

Federal Lands Highway Road Inventory Program

Road Inventory and Condition Assessment



First Ladies National Historic Site FILA

Cycle 5 Report

Prepared By: Federal Highway Administration Road Inventory Program (RIP) Data Collected: 09/2013 Report Date: 01/2014

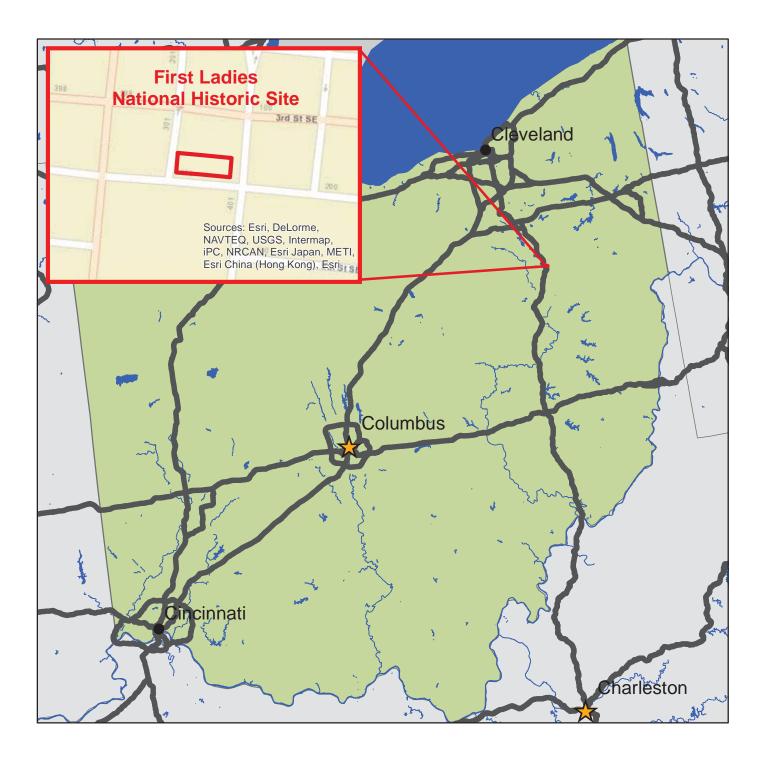




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Section 1 Introduction





INTRODUCTION

The Federal Highway Administration, (FHWA), in the mid 1970s, was charged with the task of identifying surface condition deficiencies and corrective priorities on National Park Service (NPS) roads and parkways. Additionally, FHWA was tasked with establishing an integrated maintenance features inventory, locating features such as culverts, guardrails, and signs, among others, along NPS roads and parkways. As a result, in 1976 the NPS and FHWA entered into an MOA (Memorandum Of Agreement) which established the RIP (Road Inventory Program). This MOA was terminated and revised in 1980 to establish a new MOA aiming to update RIP data and develop a long-range program to improve and maintain NPS roads to designated condition standards and establish a maintenance management program.

The FHWA completed this initial phase of the RIP in the early 1980s. As a result of this effort, each NPS site included in the study received a RIP Report known as the "Brown Book" which included the information collected during this first RIP phase.

In the 1990s, the effort was again renewed to update and maintain the RIP data. By this time the computer age was upon us and a process was employed that relied heavily on electronic data collection and computer technology. A cyclical program was developed and the RIP completed two cycles of data collection from 1994 to 2001. Cycle 1, starting in 1994, was conducted in 44 "large parks" (parks containing 10 or more paved route miles). Cycle 2 began in 1997 and comprised 79 large parks and 5 small parks totaling 4,874 paved route miles. Each of these parks received a RIP Report known as the "Blue Book". Cycle 3, from 2001 to 2004, was conducted in all parks, large and small, that contained any paved routes, including parking areas and, again, each park received a RIP Report and associated electronic files.

Cycle 4 was initiated in the spring of 2006 covering 86 large parks and several associated small parks consisting of 5,553 paved route miles and 6,232 paved parking areas. Data collection has been completed for Cycle 4 and all data has been delivered to the NPS.

In 2005, the FHWA began implementing the use of a Pavement Management System (PMS) to assist the NPS in prioritizing Pavement Maintenance and Rehabilitation activities. The PMS used by FHWA is the Highway Pavement Management Application (HPMA) and this software has the ability to store inventory and condition data from RIP and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Regional, Park, or Route level. A regional prioritized list and optimization have been produced for most regions and the Federal Highway Deferred Maintenance is calculated via the HPMA.

In an effort to improve the accuracy of treatment recommendations and pavement condition descriptions, an extensive study was completed throughout 2010 that has resulted in changes to the RIP condition reporting method, specifically the distresses and indexes that comprise the Pavement Condition Rating (PCR). It was determined that a better representation of PCR could

be achieved by modifying the relative impact certain distresses would have on the overall rating. The changes that were implemented were endorsed by management at both the FHWA and NPS in October 2010. These changes will allow greater use of RIP and HPMA data for not simply condition data reporting, but also as a reliable tool for project identification and selection. Because of these changes, the PCR Condition ratings reported in Cycle 5 do not directly relate to the condition ratings reported in previous cycle RIP Reports. For more detailed information about the changes, see Section 3 and Section 10 in this RIP Report.

Cycle 5 has launched in the summer of 2010 and will again comprise all parks, large and small, that are served by paved roads and/or parking areas. For Cycle 5, the decision was made to collect condition data in large parks on Functional Class 1, 2, and 7 paved routes only, as well as any new routes that were previously not collected. In small parks, all paved routes and parking areas will be collected. As a result, this will include 81 large parks with 4,459 paved route miles and 231 small parks with 529 paved route miles and associated paved parking areas.

Since 1984, the Road Inventory Program has been funded through the Federal Lands Highway Park Roads and Parkways (PRP) Program. Currently, coordination of the RIP with FLH is under the NPS Washington Headquarters Park Facility Management Division. The FLH Washington office coordinates policy and prepares national reports and needs assessment studies for Congress.

In 1998, the Transportation Equity Act for the 21st Century (TEA-21) amended Title 23 U.S.C., and inserted Section 204(a)(6) requiring the FHWA and NPS, to develop by rule, a Pavement Management System (PMS) applied to park roads and parkways serving the National Park System.

FLH is responsible for the accuracy of all data presented in this report. Any questions or comments concerning the contents of this report should be directed to the national RIP Coordinator located in Sterling, Virginia.

Respectfully,

FHWA RIP Team

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Section 2 Park Route Inventory





Cycle 5 NPS/RIP Route ID Report Road Inventory Program 01/06/2014 (Numerical By Route #) Page 1 of 3															
Shading Color Key: White = Paved Routes, DCV Driven			Yellow = Unpaved Routes, DCV not Driven Blue = All Paved Parking Areas Green = All Unpaved Parking Areas												
approx.		Grey		ved Routes, DCV not Driven	Black = State, Local or F			= Concession	Route Flag	ON					
*Unpaved route data was obtained from NPS and was not inventoried by the Road Inventory Program (RIP). ** DCV - Data Collection Vehicle NC - Not Collected															
FI	LA	FIF	ST L	ADIES NATIONAL HI	STORIC SITE										
Rte. No.	Cycle Collected	FMSS No.	Concess Route	Route Name	Route Des From	scription To		Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Manual Rated SQ/FT	Surf. Type	Area Maps
0900	5	78834		SAXTON MCKINLEY HOUSE PARKING	FROM COURT AVENUE SOUTHWEST	TO PARKING		N/A	0.00	0.00	0.00		6,149	AS	1
0901	5			NATIONAL FIRST LADIES LIBRARY PARKING	FROM MARKET STREET	TO COURT AVENUE SOUTHWEST		N/A	0.00	0.00	0.00		10,134	со	1

Road Inventory Program 01/06/2014 (Numerical By Route #) Page 2 of								
Shading Color Key:	White = Paved Routes, DCV Driven	fellow = Unpaved Routes, DCV n	ot Driven	Blue = All Paved Parking Areas	Green = All Unpaved Parking Area	as		
Red text denotes approx. mileage	· ·	Black = State, Local or Private nor		= Concession Route Flag ON				
*Unpaved route data was obtained from NPS and was not inventoried by the Road Inventory Program (RIP). ** DCV - Data Collection Vehicle NC - Not Collected								
CYCLE 5 SUMMARY TOTALS FOR FIRST LADIES NATIONAL HISTORIC SITE								
	CYCLE 5 ROUTE TOTALS			CYCLE 5 CONCES	SION TOTALS			
	DCV Driven Route M	les 0.00		0.00				
	Manually Rated Route M	les 0.00		0.00				
т	OTAL PARK ROUTE MILES COLLECTED IN CYCL	E 5 0.00		0.00				
	Manually Rated Routes (SQ	FT) 0		0				
	TOTAL UNPAVED PARK ROUTE MI	LES 0.00		Unpaved Parking Area SQFT	0			
				TOTAL CONCES	SSION PARKING AREA SQFT	0		
				Concession M	anually Rated Routes SQFT	0		
	* CYCLE 5 PARKING AREA TOT	ALS		CYCLE 5 WEIGHTED AVE	RAGE PARK VALUES	i		
Paved Parking (SQFT) 16,283				DCV Driven PCR				
	Unpaved Parking (SQ	-T) 0		N/A				
	TOTAL PARKING (SQ	T) 16,283			**Parking PCR	90		
				***	Total Equivalent Lane Miles	0.28		

* - The Parking Area Totals SQFT value represents all parking areas collected in Cycle 5, both park and concessionaire.

** - Parking and Manually Rated Routes are assigned the following PCR values based on their observed condition: Construction=-1, Excellent=97, Good=90, Fair=73, and Poor=45.

*** - Equivalent Lane Miles are calculated by route using the following equations : DCV and Manually Rated Lines Routes=(PAVE_WIDTHxPAVED_MI)/11 foot lane. Parking Areas=SQ_FEET/5280/11. Manually Rated Polygons=SQ_FEET/5280/11.

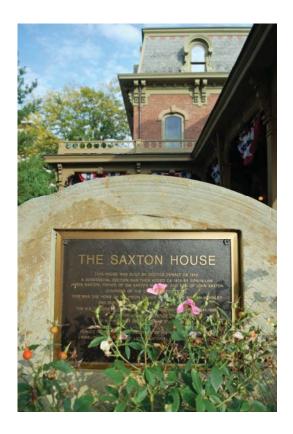
Shading Colo Red text den	2	White = Paved Routes, DCV Driven	Yellow = Unpaved Routes, DCV not Driven	Blue = All Paved	Parking Areas	Green = All Unpaved Parking Areas	
approx. milea		Grey = Paved Routes, DCV not Driven	Black = State, Local or Private non-NPS Routes	= C	Concession Route Flag ON		
			and was not inventoried by the Road Inventory Progra C - Not Collected	am (RIP).			
		<u>General Park Roa</u>	d Functional Classification Table			Surface Type Abbrev	<u>iations:</u>
			the main access route, circulatory tour, or thoroughfare for park visi mbered 1 - 9. State Routes Inventoried for Park. Route Numbers 50			AS - Asphaltic Concrete Pavement	
			park to areas of scenic, scientific, recreational or cultural interest, sc			CO - Portland Cement Concrete Pave	ment
		, etc. Route Numbers 100-199.		icit as overlooks,		BR - Brick or Pavers Road Bed	
	ss 3 Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes,					CB - Cobble Stone Road Bed	
C	concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.						
	ss 4 Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299.					SA - Sand Road Bed	
		onal Classes 3 and 4 have the same route numbers because, h				NV - Native or Dirt Material Road Bee	I
	Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.						
			ublic, including patrol roads, truck trails, and other similar roads. R				
tł			historically they were numbered similarly and often there is little dis often closed to the public, this restriction would result in classificat				
а	an urban area		igh volumes of park and non-park related traffic and are restricted, rkways which serve as gateways to our nation's capital. Other majo				
	City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.						

	,	5 5 1	unit of the NPS which are administered by the NPS, or by the Servi sed on traffic volumes or design speed, but on the intended use or t				

5000 route numbers are assigned to Non-NPS Routes that are State, County or City owned which border, traverse, or provide access to Park Facilities or Locations. 5000 Routes are driven for GPS and Video Log only.

	ROUTES ADDED FROM PREVIOUS INVENTORY:				
Route #	Route Name	Reason for Addition	Comments		
0901	NATIONAL FIRST LADIES LIBRARY PARKING	OTHER	ROUTE IS OWNED BY NATIONAL FIRST LADIES' LIBRARY (NON-NPS) BUT WAS ADDED TO THE INVENTORY BECAUSE THE NPS PROVIDES FUNDING FOR MAINTENANCE.		

<u>Section 3</u> Park Summary Information





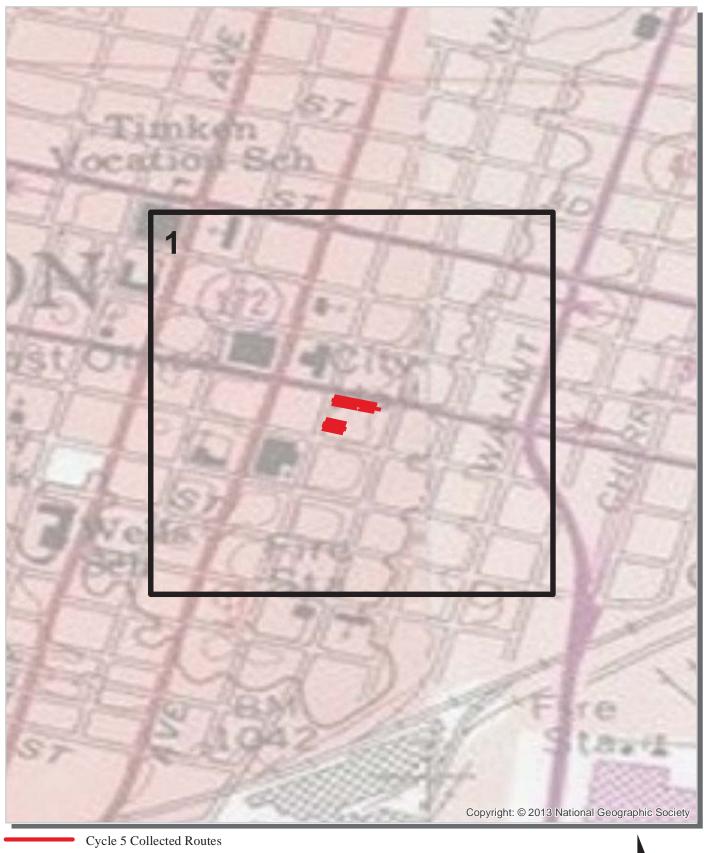
Note: This park is classified as a Small Park. No Data Collection Vehicle routes existed in this park at the time of data collection. Therefore, there is no data to report for this section.

<u>Section 4</u> Park Route Location Maps



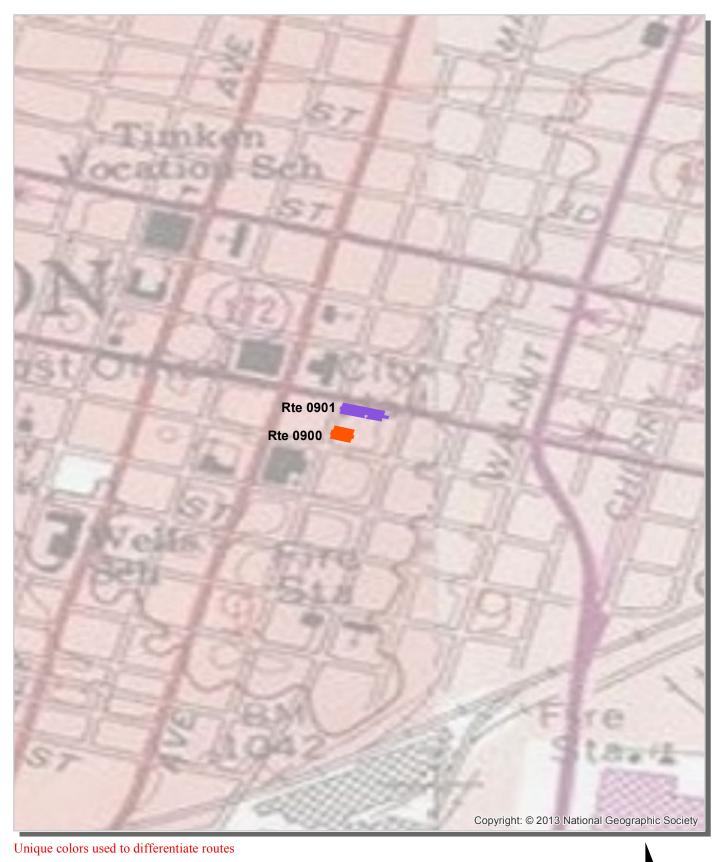


First Ladies National Historic Site Route Location Map Key Map





First Ladies National Historic Site Route Location Map Area 1





<u>Section 5</u> Paved Route Condition Rating Sheets





Note: This park is classified as a Small Park. No Data Collection Vehicle routes existed in this park at the time of data collection. Therefore, there is no data to report for this section.

<u>Section 6</u> Manually Rated Paved Route Condition Rating Sheets





MANUALLY RATED ROUTE CONDITION RATING SHEETS

No data available for this section.

<u>Section 7</u> Parking Area Condition Rating Sheets





FIRST LADIES NATIONAL HISTORIC SITE Route 0900

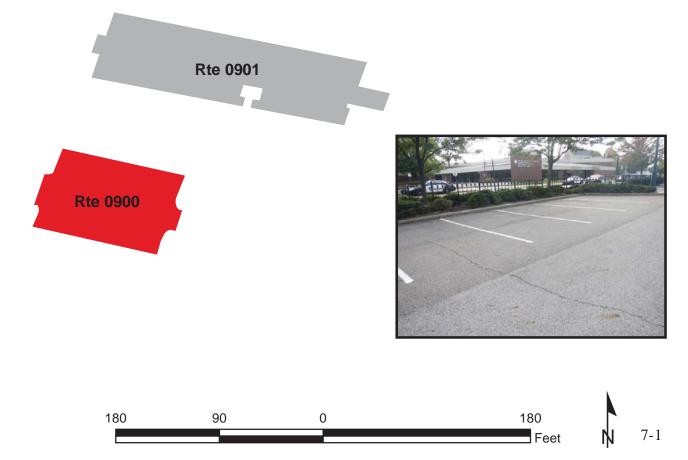
SAXTON MCKINLEY HOUSE PARKING FROM COURT AVENUE SOUTHWEST TO PARKING

Route	Public /				
Number	NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type
0900	PUBLIC	9/18/2013	6,149	0.11	AS
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR
			NO CURB AND	CONCRETE	
0	1	0	GUTTER	CURB	GOOD/90

* Lane miles are based on 11' lane widths







FIRST LADIES NATIONAL HISTORIC SITE Route 0901

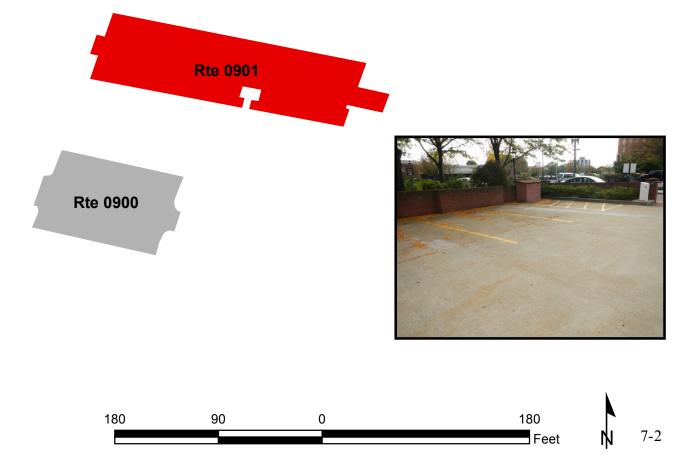
NATIONAL FIRST LADIES LIBRARY PARKING FROM MARKET STREET TO COURT AVENUE SOUTHWEST

Route	Public /				
Number	NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type
0901	PUBLIC	9/18/2013	10,134	0.17	СО
Culverts	Drop Inlets	Gates	Curb & Gutter	Curb	PCR
			NO CURB AND	CONCRETE	
0	2	2	GUTTER	CURB	GOOD/90

* Lane miles are based on 11' lane widths







<u>Section 8</u> Parkwide/Route Maintenance Features Summaries





FILA: PARKWIDE / ROUTE MAINTENANCE FEATURES SUMMARY

Note: There are no Data Collection Vehicle routes in this park. However, counts were made of the features listed in the table below.

Route					
Number	Culverts	Drop Inlets	Gates	Curb	Curb & Gutter
0900	0	1	0	CONCRETE CURB	NO CURB AND GUTTER
0901	0	2	2	CONCRETE CURB	NO CURB AND GUTTER
Totals	0	3	2		

NC = Not Collected

NO = This feature does not exist

Section 9 Route Maintenance Features Road Logs





Note: This park is classified as a Small Park. No Data Collection Vehicle routes existed in this park at the time of data collection. Therefore, there is no data to report for this section.

Section 10 Appendix





GLOSSARY OF TERMS AND ABBREVIATIONS

TERM ORABBREVIATIONDESCRIPTION OR DEFINITION

DCV	Data Collection Vehicle
Excellent	Excellent rating with an index value of 97
Fair	Fair rating with an index value from 73
Func. Class	Functional Classification (see Route ID, Section 2)
Good	Good rating with an index value of 90
MRR	Manually Rated Route
MRL	Manually Rated Line
MRP	Manually Rated Polygon
N/A	Not Applicable
NC	Not Collected
PCR	Pavement Condition Rating
PKG	Parking Area
Poor	Poor rating with an index value of 45
RIP	Road Inventory Program

GPS on Manually Rated Roads (MRR)

Parking areas, some roads, and other paved areas that are not fully drivable with the Data Collection Vehicle are collected manually by field technicians. GPS is collected for these routes using portable Trimble GPS backpack units. Paved campground pads and driveways are not typically included in the inventory or GPS.

Geodatabase - Background and Metadata

In addition to this park report, a *geodatabase* containing both tabular and spatial data specific to this park has been provided. All data disseminated in the preceding report has been obtained from the tables and fields within said geodatabase. The geodatabase can be referenced for tabular data via Microsoft Access or for both tabular and spatial data via ESRI's ArcGIS Suite of software which consists of; ArcMap, ArcCatalog and ArcExplorer. Consolidating the RIP data into one database creates a seamless relationship of tabular and geographic data. It will allow RIP to facilitate easier updates and enhancements in the future.

A geodatabase can be thought of as simply a database containing spatial data. Many different tables are contained within the park's geodatabase. A complete and thorough description of the tables and fields contained within this geodatabase can be found in the *metadata*. The metadata is attached directly within the geodatabase and can be accessed via ESRI's ArcCatalog. The metadata portion of the geodatabase also includes data dictionary report functionality that formats the metadata into an easy to read report.