) Pennsylvania Avenue National Historic Site (1,004 acres along eastern shore of Potomac River in DC)	Washington, DC	DC	C / PT				PT	

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#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER
131 B.	<b>National Mall &amp; Memorial Parks</b> (formerly <b>National Capital Parks-Central</b> ): (10) Peterson House (Lincoln's death site), (11) President's Park, (12) Potomac Park (East & West), (13) Thomas Jefferson Memorial, (14) Tidal Basin, (15) US Navy Memorial, (16) Vietnam Veterans Memorial, (17) Washington Monument, (18) White House, (19) Nat'l Law Enforcement Officers Mem, (20) African American Civil War Memorial, (21) DuPont Circle (1,004 acres along eastern shore of Potomac River in DC)	Washington, DC	DC	C / PT				PT	
132.	National Park of American Samoa (AS)	Pago Pago	AS	PT					
133.	New Bedford Whaling National Historic Park (MA)	New Bedford	MA	PT					
134.	New Jersey Coastal Heritage Trail Route (Coastal & Shore regions, NJ)	Newport	NJ	PT				PT	
135.	New Orleans Jazz National Historic Park (LA)	New Orleans	LA	PT					
136.	New River Gorge Nat'l River (WV): 53-mile waterway through Fayette, Raleigh, Summers Counties.	Fayetteville	WV					Amtrak	
137.	<b>Noatak National Preserve (AK)</b> [part of Western Arctic National Parklands]	Kotzebue	AK						Snowmobile
138.	<b>North Cascades National Park</b> [north & south units] (Northeast WA) including: > Ross Lake Nat'l Recreation Area [Newhalem, WA] > Lake Chelan Nat'l Recreation Area [Stehekin, WA]	Marblemount	WA	C / PT					
139.	Ocmulgee National Monument (GA)	Macon	GA	PT					
140.	Oklahoma City National Memorial (OK)	Oklahoma City	OK	PT		PT			
141.	Oregon Caves Nat'l Monument [Josephine County, OR]	Cave Junction	OR	N / C					
142.	Organ Pipe Cactus National Monument (AZ)	Ajo	AZ		N / PT				
143.	Ozark National Scenic Riverways [134 miles of Current & Jacks Fork Rivers] (MO)	Van Buren	MO		C				
144.	Palo Alto Battlefield National Historic Site (TX)	Brownsville	TX	PT					
145.	Perry's Victory & International Peace Memorial (OH)	Put-In-Bay	OH	PT			C		Golf cart
146.	Petroglyph National Monument (NM)	Albuquerque	NM	PT					
147.	Pictured Rocks National Lakeshore (MI)	Munising	MI	PT					

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148.	Pinnacles National Monument (CA)	Paicines	CA	N					
149.	Point Reyes National Seashore (CA)	Point Reyes	CA	C / PT					
150.	Port Chicago Naval Magazine Nat'l Memorial (CA)	Concord	CA	N / PT	N				
151.	Pu'uuhonua O Honaunau National Historical Park (HI)	Honaunau	HI	PT					
152.	Pu'ukohola Heiau National Historical Site (HI)	Kawaihae	HI	PT					
153.	Redwood National and State Parks (Humbolt & Del Norte Counties, CA)	Crescent City	CA	C					Horse
154.	Richmond National Battlefield Park (VA)	Richmond	VA	PT					
155.	<b>Rock Creek Park (DC):</b> (1) Old Stone House, (2) Montrose Park, (3) Dumbarton Oaks Park, (4) Normanstone Parkway, (5) Whitehaven Park, (6) Glover-Archbold Park, (7) Battery Kemble Park, (8) Meridian Hill Park, (9) Bryce Park, (10) Klinge Valley Park [South of National Zoo]	Washington, DC	DC	PT				PT	
155 B.	<b>Rock Creek Park (DC):</b> (11) Peirce Mill/Barn, (12) Soapstone Valley Park, (13) Fort Band Park, (14) Fort Bayard Park, (15) Cater Barron Amphitheatre, (16) Nature Center & Planetarium, (17) Fort DeRussy, (18) Miller Cabin, (19) Milkhouse Ford, (20) Fort Stevens, (21) Battleground National Cemetery [North of National Zoo to MD line]	Washington, DC	DC	PT				PT	Horse
156.	Rocky Mountain National Park (CO)	Estes Park	CO	C					
157.	Roger Williams National Memorial (RI)	Providence	RI	PT				Amtrak/PT	
158.	<b>Roosevelt-Vanderbilt National Historic Sites:</b> (1) Eleanor Roosevelt National Historic Site (Val-Kill); (2) Vanderbilt Mansion National Historic Site; (3) Home of Franklin D Roosevelt National Historic Site - including FDR Presidential Library and Museum (administered by Nat'l Archives & Records Admin) - (Hyde Park, NY)	Hyde Park	NY	PT					
159.	Rosie the Riveter WWII Home Front National Historic Park (CA)	Richmond	CA	PT				Amtrak/PT	
160.	Saint Croix National Scenic Riverway (WI)	St. Croix Falls	WI	C / PT	C				
161.	Salem Maritime National Historic Site (MA)	Salem	MA	PT				PT	

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#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM		OTHER
162.	San Antonio Missions National Historical Park (TX)	San Antonio	TX	PT		PT			
163.	San Francisco Maritime National Historical Park (CA)	San Francisco	CA	PT				PT	
164.	San Juan Island National Historical Park (WA)	Friday Harbor	WA	PT					
165.	San Juan National Historic Site (PR)	San Juan	PR	PT	PT	PT			
166.	Santa Monica Mountains Nat'l Recreation Area (Los Angeles area, CA)	Thousand Oaks	CA	N / PT					
167.	Saugus Iron Works National Historic Site (MA)	Saugus	MA	PT					
168.	Scotts Bluff National Monument (NE)	Gering	NE	C					
169.	Shenandoah National Park (VA)	Luray	VA		C				
170.	Sitka National Historical Park (AK)	Sitka	AK	C					
171.	Sleeping Bear Dunes National Lakeshore (MI)	Empire	MI	PT					
172.	Springfield Armory National Historic Site (MA)	Springfield	MA	PT					
173.	Statue of Liberty National Monument / Ellis Island Immigration National Monument (NY/NJ)	New York City	NY	PT				PT	
174.	Steamtown National Historic Site (PA)	Scranton	PA	PT				N or C?	
175.	Tallgrass Prairie National Preserve (KS)	Strong City	KS	N					
176.	Thaddeus Kosciuszko National Memorial (PA)	Philadelphia	PA	PT				PT	
177.	Theodore Roosevelt Inaugural Nat'l Historic Site (NY)	Buffalo	NY	PT				PT	
178.	Timucuan Ecological & Historic Preserve (FL) including Fort Caroline National Memorial	Jacksonville	FL	PT					
179.	Touro Synagogue National Historic Site (RI)	Newport	RI	PT					
180.	Ulysses S. Grant National Historic Site (MO)	St. Louis	MO	PT					
181.	<b>Upper Delaware Scenic &amp; Recreational River</b> (Pike & Wayne Counties along Delaware River in PA) (NY & PA)	Beach Lake	PA		C				
182.	USS Arizona Memorial (HI)	Honolulu	HI	PT					
183.	Valley Forge National Historic Park (PA)	Valley Forge	PA	C / PT					

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#	PARK NAME (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM		OTHER
184.	<b>VIRGIN ISLAND PARKS:</b> (1) Virgin Islands National Park (St. John & St. Thomas), (2) VI Coral Reef Nat'l Mon. (St. John), (3) Buck Island Reef Nat'l Mon (Buck Island), (4) Salt River Bay NHP & Ecological Preserve (Christiansted), (5) Christiansted Nat'l Historic Site (Christiansted) (VI)	St. John & St. Thomas	VI	PT	PT		PT		Safari taxi (van, bus, SUV, etc.)
185.	Weir Farm Nat'l Historic Site (Ridgefield / Wilton, CT)	Wilton	CT	PT					
186.	<b>Western Arctic National Parklands:</b> (1) Bering Land Bridge National Preserve; (2) Cape Krusenstern National Monument; (3) Kobuk Valley National Park; (4) Noatak National Preserve (Northwest Alaska)	Kotzebue	AK						Dog sled, Snowmobile, Snow vehicle
187.	Whiskeytown-Shasta-Trinity Nat'l Rec Area (CA)	Whiskeytown	CA	PT					
188.	William Howard Taft National Historic Site (OH)	Cincinnati	OH	PT					
189.	Wolf Trap Farm Park for Performing Arts (VA)	Vienna	VA	N					
190.	Wrangell - St Elias National Park & Preserve (AK)	Copper Center	AK	C	C				
191.	Yellowstone National Park (WY/MT/ID)	Yellowstone Nat'l Park	WY	C					Snowcoach, stagecoach
192.	Yosemite National Park (CA)	Sierra Nevada	CA	C / PT			C		Stagecoach
193.	Zion National Park (UT)	Springdale	UT	N					
	<b>SURFACE EXISTS, BUT MORE DETAILS NEEDED</b>								
194.	Bluestone National Scenic River (Athens, Pipestem, Hinton - WV)	Glen Jean	WV				C		
195.	<b>Flagstaff Area National Monuments (AZ):</b> (1) Sunset Crater Volcano National Monument; (2) Walnut Canyon National Monument; (3) Wupatki National Monument (AZ)	Flagstaff	AZ	C	C				
196.	Fort Necessity National Battlefield (PA)	Farmington	PA	PT					
197.	Fort Scott National Historic Site (KS)	Fort Scott	KS	PT					
198.	Friendship Hill National Historic Site (PA)	Point Marion	PA	PT					

#	<b>PARK NAME</b> (Park Units with <u>Alternative Surface Transportation</u> as of July 2005)	PLACE	STATE	BUS	VAN	TROLLEY	TRAM			OTHER
199.	Horseshoe Bend National Military Park (AL)	Daviston	AL	C						
200.	John D Rockefeller Jr. Memorial Parkway (WY)	Moose	WY	PT						
201.	Lassen Volcanic National Park (CA)	Mineral	CA	PT						
202.	Lava Beds National Monument (CA)	Tulelake	CA	PT						
203.	Olympic National Park (WA)	Port Angeles	WA	PT						
204.	Vicksburg Nat'l Military Park & Nat'l Cemetery (MS)	Vicksburg	MS	C						
205.	Gila Cliff Dwellings National Monument (NM)	Silver City	NM	C						

**TABLE II. PUBLIC TRANSIT TO, IN, OR AROUND NPS UNITS**

<b>PARK NAME</b>	<b>PLACE</b>	<b>STATE</b>	<b>BUS</b>	<b>VAN</b>	<b>TROLLEY</b>	<b>TRAM</b>	<b>RAIL</b>	<b>OTHER</b>	<b>AIR</b>	<b>WATER</b>	<b>COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units</b>
1. Acadia National Park	Bar Harbor	ME	X								Public transit operated by concessionaire [Downeast Transportation Inc.]; NPS owns buses with operational support from LL Bean; air tours
2. Adams National Historical Park	Quincy	MA	X				X				Public transit (MBTA) bus / rail; Historic trolley shuttle visitor center to historic homes
3. Aleutian World War II National Historic Area	Unalaska/ Dutch Harbor	AK								X	Commercial air service; Charter air service; Public transportation via Alaska Marine Highway
4. Allegheny Portage Railroad National Historic Site	Gallitzin	PA	X	X							Seasonal bus tours: National Park Foundation funded (free fare?); 15-passenger van trip around Allegheny Portage RR and Johnstown Flood sites (teamed with Ford Foundation or Ford Motor Co.); <b>PT limited bus nearby - CamTran &amp; AmTran (Cambria &amp; Blair County)</b>
5. Amistad National Recreation Area	Del Rio	TX	X				Amtrak				Commercial air services; Private air services; Public bus transportation via Rio Multi-Modal Transportation Center; AMTRAK
6. A) Appalachian National Scenic Trail - NEW HAMPSHIRE (Maine to Georgia)		NH	X								EAST NH: North County Transportation PT bus/van service in nearby Gorham & Berlin; Concord Trailways to Pinkham Notch Vis Ctr.; WEST NH/EAST VT: Advance Transit fixed route bus (Hanover, NH/Norwich, VT)
6. B) Appalachian National Scenic Trail - VERMONT (Maine to Georgia)		VT	X								CENTRAL VT: Marble Valley Regional Transit District (The Bus) PT bus in nearby Rutland; The Bus ski bus to Pico/Killington
6. C) Appalachian National Scenic Trail - MASSACHUSETTS (ME to GA)		MA	X								Great Barrington, MA to Rutland, VT along Route 7 via Bonanza Bus Lines; Berkshire (County) Regional Transit Authority
6. D) Appalachian National Scenic Trail - NEW YORK (Maine to Georgia)		NY	X				X				Pawling, NY: AT Stop on Metro-North Commuter Rail Harlem Line; Dutchess County Department of Mass Transportation (LOOP Bus System) nearby AT

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
6. E) Appalachian National Scenic Trail - PENNSYLVANIA (Maine to Georgia)		PA	X								EAST PA: MCTA PT bus to Delaware Water Gap Martz Trailways; LANTA's CCCT LYNX PT bus btwn Lehigh & Carbon Counties; Schuylkill (County) Transportation System PT bus to Port Clinton; MID-PA: NONE
6. F) Appalachian National Scenic Trail - WEST VIRGINIA (ME to GA)		WV					X/ Amtrak				Harpers Ferry: AMTRAK daily service; MARC Commuter Rail Brunswick Line from DC; Shuttle bus from HAFE NHP Vis Ctr (long-term) Pkg Lot to APPA trailhead
7. Arches National Park	Moab	UT	X	X							commercial air tour; No PT; private bus/van shuttles from Moab; Amtrak @ Green River, UT; scheduled bus/van GrRiver-Moab
8. Aztec Ruins National Monument	Aztec	MN	X								commercial air tour; Mini-bus PT Farmington-Aztec on Red Apple Transit (to or near AZRU?)
9. Bent's Old Fort National Historic Site	La Junta	CO	X	X			Amtrak				1/4 mile NPS shuttle service (van?) - pkg lot to fort; Limited PT bus [ La Junta Transit]; AMTRAK to La Junta, CO; commercial air tour
10. Blue Ridge Parkway [470-mile parkway] (VA/NC)	Asheville	NC	X								Fee shuttle bus at Peaks of Otter, VA; Commercial bus tours along parkway; (No direct connection with transit agencies along 469-mile parkway?)
11. Boston African American National Historic Site	Boston	MA	X				X				MBTA (Boston) bus / rail
12. Boston Harbor Islands National Recreation Area	Boston	MA	X				X			X	MBTA (Boston) ferries via MBTA bus / rail
13. Boston National Historical Park [Freedom Trail]	Boston	MA	X				X			X	MBTA bus / rail / ferries (water shuttle)
14. Brown v. Board of Education Nat'l Historic Site	Topeka	KS	X								Topeka Transit (TMTA) PT bus
15. Cabrillo National Monument	San Diego	CA	X								San Diego Trolley (SDTC) public transit bus; air tours
16. Cape Cod National Seashore	Wellfleet	MA	X								NPS parking-beach bus (formerly tram) shuttle in Eastham & PT Bus operated by CC Transit Authority along Route 6
17. Cape Hatteras National Seashore (Nags Head, Buxton, Ocracoke, NC)	Manteo	NC								X	NC DOT PT auto ferries: Cedar Island or Swan Quarter to Ocracoke Island (fee), Ocracoke-Hatteras Island free ferry; commercial air tour; no land PT

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18. Carlsbad Caverns National Park	Carlsbad	NM	X								Carlsbad served by Greyhound & TNM&O bus lines
19. Casa Grande Ruins National Monument	Coolidge	AZ	X								Coolidge, AZ's Cotton Express PT bus 3/4 mile from pkg lot; commercial air tour
20. Chamizal National Memorial	El Paso	TX	X		X						Sun Metro (El Paso) PT bus & downtown trolley bus
21. Charles Pinckney Nat'l Historic Site	Mt.Pleasant	SC	X								Commercial air tour (near Ft. Sumter); CARTA PT bus
22. Chattahoochee River National Recreation Area	Atlanta	GA	X								Metropolitan Atlanta Rapid Transit Authority (MARTA) bus #148 to Powers Ferry (Fulton County); #87 to Island Ford; (MARTA bus near other sites); Cobb County Transit bus near select southern sites (Paces Mill, Cochran Shoals); Gwinnett County Transit near select northern sites (Holcomb Bridge, Medlock Bridge, Bowmans Is.)
23. Chesapeake & Ohio Canal Nat'l Historical Park (DC/MD/WV) [Potomac River]	Hagerstown	MD	X				X				Mule-drawn historic canal barge tours; Georgetown Vis Ctr: WMATA bus/rail; Great Falls Tavern: Ride-On (Montgomery County Transit); near Williamsport Visitor Center: County Commuter (Hagerstown, MD)
24. Colonial National Historical Park, includes: Jamestown Island; Yorktown Nat'l Battlefield & Cemetery; Cape Henry Nat'l Memorial (VA Beach)	Yorktown	VA							X		Historic Triangle Shuttle (2004 demo cooperative effort by 5 private foundations & NPS) : Free bus Colonial Williamsburg Visitor Center to Jamestown & Yorktown, Jamestown Area Shuttle, Yorktown Trolley; commercial air tour; free auto ferry Scotland-Jamestown
25. Cuyahoga Valley National Park (Cleveland to Akron, OH along 20-mile Canal Towpath Trail)	Brecksville	OH	X								Cuyahoga Valley Scenic Railway - scenic rail (coop agreement, NPS owns tracks, CVSR operates); <b>GCRTA (Cleveland) &amp; Metro (Akron) provide PT near CUVA</b>
26. Dayton Aviation Heritage National Historical Park	Dayton	OH	X								Miami Valley RTA PT bus to Wright Cycle Co. MVRTA operates (bus) shuttle around DAAV
27. Delaware & Lehigh National Heritage Corridor (PA) [150-mile long canal & RR corridor]	Bethlehem	PA	X				Amtrak				Canal boats in Easton at Two Rivers Landing; Amtrak to Bristol & Doylestown; Bus service from Philly & NYC along corridor
28. Delaware Water Gap National Recreation Area (PA-NJ) [including Middle Delaware National Scenic River - 40 miles long]	Bushkill	PA	X								EAST PA: MCTA PT bus to Delaware Water Gap & Martz Trailways [at Appalachian Trail] ; Limited seasonal bus from NYC to Milford/Matamoras, PA ; WEST NJ/NY: Regular daily service to Port Jervis, NY [Shortline Bus]; Limited MTA Metro-North RR ComRail to Port Jervis, NY

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29. Denali National Park & Preserve	Denali Park	AK					AK RR				Alaska RR to Park; Concession-provided buses shuttle, camper, tour; 7 air taxis over Park
30. Devils Postpile National Monument [Near Mammoth Lake]	Three Rivers	CA	X								Summer YARTS bus service to Mammoth Lakes from YOSE; mandatory shuttle bus to DEPO & Inyo Nat'l Forest (NPS-US Forest Service partnership); air tours
31. Ebey's Landing National Historic Reserve	Coupeville	WA	X							X	Washington State Ferries (vehicle) to Whidbey Island Mikilteo to Clinton & Port Townsend to Keystone; Island Transit free PT bus around Whidbey Island
32. Edgar Allan Poe Nat'l Historic Site	Philadelphia	PA	X								SEPTA bus (#47); 5 blocks from SEPTA blue line hvy rail
33. Edison National Historic Site	West Orange	NJ	X				X				New Jersey Transit PT bus (#21) to site; NJ Transit Corp. Orange Station on Commuter Rail Morristown Line
34. A) Erie Canalway National Heritage Corridor (524-mile canal system - Buffalo to Albany, NY) [Buffalo area]	Buffalo	NY	X				X				NPS partner with NYS Canal Corporation (of the NYS Thruway); Numerous types of boats to rent or ride along the corridor; <b>BUFFALO / NIAGARA COUNTY</b> : Niagara Frontier Transportation Authority (NFTA) bus and rail (Erie Canal Harbor Station) in Buffalo; NFTA bus to Towanda & Lockport
34. B) Erie Canalway National Heritage Corridor (524-mile canal system - Buffalo to Albany, NY) [Rochester & Fingerlakes area]	Rochester	NY	X								<b>ROCHESTER METRO (ORLEANS, WAYNE, MONROE, SENECA COUNTIES)</b> : Rochester-Genesee Regional Transportation Authority (RGRTA) provides many bus stops/routes in Rochester/Monroe County & outside from Medina (Orleans) to Clyde (Wayne) thru Orleans Transit Service, Wayne Transportation Svc, Seneca Transportation Svc
34. C) Erie Canalway National Heritage Corridor (524-mile canal system - Buffalo to Albany, NY) [Syracuse area]	Syracuse	NY	X								<b>SYRACUSE METRO (CAYUGA, OSWEGO, ONONDAGA COUNTIES)</b> : Central NY Regional Transportation Authority (CENTRO) provides many bus stops/routes to and around Canalway from Port Bryan (Cayuga) to Minoa (Onondaga) & Oswego/Fulton (Oswego); <b>WAYNE COUNTY</b> : Madison Transit System; <b>ROME &amp; UTICA / ONEIDA COUNTY</b> : Limited bus PT by VIP Public Transit in Rome - Bus #1, 2 & 6 to HQ @ Ft. Stanwix in Rome Utica Transit Authority in Utica
34. D) Erie Canalway National Heritage Corridor (524-mile canal system - Buffalo to Albany, NY) [Albany & Hudson River area]	Albany	NY	X								<b>HERMIKER COUNTY</b> : None; <b>SCHENECTADY, ALBANY &amp; TROY AREA</b> : Capital District Transportation Authority provides many bus stops/routes to and around Canalway; <b>GLENS FALLS / WASHINGTON COUNTY</b> : Limited PT bus service by Greater Glens Falls Transit (GGFT)

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35. Essex National Heritage Area (40-miles along north coast of MA)	Essex County	MA	X				X				MBTA Commuter Rail from Boston North Station on Rockport and Newburyport lines; MBTA PT bus to Salem; <u>Regional buses?</u>
36. Fire Island National Seashore	Patchogue	NY	X				X				Passenger ferries [Davis Park Ferry Co. / Sayville Ferry Co.]; private water taxis available on island communities; Long Island RR to 3 ferry terminals; Suffolk Co. Transit bus
37. Fort McHenry National Monument & Historic Shrine	Baltimore	MD	X								MTA bus, <u>historic trolley</u> , shuttle boat [Ed Kane's Water Taxi] from Inner Harbor (Baltimore Water Taxi)
38. Fort Necessity National Battlefield	Farmington	PA	X								Fayette Area Coordinated Transport (FORT) PT scheduled buses run by FONE from Uniontown & Nemaocolin Woodlands
39. Fort Raleigh National Historic Site	Manteo	NC								X	NO PT on Manteo; Ferry boat from Cedar Island or Swan Quarter to Ocracoke Island or Hatteras Island
40. Fort Scott National Historic Site	Fort Scott	KS	X								Jefferson Bus Lines serves Fort Scott
41. Fort Smith National Historic Site (AR & OK)	Fort Smith	AR									City of Fort Smith PT Trolley bus to all area museums from City Visitor Center; taxi service
42. Fort Stanwix National Monument	Rome	NY	X				Amtrak				VIP (Rome) Public Transit bus route to Fort; Amtrak RR station 1 mile from Fort
43. Fort Sumter National Monument - including Fort Moultrie (Charleston Harbor & Sullivan Island, SC)	Charleston	SC	X								Ferry boats [Fort Sumter Tours, Inc.] from Liberty SQ Visitor Center & Patriots Point, CARTA bus to ferries; CARTA bus to Sullivans Island & Fort Moultrie
44. Fort Union Trading Post National Historic Site	Williston	ND					Amtrak				FOUN ranger (ADA) shuttle for access; No PT to Fort; Amtrak Empire Builder stop in Williston; ample school & tour bus parking
45. Fort Vancouver National Historic Site (WA / OR)	Vancouver	WA	X								PT bus service to FOVA; Clark County Public Transportation Authority (C-Tran) & connection to Tri-County Metropolitan Transportation District of Oregon (Tri-MET)
46. Frederick Law Olmsted National Historic Site	Brookline	MA	X				X				MBTA PT bus #60 (1/8 mile walk); MBTA Green line (Riverside "D") LR subway (1/4 mile walk)

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47. Fredericksburg & Spotsylvania National Military Park, including Fredericksburg National Cemetery	Fredericksburg	VA	X								Fredericksburg Regional Transit (FRED) provides bus routes to Fredericksburg FRSP NMP sites; FRED Purple Line PT bus runs by Spotsylvania; Virginia Railway Express (VRE) w/in 1/2 mile from Visitor Center & Cemetery; VRE connection to FRED bus & AMTRAK; no PT to Wilderness or Chancellorsville
48. Friendship Hill National Historic Site	Point Marion	PA	X								Fayette Area Coordinated Transport (FORT) PT scheduled buses run by FRHI from Uniontown & Smithfield
49. Gates of the Arctic National Park & Preserve	Bettles	AK	X								Air taxis to Anaktuvuk Pass, Bettles, & Coldfoot; Bush air charters from Bettles & Coldfoot; bus service via Dalton Highway Express bus on east side; private charter boats
50. Gateway National Recreation Area w/ Jamaica Bay, Staten Island, Sandy Hook Units (NY / NJ))	Staten Island	NY	X				X				<b>JB:</b> MTA NYC subway & bus; <b>SI:</b> Near MTA Staten Island Railway & MTA transit SI bus; <b>SH:</b> NJ Transit bus to Highlands; passenger ferries
51. General Grant National Memorial	New York City	NY	X				X				Metropolitan Transit Authority (MTA) NYCT subway (#1 or # 9 to W116 St-Columbia University station, then 8 block walk) & NYCT bus (M5)
52. A) George Washington Memorial Parkway (VA-DC-MD): (1) Fort Hunt Park, (2) Dyke Marsh Wildlife Preserve, (3) Belle Haven Park, (4) Woodrow Wilson Memorial Bridge, (5) Dangerfield Island [Virginia - South of Reagan National Airport to Mount Vernon]	Arlington	VA	X								WaMATA (metro) subway Yellow line stations (Huntington) nearby; Fairfax Connector PT bus w/in 1/2 mile of all sites
52. B) George Washington Memorial Parkway (VA-DC-MD): (6) Roaches Run Waterfowl Sanctuary, (7) Gravelly Point, (8) Arlington House (Robert E. Lee Mem.), (9) Netherlands Carillon, (10) USMC Mem., (11) Women in Military Service Mem., (12) Lyndon Baines Johnson Mem. Grove on the Potomac, (13) Lady Bird Johnson Park, (14) Arlington Mem. Bridge, (15) Theodore	Arlington	VA	X				X				Narrarated concessionaire shuttle [Tourmobile] to Arlington Cemetery and close sites - ARHO, WOMI, NECA, USMC; WaMATA (Metro) subway blue line stops (Pentagon, Arlington Cemetery, Rosslyn w/in 3/4 mile of all sites; WaMATA bus near most sites; Loudoun County Commuter Bus (LCMT) connection at subway stops

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
Roosevelt Mem. Bridge, (16) Theodore Roosevelt Island, (17) Francis Scott Key Mem. Bridge [VA & DC: all sites w/in 2 miles of Arlington Nat'l Cemetery]											
52. C) George Washington Memorial Parkway (VA-DC-MD): (18) Fort Marcy (VA), (19) Claude Moore Farm, (20) Turkey Run Park (VA), (21) Great Falls Park (VA), (22) Glen Echo Park (MD), (23) Clara Barton NHS (MD) [VA & MD: North of DC to Great Falls Park]	Glen Echo	MD	X								Montgomery County (MD) Ride-On bus stop within 1/4 mile from GLEC & CLBA (connection to Friendship Heights WaMATA red line). Distant PT to Virginia sites
53. Glacier National Park	West Glacier	MT					Amtrak				Red bus (Jammers) scheduled shuttles, tours and hiker shuttles betwn lodges [Glacier Park, Inc.]; Interperative bus tours [Sun Tours]; boat tours [Glacier Park Boat Co]; boat tour to Goat Haunt; Amtrak to W.Glacier, E.Glacier, Essex; shuttle bus: Kalispell airport to Apgar & Lake McDonald; air tours (GLAC & Blackfeet Indian Reservation)
54. Glen Canyon National Recreation Area (AZ / UT)	Page	AZ								X	In-park (bus?) shuttle service available at Wahweap, Bullfrog, Halls Crossing, Hite; scheduled passenger/vehicle ferry btwn Halls Crossing & Bullfrog Bay along Route 276 [State of Utah funded, AMARAK operated]; boat tours along park; air tours
55. Gloria Dei Church National Historic Site	Philadelphia	PA	X								Southeastern Pennsylvania Transportation Authority (SEPTA) bus #64 w/in 1 block, #57 w/in 3 blocks
56. A) Golden Gate National Recreation Area: (1) Alcatraz Island	San Francisco	CA	X		X					X	Access only by Blue and Gold Fleet ferry at Pier 41 (MUNI); MUNI bus / cable car (trolley) to Pier 41; tram on island (NPS or concessionaire?); air tours
56. B) Golden Gate National Recreation Area: (2) Presidio [San Francisco], (3) Ft. Point [San Francisco], (4) Muir Woods [Mill Valley]	Mill Valley	CA	X	X						X	Fort Point/Presidio: Free PresidiGo Shuttle connection to MUNI (MUNI bus, electric trolley bus & LR?) & Golden Gate Transit; Muir Woods/Marin Headlands: (limited PT service) GGT bus to Hwy 101 & thru GOGA in Marin County, MUNI bus weekend service; West Marin Stagecoach South Route to Muir Woods from Muir Beach trailhead; air tours; water transit to any site?

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57. Governors Island National Monument	New York City	NY	X				X			X	Ferry ('05 - Lower Manhattan) from Pier 11 on East River; To Pier 11 - NYCT bus: M1, M6, M15; NYCT subway: #3 & #4 lines to Bowling Green station, #W & #R to Whitehall/South Ferry, #1 to S. Ferry; NJ ferries to Pier 11, <b>LaGuardia ferry shuttle ('05?)</b>
58. Grand Teton National Park	Moose	WY	X								GRTE shuttle bus to Jackson Hole airport; scenic cruises; shuttle boat across Jenny Lake; <b>START (Jackson) bus service?</b> ; air tours
59. Great Smoky Mountains National Park (NC/TN)	Gatlinburg	TN			X						Gatlinburg trolley bus route to GRSM Visitor Center; air tours (GRSM & Cherokee Indian Reservation)
60. Guilford Courthouse National Military Park	Greensboro	NC	X								Greensboro Transit Authority (GTA) PT bus #8 to GUCO, #3 w/in 1/2 mile of GUCO
61. Gulf Islands National Seashore (Gulf Breeze, FL / Ocean Springs, MS)	Gulf Breeze	FL	X								<b>FL:</b> ECAT bus (Pensacola) to Fort Barrancas Vis Ctr. <b>MS:</b> Passenger ferry- Gulfport to Fort MA. [Pan Isles, Inc.]; Water taxis: Visitors Center to Cat, East Ship, Horn, Petit Bois Islands
62. Hamilton Grange National Memorial	New York City	NY					X				Multiple MTA subway stops near HAGR: #1/#9 (137 St.-City College; A,B,C,D (135 St., 145St.); NYC Transit bus routes provide close service (M4,M5, M100, M101, Cross-town BX-19)
63. Hampton National Historic Site	Towson	MD	X								Mass Transit Administration of Maryland (MTA) #8 PT bus from Townson Center w/in 1 mile from HAMP
64. Harpers Ferry National Historical Park	Harpers Ferry	WV					X/ Amtrak				Shuttle bus service btwn Vis Ctr & Lower Town; Amtrak & MARC rail service to Lower Town Historic District
65. Harry S. Truman National Historic Site (Independence & Grandview, MO)	Independence	MO	X								Kansas City Area Transportation Authority (KCATA) PT bus; <b>Independence:</b> #24 & others to Ind Ctr, then 291 to Home, Library & Museum; <b>Grandview:</b> limited #28xx to Farm Home
66. Hawaii Volcanoes National Park	Hilo	HI	X								Hele-On PT bus to Visitor Center; commercial air tour
67. Hohokam Pima National Monument	Coolidge	AZ	X								Coolidge's Cotton Express PT bus ( <b>to or near site?</b> ); commercial air tour; <b>HOPI is closed to the public</b>
68. Hot Springs National Park	Hot Springs	AR			X						City of Hot Springs Trolley to HS Mtn Tower (seasonal)

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
69. Hubbell Trading Post National Historic Site	Ganado	AZ	X								Navajo Transit PT buses to Ganado, <b>route near HUTR</b> ; commercial air tour
70. Ice Age National Scenic Trail	Madison	WI	X								Scenic points on / near trail accessible by PT
71. Illinois & Michigan Canal National Heritage Corridor (97-mile canal - Lake Michigan in Chicago to Illinois River in Peru, IL)	Lockport	IL	X								PACE Suburban Bus, Northeast Illinois Regional Commuter RR Corporation (METRA), Chicago Transit Authority Rail & AMTRAK to select sites; METRA Heritage Corridor stations in Summit, Willow Springs, Lemont, Lockport, Joliet (no PT bus or rail service west of Joliet to Kendall or LaSalle Counties)
72. Independence National Historical Park	Philadelphia	PA					X				SEPTA bus, light (Trolley), heavy, commuter rail; PATCO train, private tour buses w/ designated drop-off/pick up location; Horse-carriage tours
73. Indiana Dunes National Lakeshore	Porter	IN					X				No Ind Commuter Transportation District ( <b>Chicago South Shore &amp; South Bend RR</b> ) stations w/in 1 mile from: Dunewood Camground, Inland Marsh Trail, Indiana Dunes St. Park, Lakeview Beach
74. James A. Garfield National Historic Site	Mentor	OH	X								Laketran PT bus #1 to site in Mentor, OH; #2 & #3 nearby
75. A) Jean Lafitte National Historic Park & Preserve [3 Sites West of New Orleans]	Lafayette	LA	X				Amtrak				No PT to Prairie Acadian Cultural Center in Eunice; Lafayette Transit System PT #55 bus to Acadian Cultural Center; no PT to Wetlands Acadian Cultural Center in Thibodaux; <b>Ranger-led</b> Louisiana wooden boat Bayou tours at Acadian & Wetlands Acadian Cultural Centers (reservations & fee); Amtrak on-board summer educational programs re. JELA and area history
75. B) Jean Lafitte National Historic Park & Preserve [3 sites in New Orleans area]	New Orleans	LA	X								Many New Orleans Regional Transit Authority (RTA) PT bus routes by French Quarter Visitor Ctr; JetTransit PT bus route W-4 close to Barataria Preserve in Crown Point; No PT to Chalmette Battlefield, but 3/4 mile from RTA bus route #89, SBURT Lines AP bus route, and 1 mile from Chalmette-Algiers Ferry Landing; Canoe boat trips at Barataria Preserve
76. Jefferson National Expansion Memorial	St. Louis	MO	X				X	X			St. Louis MetroLink (light rail) & Metrobus (Bi-State); Metro-operated Gateway Arch Tram (arch "elevator"); <b>Metro Riverboats nearby</b> ; air tours

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
77. John D Rockefeller Jr Memorial Parkway	Moose	WY					X				GRTE-YELL: GRTE shuttle bus to Jackson Hole airport
78. John F Kennedy National Historic Site	Brookline	MA	X				X				MBTA PT Green "C" LR Line to Coolidge Corner Stop- 4 blocks (1/3 mile) to JFK NHS; MBTA PT bus #66 1 block away
79. John Muir National Historic Site	Martinez	CA	X								County Connection PT bus #116 to site and connection to BART rail stations; commercial air tour
80. Johnstown Flood National Memorial	South Fork	PA	X								Seasonal bus tours: National Park Foundation funded (free fare?); 15-passenger van trip around Allegheny Portage RR & Johnstown Flood sites (with Ford Foundation or Ford Motor Co.); CamTran PT bus to flood sites in Johnstown, no PT to South Fork Memorial
81. Joshua Tree National Park	Twenty-nine Palms	CA	X								Morongo Basin Transit Authority PT bus #21 to Yucca Valley near Black Rock Canyon, MBTA bus #1, 12, 15 nearby 29 Palms to Yucca Valley, #3B to JOTR Visitor Ctr; commercial air tour; 2 private stock horsecamps at Ryan & Black Rock campgrounds (reservations)
82. A) Juan Bautista De Anza National Historic Trail [Nogales, AZ to San Francisco, CA] Arizona trail portion	Nogales	AZ	X								Santa Cruz County: no PT; Pima County: many Tucson SunTran PT buses along trail; Pinal County: Cotton Express near trail (Coolidge, AZ); Maricopa County: no PT; Yuma County: YCAT PT bus along trail in Yuma city
82. B) Juan Bautista De Anza National Historic Trail [Nogales, AZ to San Francisco, CA] Southern California trail portion	Ventura	CA	X				X				Imperial County: no PT nearby ( <u>ICTS routes?</u> ); San Diego County: Limited SDMTS PT bus to Anza Borrego Desert State Park; Riverside County: many RTA PT buses along trail; Los Angeles County: many LACMTA buses and heavy rail along trail; Ventura County: many South Coast Area Transit PT buses along trail; Santa Barbara County: SBMTD PT bus in SB city area, limited COLT bus (Lompoc); San Luis Obispo County: SLORTA PT buses along trail
82. C) Juan Bautista De Anza National Historic Trail [Nogales, AZ to San Francisco, CA] Northern California trail portion	San Francisco	CA	X				X			X	Monterey County: Monterey-Salinas Transit PT bus along trail; San Benito County: limited County Express PT bus service near trail; Santa Clara County: Valley Transit Authority PT bus along trail, VTA LR near few pts on trail; Alameda County: VTA bus to Fremont, AC

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											Transit PT bus along trail, Harbor Island Ferry links Alameda & SF Counties; Contra Costa County: AC Transit to Martinez, CCCTA & ECCTA PT buses to Concord & Antioch; San Mateo County: SamTrans PT bus along trail; San Francisco County: MUNI bus, LR near trail, PresidiGo Shuttle, BART HR stations near many pts on trail in Bay Area.
83. Kaloko-Honokohau National Historical Park	Kailua-Kona	HI	X								Hele-On PT bus to KAHO (or near); commercial air tour
84. Katmai National Park & Preserve	King Salmon	AK	X								On-demand boat and float-plane service (100 private firms) that land and dock anywhere, esp. Brooks Camp; fix-scheduled boat to fishing camp; PT bus?
85. Kenai Fjords National Park	Seward	AK	X				AK RR			X	Bus, ferry, railroad to Seward. Alaska Railroad; AK Marine Highway (ferry) System - Southwest AK route; local PT bus?
86. Kennesaw Mountain National Battlefield Park	Kennesaw	GA	X								Weekend shuttle bus: Vis Ctr Mntop along Kennesaw Mtn Dr.; Cobb County Transit bus (#15) w/in 2 miles
87. Keweenaw National Historical Park	Calumet	MI	X								<b>Quincy Unit:</b> Cog-Rail Tramway from Quincy Hoist to Underground Mine. Charter bus [Superior Coaches & Delivery of Houghton]; Nearby PT - Houghton Motor Transit Line; Ferry to Houghton; <b>Calumet Unit:</b> No PT/ATP
88. Klondike Gold Rush National Historical Park	Skagway	AK	X							X	Public bus from Whitehorse, Yukon Territory.; AK Marine Hwy (ferry) System - Inner Passage Route
89. Klondike Gold Rush – Seattle Unit National Historic Park	Seattle	WA	X				X			X	Many PT routes to site - King County Dept. of Transportation (Metro) bus and waterfront streetcar (LR); Central Puget Sound Regional Transit Authority (Sound Transit); Washington State Ferries 4 blocks from site
90. Lake Mead National Recreation Area (NV / AZ)	Boulder City	NV	X								Boat tour [formerly Desert Princess]; Las Vegas bus tours; air tours; Local bus

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
91. Lake Roosevelt National Recreation Area [along Columbia River]	Coulee Dam	WA	X							X	Rental boats/houseboats: Keller Ferry [RRE] & Kettle Falls Marina [Lake Roosevelt Resort & Marina]; Free auto ferry: Keller Ferry (Hwy #21) & Gifford Ferry (GIF-Hwy #25); Ranger-guided canoe tours; commercial air tour; limited Grant TA PT bus #34, #35 to Coulee Dam
92. Lassen Volcanic National Park	Mineral	CA	X								commercial air tour; no PT; <b>PT bus to Chester (Plumas Transit); Plumas charters buses to LAVO</b>
93. Lava Beds National Monument	Tulelake	CA	X								commercial air tour; no PT; <b>Sage State (Modoc County) PT bus to Newell &amp; Tulelake</b>
94. Lewis & Clark National Historic Park (formerly Fort Clatsop National Memorial)	Astoria	OR	X								Lewis & Clark Explorer Shuttle (NPS-Sunset Empire Transit District partnership) to visitor center & fort from Astoria Transit Center & Neutl Landing and many motels & campgrounds (service initiated in 2004); commercial air tour
95. Lincoln Home National Historic Site	Springfield	IL			X		Amtrak				Springfield Trolley; Springfield PT Transit bus; Amtrak Station - 1/2 mile
96. Little Rock Central High School Nat'l Historic Site	Little Rock	AR	X								Central Arkansas Transit Authority (CAT) #3 PT bus
97. Longfellow National Historic Site	Cambridge	MA					X				MBTA PT bus (many routes to Harvard SQ) & red line heavy rail to Harvard Station
98. Lowell National Historical Park	Lowell	MA	X								<b>Historic trolley on rails</b> ; Canal boats & LRTA shuttle bus link to MBTA Commuter Rail
99. Lower East Side Tenement Museum National Historic Site (Manhattan, NY)	New York City	NY	X				X				NYC MTA PT bus #M15 (Grand/Allen Sts stop) - 2 blocks away; MTA B/D subway lines (Grand St station) - 6 blocks away; MTA F subway (Delancy St station) - 3 blocks; MTA J/M/Z subway (Essex St station) - 3 blocks to site
100. Maggie L. Walker National Historic Site	Richmond	VA	X								Greater Richmond Transit Authority (GRTC) PT bus - downtown black route to site, green route 1 block from site

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
101. Manhattan Sites - (NY): (1) Castle Clinton National Monument (CACL); (2) Federal Hall Nat'l Memorial (FEHA); (3) General Grant Nat'l Memorial (GEGR); (4) Hamilton Grange Nat'l Memorial (HAGR); (5) St. Paul's Church Nat'l Historic Site (STPA); (6) Theodore Roosevelt Birthplace Nat'l Historic Site (THRO)	New York City	NY	X				X			X	MTA NYC Transit bus / subways to all sites; Ferries to Castle Clinton-Battery Park <i>?Westchester County DOT Bee Line PT bus, GTJC to CACL, STPA, THRO, FEHA?</i>
102. Manzanar National Historic Site	Independence	CA									<i>Inyo Mono Transit PT bus route to Lone Pine, Olancha &amp; Keleler (surrounding MANZ) in 2005; commercial air tour</i>
103. Martin Luther King, Jr. National Historic Site	Atlanta	GA	X				X				Metro Atlanta Rapid Transit Auth (MARTA) #3 bus to Auburn Ave, MARTA East Rail line to King Memorial or Inman Park stations
104. McLoughlin House National Historic Site [Part of Fort Vancouver National Historic Site - Washington]	Oregon City	OR	X								NO CURRENT INFORMATION; Part of Ft. Vancouver NHS; Tri-Met PT bus #99 to site (other routes close)
105. Minute Man National Historical Park	Concord	MA	X								Liberty Ride Tour Bus (Lexington & NPS -fee) - connects MBTA commuter rail Concord Station; Lexpress (Lexington) local bus; MBTA bus nearby
106. Mississippi National River & Recreation Area (Twin Cities Area - Minneapolis - St. Paul)	St. Paul	MN	X				X				NPS-guided-paddleboat tours [Padelford Packet Boat Co.]; Birding Boat in St. Paul area & Big River Journey (4th - 6th Grade) student program - Harriet Island to Ft. Snelling St. Park; MTC bus & light rail to or near many locations along MISS (Ft. Snelling LR Station)
107. Morristown National Historical Park	Morristown	NJ					X				<i>New Jersey Transit PT bus (#??) to site; NJ Transit Corp. Morristown Line (Morris &amp; Essex) Commuter Rail to Morristown Center close to Washington HQ &amp; Ft. Nonsense; Jockey Hollow &amp; NJ Brigade Encampment Areas 2+ miles from town center; horse trails at Jockey Hollow area</i>
108. Natchez National Historical Park	Natchez	MS	X		X						Mini-bus ( <i>of Trolley</i> ) by Natchez Transit System; No concessionaire bus tours; private tour buses

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
109.A) National Capital Parks – East: (1) Anacostia Park - including (2) Kenilworth Park & Aquatic Gardens; (3) Kemilworth Marsh; (4) Langston Golf Course (NE Washington, D.C.; east side of Anacostia River)	Washington , DC	DC	X								Washington Metropolitan Area Transit Authority (Metro) bus stops within 1/2 mile of all sites; near orange/blue subway stations
109.B) National Capital Parks – East: (5) Frederick Douglass National Historic Site; (6) Fort Circle Parks (Civil War Defenses) - 9 parks including Fort Dupont, Fort Foote, Fort Stanton, Fort Mahan & 5 others (SE Washington, D.C.; east side of Anacostia River)	Washington , DC	DC	X								WaMATA (Metro) bus stops within 1/5 mile of F.Douglass NHS & near green Metro subway Anacostia station; Fort Circle Parks near some Metrobus routes, but require walking to sites
109.C) National Capital Parks – East: (7) Mary McLeod Bethune Council House National Historic Site; (8) Sewall-Belmont House National Historic Site; (9) Capital Hill Parks - multiple parks, medians, circles, squares, triangle green spaces (NW & NE Washington, D.C.; west side of Anacostia River)	Washington , DC	DC	X								WaMATA (Metro) bus stops within 1/4 mile of all sites; McLeod NHS near orange/blue Metro subway McPherson Sq. station; Sewall-Belmont NHS near red Metro subway Union station
109.D) National Capital Parks – East: (10) Greenbelt Park; (11) Baltimore-Washington Parkway (Prince George's & Anne Arundel Counties, MD; north of Washington, D.C.)	Prince George's County	MD	X								WaMATA (Metro) bus to Greenbelt Park entrance; distance from green Metro subway station; <b>MARC/MTA?</b>
109.E) National Capital Parks – East: (12) Suitland Parkway; (13) Oxon Run; (14) Oxon Cove Park; (15) Harmony Hall; (16) Fort Washington Park; (17) Piscataway Park - including (18) Hard Bargain Farm; (19) National Colonial Farm; (20) Marshall Hall (Prince George's & Charles Counties, MD; southeast of D.C.)	Prince George's County										NO ATP or Public Transportation to this park of National Capital Parks – East. [WaMATA (Metro) bus to Oxon Hill Park & Ride Lot, maybe 1/2 mile further to Oxon Hill Farm Park; distant & limited transit to Parkway, Ft. Washington & Piscataway Park; <b>MARC/MTA?</b> ]

PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
110. A) National Mall & Memorial Parks (formerly National Capital Parks-Central): (1) Constitution Gardens, (2) Ford's Theatre National Historic Site, (3) Franklin Delano Roosevelt Memorial, (4) Korean War Veterans Memorial, (5) Lincoln Memorial, (6) National Mall, (7) World War II National Memorial, (8) Old Post Office Tower, (9) Pennsylvania Avenue National Historic Site (1,004 acres along eastern shore of Potomac River in DC)	Washington, DC	DC	X				X				Narrated concessionaire shuttle [Tourmobile] to all sites; private tour buses; WaMATA (Metro) bus & subway stops w/in 1/2 mile of all sites; all subway lines near, blue/orange subway lines closest; <i>Metro connects w. Loudon County &amp; OmniRide Com Bus</i>
110. B) National Mall & Memorial Parks (formerly Nat'l Capital Parks-Central): (10) Peterson House (Lincoln's death site), (11) President's Park, (12) Potomac Park (East & West), (13) Thomas Jefferson Memorial, (14) Tidal Basin, (15) US Navy Mem., (16) Vietnam Veterans Memorial, (17) Washington Monument, (18) White House, (19) Nat'l Law Enforcement Officers Mem, (20) African-American Civil War Mem., (21) DuPont Circle (1,004 acres along eastern shore of Potomac River in DC)	Washington, DC	DC	X				X				Narrated concessionaire shuttle [Tourmobile] to all sites; private tour buses; WaMATA (Metro) bus & subway stops w/in 1/2 mile of all sites; all subway lines near, blue/orange subway lines closest; <i>Metro also connects w. Virginia Railway Express</i>
111. National Park of American Samoa	Pago Pago	AS	X								Ferries between islands; "Aiga" buses on Tutuila; Scheduled air service from Pago Pago, Tutuila to Ofu & Ta'U Islands
112. New Bedford Whaling National Historic Park	New Bedford	MA	X								Southeastern Regional Transit Authority PT downtown bus to park
113. New Jersey Coastal Heritage Trail Route (Coastal & Shore regions, NJ)	Newport	NJ					X			X	<b>Sandy Hook Region:</b> NJ Transit ComRail North Jersey Coast Line South Amboy to Pt. Pleasant/Bayhead, NJT bus to Highlands & other points, passenger ferry [NY Fast Ferry]; <b>Barneгат Bay Region:</b> NJT bus; <b>Absecon Region:</b> NJT bus; <b>Cape May Region:</b> <i>Ocean View Welcome Ctr - ?</i> , auto ferry, NJT bus; <b>Delsea Region:</b> <i>Fort Mott Welcome Ctr - ?</i> , NJT bus

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PARK NAME	PLACE	STATE	BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	COMMENTS (as of July 2005) on <u>Public Transit</u> and other transportation available in and around NPS units
114. New Orleans Jazz National Historic Park	New Orleans	LA	X								New Orleans Regional Transit Authority (RTA) PT bus #5, #55, #57 runs by Visitor Center
115. New River Gorge National River: 53-mile waterway through Fayette, Raleigh, Summers Counties.	Fayetteville	WV					Amtrak				Limited Amtrak to 3 towns: Hinton, Prince, Thurmond. Canoe, kayak, boat trips. <b>Canyon Rim Vis Ctr (Fayette), Thurmond Depot Vis Ctr (Oak Hill), Grandview Vis Ctr (near Mt. Hope &amp; Beckley), Hinton Visitor Center (Hinton)</b>
116. North Cascades National Park (north & south units) including: > Ross Lake National Recreation Area [Newhalem, WA] & > Lake Chelan National Recreation Area [Stehekin, WA] (Northeast WA)	Marblemount	WA	X								Stehekin Shuttle (Lower Valley Shuttle) at south tip of NOCA Park from Lake Chelan NRA to High Bridge (old school bus-NPS or Concessionaire?). <b>2003 flood cut NPS- ops summer bus shuttle srvc thru NOCA.</b> LINK PT bus to LACH ferry. Ferry service along Lake Chelan [Lady of the Lake-Lake Chelan Boat Co., regulated by WA State, <b>no concession</b> ]. <b>Private seaplane to/from Lake Chelan [Chelan Airways]; Concessionaire Water taxi at Ross Lake; SKAT PT bus to Newhalem - ROLA</b>
117. Ocmulgee National Monument	Macon	GA	X								Macon-Bibb Transit Authority (MTA) PT bus #11 to OCMU
118. Oklahoma City National Memorial	Oklahoma City	OK	X								Oklahoma City Transit Services Dept. (Metro Transit) many PT bus routes to OKCI; Blue Line downtown trolley
119. Olympic National Park	Port Angeles	WA							X		Commercial air tour; no PT to OLYM, <b>Clallum Transit</b> routes north and west of OLYM & connections to Seattle; <b>many facilities (hitchracks, corrals, stock camps) for private stock animals; Coho Ferry: Port Angeles to Victoria, B.C.</b>
120. Organ Pipe Cactus National Monument	Ajo	AZ		X							(Unscheduled) Van tours w/ ORPI Rangers in winter ( <b>fee</b> ); <b>PIMA County PT bus Tucson-Ajo</b> ; air tours
121. Palo Alto Battlefield National Historic Site	Brownsville	TX	X								Brownsville Urban System (BUS) bus #3 nearest PT (up to 1 mile from PAAL)
122. Perry's Victory & International Peace Memorial	Put-In-Bay	OH	X								TO South Bass Island: Ferries from Catawba [MillerBoat Line], Port Clinton [JetExpress], Sandusky [IslandRocket]; Airplane from Port Clinton & Sandusky [Griffing Island Airlines/Flying Srvcs]; ON SB Is: water taxi, PT bus, historic tram tour, golf carts

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123. Petroglyph National Monument	Albuquerque	NM	X								ABQ Ride PT bus #94, #162, #163 routes by parts of PETR; commercial air tour
124. Pictured Rocks National Lakeshore	Munising	MI									Altran PT backpacker reservation summer shuttle bus (Munising to Grand Sable/Grand Marias); Private boat tours of Lakeshore
125. Point Reyes National Seashore	Point Reyes	CA	X								Limited pkg at Lighthouse & Chimney Rock; During whale-watch season weekends, visitors must park at Drake's Beach & ride fee shuttle bus; West Marin Stagecoach North Route provides limited PT bus along Sir Francis Drake Blvd to Olema (Bear Valley Vis Ctr), Point Reyes, Inverness
126. Port Chicago Naval Magazine National Memorial	Concord	CA	X								Escorted guided free transportation (van?, bus?) by NPS to Memorial on Military Base (access by reservation only); <b>Contra Costa County PT bus to NPS office?</b>
127. Pu'uhonua O Honaunau National Historical Park	Honaunau	HI	X								Hele-On PT bus <b>near or to</b> PUHU; commercial air tour
128. Pu'ukohola Heiau National Historical Site	Kawaihae	HI	X								Hele-On PT bus <b>to</b> PUHE?; commercial air tour
129. Redwood National and State Parks (Humbolt & Del Norte Counties, CA)	Crescent City	CA	X								(Del Norte County) Redwood Coast Transit: Crescent City to Klamath; Guided bus tours [Pride Enterprises]; Guided horse rides & rentals [from Redwood Trail Resort - REDW State Park concessionaire]; REDW state & nat'l parks shuttle bus no longer operating
130. Richmond National Battlefield Park	Richmond	VA									Greater Richmond Transit Authority (GRTC) PT bus: Blue Routes to Visitor Ctr at Tredegar Iron Works , Hollywood Cemetery, Monroe Park, Chimborazo Medical Museum; Purple Routes 1-2 miles from Cold Harbor Battlefield Visitor Ctr; no PT to Malvern Hill/Glendale Visitor Ctr or Fort Harrison Visitor Center

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PARK NAME	PLACE	STATE		VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	on <b>Public Transit</b> and other transportation available in and around NPS units
131. A) Rock Creek Park (DC): (1) Old Stone House, (2) Montrose Park, (3) Dumbarton Oaks Park, (4) Normanstone Parkway, (5) Whitehaven Park, (6) Glover-Archbold Park, (7) Battery Kemble Park, (8) Meridian Hill Park, (9) Bryce Park, (10) Klinge Valley Park [South of National Zoo]	Washington, DC	DC	X				X				WaMATA Metro PT rail blue/orange line stop (Foggy Bottom) to Old Stone House (up to 1/2-mile walk required); Metro PT bus routes to various sites
131. B) Rock Creek Park (DC): (11) Peirce Mill/Barn, (12) Soapstone Valley Park, (13) Fort Band Park, (14) Fort Bayard Park, (15) Cater Barron Amphitheatre, (16) Nature Center & Planetarium, (17) Fort DeRussy, (18) Miller Cabin, (19) Milkhouse Ford, (20) Fort Stevens, (21) Battleground National Cemetery [North of National Zoo to MD line]	Washington, DC	DC	X								WaMATA Metro PT rail red line stops (Friendship Heights, Fort Totten) to Nature Center, (VanNess station) to Peirce Mill (all sites up to 1-mile walk required from rail); Metro PT bus routes to various sites; horseback riding from Nature Center
132. Roger Williams National Memorial	Providence	RI	X								RIPTA PT bus to Visitor Ctr; Amtrak / MBTA CR station 1/4 mile from Visitor Center
133. Roosevelt-Vanderbilt National Historic Sites: (1) Eleanor Roosevelt National Historic Site (Val-Kill); (2) Vanderbilt Mansion National Historic Site; (3) Home of Franklin D Roosevelt National Historic Site - including FDR Presidential Library and Museum (administered by Nat'l Archives & Records Admin)	Hyde Park	NY	X								Dutchess County Loop PT bus (near or at sites?); MTA Metro-North Commuter RR (Hudson Line) & Amtrak to Poughkeepsie station (5 miles away - Loop connector bus to Hyde Park)
134. Rosie the Riveter WWII Home Front National Historic Park	Richmond	CA	X				X/Amtrak			X	Alameda-Contra Costa Transit District (AC Transit) PT bus #74 to park; close to BART Richmond Rail Station (with Amtrak); nearby Harbor Island Ferry docks (exact location?)

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PARK NAME	PLACE	STATE		VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	on <b>Public Transit</b> and other transportation available in and around NPS units
135. Saint Croix National Scenic Riverway	St. Croix Falls	WI	X								Commercial boat tours (no ferry) (Washington County)
136. Salem Maritime Nat'l Historic Site	Salem	MA	X				X				MBTA bus & commuter rail (nearby)
137. San Antonio Missions National Historical Park	San Antonio	TX	X		X						VIA bus to all sites, Bus #42 from Alamo to Vis Ctr and other points along Mission Rd., and historic downtown streetcar (rubber-wheeled trolley) to Alamo; no ATP to Rancho de las Cabras (23 miles S of San Antonio)
138. San Francisco Maritime National Historical Park	San Francisco	CA	X				X			X	MUNI bus / cable car (trolley); Near Blue/Gold Ferry & other ferries to Piers; air tours
139. San Juan Island National Historical Park	Friday Harbor	WA	X							X	WA ST Ferry(pass/car): Anacortes, WA-Friday Harbor; Other terminals-private ferry/boat tours; PT buses to terminals [Skagit Transit, WTA]; SeaTac commuter flights [Kenmore Air-NW Seaplanes, Wisle Air, San Juan Air]; San Juan Transit island shuttle bus
140. San Juan National Historic Site	San Juan	PR	X	X	X					X	AMA & Metrobus PT bus (w. unreliable schedule) to Old San Juan (OSJ); PT OSJ Trolley 3-routes; 15-pass. private PT "Publicos", AcuaExpreso ferry routes to OSJ + other local commuter ferries; near cruise ship piers; planned 2008 tram-electric busway
141. Santa Monica Mountains Nat'l Recreation Area (Los Angeles area)	Thousand Oaks	CA	X								Heart-of-the-Park (ParkLink) Shuttle fixed route bus to 10 (12?) stops in SAMO (service begins July 2005), to be expanded to connect to LA PT service; commercial air tour
142. Saugus Iron Works National Historic Site	Saugus	MA	X								MBTA PT bus #430 to park from Malden Rail station (4 miles from SAIR) - HR Orange line & Haverhill CR line
143. Sitka National Historical Park	Sitka	AK								X	Tour bus; cruise ships; commercial air; AK Marine Hwy (ferry) System-Inner Passage Route (distance from site?)
144. Sleeping Bear Dunes National Lakeshore	Empire	MI	X								Private passenger ferry from Leland to North & South Manitou Islands [Manitou Island Transit]; <b>On-call BATA bus/van available from Traverse City (unscheduled)</b>
145. Springfield Armory National Historic Site	Springfield	MA	X								Pioneer Valley Transit Authority (PVTA) has many bus Blue routes to Armory (#4, #6, #7, #17)

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PARK NAME	PLACE	STATE		VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER	on <b>Public Transit</b> and other transportation available in and around NPS units
146. Statue of Liberty National Monument / Ellis Island Immigration National Monument (NY/NJ)	New York City	NY	X				X				MTA NYC Transit bus / subway to ferries at Castle Clinton-Battery Park & New Jersey Transit to ferries at Central RR of NJ Terminal at Liberty State Park; Ferry [Circle Line-Statue of Liberty Ferry, Inc.]; air tours
147. Steamtown National Historic Site	Scranton	PA	X								COLTS PT buses; Historic rail short trip & <b>excursions</b> (10 mos.)
148. Thaddeus Kosciuszko National Memorial	Philadelphia	PA	X				X				5 blocks from Independence NHP - SEPTA bus, light (Trolley), heavy (Market-Frankfort Line 5th St. Station), commuter rail; PATCO train
149. Theodore Roosevelt Inaugural Nat'l Historic Site	Buffalo	NY	X				X				Niagara Frontier Transportation Authority (NFTA) metro bus or rail (Buffalo's Allen St. station 3 blocks away)
150. Timucuan Ecological & Historic Preserve, including Fort Caroline National Memorial	Jacksonville	FL	X								Kingsley Plantation has docking facilities for 25-ft boat & designated area for kayak/canoe beach landing; FTCA 1-hr docking for 25-ft boat; St. John's River Ferry to Ft George Island from Mayport; no PT to TIMU or FOCA (JTA bus routes 1+ miles away from south part of park [#K1 closest]; none close to north side of park); car or private watercraft required
151. Touro Synagogue National Historic Site	Newport	RI	X								(Newport County) TOSY 5 minute walk from Newport Gateway Ctr w. Visitor Info Ctr & [RIPTA PT? / Greyhound?] bus station
152. Ulysses S. Grant National Historic Site	St. Louis	MO	X								Limited Metro PT bus #10 by site
153. USS Arizona Memorial	Honolulu	HI	X								The Bus (Honolulu, Oahu) PT buses to Visitor Ctr; Navy shuttle boat only to Harbor Memorial site; Private tour buses; air tours
154. Valley Forge National Historic Park	Valley Forge	PA	X								SEPTA bus to VAFO & Valley Forge bus tour (fee) - <b>who owns buses?</b> ; <b>City Avenue Regional Transit (CART) - nearby service?</b>

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PARK NAME	PLACE	STATE										on <b>Public Transit</b> and other transportation available in and around NPS units	
			BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER			
155. VIRGIN ISLAND PARKS: (1) Virgin Islands National Park (St. John & St. Thomas), (2) VI Coral Reef Nat'l Mon. (St. John), (3) Buck Island Reef Nat'l Mon (Buck Island), (4) Salt River Bay NHP & Ecological Preserve (Christiansted), (5) Christiansted Nat'l Historic Site (Christiansted) (VI)	St. John & St. Thomas	VI	X	X		X			X				Multiple scheduled ferries to St. Thomas & St. John; multi-seat, multi-colored local "safari taxis"- appearances vary (regulated fares); Cruz Bay-Coral Bay PT bus on St. John stop at select VIIS locations; concession tour/dive boats to various sites
156. Weir Farm National Historic Site (Ridgefield / Wilton, CT)	Wilton	CT	X					X					Norwalk Transit District (Wheels) provides closest PT bus service; Housatonic Area Reg. Transit (HART) bus within 5 miles; Metro-North Commuter Rail - Danbury Branch: Branchville Station 1.5 miles from WEFA
157. Whiskeytown-Shasta-Trinity Nat'l Recreation Area	Whiskeytown	CA	X										Reading Area Bus Authority (RABA) PT bus #8 to Shasta Lake area, #1 & #8 to Shasta Dam; Ranger-led kayak tours (fee); commercial air tour; no PT
158. William Howard Taft National Historic Site	Cincinnati	OH	X										Cincinnati SW OH Reg. Transit Authority (SORTA) #49 bus
159. Yosemite National Park	Sierra Nevada	CA	X										YARTS (regional) PT bus <b>fare</b> service; (Concess) YOSE Valley <b>free</b> shuttle bus & seasonal shuttle in Wawona/Mariposa Grove, Badger Pass (ski area) & Tuolumne Meadows (new hybrid diesel-electric buses); <b>Fee</b> concessionaire service: Valley Floor Tram, Big Trees Tram, Grand Tours (hikers' bus); round-trip tours from gateway areas [VIA Adventures]; stagecoach trips (?); air tours
<b>TOTAL Park Units with Public Transit To, In, &amp; Around the NPS Unit (some parks contain multiple sites that are each counted)</b>			<b>160</b>	<b>7</b>	<b>10</b>	<b>1</b>	<b>60</b>	<b>2</b>			<b>24</b>		
			BUS	VAN	TROLLEY	TRAM	RAIL	OTHER	AIR	WATER			

**TABLE 12. WATER / AIR ATP / PT IN NPS PARK UNITS**

#	PARK NAME (Park Units with <u>Alternative Water and Air Transportation</u> as of July 2005)	PLACE	ST	WATER	AIR	COMMENTS
1.	Abraham Lincoln Birthplace National Historic Site (KY)	Hodgenville	KY		C	Commercial air tour
2.	Acadia National Park (ME)	Bar Harbor	ME		FAA	Public transit operated by concessionaire [Downeast Transportation Inc.]; NPS owns buses with operational support from LL Bean; air tours
3.	Agate Fossil Beds National Monument (NE)	Harrison	NE		C	Air Tour; no PT
4.	Alagnak Wild River (AK)	King Salmon	AK	C	C	Charter Air Service; Power boat
5.	Aleutian World War II National Historic Area (AK)	Unalaska/Dutch Harbor	AK	PT - AK Marine Hwy	C	Commercial air service; Charter air service; Public transportation via Alaska Marine Highway
6.	Alibates Flint Quarries National Monument (TX)	Fritch	TX		C	Commercial air service
7.	Amistad National Recreation Area (TX)	Del Rio	TX		C	Commercial air services; Private air services; Public bus transport via Rio Multi-Modal Transportation Ctr;AMTRAK
8.	Andersonville National Historic Site (GA)	Andersonville	GA		C	Commercial air services; Bus depot 10 miles from park in Americus, GA; no PT
9.	Aniakchak National Monument (AK)	King Salmon	AK	C	C	Air tour; Float Plane; Bower boat
10.	Apostle Islands National Lakeshore (WI)	Lake Superior	WI	C		Water Transit - Tour Boat & Water Taxi [Apostle Islands Cruise Service from Bayfield, WI]
11.	Appalachian National Scenic Trail - <b>MAINE</b> (Maine to Georgia)		ME	N (canoe ferry)		Kennebec River free canoe ferry by Maine Appalachian Trail Club [Rivers & Trails Northeast] - May to Oct; NORTH END OF AT: The Lynx (Bangor) PT limited bus/van service to nearby Monson, Millinocket, Medway
12.	Arches National Park (UT)	Moab	UT		FAA	commercial air tour; No PT; private bus/van shuttles from Moab; Amtrak @ Green River,UT; scheduled bus/van Green Rvr-Moab
13.	Aztec Ruins National Monument (NM)	Aztec	MN		FAA	commercial air tour; Mini-bus PT Farmington-Aztec on Red Apple Transit (to or near AZRU?)
14.	Badlands National Park (SD)	Interior	SD		FAA	comm. air tour (BADL & Pine Ridge Indian Reservation), no PT
15.	Bandelier National Monument (NM)	Los Alamos	NM		FAA	commercial air tour; No PT to BAND; Los Alamos PT Bus to White Rock (5 miles from BAND); No. NM Park & Ride Commuter PT bus Albuquerque to Los Alamos
16.	Bent's Old Fort National Historic Site (CO)	La Junta	CO		FAA	1/4 mile NPS shuttle service (van?) - pkg lot to fort; Limited PT bus [ La Junta Transit]; AMTRAK to La Junta, CO; commercial air tour

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#	PARK NAME (Park Units with <u>Alternative Water and Air Transportation</u> as of July 2005)	PLACE	ST	WATER	AIR	COMMENTS
17.	Bering Land Bridge National Preserve (AK)	Nome	AK	1	C	Bush planes & small boats in Summer; small planes on skis, snow machine, dog sleds in Winter
18.	Big Bend National Park (TX)	Big Bend	TX		FAA	commercial air tour; no PT; a few local private shuttle/taxi co's.
19.	Biscayne National Park (FL)	Homestead	FL	2		Water Transit - Tour Boat, Island Transportation convoy Point to Elliot Key & Boca Chita Key [Biscayne National Underwater Park, Inc.]; Ranger-led kayak/canoe trips
20.	Black Canyon of the Gunnison National Park (CO)	Montrose	CO		FAA	commercial air tour; no PT
21.	Boston Harbor Islands National Recreation Area (MA)	Boston	MA	1		MBTA (Boston) ferries via MBTA bus / rail
22.	Boston National Historical Park [Freedom Trail] (MA)	Boston	MA	1		MBTA bus / rail / ferries (water shuttle)
23.	Bryce Canyon National Park (UT)	Bryce Canyon	UT		FAA	Free shuttle bus: Pkg area & Ruby's Inn to Bryce Point; air tours
24.	Buffalo National River (Harrison & St. Joe, AR)	Harrison	AR	1		ATP all tied to concession-river trips: van/bus shuttles to river, river raft, canoe, kayak, jon boat trips. - No PT service to park.
25.	Cabrillo National Monument (CA)	San Diego	CA		FAA	San Diego Trolley (SDTC) public transit bus; air tours
26.	Canyon De Chelly National Monument (AZ)	Chinle	AZ		FAA	No NPS / PT available - Truck Tours [White Dove, Inc.] thru Thunderbird Lodge to Canyon bottom; air tours
27.	Canyonlands National Park (UT)	Moab	UT		FAA	Van & Jeep backcountry tours-3 concessionaires; air tour
28.	Cape Hatteras National Seashore (Nags Head, Buxton, Ocracoke, NC)	Manteo	NC	1	FAA	NC DOT PT auto ferries: Cedar Island or Swan Quarter to Ocracoke Island (fee), Ocracoke-Hatteras Island free ferry; commercial air tour; no PT
29.	Cape Krusenstern National Monument (AK)	Kotzebue	AK	1	1	Scheduled flights to villages; Charter flights to park areas; Summer-watercraft, aircraft; Winter-snowmobile, aircraft
30.	Cape Lookout National Seashore (NC)	Harkers Island	NC	1		12 Passenger & vehicle private ferry services
31.	Capitol Reef National Park (UT)	Torrey	UT		FAA	commercial air tour; no PT; <b>Post Corral Backcountry Equestrian Staging Area for private pack animals</b>
32.	Capulin Volcano National Monument (NM)	Capulin	NM		FAA	commercial air tour; no PT
33.	Casa Grande Ruins National Monument (AZ)	Coolidge	AZ		FAA	Coolidge, AZ's Cotton Express PT bus 3/4 mile from pkg lot; commercial air tour
34.	Cedar Breaks National Monument (UT)	Cedar City	UT		FAA	commercial air tour; no PT (PT mini-bus in Cedar City, UT)
35.	Chaco Culture National Historical Park (NM)	Nageezi	NM		FAA	commercial air tour; no PT
36.	Channel Islands National Park (CA)	Ventura	CA	1	X-C / FAA	Commercial water transit [Island Packers/ Truth Aquatics] from Ventura & air transit to Santa Rosa Island airport
37.	Charles Pinckney National Historic Site (SC)	Mt. Pleasant	SC		FAA	commercial air tour (near Ft. Sumter); CARTA PT bus

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38.	Chesapeake & Ohio Canal National Historical Park (DC/MD/WV) [Potomac River]	Hagerstown	MD	N (canal barge)		Mule-drawn historic canal barge tours; Georgetown Visitor Ctr: WMATA bus/rail; Great Falls Tavern: Ride-On (Montgomery County Transit); near Williamsport Visitor Ctr: County Commuter (Hagerstown, MD)
39.	Chiricahua National Monument (AZ)	Willcox	AZ		FAA	2 staff-driven vans (15 pass) to trailhead for hikers; air tours
40.	City of Rocks National Reserve (ID)	Almo	ID		FAA	commercial air tour; no PT
41.	<b>Colonial National Historical Park</b> (VA) includes: Jamestown Island; Yorktown Nat'l Battlefield & Cemetery; Cape Henry Nat'l Memorial (VA Beach)	Yorktown	VA	1	FAA	Historic Triangle Shuttle (2004 demo cooperative effort by 5 private foundations & NPS) : Free bus Colonial Williamsburg Visitor Ctr to Jamestown & Yorktown, Jamestown Area Shuttle, Yorktown Trolley; commercial air tour; free auto ferry Scotland-Jamestown
42.	Colorado National Monument (CO)	Fruita	CO		FAA	commercial air tour; no PT- Grand Valley Transit to Fruita (5 miles from COLO); <b>private tour bus service</b>
43.	Congaree Swamp National Monument (SC)	Hopkins	SC	canoe / kayak		NO PT; canoeing/kayaking on Cedar Creek
44.	Coronado National Memorial (AZ)	Hereford	AZ		FAA	commercial air tour; no PT (closest PT in Bisbee & Sierra Vista)
45.	Crater Lake National Park (OR)	Crater Lake	OR	1	FAA	<b>No shuttle or ATP, but Ranger-led tours</b> for commercial or educational bus tour groups available. Commercial boat tours from Cleetwood Cove ( <b>ranger led?</b> ); air tours
46.	Craters of the Moon National Monument (ID)	Arco	ID		FAA	commercial air tour; no PT from Arco, Carey, Rupert, ID
47.	Cumberland Island National Seashore (GA)	St. Marys	GA	1		Passenger ferry (charter ferry also available) from St. Mary's, GA; <b>private jeep/SUV shuttles around island backcountry (highlighted on Travel Channel)</b>
48.	Curecanti National Recreation Area (CO)	Gunnison	CO	1	FAA	Morrow Point boat tours; air tours
49.	Death Valley National Park (CA)	Death Valley	CA		FAA	commercial air tour; no PT (Inyo Mono Transit closest service to Keeler, Lone Pine & Olancha; no near PT in NV)
50.	Delaware & Lehigh National Heritage Corridor (PA) [150-mile long canal & RR corridor]	Bethlehem	PA	N (canal boats)		Canal boats in Easton at Two Rivers Landing; Amtrak to Bristol & Doylestown; Bus service from Philly & NYC along corridor
51.	Denali National Park & Preserve (AK)	Denali Park	AK		1	Alaska RR to Park; Concession-provided buses shuttle, camper, tour; 7 air taxis over Park
52.	Devils Postpile National Monument (CA) [Near Mammoth Lake]	Three Rivers	CA		FAA	Summer YARTS bus service to Mammoth Lakes from YOSE; mandatory shuttle bus to DEPO & Inyo Nat'l Forest (NPS-US Forest Service partnership); air tours
53.	Devil's Tower National Monument (WY)	Devils Tower	WY		FAA	commercial air tour; no PT
54.	Dinosaur National Monument (Dinosaur, CO / Vernal, UT)	Dinosaur	CO		FAA	Summer shuttle bus from lower prkg lot to Dinosaur Quarry; <b>private shuttle svrice to park for raft trips</b> ; air tours

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55.	Dry Tortugas National Park (FL)	Key West	FL	1	1	Passenger ferry (Yankee Fleet / Sunny Days Catamarans) & Seaplane (Seaplanes of Key West)
56.	Ebey's Landing National Historic Reserve (WA)	Coupeville	WA	1		Washington State Ferries (vehicle) to Whidbey Island Mikilteo to Clinton & Port Townsend to Keystone; Island Transit free PT bus around Whidbey Island
57.	El Malpais National Monument (NM)	Grants	NM		FAA	commercial air tour; no PT
58.	El Moro National Monument (NM)	Ramah	NM		FAA	commercial air tour; no PT
59.	<b>Erie Canalway National Heritage Corridor</b> (524-mile canal system - Buffalo to Albany, NY) [Buffalo area]	Buffalo	NY	1		NPS partner with NYS Canal Corporation (of the NYS Thruway); <b>Numerous types of boats to rent or ride along the corridor; BUFFALO / NIAGARA COUNTY:</b> Niagara Frontier Transportation Authority (NFTA) bus and rail (Erie Canal Harbor Station) in Buffalo; NFTA bus to Towanda & Lockport
59 B.	<b>Erie Canalway National Heritage Corridor</b> (524-mile canal system - Buffalo to Albany, NY) [Rochester & Fingerlakes area]	Rochester	NY	1		<b>ROCHESTER METRO (ORLEANS, WAYNE, MONROE, SENECA COUNTIES):</b> Rochester-Genesee Regional Transportation Authority (RGRTA) provides many bus stops/routes in Rochester/Monroe County & outside from Medina (Orleans) to Clyde (Wayne) thru Orleans Transit Service, Wayne Transportation Service, Seneca Transportation Service
59 C.	<b>Erie Canalway National Heritage Corridor</b> (524-mile canal system - Buffalo to Albany, NY) [Syracuse area]	Syracuse	NY	1		<b>SYRACUSE METRO (CAYUGA, OSWEGO, ONONDAGA COUNTIES):</b> Central NY Regional Transportation Authority (CENTRO) provides many bus stops/routes to and around Canalway from Port Bryan (Cayuga) to Minoa (Onondaga) & Oswego/Fulton (Oswego); <b>WAYNE COUNTY:</b> Madison Transit System; <b>ROME &amp; UTICA / ONEIDA COUNTY:</b> Limited bus PT by VIP Public Transit in Rome - Bus #1, 2 & 6 to HQ @ Ft. Stanwix in Rome Utica Transit Authority in Utica
59 D.	<b>Erie Canalway National Heritage Corridor</b> (524-mile canal system - Buffalo to Albany, NY) [Albany & Hudson River area]	Albany	NY	1		<b>HERMIKER COUNTY:</b> None; <b>SCHENECTADY, ALBANY &amp; TROY AREA:</b> Capital District Transportation Authority provides many bus stops/routes to and around Canalway; <b>GLENS FALLS / WASHINGTON COUNTY:</b> Limited PT bus service by Greater Glens Falls Transit (GGFT)
60.	Everglades National Park (FL)	Homestead	FL	1	FAA	Shark Valley tram tour, boat tours from Flamingo Lodge & Everglades City/Gulf Coast; air tours
61.	Fire Island National Seashore (NY)	Patchogue	NY	2		Passenger ferries [Davis Park Ferry Co. / Sayville Ferry Co.]; private water taxis available on island communities; Long Island RR to 3 ferry terminals; Suffolk CoTransit bus

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62.	Flagstaff Area National Monuments (AZ): (1) Sunset Crater Volcano National Monument; (2) Walnut Canyon National Monument; (3) Wupatki Nat'l Monument (AZ)	Flagstaff	AZ		FAA	commercial air tour to all sites; private tour services (bus / van?) from Flagstaff
63.	Fort Bowie National Historic Site (AZ)		AZ		FAA	commercial air tour; no PT
64.	Fort Davis National Historical Site (TX)	Ft. Davis	TX		FAA	commercial air tour; no PT
65.	Fort Matanzas National Monument (FL)	St. Augustine	FL	N		Tour boat ferry to fort from Visitor Center
66.	Fort McHenry National Monument & Historic Shrine (MD)	Baltimore	MD	1		MTA bus, historic trolley, shuttle boat [Ed Kane's Water Taxi] from Inner Harbor (Baltimore Water Taxi)
67.	Fort Raleigh National Historic Site (NC)	Manteo	NC	X - PT		NO PT on Manteo; Ferry boat from Cedar Island or Swan Quarter to Ocracoke Island or Hatteras Island
68.	Fort Sumter National Monument - including Fort Moultrie (Charleston Harbor & Sullivan Island, SC)	Charleston	SC	1		Ferry boats [Fort Sumter Tours, Inc.] from Liberty SQ Visitor Center & Patriots Point, CARTA bus to ferries; CARTA bus to Sullivans Island & Fort Moultrie
69.	Fort Union National Monument (NM)	Watrous	NM		FAA	commercial air tour; no PT
70.	Gates of the Arctic National Park & Preserve (AK)	Bettles	AK	1	1	Air taxis to Anaktuvuk Pass, Bettles, & Coldfoot; Bush air charters from Bettles & Coldfoot; bus service via Dalton Highway Express bus on east side; private charter boats
71.	Gateway National Recreation Area w/ Jamaica Bay, Staten Island, Sandy Hook Units (NY / NJ))	Staten Island	NY	1		JB: MTA NYC subway & bus; SI: Near MTA Staten Island Railway & MTA transit SI bus; SH: NJ Transit bus to Highlands; passenger ferries
72.	Gila Cliff Dwellings National Monument (NM)	Silver City	NM		FAA	commercial air tour; no PT, access by private veh or tour bus
73.	Glacier Bay National Park & Preserve (AK)	Gustavus	AK	1	1	Bus from Gustavus to Bartlett Cove; charter air service; tour boats from Glacier Bay Lodge; also, cruise ships, charter boats
74.	Glacier National Park (MT)	West Glacier	MT	1	FAA	Red bus (Jammers) scheduled shuttles, tours and hiker shuttles betwn lodges [Glacier Park, Inc.]; Interpretive bus tours [Sun Tours]; boat tours [Glacier Park Boat Co]; boat tour to Goat Haunt; Amtrak to W.Glacier, E.Glacier, Essex; shuttle bus: Kalispell airport to Apgar & Lake McDonald; air tours (GLAC & Blackfeet Indian Reservation)
75.	Glen Canyon National Recreation Area (AZ / UT)	Page	AZ	2	FAA	In-park (bus?) shuttle service available at Wahweap, Bullfrog, Halls Crossing, Hite; scheduled passenger/vehicle ferry btwn Halls Crossing & Bullfrog Bay along Route 276 [State of Utah funded, AMARAK operated]; boat tours along park; air tours

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76.	<b>Golden Gate National Recreation Area:</b> (1) Alcatraz Island (CA)	San Francisco	CA	2	FAA	Access only by Blue and Gold Fleet ferry at Pier 41 (MUNI); MUNI bus / cable car (trolley) to Pier 41; <b>tram on island (NPS or concessionaire?)</b> ; air tours
76 B.	<b>Golden Gate National Recreation Area:</b> (2) Presidio [San Francisco], (3) Ft. Point [San Francisco], (4) Muir Woods [Mill Valley] (CA)	Mill Valley	CA	?	FAA	<b>Fort Point/Presidio:</b> Free PresidiGo Shuttle connection to MUNI (MUNI bus, electric trolley bus & LR?) & Golden Gate Transit; <b>Muir Woods/Marin Headlands:</b> (ltd PT service) GGT bus to Hwy 101 & thru GOGA in Marin County, MUNI bus week-end svcs; West Marin Stagecoach South Route to Muir Woods from Muir Beach trailhead; air tours; <b>water transit to any site?</b>
77.	Golden Spike National Historic Site (UT)	Brigham City	UT		FAA	commercial air tour; UTA nearest PT bus to Brigham City
78.	Governors Island National Monument (NY)	New York City	NY	2		Ferry ('05 - Lower Manhattan) from Pier 11 on East River; To Pier 11 - NYCT bus: M1, M6, M15; NYCT subway: #3 & #4 lines to Bowling Green station, #W & #R to Whitehall/South Ferry, #1 to S. Ferry; NJ ferries to Pier 11, <b>LaGuardia ferry shuttle ('05?)</b>
79.	Grand Portage National Monument (MN)	Grand Marais	MN	canoe / kayak		Fort Charlotte can be accessed by canoe or kayak via Boundary Waters Canoe Area
80.	Grand Teton National Park (WY)	Moose	WY	1	FAA	GRTE shuttle bus to Jackson Hole airport; scenic cruises; shuttle boat across Jenny Lake; <b>START (Jackson) bus service?</b> ; air tours
81.	Great Basin National Park (NV)	Baker	NV		FAA	commercial air tour; no PT
82.	Great Sand Dunes Nat'l Monument & Preserve (CO)	Mosca	CO		FAA	commercial air tour; no PT
83.	Great Smoky Mountains National Park (NC/TN)	Gatlinburg	TN		FAA	Gatlinburg trolley bus route to GRSM Visitor Center; air tours (GRSM & Cherokee Indian Reservation)
84.	Guadalupe Mountains National Park (TX)	Salt Flat	TX		FAA	commercial air tour; no PT
85.	Gulf Islands National Seashore (Gulf Breeze, FL / Ocean Springs, MS)	Gulf Breeze	FL	2		FL: ECAT bus (Pensacola) to Fort Barrancas Visitor Ctr MS: Passenger ferry- Gulfport to Fort MA. [Pan Isles, Inc.]; Water taxis: Visitor Center to Cat, East Ship, Horn, PetitBois Islands
86.	Hagerman Fossil Beds National Monument (ID)	Hagerman	ID		FAA	commercial air tour; Trans IV (College of So. Idaho) inter-city fixed route bus from Twin Falls to Wendell (10 miles from HAFO)
87.	Haleakala National Park (Kalu, Maui, HI)	Maui	HI		FAA	commercial air tour; <b>IBP</b> van-bike trips (van to summit, bike down); private sightseeing bus, mini-bus, vans
88.	Hawaii Volcanoes National Park (HI)	Hilo	HI		FAA	Hele-On PT bus to Visitor Center; commercial air tour
89.	Hohokam Pima National Monument (AZ)	Coolidge	AZ		FAA	Coolidge's Cotton Express PT bus ( <b>to or near site?</b> ); commercial air tour; <b>HOPI is closed to the public</b>

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90.	Hovenweep National Monument (CO)	Blanding	CO		FAA	commercial air tour; no PT
91.	Hubbell Trading Post National Historic Site (AZ)	Ganado	AZ		FAA	Navajo Transit PT buses to Ganado, <b>route near HUTR</b> ; commercial air tour
92.	Inupiat Heritage Center (AK)	Barrow	AK		1	Barrow accessible by commercial/charter flights
93.	Isle Royal National Park (MI)	Houghton	MI	N - C	1	Boat & seaplane. Seaplane [ISRO Seaplane Service] Houghton, MI to Rock Harbor or Windigo. Passenger boats from Grand Portage, MN, Houghton, MI or Rock Harbor, MI [ISRO Queen, GPIR Transport Lines]. Voyager II ferry circles island; <b>Ranger III - NPS owned?</b>
94.	<b>Jean Lafitte National Historic Park &amp; Preserve (LA)</b> [3 sites in New Orleans area]	New Orleans	LA	1		Many New Orleans Regional Transit Authority (RTA) PT bus routes by French Quarter Visitor Ctr; JetTransit PT bus route W-4 close to Barataria Preserve in Crown Point; No PT to Chalmette Battlefield, but 3/4 mile from RTA bus route #89, SBURT Lines AP bus route, and 1 mile from Chalmette-Algiers Ferry Landing; Canoe boat trips at Barataria Preserve
94 B.	<b>Jean Lafitte National Historic Park &amp; Preserve (LA)</b> [3 Sites West of New Orleans]	Lafayette	LA	1		No PT to Prairie Acadian Cultural Center in Eunice; Lafayette Transit System PT #55 bus to Acadian Cultural Center; no PT to Wetlands Acadian Cultural Ctr in Thibodaux; <b>Ranger-led</b> Louisiana wooden boat Bayou tours at Acadian & Wetlands Acadian Cultural Centers (reservations & fee); Amtrak on-board summer educational programs re. JELA and area history
95.	Jefferson National Expansion Memorial (MO)	St. Louis	MO		FAA	St. Louis MetroLink (light rail) & Metrobus (Bi-State); Metro-operated Gateway Arch Tram (arch "elevator"); <b>Metro Riverboats nearby</b> ; air tours
96.	John Muir National Historic Site (CA)	Martinez	CA		FAA	County Connection PT bus #116 to site and connection to BART rail stations; commercial air tour
97.	Joshua Tree National Park (CA)	Twentynine Palms	CA		FAA	Morongo Basin Transit Authority PT bus #21 to Yucca Valley near Black Rock Canyon, MBTA bus #1, 12, 15 nearby 29 Palms to Yucca Valley, #3B to JOTR Visitor Ctr; commercial air tour; 2 private stock horse camps at Ryan & Black Rock campgrounds (reservations)

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98.	<b>Juan Bautista De Anza National Historic Trail</b> [Nogales, AZ to San Francisco, CA] Northern California trail portion	San Francisco	CA	1		Monterey County: Monterey-Salinas Transit PT bus along trail; San Benito County: limited County Express PT bus service near trail; Santa Clara County: Valley Transit Authority PT bus along trail, VTA LR near few pts on trail; Alameda County: VTA bus to Fremont, AC Transit PT bus along trail, Harbor Island Ferry links Alameda & SF Counties; Contra Costa County: AC Transit to Martinez, CCCTA & ECCTA PT buses to Concord & Antioch; San Mateo County: SamTrans PT bus along trail; San Francisco County: MUNI bus, LR near trail, PresidiGo Shuttle, BART HR stations near many pts on trail in Bay Area.
99.	Kalaupapa National Historical Park (HI)	Kalaupapa	HI		X-IBP? Private co./ FAA	No auto access; Air from O'ahu, Maui & Ho'olehua, Molokai [Pacific Wings, Moloka'i Lana'i Air Shuttle, Paragon Air]; Kalaupapa settlement commercial (school) bus tour [Damien Tours]; Mule ride down Kalaupapa Trail [Moloka'i Mule Rides, Inc.]
100	Kaloko-Honokohau National Historical Park (HI)	Kailua-Kona	HI		FAA	Hele-On PT bus to KAHO (or near); commercial air tour
101	Katmai National Park & Preserve (AK)	King Salmon	AK	1	1	On-demand boat and float-plane service (100 private firms) that land and dock anywhere, esp. Brooks Camp; fix-scheduled boat to fishing camp
102	Kenai Fjords National Park (AK)	Seward	AK	PT - AK Marine Hwy		Bus, ferry, railroad to Seward. Alaska Railroad; AK Marine Highway (ferry) System - Southwest AK route; <b>local PT bus?</b>
103	Kings Canyon National Park (CA)	Three Rivers	CA		FAA	commercial air tour; no PT, closest Fresno Cty Rural TA
104	Klondike Gold Rush – Seattle Unit National Historic Park (WA)	Seattle	WA	1		Many PT routes to site - King County Dept. of Transportation (Metro) bus and waterfront streetcar (LR); Central Puget Sound Regional Transit Authority (Sound Transit); Washington State Ferries 4 blocks from site
105	Klondike Gold Rush National Historical Park (AK)	Skagway	AK	PT - AK Marine Hwy		Public bus from Whitehorse, Yukon Ter.; AK Marine Hwy (ferry) System - Inner Passage Route
106	Kobuk Valley National Park (AK)	Kotzebue	AK	1	1	Air taxi from Nome or Kotzebue to KOVA villages -bush planes & small boats in Summer; small planes on skis, snow machine, dog sleds in Winter
107	Lake Clark National Park & Preserve (AK)	Port Alsworth	AK	1	1	Air taxis - wheeled & float planes; Charter boat; kayak tours
108	Lake Mead National Recreation Area (NV / AZ)	Boulder City	NV	1	FAA	Boat tour [formerly Desert Princess]; Las Vegas bus tours; air tours

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109	Lake Roosevelt National Recreation Area [along Columbia River] (WA)	Coulee Dam	WA	2	FAA	Rental boats/houseboats: Keller Ferry [RRE] & Kettle Falls Marina [Lake Roosevelt Resort & Marina]; Free auto ferry: Keller Ferry (Hwy #21) & Gifford Ferry (GIF-Hwy #25); Ranger-guided canoe tours; commercial air tour; limited Grant TA PT bus #34,#35 to Coulee Dam
110	Lassen Volcanic National Park (CA)	Mineral	CA		FAA	commercial air tour; no PT; <b>PT bus to Chester (Plumas Transit); Plumas charters buses to LAVO</b>
111	Lava Beds National Monument (CA)	Tulelake	CA		FAA	commercial air tour; no PT; <b>Sage State (Modoc County) PT bus to Newell &amp; Tulelake</b>
112	Lewis & Clark National Historic Park (formerly Fort Clatsop National Memorial) (OR)	Astoria	OR		FAA	Lewis & Clark Explorer Shuttle (NPS-Sunset Empire Transit District partnership) to visitor center & fort from Astoria Transit Center & Neutl Landing and many motels & campgrounds (service initiated in 2004); commercial air tour
113	Lowell National Historical Park (MA)	Lowell	MA			<b>Historic trolley on rails; Canal boats &amp; LRTA shuttle bus link to MBTA Commuter Rail</b>
114	Mammoth Cave National Park (KY)	Mammoth Cave	KY	N		Propane bus shuttles to cave entrances, some bus only access [Forever Resorts LLC], funded by cave tour fee; 2 NPS-operated vehicle ferries across Green River; <b>Echo River cave boat tour discontinued in '90s</b>
115	<b>Manhattan Sites</b> - (NY): (1) Castle Clinton National Monument (CACL); (2) Federal Hall Nat'l Memorial (FEHA); (3) General Grant Nat'l Memorial (GEGR); (4) Hamilton Grange Nat'l Memorial (HAGR); (5) St. Paul's Church Nat'l Historic Site (STPA); (6) Theodore Roosevelt Birthplace Nat'l Historic Site (THRO)	New York City	NY	1		MTA NYC Transit bus / subways to all sites; Ferries to Castle Clinton-Battery Park <b>?Westchester County DOT Bee Line PT bus, GTJC to CACL, STPA, THRO, FEHA?</b>
116	Manzanar National Historic Site (CA)	Independence	CA		FAA	<b>Inyo Mono Transit PT bus route to Lone Pine, Olancha &amp; Keleler (surrounding MANZ) in 2005;</b> commercial air tour
117	Mesa Verde National Park (CO)	Cortez	CO		FAA	Guided tram (mini-train) at Wetherill Mesa; sightseeing bus tours: Morefield Campground & Far View Lodge to Chaping Mesa & Wetherill Mesa [ARAMARK]; air tours
118	Mississippi National River & Recreation Area (Twin Cities Area - Minneapolis - St. Paul, MN)	St. Paul	MN	1		NPS-guided-paddleboat tours [Padelford Packet Boat Co.]: Birding Boat in St. Paul area & Big River Journey (4th - 6th Grade) student program - Harriet Island to Ft. Snelling St. Park; MTC bus & light rail to or near many locations along MISS (Ft. Snelling LR Station)
119	Mojave National Preserve (CA)	Barstow	CA		FAA	commercial air tour; no PT
120	Montezuma Castle National Monument (AZ)	Camp Verde	AZ		FAA	commercial air tour; no PT (closest PT in Cottonwood)

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121	Mount Rainier National Park (WA)	Ashford	WA		FAA	Private (dial-a-ride) shuttle to/around MORA (Ashford Mtn Ctr & Sea-Tac Airport); multiple tour buses/vans [Grey Line, Rainier Mtn, Greyhound]; <b>Mt. Rainier Scenic RR nearby at Elbe, WA &amp; Mineral Lake - but not in MORA</b> ; air tours
122	Mount Rushmore National Memorial (SD)	Keystone	SD		FAA	commercial air tour [Rushmore Helicopters from Keystone]; no PT (closest PT RapidRide in Rapid City); Mt. Rushmore shuttle van from Keystone (2 miles away); many private bus/van tours
123	National Park of American Samoa (AS)	Pago Pago	AS	1	1	Ferries between islands; "Aiga" buses on Tutuila; Scheduled air service from Pago Pago, Tutuila to Ofu & Ta'U Islands
124	Natural Bridges National Monument (UT)	Blanding	UT		FAA	commercial air tour; no PT
125	Navajo National Monument (AZ)	Black Mesa	AZ		FAA	commercial air tour; no PT
126	New Jersey Coastal Heritage Trail Route (Coastal & Shore regions, NJ)	Newport	NJ	1		<b>Sandy Hook Region:</b> NJ Transit ComRail North Jersey Coast Line South Amboy to Pt. Pleasant/Bayhead, NJT bus to Highlands and other points, passenger ferry [NY Fast Ferry] ; <b>Barneget Bay Region:</b> NJT bus; <b>Absecon Region:</b> NJT bus; <b>Cape May Region:</b> <b>Ocean View Welcome Ctr</b> - ?, auto ferry, NJT bus; <b>Delsea Region:</b> <b>Fort Mott Welcome Ctr</b> - ?, NJT bus
127	New Jersey Pinelands National Reserve (SE NJ) [1+ million acres in 56 communities in 7 southern NJ counties]	Pine Barrens	NJ	canoe / kayak (IBP?)		<b>Canoe/kayak private companies for rent or river trips. NO CURRENT INFO: 7 southern NJ Counties: Salem, Cumberland, Cape May, Atlantic, Ocean, Camden</b>
128	New River Gorge National River (WV): 53-mile waterway through Fayette, Raleigh, Summers Counties.	Fayetteville	WV	1		Limited Amtrak to 3 towns: Hinton, Prince, Thurmond. Canoe, kayak, boat trips. <b>Canyon Rim Vis Ctr (Fayette), Thurmond Depot Vis Ctr (Oak Hill), Grandview Vis Ctr (near Mt. Hope &amp; Beckley), Hinton Visitor Center (Hinton)</b>
129	Niobrara National Scenic River [76-miles] (NE)	Valentine	NE	canoe / kayak (IBP?)		<b>Private canoe, kayak, tube, boating, horseback outfitters</b> on western part of NIOB - Valetine to Norden (Cherry, Keya Paha Counties)
130	Noatak National Preserve (AK)	Kotzebue	AK	1	1	Scheduled flights to villages; Charter flights to park areas; Summer-watercraft, aircraft; Winter-snowmobile, aircraft
131	<b>North Cascades National Park</b> (north & south units) (Northeast WA) including: > Ross Lake National Recreation Area [Newhalem, WA] > Lake Chelan National Recreation Area [Stehekin, WA]	Marblemount	WA	2	X-PR Float plane to LACH / FAA (LACH & NOCA)	Stehekin Shuttle (Lower Valley Shuttle) at south tip of NOCA Park from Lake Chelan NRA to High Bridge (old school bus- <b>NPS or Concess?</b> ). <b>2003 flood cut NPS- ops summer bus shuttle srvc thru NOCA.</b> LINK PT bus to LACH ferry. Ferry service along Lake Chelan [Lady of the Lake-Lake Chelan Boat Co., regulated by WA State, <b>no concession</b> ]. <b>Private seaplane to/from Lake Chelan [Chelan Airways]; Concessionaire Water taxi at Ross Lake; SKAT PT bus to Newhalem - ROLA</b>

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132	Olympic National Park (WA)	Port Angles	WA	X - PT	FAA	commercial air tour; no PT to OLYM, <b>Clallum Transit</b> routes north & west of OLYM & connections to Seattle; many facilities (hitchracks, corrals, stock camps) for private stock animals; <b>Coho Ferry: Port Angeles to Victoria, B.C.;</b>
133	Organ Pipe Cactus National Monument (AZ)	Ajo	AZ		FAA	(Unscheduled) Van tours w/ ORPI Rangers in winter (fee); <b>PIMA County PT bus Tucson-Ajo</b> ; air tours
134	Ozark National Scenic Riverways [134 miles of Current & Jacks Fork Rivers] (MO)	Van Buren	MO	1		Akers Ferry ; vans for rafting trips
135	Parashant National Monument (Northwest AZ)	Fredonia	AZ		FAA	commercial air tour; no PT (adjacent to GRCA-North & LAME))
136	Pecos National Historical Park (NM)	Pecos	NM		FAA	commercial air tour; no PT
137	Perry's Victory & International Peace Memorial (OH)	Put-In-Bay	OH	1	1	TO South Bass Island: Ferries from Catawba [MillerBoat Line], Port Clinton [JetExpress], Sandusky [IslandRocket]; Airplane from Port Clinton & Sandusky [Griffing Island Airlines/Flying Services]; ON SB Is: water taxi, PT bus, historic tram tour, golf cart
138	Petrified Forest National Park (AZ)	Holbrook	AZ		FAA	commercial air tour; no PT; ltd private stock trailer pull-off & pkg at Kachina Point; water at Painted Desert Vis Ctr
139	Petroglyph National Monument (NM)	Albuquerque	NM		FAA	ABQ Ride PT bus #94, #162, #163 routes by parts of PETR; commercial air tour
140	Pictured Rocks National Lakeshore (MI)	Munising	MI	1		Altran PT backpacker reservation summer shuttle bus (Munising to Grand Sable/Grand Marias); Private boat tours of Lakeshore
141	Pinnacles National Monument (CA)	Paicines	CA		FAA	Intermittent Eastside shuttle bus svcs from campground & overflow pkg areas to trailheads & Vis Ctr at busy times; ltd interior pkg; 2007 plan regular shuttle bus route; air tours
142	Pipe Spring National Monument (AZ)	Fredonia	AZ		FAA	commercial air tour; no PT
143	Pu'uhoonua O Honaunau National Historical Park (HI)	Honaunau	HI		FAA	Hele-On PT bus <b>near or to</b> PUHU; commercial air tour
144	Pu'ukohola Heiau National Historical Site (HI)	Kawaihae	HI		FAA	Hele-On PT bus to PUHE?; commercial air tour
145	Rainbow Bridge National Monument (UT, next to Page, AZ border)		UT	1	FAA	Concessionaire Rainbow Bridge boat cruise [Amarak] from Waheap Marina in GLCA; commercial air tour; no PT
146	Rio Grande Wild & Scenic River (Southwest TX) [196 miles: 69 thru Big Bend Nat'l Park]	Big Bend	TX	1	FAA	Commercial air tour; no PT; a few local private shuttle/taxi co's (see Big Bend Nat'l Park); Private river tours/float trips outfitters (Brewster & Terrell Counties)
147	Roosevelt Campobello International Park (ME) [2800 acres on Campobello Island, NB, Canada]	Lubec	ME	X (PR)		Summer car ferry Letete, NB to Deer Island, NB to Campobello Island , NB (Island PT?) Limited INFO

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						(Washington County, ME)
148	Rosie the Riveter WWII Home Front National Historic Park (CA)	Richmond	CA	1		Alameda-Contra Costa Transit District (AC Transit) PT bus #74 to park; close to BART Richmond Rail Station (with Amtrak); nearby Harbor Island Ferry docks ( <i>exact location?</i> )
149	Saguaro National Park (AZ)	Tucson	AZ		FAA	commercial air tour; no PT to SAGU - SunTran bus service 1 mile from SAGU West; 2 miles from SAGU East
150	Saint Croix Island International Historic Site (ME)	Calais	ME	1		Commercial boat tours (no ferry) (Washington County)
151	Saint Croix National Scenic Riverway (WI)	St. Croix Falls	WI	1		Metro Transit Expressbus: St. Paul - Stillwater, MN - Riverway stop; tour boats; van/bus transit for canoe trips
152	Salem Maritime National Historic Site (MA)	Salem	MA	X-C		MBTA bus & commuter rail (nearby)
153	Salinas Pueblo Missions National Monument (NM)	Mountainair	NM		FAA	commercial air tour; no PT
154	San Francisco Maritime National Historical Park (CA)	San Francisco	CA	1	FAA	MUNI bus / cable car (trolley); Near Blue/Gold Ferry & other ferries to Piers; air tours
155	San Juan Island National Historical Park (WA)	Friday Harbor	WA	1	X com flights to SJ Island Airport / FAA	WA ST Ferry(pass/car): Anacortes, WA-Friday Harbor; Other terminals-private ferry/boat tours; PT buses to terminals [Skagit Transit, WTA]; SeaTac commuter flights [Kenmore Air-NW Seaplanes, Wlsle Air, San Juan Air]; San Juan Transit island shuttle bus
156	San Juan National Historic Site (PR)	San Juan	PR	1		AMA & Metrobus PT bus (w. unreliable schedule) to Old San Juan (OSJ); PT OSJ Trolley 3-routes; 15-pass. private PT "Publicos", AcuaExpreso ferry routes to OSJ + other local commuter ferries; near cruise ship piers; planned 2008 tram-electric busway
157	Santa Monica Mountains Nat'l Recreation Area (Los Angeles area, CA)	Thousand Oaks	CA		FAA	Heart-of-the-Park (ParkLink) Shuttle fixed route bus to 10 ( <i>12?</i> ) stops in SAMO (service begins July 2005), to be expanded to connect to LA PT service; commercial air tour
158	Sequoia National Park (CA)	Three Rivers	CA		FAA	commercial air tour; no PT closest PT Tulare County Transit to Three Rivers
159	Sitka National Historical Park (AK)	Sitka	AK	1		Tour bus; cruise ships; commercial air; AK Marine Hwy (ferry) System-Inner Passage Route ( <i>distance from site?</i> )
160	Sleeping Bear Dunes National Lakeshore (MI)	Empire	MI	1		Private passenger ferry from Leland to North & South Manitou Islands [Manitou Island Transit]; <b>On-call BATA bus/van available from Traverse City (unscheduled)</b>
161	Statue of Liberty National Monument / Ellis Island Immigration National Monument (NY/NJ)	New York City	NY	1	FAA	MTA NYC Transit bus / subway to ferries at Castle Clinton-Battery Park & New Jersey Transit to ferries at Central RR of NJ Terminal at Liberty State Park; Ferry

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						[Circle Line-Statue of Liberty Ferry, Inc.]; air tours
162	Timpanogos Cave National Monument (UT)	American Fork	UT		FAA	commercial air tour; UTA nearest PT bus to American Fork, Pleasant Grove & I-15 (10 miles from TICA Vis Ctr)
163	Tonto National Monument (AZ)	Roosevelt	AZ		FAA	commercial air tour; Valley Transit nearest PT bus (50 miles) at Mesa on Superstition Hwy
164	Tumacacori National Historical Park (AZ)	Tumacacori	AZ		FAA	commercial air tour; no PT
165	Tuzigoot National Monument (AZ)	Cottonwood	AZ		FAA	commercial air tour; CATS nearest PT (Cottonwood); Verde Canyon Railway (tour train) from Clarkdale [not to TUZI]
166	USS Arizona Memorial (HI)	Honolulu	HI	Navy (N)	FAA	The Bus (Honolulu, Oahu) PT buses to Vis Ctr; Navy shuttle boat only to Harbor Memorial site; Private tour buses; air tours
167	Voyageurs National Park (MN)	International Falls	MN	-	X-IBP / FAA	2 Guided tour boats - 1 from north basin, 1 from south basin; water taxis; private float planes
168	<b>Western Arctic National Parklands:</b> (1) Bering Land Bridge National Preserve; (2) Cape Krusenstern National Monument; (3) Kobuk Valley National Park; (4) Noatak National Preserve (Northwest Alaska)	Kotzebue	AK	1	1	Commercial air from Anchorage or Fairbanks to Nome or Kotzebue; Air taxis (scheduled & charters) from Kotzebue; Summer access via watercraft, aircraft, hike; Winter access via snowmobile, air, hike
169	Whiskeytown-Shasta-Trinity Nat'l Recreation Area (CA)	Whiskeytown	CA		FAA	Reading Area Bus Authority (RABA) PT bus #8 to Shasta Lake area, #1 & #8 to Shasta Dam; Ranger-led kayak tours (fee); commercial air tour; no PT
170	Wrangell - St Elias National Park & Preserve (AK)	Copper Center	AK		1	Commercial air service from Anchorage; Ellis Air Taxis and Wrangall Mountain Air run service; Flight seeing tours; Backcountry Connections runs Van service from Glennallen to McCarthy/Kennecott; Alaska Direct Line runs bus service from Anchorage to Tok
171	Yellowstone National Park (WY/MT/ID)	Yellowstone Nat'l Park	WY	1	FAA	No PT to/around park; Bus tours - Lower Loop, Upper Loop, Grand Loop [Xanterra]; Stagecoach trip at Tower-Roosevelt, Winter snow coach tours/transit; YELL Lake scenic cruise; air tours
172	Yosemite National Park (CA)	Sierra Nevada	CA		FAA	YARTS (regional) PT bus fare service; (Concess) YOSE Valley free shuttle bus & seasonal shuttle in Wawona/Mariposa Grove, Badger Pass (ski area) & Tuolumne Meadows (new hybrid diesel-electric buses); Fee concessionaire service: Valley Floor Tram, Big Trees Tram, Grand Tours (hikers' bus); round-trip tours from gateway areas [VIA Adventures]; stagecoach trips (?); air tours

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173	Yucca House National Monument (CO)	Cortez	CO		X	Commercial air service to Cortez, CO; No PT
174	Yukon - Charley Rivers National Preserve (AK)	Eagle	AK	1	1	Air taxis to Eagle Village & Circle. Chartered bush (air) flights & boat trips from Eagle & Circle. No road in YUCH.
175	Zion National Park (UT)	Springdale	UT		FAA	Propane shuttle bus along Zion Scenic Drive in Zion Canyon & Springdale (est. 2000, mandatory April-Oct.); air tours (ZION & Shivwits Band-Paiute Indian Reservation)
	<b>TOTAL Alternative Water and Air Transportation Services at/to NPS Units</b>			94	131	

