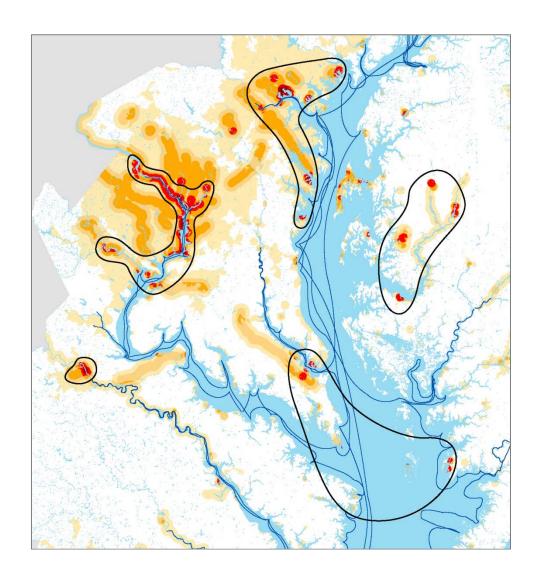


Captain John Smith Chesapeake National Historic Trail Alternative Transportation Study Support to Comprehensive Management Plan



PMIS No. 135731 April 2010



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Introduction

The Captain John Smith Chesapeake National Historic Trail (CAJO) was established by legislation in 2006 as the first national water trail in the United States. Administered by the National Park Service (NPS) through the NPS Northeast Region's Chesapeake Program Office, the trail commemorates the exploratory voyages of Captain Smith on the Chesapeake Bay and its tributaries in 1607-1609, tracing over 3,000 miles. It includes portions of the states of Virginia, Maryland, Delaware, and the District of Columbia. In addition to commemorating Smith's 17th century travels, CAJO is intended to play an important role in water-based recreation opportunities, as well as fostering citizen stewardship of the bay.

CAJO is designed to complement the existing Chesapeake Bay Gateways and Water Trails Network, which is also administered by NPS. Furthermore, CAJO is one of a group of new NPS initiatives in the region, including the Star-Spangled Banner National Historic Trail and the Potomac Heritage National Scenic Trail.

Project Overview

Each NPS unit is required to complete a Comprehensive (or General) Management Plan (CMP) that defines the park's basic approaches to natural and cultural resource protection, visitor experience, facilities, and partnerships for the next 15 – 20 years. The alternative transportation needs assessment is a component of the CMP. This study, developed as a first phase of alternative transportation systems (ATS) support for CAJO, focuses on two primary components: an ATS inventory and a regional ATS analysis.

The ATS inventory is a geospatial database of services and facilities that support alternative transportation access to CAJO. As the United States' first federally designated water trail, this type of ATS inventory may be the first of its kind. Focusing on categories such as kayak rentals and storage facilities, water-based tours and excursions, and major land-based transportation trails, the inventory will help trail planners understand the many ways CAJO can be experienced without the use of a private automobile.

The regional ATS analysis is a high-level study seeking to lay a foundation for future alternative transportation planning, funding, and implementation initiatives. Using the ATS inventory in conjunction with the analytical capabilities of geographic information systems (GIS), the report identifies transportation trends and high-potential ATS sub-regions within the greater CAJO region that are worthy of more detailed investigation. Rather than focus on the transportation details of each city and town in the CAJO region, the regional ATS analysis is the first step in determining where alternative transportation opportunities are available, where investment is viable, and where improvements in ATS service are needed.

Section 1: Alternative Transportation Systems (ATS) Inventory

The ATS inventory identifies services, facilities, and locations that may support alternative transportation access to CAJO. A database, including spatial and tabular data, was created for the following purposes:

- I. For use by CAJO management in future planning initiatives;
- 2. As a foundation for the future development of traveler information services; and
- 3. As a framework for the creation of a regional ATS analysis as described in Section 2 of this report.

Inventory Components

Each component of the inventory is described below, with maps and tables included in the appendix. The Volpe Center and CAJO recognize that due to the immense number of ATS opportunities in the Chesapeake Bay region, it is possible that an element has been mistakenly omitted or overlooked. In subsequent ATS planning efforts, CAJO will continue working to develop and maintain its ATS inventory with the goal of having a comprehensive, up-to-date database of information that will benefit CAJO managers, planners, stakeholders, and visitors.

Chesapeake Bay Gateways Clusters

Facilitated and coordinated by the National Park Service, the Chesapeake Bay Gateways Network is a partnership system of parks, refuges, museums, historic sites, and water trails across the watershed whose purpose is to increase access and awareness to these sites and the Chesapeake Bay in general.

Using a GIS proximity tool, the Volpe Center identified clusters of Gateway sites where less than two miles separates one site from another. Gateways clusters are important when considering ATS viability, as improvements to services or facilities have the potential to serve multiple CAJO sites. This has the potential to create higher demand, ensure efficiency, and promote connectivity between sites.

Source data for individual Gateways sites were provided by CAJO.

CAJO Access Point Clusters

CAJO access points are located along the shores of the Chesapeake Bay and its tributaries. Access points are broadly defined as places where a visitor can gain access to the water trail. While access points sometimes offer only land-based facilities, the majority has some kind of put-in facilities for boats, including hard-surfaced landings, docks, or soft launches for small craft such as canoes and kayaks.

Using a GIS proximity tool, the Volpe Center has compiled clusters of CAJO access points where less than one mile separates one access point from another. Like Gateways clusters, CAJO access points benefit from close proximity to one another, as they may be easily linked together as part of an ATS network.

Source data for individual CAJO access points were compiled and provided by CAJO.

Major Land-based Transportation Trails

Major land-based transportation trails provide enhanced opportunities for non-motorized alternatives such as walking or bicycling. In an effort to focus on trails that may be considered viable transportation alternatives, a trail must meet certain criteria to be included in the inventory. For inclusion, a trail must be (1) existing, under construction, or a planned segment of a trail that is partially completed; (2) approximately one mile or longer; (3) clearly distinguishable on publicly available aerial photography; (4) able to support multiple modes of transportation ("multi-use" or "shared-use"); and (5) publicized as a local or regional amenity or attraction by the city, county, state, or third party.

Source trail data originated from the Virginia Department of Conservation and Recreation, the Maryland Department of Natural Resources, the Maryland Department of Transportation, and the District of Columbia Office of the Chief Technology Officer. Public and private internet resources helped verify unknown, questionable, or out-of-date information.

Kayak and Canoe Services

Kayak and canoe services are an important ATS inventory component because they eliminate the need to transport equipment to a CAJO put-in with a private automobile.

Guides and trip leaders provide equipment and instruction, allowing paddlers with little experience to get on the water. Rental companies provide all the necessary equipment while allowing paddlers to choose their own destination. For the purposes of this study, the project team focused on rental companies that are either located on the water or are willing to transport paddlers and equipment to an access point. Finally, storage facilities are secure structures located at access points, allowing kayak and canoe owners to lease storage space, again eliminating the need to transport equipment to a put-in site.

Primary source data for kayak and canoe services was provided by the Virginia Tourism Corporation, Virginia Department of Conservation and Recreation, Maryland Department of Natural Resources, Maryland Office of Tourism, Destination DC, Delaware Department of Natural Resources and Environmental Control, and the Delaware Tourism Office. Internet resources helped verify unknown, questionable, or out-of-date information.

Excursion/Tour Boats

Generally catering to groups of more than four people, excursion boats and tour boats are non-human powered vessels offering access to the heart of CAJO's waters with minimal effort. Interpretation is also frequently a part of the experience, and a number of boats offer history-themed trips. Location data represent the points of embarkation for these excursions.

The excursion/tour boat inventory does not include fishing-oriented guides or charter boats, although these types of services may be important to include in future planning efforts.

Source data for excursion/tour boats was provided by the Virginia Tourism Corporation, the Maryland Office of Tourism, Destination DC, and the Delaware Tourism Office. Internet resources helped verify unknown, questionable, or out-of-date information.

Ferries and Water Taxis

Ferries and water taxis often serve both locals and visitors. In Baltimore, water taxis are integral to the greater urban transit picture and are often used by locals as part of a daily commute. On Tangier and Smith Islands, ferries provide regularly scheduled service to residents and tourists, and even carry mail. Finally, a number of small, traditional ferries are equipped to carry passengers and a few vehicles across small bodies of water. Points of embarkation and destination were mapped for each operating ferry service.

Source information was provided by the U.S. DOT National Ferry Database; the Virginia Tourism Corporation; Virginia Department of Transportation; Maryland Office of Tourism; Destination DC; and the Delaware Department of Transportation. Internet resources helped verify unknown, questionable, or out-of-date information.

Transit Agencies

An inventory of transit agencies serves primarily as a source for contact information. At such a high level and with so many different transit agencies in the CAJO region, it is difficult to distinguish transit service details such as routes, stops, and schedules. Consequently, transit agencies are geo-located based on the address of the agency's headquarters. The size of each transit fleet is included in the tabular data.

Because of the lack of comprehensive detailed transit data, the transit agency inventory is not a component of the regional ATS analysis of Section 2 of this report. Instead, the project team opted to use the U.S. Census designated urbanized areas and urban clusters (see below) to approximate transit service areas.

Source information came from the U.S. Department of Transportation.

Urban Lands

According to Census definition, an urbanized area consists of densely settled territory that contains 50,000 or more people, while an urban cluster consists of densely settled territory that has at least 2,500 people but fewer than 50,000 people. Urbanized areas and urban clusters are an effective way to approximate higher population densities. High population densities could lead to increased potential for alternative transportation access to CAJO through (1) increased prevalence of transit services, (2) increased likelihood of infrastructure supporting alternative transportation, such as on-road bicycle lanes, paved sidewalks, and features related to increased accessibility for the disabled, and (3) greater demand for recreational use of CAJO in general.

Source data originated from the U.S. Census Bureau.

Section 2: Regional Alternative Transportation Systems (ATS) Analysis

The large geographic area of the CAJO region necessitates an analysis that assumes a regional, rather than localized, approach. The CAJO regional ATS analysis, as developed by the Volpe Center, is an assessment of alternative transportation potential throughout the CAJO region. The high-level, spatial analysis allows trail managers, planners, and transportation specialists to:

- I. Broadly survey the entire CAJO region and identify overarching trends in alternative transportation infrastructure and services;
- 2. Create sub-regions indicating level of potential for accessing CAJO via alternative transportation; and
- 3. Identify and categorize CAJO access points and Chesapeake Bay Gateway sites based on ATS potential.

Analysis Methodology

The regional ATS analysis employs a straightforward location-based scoring system to assess the level of potential using alternative transportation to visit CAJO. All lands within the project study area ultimately receive a score – locations with higher scores indicate a higher level of alternative transportation potential, while locations with lower scores indicate a lower level of alternative transportation potential.

Scores reflect the number of points accumulated by each location in the CAJO region. Points are accumulated based on criteria inventoried and presented in Section 1 of this document, focusing on general location and proximity to services and facilities.

The system for scoring points is outlined below:

General Location

- Two points for all locations within a Chesapeake Bay Gateways cluster; one point for all locations within one mile of a single Gateways site
- Two point for all locations within a CAJO access point cluster; one point for all locations within ½ mile of a single CAJO access point
- One point for all locations within a U.S. Census designated urbanized area or urban cluster

Proximity to Services and Facilities

- One point for all locations within two miles of a major land-based transportation trail; two points for all locations within one mile of a major land-based transportation trail
- One point for all locations within one mile of a canoe/kayak service
- One point for all locations within one mile of an excursion/tour boat dock
- One point for all locations within one mile of a ferry dock
- One point for all locations within one mile of a water trail¹

To complete the analysis, all criteria are compiled in a single map, layered together to show where different criteria overlap. Areas with many overlapping criteria accumulate more points and receive a higher score, while lower scores indicate few overlapping criteria. For example, a location scores three points if it is within one mile of a land-based trail (worth two points) and within one mile of a ferry dock (one point). Another location scores four points if it within a Chesapeake Bay Gateways cluster (two points), within an urbanized area (one point), and within one mile of an excursion/tour boat dock (one point).

Water trail data was provided by NPS, and as such, is not a component of the Volpe Center's ATS inventory. Water trail map and tabular information is available in the appendix.

Analysis Results

The regional ATS analysis reveals a range of potential for CAJO access via alternative transportation, illustrated in Figure 1.

A few locations scored very high – in the 8 to 10 point range – indicating a high potential for CAJO accessibility by alternative transportation. Not surprisingly, most of these locations are concentrated around water bodies in the major population centers, but a couple of smaller towns are also represented in this range. Based on their scores, it is likely that these areas already possess a number of alternative transportation options.

Locations scoring in the middle range of 4 to 7 points account for a variety of unique locations throughout the CAJO region. Some appear to be urban trail corridors, while others appear to be relatively isolated areas of alternative transportation potential that may not easily be connected to other areas. Regardless, the middle ranges may account for some of the more interesting opportunities for alternative transportation program development in the CAJO region, particularly if they provide links or connections to areas with higher scores.

Not surprisingly, most low scoring areas of 1 to 3 points are rural, remote, or removed from the Chesapeake Bay's activity centers and transportation corridors.

Figure 1 CAJO Regional Alternative Transportation Systems (ATS) AnalysisSource: The Volpe Center

Captain John Smith Chesapeake National Historic Trail Regional Alternative Transportation Systems (ATS) Analysis CAJO ATS Access Potential NORTH 0 5 10 15 20 Miles

Section 3: Putting the Regional ATS Analysis to Use

The purpose of the regional ATS analysis is to allow planners and trail managers to easily see where and what types of ATS development are most likely to have a positive impact on alternative transportation access for the Captain John Smith Chesapeake National Historic Trail.

Scored Gateways and Access Points

One application of the regional ATS analysis is to apply a score to each Gateway and CAJO access point based on where it falls within the region. Without getting mired in the details of each site or access point, ATS generalizations can be made based on a site's score. While circumstances will undoubtedly vary from site to site, these generalizations can serve as the first step in a more detailed investigation. In other words, planners and managers will know what to look for and will have a better understanding of what types of projects might most successfully be initiated at which sites. A map of scored Gateways sites and CAJO access points is presented in Figure 2, along with an accompanying list of Gateways sites scored from high to low in Table 1.

For Gateways sites and access points that score between eight and ten points, ATS options are most likely available, and successful ATS projects will need to be tied to services and facilities at or near the site itself. Since public transportation service is probably nearby, it will be important to ensure safe access from public transportation to the site or access point. Furthermore, transit facilities such as bus shelters and information kiosks may assist visitors in using public transportation. Pedestrian connectivity to the site will also be an important consideration. Crosswalks and signals are essential for improving the walkability of the immediate surroundings, while ensuring smooth transitions between other modes of transportation. The site or access point is almost certainly accessible by bicycle. Ensuring that bike storage is available at the site will further encourage bike use, as will improving road safety with dedicated or shared bike lanes.

For Gateways sites and access points scoring between four and seven, focus may be placed less on site-specific ATS characteristics, while shifting more toward inter-connectivity with surrounding resources, Gateways sites, and access points, particularly those with higher scores. If a major transportation trail is in the vicinity, CAJO planners might ask what other sites are accessible from the same trail. The same could be said for water trails, public transportation, and water-based transportation. For these sites, public transportation might be in the area, but may not provide direct access. Forging partnerships with local parks and transportation departments will be important here, possibly creating neighborhood kayak rental facilities or developing improvements in transportation services that provide better access to CAJO for both residents and visitors.

Finally, for sites and access points scoring between one and three, it is unlikely that ATS development is a viable use of funding. While exceptions to this rule certainly exist within the CAJO region, it can be surmised that the majority of these sites and access points is difficult to access with ATS. CAJO would be better served by ATS investment at higher priority sites.

ATS Sub-regions

Creating ATS sub-regions will allow planners to think broadly about transportation services for all of CAJO with the possibility of developing a more detailed ATS corridor study for a smaller study area. While any number and combination of potential sub-regions exists within the CAJO region, seven examples with a high potential for ATS improvement are illustrated in Figure 3. Example sub-regions are:

- Susquehanna River Corridor
 Includes Aberdeen, Havre de Grace, Port Deposit, Perryville, and Charlestown.
- 2. Greater Baltimore and Annapolis

Focuses on Baltimore to Annapolis corridor, including the Cunninghill Cove/Gunpowder Falls region to the north and the Shady Side/Galesville region to the south.

3. Washington DC Potomac River Corridor

Includes Great Falls to Mason Neck on the Potomac, including the Anacostia corridor north to Bladensburg and the Occoquan corridor between Woodbridge and Manassas.

4. Maryland's Eastern Shore

Includes Queen Anne, Denton, Easton, and Cambridge. May also include St. Michaels, Tilghman Island, Kent Island, Grasonville, etc.

5. Fredericksburg

6. Fishing Villages and Islands

Includes Solomons, Point Lookout, Smith Island, Tangier Island, Reedville, and Crisfield.

7. James River Corridor

Includes Richmond, Williamsburg, Jamestown, Yorktown, Hampton, Norfolk, and Virginia Beach.

Figure 2 Regional ATS Analysis Gateways Sites and Access Point ScoresSource: The Volpe Center

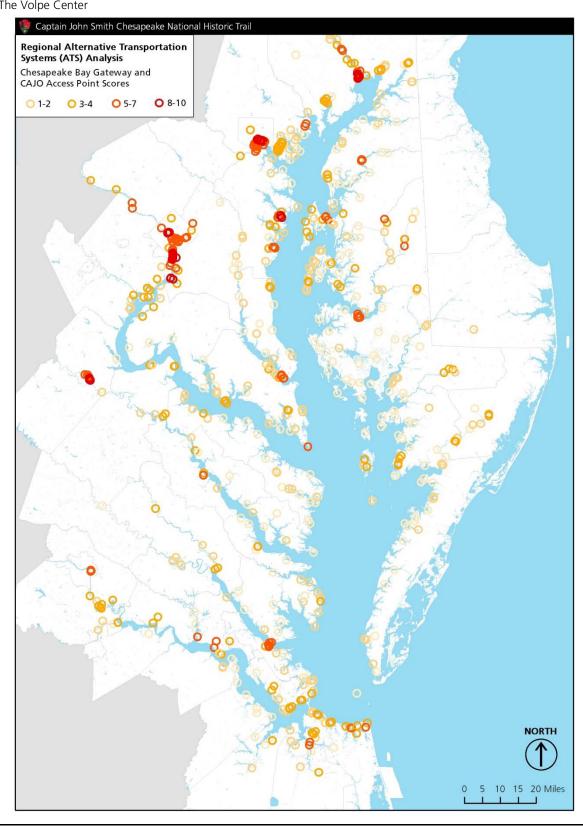


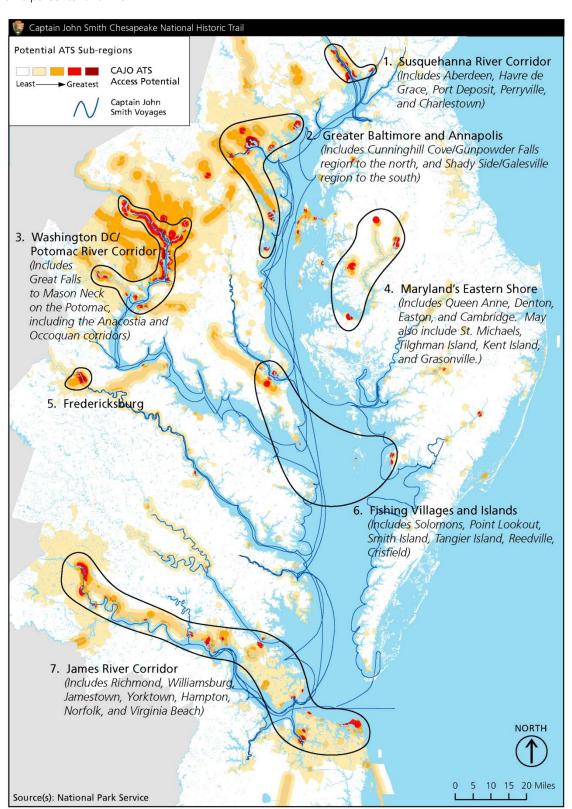
Table 1 Chesapeake Gateway Sites Scores Source: The Volpe Center

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| <u> </u> | Gunpowder Falls State Park | • | 5 |
| Martinak State Park Gateway Site 5 | Martinak State Park | Gateway Site | 5 |
| Tuckahoe State Park Gateway Site 5 | Tuckahoe State Park | • | 5 |
| Anacostia River Community Park Gateway Site 5 | | - | 5 |
| Bladensburg Waterfront Park Gateway Site 5 | | , and the second | 5 |
| Chesapeake Biological Laboratory, UMCES Gateway Site 5 | | - | |
| Chesapeake Exploration Center Regional Information Center 5 | · | - | |

| Geddes-Piper House | Gateway Site | 5 |
|---|-----------------------------|---|
| Great Falls Park | Gateway Site | 5 |
| Marshy Point Park | Gateway Site | 5 |
| J.Millard Tawes Museum & Ward Bros. Workshop | Gateway Site | 4 |
| Smith Island Center | Gateway Site | 4 |
| Wharves at Choptank Crossing | Gateway Site | 4 |
| Dutch Gap Conservation Area | Gateway Site | 4 |
| Janes Island State Park | Gateway Site | 4 |
| Mason Neck State Park | Gateway Site | 4 |
| Patapsco State Park | Gateway Site | 4 |
| Sturgis Memorial Gateway | Gateway Site | 4 |
| Terrapin Nature Park | Gateway Site | 4 |
| Chesapeake Bay Center at First Landing State Park | Regional Information Center | 4 |
| Chesapeake Beach Railway Museum | Gateway Site | 4 |
| Rock Creek Park | Gateway Site | 4 |
| The Maryland Zoo in Baltimore | Gateway Site | 4 |
| Historic London Town and Garden | Gateway Site | 3 |
| Historic St. Mary's City | Gateway Site | 3 |
| James Mills Scottish Factor Store | Gateway Site | 3 |
| Mariners' Museum | Gateway Site | 3 |
| Potomac Gateway Welcome Center | Regional Information Center | 3 |
| St. Clement's Island - Potomac River Museum | Gateway Site | 3 |
| Virginia Living Museum | Gateway Site | 3 |
| Galesville Heritage Museum | Gateway Site | 3 |
| Great Bridge Lock Park | Gateway Site | 3 |
| Mason Neck NWR | Gateway Site | 3 |
| Occoquan Bay NWR | Gateway Site | 3 |
| Pemberton Historical Park | Gateway Site | 3 |
| Piscataway Park/National Colonial Farm | Gateway Site | 3 |
| Smallwood State Park | Gateway Site | 3 |
| Westmoreland State Park | Gateway Site | 3 |
| Adkins Arboretum | Gateway Site | 3 |
| Dogwood Harbor, Tilghman Island | Gateway Site | 3 |
| Lawrence Lewis, Jr. Park | Gateway Site | 3 |
| Myrtle Point Park | Gateway Site | 3 |
| Hoffler Creek Wildlife Preserve | Gateway Site | 2 |
| Huntley Meadows Park | Gateway Site | 2 |
| Reedville Fishermen's Museum | Gateway Site | 2 |
| Sotterley Plantation | Gateway Site | 2 |
| Stratford Hall Plantation | Gateway Site | 2 |
| Ward Museum of Wildfowl Art | Gateway Site | 2 |
| Jamestown Island | Gateway Site | 2 |
| Pamunkey Indian Reservation | Gateway Site | 2 |
| Battle Creek Cypress Swamp | Gateway Site | 2 |
| Belle Isle State Park | Gateway Site | 2 |
| Blackwater NWR | Gateway Site | 2 |
| Caledon SP/Natural Area | Gateway Site | 2 |
| Calvert Cliffs State Park | Gateway Site | 2 |
| | | |

| Chippokes Plantation State Park | Gateway Site | 2 |
|--|-----------------------------|---|
| Eastern Neck NWR | Gateway Site | 2 |
| Elk Neck State Park | Gateway Site | 2 |
| Jefferson Patterson Park & Museum | Gateway Site | 2 |
| King's Landing Park | Gateway Site | 2 |
| Kiptopeke State Park | Gateway Site | 2 |
| Leesylvania State Park | Gateway Site | 2 |
| Merkle Wildlife Sanctuary | Gateway Site | 2 |
| North Point State Park | Gateway Site | 2 |
| Piney Point Lighthouse Museum/Park | Gateway Site | 2 |
| Pocomoke River State Forest & Park | Gateway Site | 2 |
| Sandy Point State Park | Gateway Site | 2 |
| Wye Island NRMA | Gateway Site | 2 |
| York River SP/Croaker Landing | Gateway Site | 2 |
| George Washington Birthplace NM | Gateway Site | 2 |
| Chesapeake Bay Environmental Center | Gateway Site | 2 |
| Chesapeake Bay Maritime Museum | Regional Information Center | 2 |
| Greenwell State Park | Gateway Site | 2 |
| Steamboat Era Museum | Gateway Site | 2 |
| Trap Pond State Park | Gateway Site | 2 |
| Tangier History Museum & Intercultural Center | Gateway Site | 2 |
| Mathews Co. Visitor Information Center (McVic) | Regional Information Center | 1 |
| Nassawango Creek Preserve-Furnace Town | Gateway Site | 1 |
| Patuxent Research Refuge, National Wildlife Visitor Center | Gateway Site | 1 |
| Patuxent River Park, Jug Bay Natural Area | Gateway Site | 1 |
| Pickering Creek Audubon Center | Gateway Site | 1 |
| Sassafras NRMA & Turner's Creek Park | Gateway Site | 1 |
| Susquehanna State Park | Gateway Site | 1 |
| Wye Grist Mill | Gateway Site | 1 |
| Cape Charles Historic District | Gateway Site | 1 |
| Eastern Shore of Virginia NWR | Gateway Site | 1 |
| Flag Ponds Nature Park | Gateway Site | 1 |
| Mount Harmon Plantation | Gateway Site | 1 |
| Parkers Creek (American Chestnut Land Trust) | Gateway Site | 1 |
| Rappahannock River Valley NWR | Gateway Site | 1 |
| Smithsonian Environmental Research Center | Gateway Site | 1 |
| East Branch Elizabeth River Trail | Water Trail | 1 |
| Virginia Eastern Shore Water Trails | Water Trail | 1 |
| Virginia Eastern Shore Water Trails | Water Trail | 1 |

Figure 3
Potential ATS Sub-regions
Source: The Volpe Center and NPS



Section 4: Next Steps

In order to continue moving forward with ATS planning for CAJO, it will be important to use the resources developed in this phase of the CMP as a starting point for future endeavors.

Inventory Maintenance

Maintaining an accurate inventory has numerous benefits for the trail, its visitors, and its partners. As part of this study, the ATS inventory represents a snapshot of services and facilities as they are today. Because of the large geographic area, and because of the dynamic nature of private business and infrastructure improvements, the ATS picture will undoubtedly change over time. As trails are developed, excursion operators come and go, and transit systems evolve, inventory information will need to follow suit.

While revisiting each inventory component at a designated juncture is one option, other avenues exist whereby inventories may actually be maintained outside the jurisdiction of the park. For example, it is arguably in a kayak rental company's best interest to be accurately represented in a CAJO inventory. As a result, CAJO might decide that it is worth it to provide a forum that allows a kayak rental company to maintain its operational status and the services it provides. The same principle applies to excursion/tour boats, ferries, water taxis, and other service providers.

CAJO leaders and partners will need to work together to design an inventory maintenance plan. The process will involve examining maintenance alternatives, establishing criteria for inclusion in an inventory, and planning for how the inventory might be used both internally and externally.

Data Collection

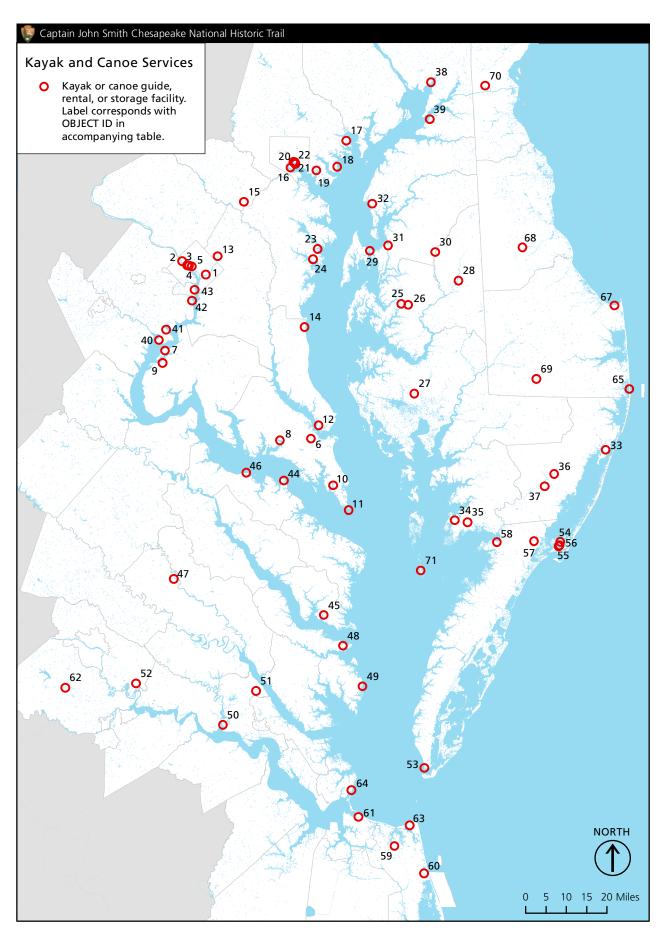
In order to begin more detailed ATS planning and project development, CAJO will need to think about how visitation can be monitored. With so many different partner organizations and visitation variables, coordination will be a significant challenge. However, understanding the ways in which visitors to CAJO visitors are accessing and experiencing the trail will be an important step in ATS program development.

Detailed Corridor Study

The ATS analysis as presented in this report should be used as the first step in a deciding upon a more detailed corridor study. By choosing one or more of the suggested sub-regions, or creating a new one that has yet to be defined, a detailed corridor study will allow CAJO planners and managers to move beyond regional analysis into localized planning efforts. This will include developing partnerships with local government agencies, working with small businesses and advocacy groups, and creating an implementation plan for ATS improvements that will provide benefits locally and throughout the CAJO region.

Appendix: Inventory Maps and Tables

| Chesapeake Bay Gateway Clusters | Aı |
|--|-----|
| CAJO Public Access Point Clusters | A4 |
| Major Land-based Transportation Trails | A8 |
| Kayak and Canoe Services | A19 |
| Excursion/Tour Boats | A22 |
| Ferries and Water Taxis | A22 |
| Transit Agencies | A26 |
| Urban Land | A29 |
| Water Trails | Azz |

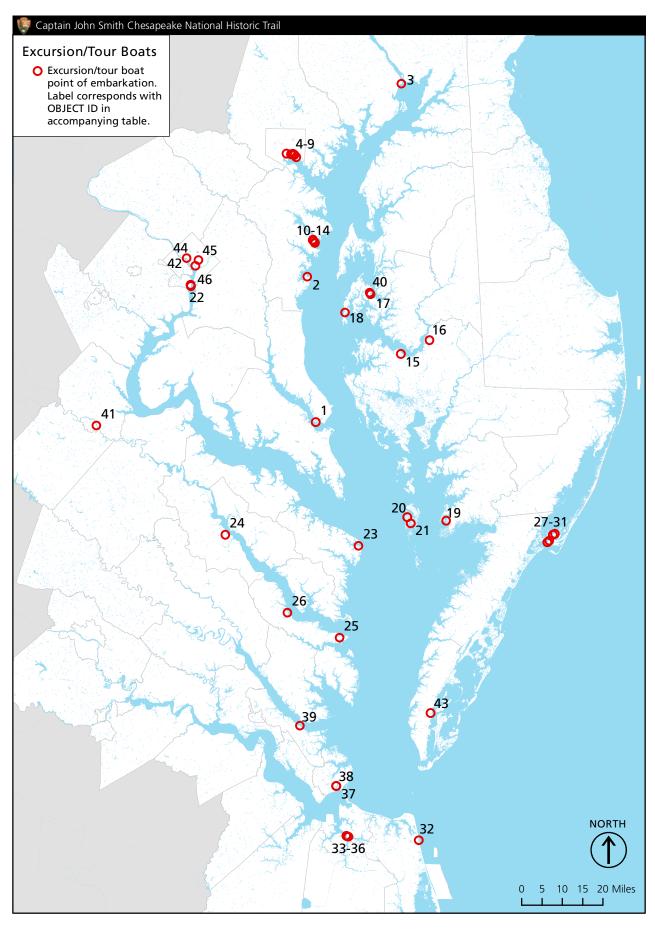


KAYAK AND CANOE SERVICES

| OBJECTID | Name | Address | City | State | Zip |
|----------|---|---|---------------------|-------|-------|
| 1 | Anacostia Community Boathouse Association | 1105 O Street SE | Washington | DC | 20003 |
| 2 | Washington Canoe Club | 3700 Water Street NW | Washington | DC | 20007 |
| 3 | Fletcher's Boat House | 4940 Canal Road NW | Washington | DC | 20007 |
| 4 | Jack's Boathouse | 3500 K Street NW | Washington | DC | 20007 |
| 5 | Thompson Boat Center | 2900 Virginia Avenue NW | Washington | DC | 20037 |
| 6 | Blue Wind Action Sports | 22803 Gunstan Dr. | California | MD | 20619 |
| 7 | Up The Creek Rentals | 108A Mattingly Ave | Indian Head | MD | 20640 |
| 8 | McIntosh Outfitters | 22500 Washington Street | Leornardtown | MD | 20650 |
| 9 | Smallwood State Park (Sweden Point Marina) | 2750 Sweden Point Road | Marbury | MD | 20658 |
| 10 | BluHaven Piers | 48406 Smith Road | Ridge | MD | 20680 |
| 11 | Point Lookout State Park | 11175 Point Lookout Road | Scotland | MD | 20687 |
| 12 | Patuxent Adventure Center | 13860 C Solomons Island Road | Solomons | MD | 20688 |
| 13 | Bladensburg Waterfront Park | 4601 Annapolis Road | Bladensburg | MD | 20710 |
| 14 | Bay Paddlers (Fishing Creek Landing Marina) | 4055 Gordon Stinnett Avenue | Chesapeake Beach | MD | 20732 |
| 15 | Terrapin Adventures | 8600 Foundry Street | Savage | MD | 20763 |
| 16 | Canton Kayak Club | 801 Lancaster Streetáá | Baltimore | MD | 21202 |
| 17 | Ultimate Watersports | 7200 Graces Ouarters Rd | Middle River | MD | 21220 |
| 18 | Canton Kayak Club | 2542 Island View Road | Essex | MD | 21221 |
| 19 | Canton Kayak Club | 8500 Cove Road | Dundalk | MD | 21222 |
| 20 | Canton Kayak Club | 1010 Hull Street | Baltimore | MD | 21230 |
| 21 | Canton Kayak Club | 2600 Insulator Driveáá | Baltimore | MD | 21230 |
| 22 | Canton Kayak Club | 1633 Thames Street | Baltimore | MD | 21231 |
| 23 | Annapolis Canoe and Kayak | 311 Third Street | Annapolis | MD | 21403 |
| 24 | Quiet Waters Park Boat Rentals | 600 Quiet Waters Park Road | Annapolis | MD | 21403 |
| 25 | | 28290 Saint Michaels Road | Easton | MD | 21601 |
| | Eastern Shore Adventure Company | | | MD | |
| 26 | Easton Cycle and Sport | 723 Goldsborough St | Easton | MD | 21601 |
| 27 | Blackwater Paddle & Pedal Adventures | 4303 Bucktown Road | Cambridge | | 21613 |
| 28 | Martinak State Park | 137 Deep Shore Road | Denton | MD | 21629 |
| 29 | Kent Island Kayaks | 110 Channel Marker Way | Grasonville | MD | 21638 |
| 30 | Tuckahoe State Park | 13070 Crouse Mill Road | Queen Anne | MD | 21657 |
| 31 | Adventure Crafters | 7109 Main Street | Queenstown | MD | 21658 |
| 32 | Chester River Kayak Adventures | 5758 Main Street | Rock Hall | MD | 21661 |
| 33 | Assateague State Park | 7307 Stephen Decatur Highway, | Berlin | MD | 21811 |
| 34 | Janes State Park | 26280 Alfred Lawson Drive | Crisfield | MD | 21817 |
| 35 | Tangier Sound Outfitters | 27582 Farm Market Road | Marion | MD | 21838 |
| 36 | Pocomoke River Canoe Company | 312 N. Washington Street | Snow Hill | MD | 21863 |
| 37 | Pocomoke River State Park | 3461 Worcester Highway | Snow Hill | MD | 21863 |
| 38 | North East River Marina | 724 Water Street | Charlestown | MD | 21914 |
| 39 | Crystal Sunset Kayak | 15 Virginia Avenue | Earleville | MD | 21919 |
| 40 | Mason Neck State Park | 7301 High Point Road | Lorton | VA | 22079 |
| 41 | Pohick Bay Regional Park | 6501 Pohick Bay Drive | Lorton | VA | 22079 |
| 42 | Belle Haven Marina | 6401 George Washington Memorial Parkway | Alexandria | VA | 22307 |
| 43 | Atlantic Kayak Company | 1201 North Royal Street | Alexandria | VA | 22314 |
| 44 | Coles Point Plantation | 307 Plantation Drive | Coles Point | VA | 22442 |
| 45 | Northern Neck Kayak | 480 King Carter Drive | Irvington | VA | 22480 |
| 46 | Westmoreland State Park | 1650 State Park Road | Montross | VA | 22520 |
| 47 | Mattaponi Canoe and Kayak | 8080 Richmond Tappahannock Highway | Aylett | VA | 23009 |
| 48 | Lazy Days Adventures | 17147 General Puller Highway | Deltaville | VA | 23043 |
| 49 | Bay Trails Outfitters | 2221 Bethel Beach Road | Mathews | VA | 23109 |
| 50 | Chickahominy Riverfront Park | 1350 John Tyler Highway | Williamsburg | VA | 23185 |
| 51 | York River State Park | 5526 Riverview Road | Williamsburg | VA | 23188 |
| 52 | Old Dominion Outdoors | 5164 New Market Road | Richmond | VA | 23231 |
| 53 | SouthEast Expeditions | 32218 Lankford Highway | Cape Charles | VA | 23310 |
| 54 | Oyster Bay Outfitters | 6332 Maddox Boulevard | Chincoteague Island | VA | 23336 |

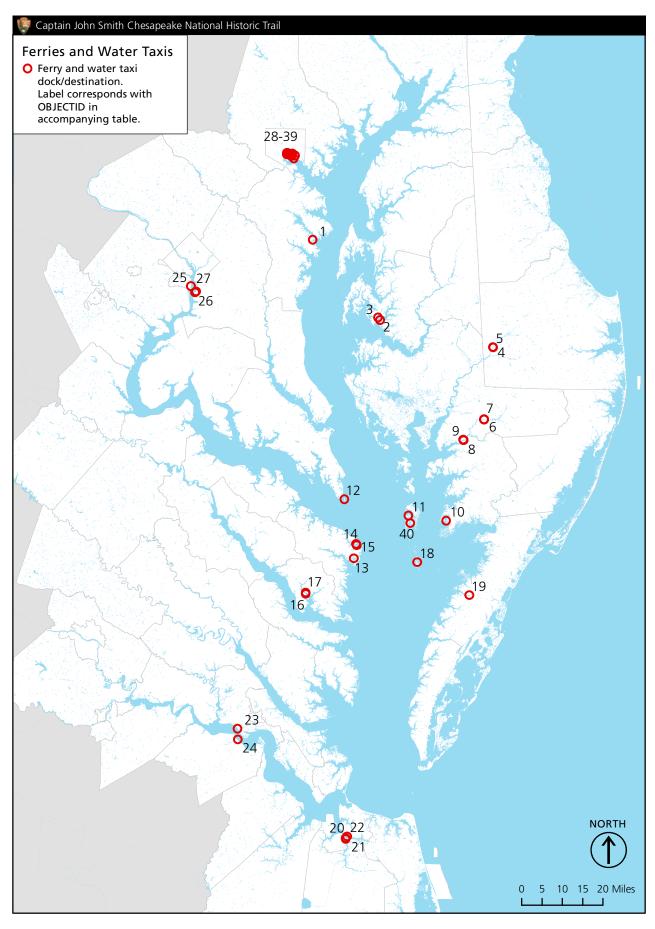
KAYAK AND CANOE SERVICES

| OBJECTID | Name | Address | City | State | Zip |
|----------|-------------------------------|--------------------------------|---------------------|-------|-------|
| 55 | Snug Harbor Marina | 7536 Eastside Road | Chincoteague Island | VA | 23336 |
| 56 | Wildlife Expeditions | 7729 Eastside Road | Chincoteague Island | VA | 23336 |
| 57 | The Marine Science Consortium | 7278 Enterprise Street | Wallops Island | VA | 23337 |
| 58 | Tall Pines Harbor Campground | 8107 Tall Pines Lane | Sanford | VA | 23426 |
| 59 | Wild River Outfitters | 3636 Virginia Beach Blvd. #108 | Virginia Beach | VA | 23452 |
| 60 | Surf and Adventure Company | 577 Sandbridge Road | Virginia Beach | VA | 23456 |
| 61 | Kayak Nature Tours | 110 West Randall Avenue | Norfolk | VA | 23503 |
| 62 | Pocahontas State Park | 10301 State Park Road | Chesterfield | VA | 23832 |
| 63 | First Landing State Park | 2500 Shore Drive | Virginia Beach | VA | 23451 |
| 64 | Buckroe Beach and Park | 2800 East Pembroke Ave | Hampton | VA | 23664 |
| 65 | Coastal Kayak | Rt. 1 | Fenwick Island | DE | 19944 |
| 66 | Wilderness Canoe Trips, Inc | 2111 Concord Pike | Wilmington | DE | 22227 |
| 67 | Cape Henlopen State Park | 42 Cape Henlopen Drive | Lewes | DE | 19958 |
| 68 | Killens Pond State Park | 5025 Killens Pond Road | Felton | DE | 19943 |
| 69 | Trap Pond State Park | 33587 Bald Cypress Drive | Laurel | DE | 19956 |
| 70 | Lums Pond State Park | 1068 Howell School Road | Bear | DE | 19701 |
| 71 | Tangier Island History Museum | | Tangier Island | VA | 23440 |



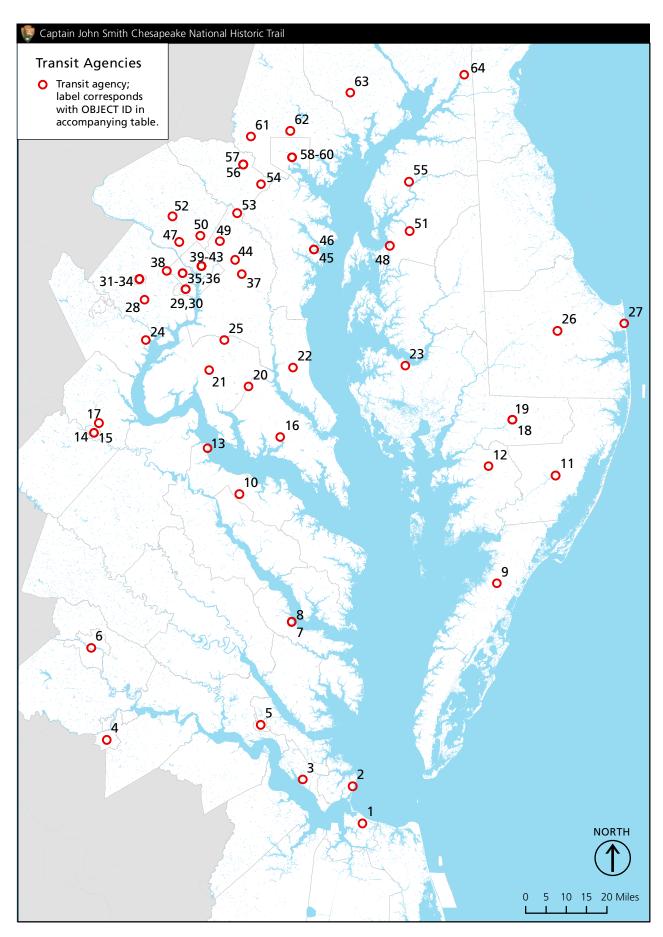
EXCURSION/TOUR BOATS

| OBJECTID | Name | Address | City | State | Zip |
|----------|--|-----------------------------|---------------------|-------|-------|
| 1 | Sail Solomons | 255 Alexander Lane | Solomons | MD | 20688 |
| 2 | West River Cruises | 4800 Atwell Rd | Shady Side | MD | 20764 |
| 3 | Skipjack Martha Lewis | 352 Commerce Street | Havre de Grace | MD | 21078 |
| 4 | Spirit Cruises of Baltimore | 561 Light St | Baltimore | MD | 21202 |
| 5 | Inner Harbor Cruises | 2400 Boston St. | Baltimore | MD | 21224 |
| 6 | Getaway Sailing | 2700 Lighthouse Point | Baltimore | MD | 21224 |
| 7 | Pride of Baltimore | 1801 S. Clinton St. | Baltimore | MD | 21224 |
| 8 | Black-Eyed Susan | 920 S. Broadway | Baltimore | MD | 21231 |
| 9 | Harbor Sail | 1001 Fell St. | Baltimore | MD | 21231 |
| 10 | Schooner Woodwind | 80 Compromise St | Annapolis | MD | 21401 |
| 11 | Watermark Cruises | 1 Dock St | Annapolis | MD | 21401 |
| 12 | Chesapeake Sailing School | 7080 Bembe Beach Rd | Annapolis | MD | 21403 |
| 13 | Liberte Schooner | 222 Severn Ave | Annapolis | MD | 21403 |
| 14 | Annapolis Sailing School | 7001 Bembe Beach Road | Annapolis | MD | 21403 |
| 15 | Cambridge Lady Cruises & Tours | 501 Court Ln | Cambridge | MD | 21613 |
| 16 | Choptank Riverboat Company | 6304 Suicide Bridge Rd | Hurlock | MD | 21643 |
| 17 | Selina II Sailing Charters | 101 N. Harbor Rd. | St. Michaels | MD | 21663 |
| 18 | Dockside Express Cruises & Tours | 21604 Chicken Point Rd | Tilghman | MD | 21671 |
| 19 | Tangier Island Cruises | 1001 W Main St | Crisfield | MD | 21817 |
| 20 | Smith Island Cruises | 4065 Smith Island Rd | Smith Island | MD | 21824 |
| 21 | Capt. Jason II-Smith Island Cruises | 21162 Tuff St | Smith Island | MD | 21866 |
| 22 | Potomac Riverboat Company | 205 The Strand | Alexandria | VA | 22314 |
| 23 | Smith Island Cruises | 382 Campground Road | Reedville | VA | 22539 |
| 24 | Rappahanock River Cruise | 1156 Tappahannock Blvd | Tappahannock | VA | 22560 |
| 25 | Sale Away! Charters | Va-33 & Va-1101 | Deltaville | VA | 23043 |
| 26 | Schooner Serenity | 45 Cross Street | Urbanna | VA | 23175 |
| 27 | Assateague Explorer Pony Watching/Wildlife Cruises | Curtis Merritt Harbor Drive | Chincoteague Island | VA | 23336 |
| 28 | Captain Barry's Back Bay Cruises | 8157 Sea Gull Dr | Chincoteague Island | VA | 23336 |
| 29 | Chincoteague Cruise and Nature Tours | Chincoteague Town Dock | Chincoteague Island | VA | 23336 |
| 30 | Daysail Charters | 3801 Main Street | Chincoteague Island | VA | 23336 |
| 31 | Linda Jay Charters | Curtis Merritt Harbor | Chincoteague Island | VA | 23336 |
| 32 | Rudee Tours | 200 Winston Salem Avenue | Virginia Beach | VA | 23451 |
| 33 | American Rover | 333 Waterside Drive | Norfolk | VA | 23510 |
| 34 | Spirit of Norfolk | 999 Waterside Dr | Norfolk | VA | 23510 |
| 35 | Victory Rover Naval Base Cruises | 1 Waterside Dr. | Norfolk | VA | 23510 |
| 36 | Carrie B. Harbor Cruises | 333 Waterside Drive | Norfolk | VA | 23510 |
| 37 | All Day River Adventure Cruise | 710 Settlers Landing Road | Hampton | VA | 23669 |
| 38 | Miss Hampton Cruises | 710 Settlers Landing Road | Hampton | VA | 23669 |
| 39 | Alliance Tall Ship Day Sails | 425 Water Street | Yorktown | VA | 23690 |
| 40 | Chesapeake Skipjack Sailing Tours | N/A | St. Michaels | VA | 21663 |
| 41 | Fredericksburg Cruise | City Docks | Fredericksburg | VA | 22539 |
| 42 | Capitol River Cruises | 31st and K Street, NW | Washington | DC | 20007 |
| 43 | Eastern Shore Adventures | | Oyster | VA | 23419 |
| 44 | DC Ducks | Union Station | Washington | DC | 20018 |
| 45 | Odyssey | 600 Water Street, SW | Washington | DC | 20024 |
| 46 | Dandy Dinner Boat | 0 Prince St. | Alexandria | VA | 22314 |



FERRIES AND WATER TAXIS

| OBJECTID | NAME | CITY | STATE |
|----------|---|---------------|-------|
| 1 | Oxford-Bellevue Ferry | Bellevue | MD |
| 2 | Oxford-Bellevue Ferry | Oxford | MD |
| 3 | Woodland Ferry | Seaford | DE |
| 4 | Woodland Ferry | Seaford | DE |
| 5 | Upper Ferry | Salisbury | MD |
| 6 | Upper Ferry | Salisbury | MD |
| 7 | Whitehaven Ferry | Whitehaven | MD |
| 8 | Whitehaven Ferry | Whitehaven | MD |
| 9 | Sharon Kay III | Crisfield | MD |
| 10 | Smith Island Cruises | Ewell | MD |
| 11 | Smith Island Cruises | Point Lookout | MD |
| 12 | Sunnybank Ferry | Sunnybank | VA |
| 13 | Sunnybank Ferry | Sunnybank | VA |
| 14 | Tangier Island Cruises | Reedville | VA |
| 15 | Merry Point Ferry | Merry Point | VA |
| 16 | Merry Point Ferry | Merry Point | VA |
| 17 | Tangier Island Cruises | Tangier | VA |
| 18 | Tangier-Onancock Ferry | Onancock | VA |
| 19 | HRT Paddlewheel Ferry | Norfolk | VA |
| 20 | HRT Paddlewheel Ferry | Portsmouth | VA |
| 21 | HRT Paddlewheel Ferry | Portsmouth | VA |
| 22 | Jamestown-Scotland Ferry | Jamestown | VA |
| 23 | Jamestown-Scotland Ferry | Scotland | VA |
| 24 | Alexandria-National Harbor Water Taxi | Alexandria | VA |
| 25 | Alexandria-National Harbor Water Taxi | Alexandria | VA |
| 26 | Alexandria-National Harbor Water Taxi | Alexandria | VA |
| 27 | Ed Kane's Water Taxi | Baltimore | MD |
| 28 | Ed Kane's Water Taxi | Baltimore | MD |
| 29 | Ed Kane's Water Taxi | Baltimore | MD |
| 30 | Ed Kane's Water Taxi | Baltimore | MD |
| 31 | Ed Kane's Water Taxi | Baltimore | MD |
| 32 | Ed Kane's Water Taxi | Baltimore | MD |
| 33 | Ed Kane's Water Taxi/ | Baltimore | MD |
| | CCC Water Taxi Harbor Collector | | |
| 34 | Ed Kane's Water Taxi/ CCC Water Taxi Harbor Collector | Baltimore | MD |
| 35 | Ed Kane's Water Taxi | Baltimore | MD |
| 36 | Ed Kane's Water Taxi | Baltimore | MD |
| 37 | Ed Kane's Water Taxi/ | Baltimore | MD |
| | CCC Water Taxi Harbor Collector | | |
| 38 | Ed Kane's Water Taxi | Baltimore | MD |
| 39 | Smith Island Cruises | Tylerton | MD |
| 40 | Annapolis Harbor Water Taxi | Annapolis | MD |

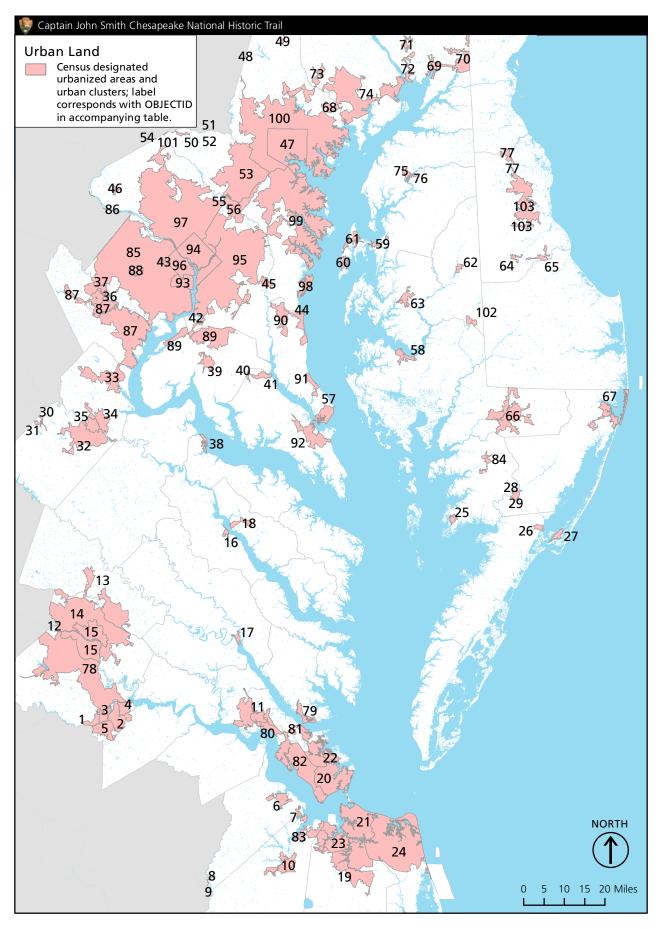


TRANSIT AGENCIES

| OBJECTID | AGENCY | CITY | STATE | NUM_VEHICL |
|-----------------|---|------------------|-------|-------------|
| 1 | Old Dominion University Campus Shuttle (ODUCS) | Norfolk | VA | Unavailable |
| 2 | HRT - Hampton Roads Transit / Transportation District Commission of Hampton Roads | Hampton | VA | 577 |
| 3 | Yorktown Trolley (YT) | Yorktown | VA | Unavailable |
| 4 | PAT - Petersburg Area Transit | Petersburg | VA | 21 |
| 5 | Williamsburg Area Transport (WAT) | Williamsburg | VA | 33 |
| 6 | Greater Richmond Transit Company (GRTC) | Richmond | VA | 285 |
| 7 | Bay Transit - Chesapeake Bay Area Agency on Aging | Urbanna | VA | Unavailable |
| 8 | The Pearl | Urbanna | VA | Unavailable |
| 9 | STAR Transit (ST) | Parksley | VA | 13 |
| 10 | Potomac Mills Shopping Shuttle (PMSS) | Potomac Mills | VA | Unavailable |
| 11 | WCR - Worcester County Ride (Worcester County Commission on Aging) | Snow Hill | MD | Unavailable |
| 12 | Somerset County Commission on Aging (SCCOA) | Princess Anne | MD | Unavailable |
| 13 | CBTT - Town of Colonial Beach Transit & Trolley | Colonial Beach | VA | 3 |
| 14 | FRED - Fredericksburg Regional Transit | Fredericksburg | VA | 21 |
| 15 | ABS - Aries Bus Service | Fredericksburg | VA | Unavailable |
| 16 | St. Mary's Transit Service (SMTS) | Leonardtown | MD | Unavailable |
| 17 | QCB - Quick Bus Service (D&B Bus) | Falmouth | VA | 57 |
| 18 | Shore Transit (ST) | Salisbury | MD | 47 |
| 19 | Wicomico Transit (WT) | Salisbury | MD | Unavailable |
| 20 | Tri-County Council for Southern Maryland | Charlotte Hall | MD | Unavailable |
| 21 | VanGO - Charles County Dept. of Community Services | Port Tobacco | MD | 34 |
| 22 | CCDOT - Calvert County DOT | Prince Frederick | MD | Unavailable |
| 23 | DDUST - Delmarva Community Services | Cambridge | MD | Unavailable |
| 24 | OmniRide - PRTC (Potomac and Rappahannock Transportation Commission) DR: OmniLink | Woodbridge | VA | 117 |
| 25 | KT - Keller Transportation | Waldorf | MD | Unavailable |
| 26 | CHEER Bus - Sussex County Senior Services | Georgetown | DE | Unavailable |
| 27 | Jolly Trolley of Rehobeth Beach (JTRB) | Rehobeth Beach | DE | 9 |
| 28 | EZ Bus - Virginia Railway Express EZ Bus | Burke | VA | Unavailable |
| 29 | Virginia Railway Express (VRE) | Alexandria | VA | 105 |
| 30 | Alexandria Transit Company (DASH) | Alexandria | VA | 57 |
| 31 | Fairfax Connector Bus System (Fairfax County) | Fairfax | VA | 281 |
| 32 | Fairfax CUE Bus System (City of Fairfax) - City University Energy-saver / City Wheels | Fairfax | VA | 12 |
| 33 | FASTRAN | Fairfax | VA | Unavailable |
| 34 | Mantua Van Pool - Mantua Citizens Association | Fairfax | VA | Unavailable |
| 35 | Arlington Transit - Arlington County | Arlington | VA | 27 |
| 36 | CSE - Crystal Skyline Express | Arlington | VA | Unavailable |
| 37 | The Bus - Prince George's County Dept. of Public Works & Transporation / Call-A-Bus | Largo | MD | 139 |
| 38 | GEORGE - City of Falls Church Local Transit | Falls Church | VA | Unavailable |
| 39 | WMATA - Washington Metropolitan Area Transit Authority (DC Metro) | Washington | DC | 2882 |
| 40 | Georgetown University Transportation Shuttle (GUTS) | Washington | DC | 6 |
| 41 | American University Shuttle Services (AUSS) | Washington | DC | 4 |
| 42 | Georgetown Metro Connection (GMC) | Washington | DC | 2 |
| 43 | Washington Harbour Shuttle (WHS) | Washington | DC | 1 |
| 44 | DBS - Dillon's Bus Service | Mitchelville | MD | Unavailable |
| 45 | AT - Annapolis Transit (City of Annapolis DOT) | Annapolis | MD | 27 |
| | | Annapolis | MD | Unavailable |
| <u>46</u> 47 | Handy Cab - Anne Arundel County Dept on Aging BTS - Bethesda Transportation Solutions | Bethesda | MD | Unavailable |
| 48 | MUST - Maryland Upper Shore Transit (Wye Mills) | Queenstown | MD | Unavailable |
| | | | | |
| 49 | Shuttle-UM - University of MD DOT Services ACT - Action Committee for Transit | College Park | MD | Unavailable |
| 50 | ACT - Action Committee for Transit | Silver Spring | MD | Unavailable |
| 51 | County Ride - Queen Anne's County Dept. of Aging | Centreville | MD | Unavailable |
| 52 | Ride-On - Montgomery County Transit Services Division | Rockville | MD | 467 |
| 53 | Howard Area Transit Service (HATS) / Corridor Transportation Corp. (CTC) / Connect-A-Ride | Laurel | MD | 47 |
| 54 | Spirit Shuttle - BWI Partnership Spirit Shuttle | Hanover | MD | Unavailable |

TRANSIT AGENCIES

| OBJECTID | AGENCY | CITY | STATE | NUM_VEHICL |
|----------|--|---------------|-------|-------------|
| 55 | USTAR - Upper Shore Take-A-Ride Transportation Service | Chestertown | MD | Unavailable |
| 56 | Howard Transit (HT) | Ellicott City | MD | Unavailable |
| 57 | Eyre Bus Service (EBS) | Glenelg | MD | Unavailable |
| 58 | Maryland Transit Administration (MTA) of Maryland DOT (Hanover) - CR: MARC | Baltimore | MD | 1605 |
| 59 | Seaport Taxi (ST) | Baltimore | MD | 1 |
| 60 | DASH - Downtown Area Shuttle | Baltimore | MD | Unavailable |
| 61 | DCS - Dependable Community Service | Randallstown | MD | Unavailable |
| 62 | County Ride - Baltimore County Dept. of Aging | Towson | MD | Unavailable |
| 63 | HCTS - Hartford County Transportation Services (Bel Air - Abingdon - Edgewood) | Bel Air | MD | 43 |
| 64 | The Bus - Cecil County Department of Aging | Elkton | MD | Unavailable |



URBAN LAND

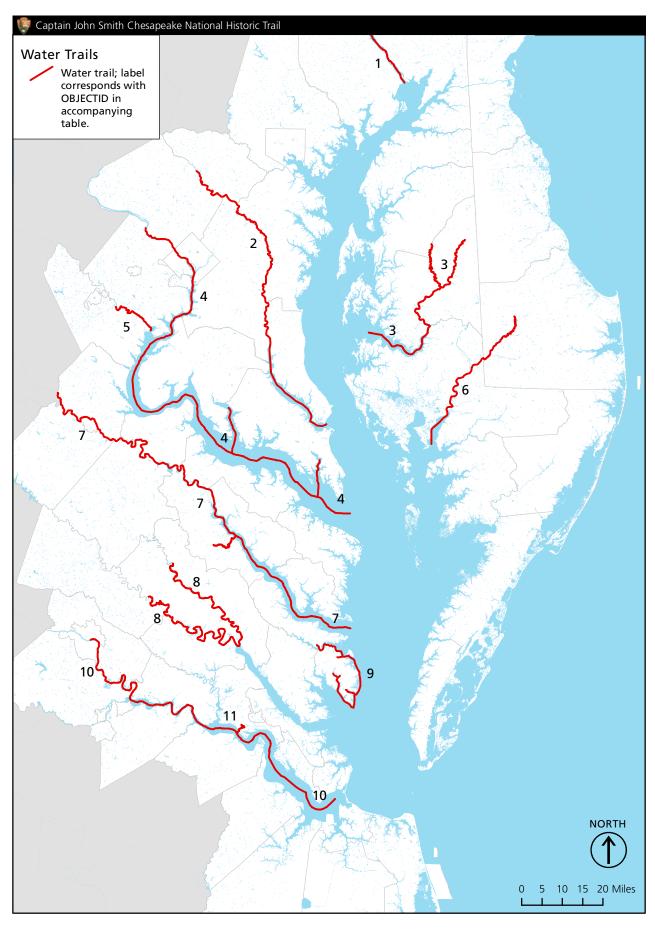
| OBJECTID | NAME | LSADC_DESC | COUNTY |
|----------|--------------------|---------------------|------------------|
| 1 | Richmond, VA | urbanized area (UA) | Dinwiddie |
| 2 | Richmond, VA | urbanized area (UA) | Prince George |
| 3 | Richmond, VA | urbanized area (UA) | Colonial Heights |
| 4 | Richmond, VA | urbanized area (UA) | Hopewell |
| 5 | Richmond, VA | urbanized area (UA) | Petersburg |
| 6 | Smithfield, VA | urban cluster (UC) | Isle of Wight |
| 7 | Virginia Beach, VA | urbanized area (UA) | Isle of Wight |
| 8 | Franklin, VA | urban cluster (UC) | Isle of Wight |
| 9 | Franklin, VA | urban cluster (UC) | Franklin |
| 10 | Suffolk, VA | urban cluster (UC) | Suffolk |
| 11 | Virginia Beach, VA | urbanized area (UA) | Williamsburg |
| 12 | Richmond, VA | urbanized area (UA) | Goochland |
| 13 | Richmond, VA | urbanized area (UA) | Hanover |
| 14 | Richmond, VA | urbanized area (UA) | Henrico |
| 15 | Richmond, VA | urbanized area (UA) | Richmond |
| 16 | Tappahannock, VA | urban cluster (UC) | Essex |
| 17 | West Point, VA | urban cluster (UC) | King William |
| 18 | Tappahannock, VA | urban cluster (UC) | Richmond |
| 19 | Virginia Beach, VA | urbanized area (UA) | Chesapeake |
| 20 | Virginia Beach, VA | urbanized area (UA) | Hampton |
| 21 | Virginia Beach, VA | urbanized area (UA) | Norfolk |
| 22 | Virginia Beach, VA | urbanized area (UA) | Poquoson |
| 23 | Virginia Beach, VA | urbanized area (UA) | Portsmouth |
| 24 | Virginia Beach, VA | urbanized area (UA) | Virginia Beach |
| 25 | Crisfield, MD | urban cluster (UC) | Somerset |
| 26 | Horntown, VA | urban cluster (UC) | Accomack |
| 27 | Chincoteague, VA | urban cluster (UC) | Accomack |
| 28 | Pocomoke City, MD | urban cluster (UC) | Somerset |
| 29 | Pocomoke City, MD | urban cluster (UC) | Worcester |
| 30 | Wilderness, VA | urban cluster (UC) | Orange |
| 31 | Wilderness, VA | urban cluster (UC) | Spotsylvania |
| 32 | Fredericksburg, VA | urbanized area (UA) | Spotsylvania |
| 33 | Washington, DCVAMD | urbanized area (UA) | Stafford |
| 34 | Fredericksburg, VA | urbanized area (UA) | Stafford |
| 35 | Fredericksburg, VA | urbanized area (UA) | Fredericksburg |
| 36 | Washington, DCVAMD | urbanized area (UA) | Manassas |
| 37 | Washington, DCVAMD | urbanized area (UA) | Manassas Park |
| 38 | Colonial Beach, VA | urban cluster (UC) | Westmoreland |
| 39 | La Plata, MD | urban cluster (UC) | Charles |
| 40 | Golden Beach, MD | urban cluster (UC) | Charles |
| 41 | Golden Beach, MD | urban cluster (UC) | St. Mary's |
| 42 | St. Charles, MD | urbanized area (UA) | Prince George's |

URBAN LAND

| OBJECTID | NAME | LSADC_DESC | COUNTY |
|----------|---|---------------------|-----------------|
| 43 | Washington, DCVAMD | urbanized area (UA) | Falls Church |
| 44 | Chesapeake Beach, MD | urban cluster (UC) | Anne Arundel |
| 45 | Washington, DCVAMD | urbanized area (UA) | Anne Arundel |
| 46 | Poolesville, MD | urban cluster (UC) | Montgomery |
| 47 | Baltimore, MD | urbanized area (UA) | Baltimore |
| 48 | HampsteadManchester, MD | urban cluster (UC) | Baltimore |
| 49 | New FreedomShrewsbury, PAMD | urban cluster (UC) | Baltimore |
| 50 | Mount Airy, MD | urban cluster (UC) | Carroll |
| 51 | Westminster, MD | urbanized area (UA) | Carroll |
| 52 | Mount Airy, MD | urban cluster (UC) | Howard |
| 53 | Baltimore, MD | urbanized area (UA) | Howard |
| 54 | Frederick, MD | urbanized area (UA) | Montgomery |
| 55 | Baltimore, MD | urbanized area (UA) | Montgomery |
| 56 | Baltimore, MD | urbanized area (UA) | Prince George's |
| 57 | Chesapeake Ranch Estates-Drum Point, MD | urban cluster (UC) | Calvert |
| 58 | Cambridge, MD | urban cluster (UC) | Dorchester |
| 59 | Queenstown, MD | urban cluster (UC) | Queen Anne's |
| 60 | Romancoke, MD | urban cluster (UC) | Queen Anne's |
| 61 | Stevensville, MD | urban cluster (UC) | Queen Anne's |
| 62 | Denton, MD | urban cluster (UC) | Caroline |
| 63 | Easton, MD | urban cluster (UC) | Talbot |
| 64 | Harrington, DE | urban cluster (UC) | Kent |
| 65 | Milford, DE | urban cluster (UC) | Kent |
| 66 | Salisbury, MDDE | urbanized area (UA) | Wicomico |
| 67 | Ocean City, MDDE | urban cluster (UC) | Worcester |
| 68 | AberdeenHavre de GraceBel Air, MD | urbanized area (UA) | Baltimore |
| 69 | North East, MD | urban cluster (UC) | Cecil |
| 70 | Philadelphia, PANJDEMD | urbanized area (UA) | Cecil |
| 71 | Rising Sun, MD | urban cluster (UC) | Cecil |
| 72 | AberdeenHavre de GraceBel Air, MD | urbanized area (UA) | Cecil |
| 73 | Baltimore, MD | urbanized area (UA) | Harford |
| 74 | AberdeenHavre de GraceBel Air, MD | urbanized area (UA) | Harford |
| 75 | Chestertown, MD | urban cluster (UC) | Kent |
| 76 | Chestertown, MD | urban cluster (UC) | Queen Anne's |
| 77 | Smyrna, DE | urban cluster (UC) | Kent |
| 78 | Richmond, VA | urbanized area (UA) | Chesterfield |
| 79 | Virginia Beach, VA | urbanized area (UA) | Gloucester |
| 80 | Virginia Beach, VA | urbanized area (UA) | James City |
| 81 | Virginia Beach, VA | urbanized area (UA) | York |
| 82 | Virginia Beach, VA | urbanized area (UA) | Newport News |
| 83 | Virginia Beach, VA | urbanized area (UA) | Suffolk |
| 84 | Princess Anne, MD | urban cluster (UC) | Somerset |

URBAN LAND

| OBJECTID | NAME | LSADC_DESC | COUNTY |
|----------|---|---------------------|----------------------|
| 85 | Washington, DCVAMD | urbanized area (UA) | Fairfax |
| 86 | Washington, DCVAMD | urbanized area (UA) | Loudoun |
| 87 | Washington, DCVAMD | urbanized area (UA) | Prince William |
| 88 | Washington, DCVAMD | urbanized area (UA) | Fairfax |
| 89 | St. Charles, MD | urbanized area (UA) | Charles |
| 90 | Chesapeake Beach, MD | urban cluster (UC) | Calvert |
| 91 | Calvert Beach-Long Beach, MD | urban cluster (UC) | Calvert |
| 92 | Chesapeake Ranch Estates-Drum Point, MD | urban cluster (UC) | St. Mary's |
| 93 | Washington, DCVAMD | urbanized area (UA) | Alexandria |
| 94 | Washington, DCVAMD | urbanized area (UA) | District of Columbia |
| 95 | Washington, DCVAMD | urbanized area (UA) | Prince George's |
| 96 | Washington, DCVAMD | urbanized area (UA) | Arlington |
| 97 | Washington, DCVAMD | urbanized area (UA) | Montgomery |
| 98 | Shady Side, MD | urban cluster (UC) | Anne Arundel |
| 99 | Baltimore, MD | urbanized area (UA) | Anne Arundel |
| 100 | Baltimore, MD | urbanized area (UA) | Baltimore |
| 101 | Frederick, MD | urbanized area (UA) | Frederick |
| 102 | Federalsburg, MD | urban cluster (UC) | Caroline |
| 103 | Dover, DE | urbanized area (UA) | Kent |



WATER TRAILS

| OBJECTID | TRAIL_NAME |
|----------|--|
| 1 | Susquehanna River Water Trail |
| 2 | Patuxent River Water Trail |
| 3 | Choptank & Tuckahoe Rivers Water Trail |
| 4 | Potomac River Water Trail |
| 5 | Occoquan River Water Trail |
| 6 | Nanticoke River Water Trail |
| 7 | Rappahannock River Water Trail |
| 8 | Mattaponi & Pamunkey Water Trail |
| 9 | Mathews County Blueway |
| 10 | Lower James River Water Trail |
| 11 | Powhatan Creek Blueway |

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

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| | REPORT DATE (DD-MM-YYYY) 2. REPORT TYPE 3. DATES COVERED (From - 7 | | | 3. DATES COVERED (From - To) | | | |
| | 4-2010 | | Technical Sup | pport | port Sep 2009 - Apr 1010 | | |
| 4. TITLE AND | SUBTITLE | | | | 5a. CON | NTRACT NUMBER | |
| Captain John Smith Chesapeake National Historic Trail: Alternative Transportation Study Support to Comprehensive Management Plan | | | agement | 5b. GRANT NUMBER | | | |
| 1 1411 | | | | | | | |
| | | | | | 5c. PRO | OGRAM ELEMENT NUMBER | |
| 6. AUTHOR(S) | | | | | 5d. PROJECT NUMBER | | |
| | min; Clark, Mi | chael | | | PMIS No. 135731 | | |
| | | | | | 5e. TASK NUMBER | | |
| | | | | | | | |
| | | | | | 5f. WOI | RK UNIT NUMBER | |
| 7. PERFORMIN | IG ORGANIZATI | ON NAME(S) AN | ID ADDRESS(ES) | | | 8. PERFORMING ORGANIZATION | |
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| Northeast Reg | | 02100 | | | | 11. SPONSOR/MONITOR'S REPORT NUMBER(S) | |
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| 12. DISTRIBUTION/AVAILABILITY STATEMENT | | | | | | | |
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| 13. SUPPLEMENTARY NOTES | | | | | | | |
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| 14. ABSTRACT | Ī | | | | | | |
| | | | | ory to evaluat | e alternat | ive transportation feasibility throughout the | |
| Captain John | Smith Chesape | ake National H | istoric Trail region. | | | | |
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| 15. SUBJECT 1 | TEDMS | | | | | | |
| | | al historic trail: | geographic informatio | n systems: Gl | IS: region | nal planning: alternative transportation | |
| national park service; national historic trail; geographic information systems; GIS; regional planning; alternative transportation | | | | | | | |
| 16. SECURITY | CLASSIFICATIO | N OF: | 17. LIMITATION OF | | 19a. NAI | ME OF RESPONSIBLE PERSON | |
| a. REPORT | b. ABSTRACT | c. THIS PAGE | ABSTRACT | OF PAGES | | eele, NER & Suzanne Copping, CAJO | |
| None | None | None | NA | | 19b. TEL | EPHONE NUMBER (Include area code) 617-223-5130 | |





As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our parks and historic places; and providing for the enjoyment of life through outdoor recreation. The department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

April 2010