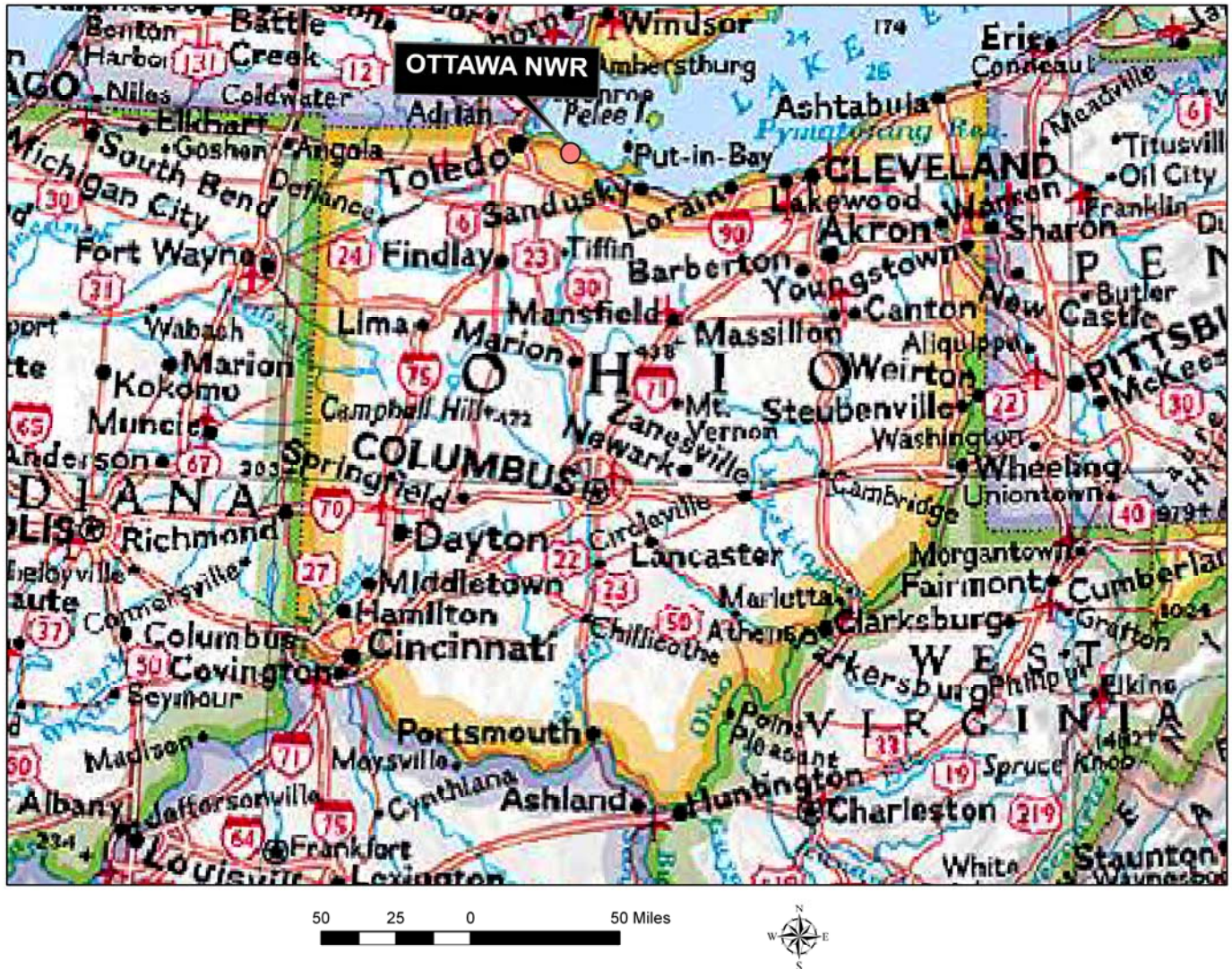


The Trail Inventory of U.S. Fish and Wildlife Service Stations In Ohio



Prepared By:
Federal Highway Administration
Central Federal Lands Highway Division
February, 2007



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FWS Stations in Ohio with Trails

Station Name	Trail Miles	Chapter
Ottawa NWR	7.14	2

Ohio FWS Stations Trail Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface Type	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
Native		0%		0%		0%		0%		0%		0%	0.00
Gravel	0.03	0%		0%		0%		0%		0%		0%	0.03
Asphalt		0%		0%		0%		0%		0%		0%	0.00
Concrete		0%		0%		0%		0%		0%		0%	0.00
Turnpike		0%		0%		0%		0%		0%		0%	0.00
Boardwalk	0.04	1%		0%		0%		0%		0%		0%	0.04
Puncheon		0%		0%		0%		0%		0%		0%	0.00
Woodchips		0%		0%		0%		0%		0%		0%	0.00
Mowed	1.30	18%		0%		0%		0%		0%		0%	1.30
Admin Road		0%		0%		0%		0%		0%	5.77	81%	5.77
Other		0%		0%		0%		0%		0%		0%	0.00
Totals	1.37	19%	0.00	0%	0.00	0%	0.00	0%	0.00	0%	5.77	81%	7.14

Trail Miles and Percentages by Trail Classification and Condition

Trail Classificatio n	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
TC1		0%		0%		0%		0%		0%		0%	0.00
TC2		0%		0%		0%		0%		0%		0%	0.00
TC3	0.41	6%		0%		0%		0%		0%		0%	0.41
TC4	0.92	13%		0%		0%		0%		0%	5.77	81%	6.69
TC5	0.04	1%		0%		0%		0%		0%		0%	0.04
Totals	1.37	19%	0.00	0%	0.00	0%	0.00	0%	0.00	0%	5.77	81%	7.14

* Admin Roads are included in the inventory but are not rated for condition.

The Trail Inventory of Ottawa National Wildlife Refuge Oak Harbor, Ohio



**Prepared By:
Federal Highway Administration
Central Federal Lands Highway Division
August 2006**



Ottawa NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface Type	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
Native		0%		0%		0%		0%		0%		0%	0.00
Gravel	0.03	0%		0%		0%		0%		0%		0%	0.03
Asphalt		0%		0%		0%		0%		0%		0%	0.00
Concrete		0%		0%		0%		0%		0%		0%	0.00
Turnpike		0%		0%		0%		0%		0%		0%	0.00
Boardwalk	0.04	1%		0%		0%		0%		0%		0%	0.04
Puncheon		0%		0%		0%		0%		0%		0%	0.00
Woodchips		0%		0%		0%		0%		0%		0%	0.00
Mowed	1.30	18%		0%		0%		0%		0%		0%	1.30
Admin Road		0%		0%		0%		0%		0%	5.77	81%	5.77
Other		0%		0%		0%		0%		0%		0%	0.00
Totals	1.37	19%	0.00	0%	0.00	0%	0.00	0%	0.00	0%	5.77	81%	7.14

Trail Miles and Percentages by Trail Classification and Condition

Trail Classification	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
TC1		0%		0%		0%		0%		0%		0%	0.00
TC2		0%		0%		0%		0%		0%		0%	0.00
TC3	0.41	6%		0%		0%		0%		0%		0%	0.41
TC4	0.92	13%		0%		0%		0%		0%	5.77	81%	6.69
TC5	0.04	1%		0%		0%		0%		0%		0%	0.04
Totals	1.37	19%	0.00	0%	0.00	0%	0.00	0%	0.00	0%	5.77	81%	7.14

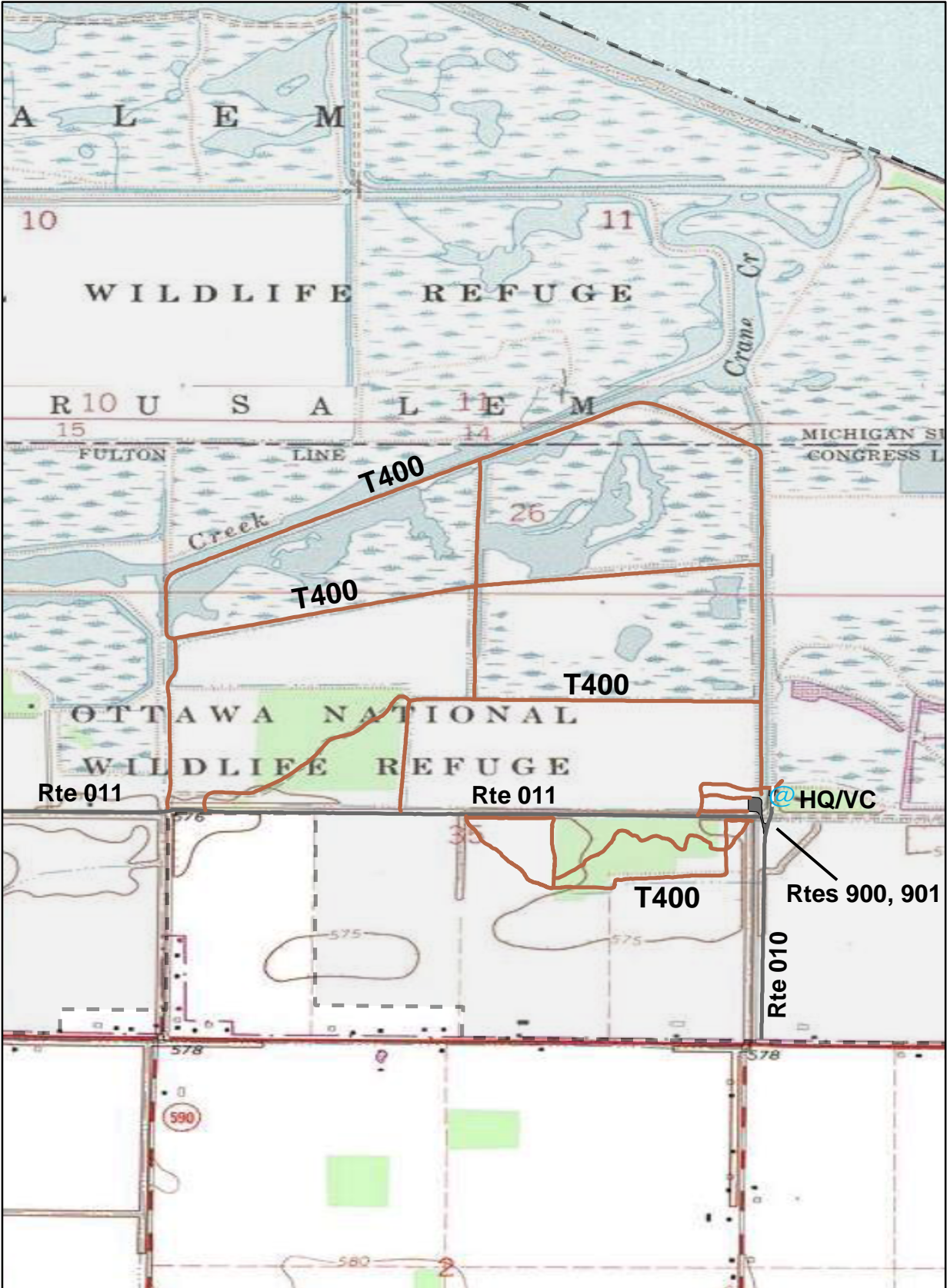
* Admin Roads are included in the inventory but are not rated for condition.

Trail Features

Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T400	Gate	1	No	0.00	N/A
T400	Sign	10	No	0.00	1393-5
T400	Sign	1	No	0.03	1423
T400	Lookout/Ob Deck	1	No	0.05	N/A
T400	Bench	1	No	0.07	N/A
T400	Other	1	No	0.17	N/A
T400	Sign	1	No	0.19	1414
T400	Bench	2	No	0.20	N/A
T400	Sign	1	No	0.20	1408
T400	Sign	10	Yes	0.23	1387
T400	Bench	2	No	0.36	N/A
T400	Lookout/Ob Deck	1	No	0.36	N/A
T400	Sign	15	Yes	0.49	1388
T400	Bench	1	No	0.71	N/A
T400	Bench	1	No	0.82	N/A
T400	Sign	1	No	0.82	1413
T400	Culvert -lf	40	No	0.83	N/A
T400	Bench	1	No	0.84	N/A
T400	Sign	1	No	0.84	1418
T400	Bench	1	No	0.96	N/A
T400	Bench	1	No	1.00	N/A
T400	Bench	1	No	1.06	N/A
T400	Bench	1	No	1.11	N/A
T400	Culvert -lf	15	No	1.12	N/A
T400	Other	1	No	1.12	N/A
T400	Culvert -lf	25	No	1.13	N/A
T400	Bench	1	No	1.19	N/A
T400	Bench	1	No	1.22	N/A
T400	Bench	1	No	1.41	N/A
T400	Bench	1	No	1.80	N/A
T400	Bench	1	No	2.08	N/A
T400	Other	1	No	2.17	N/A

sf-square feet
lf-linear feet
cf-cubic feet

OTTAWA NATIONAL WILDLIFE REFUGE TRAIL LOCATION MAP



Station Boundary



HQ/VC

0

0.3

0.6
Miles

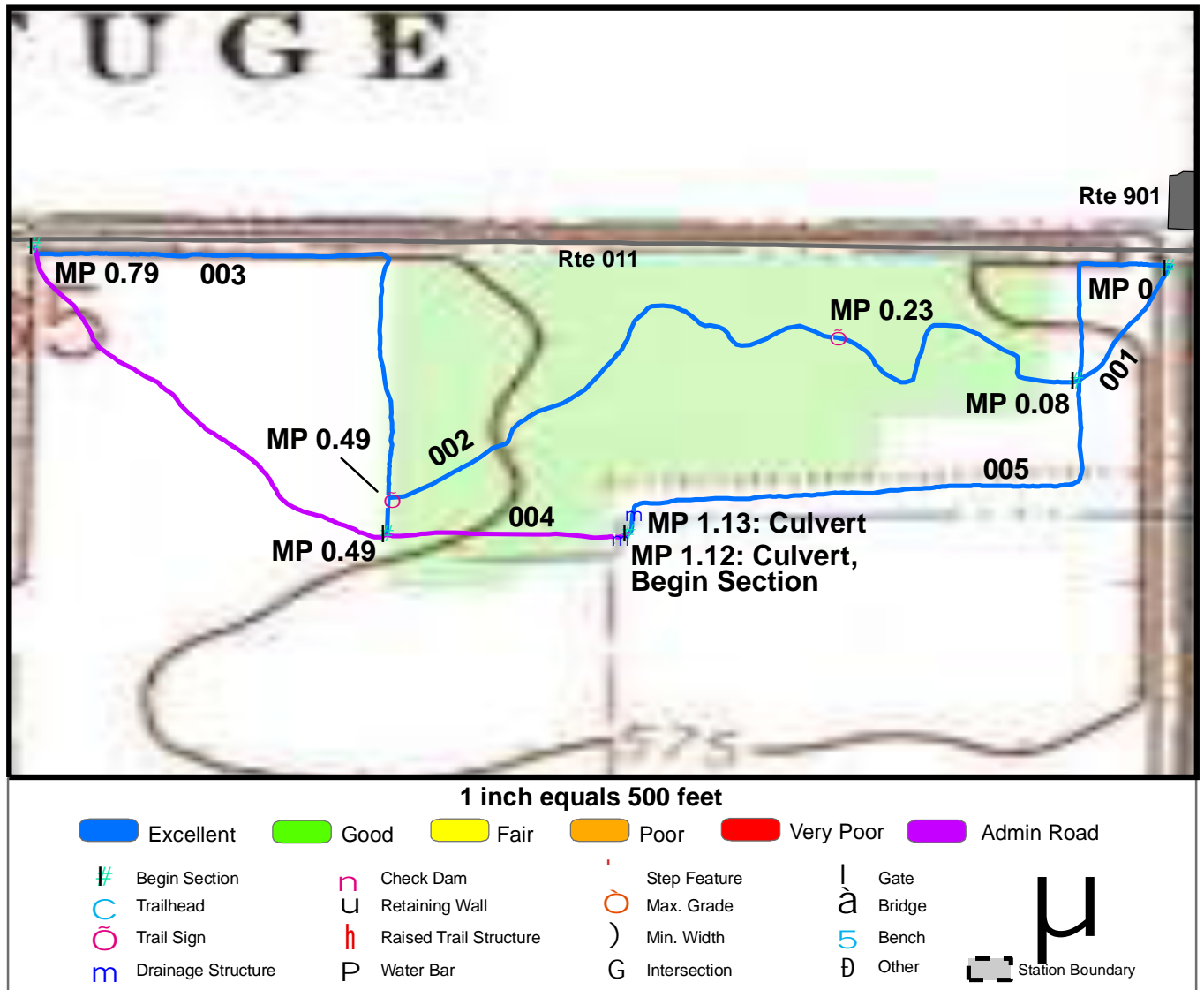
TRAILS ID

Station Name: Ottawa NWR

Org. Code: 31540

Trail #	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T400	Wildlife Trail	Mowed, Admin road, Gravel, Boardwalk	10010811	7.14	From Trailhead to End

TRAIL CONDITION



Trail Name: Wildlife Trail

Refuge Name: Ottawa NWR

Trail Number: T400

Region: 3

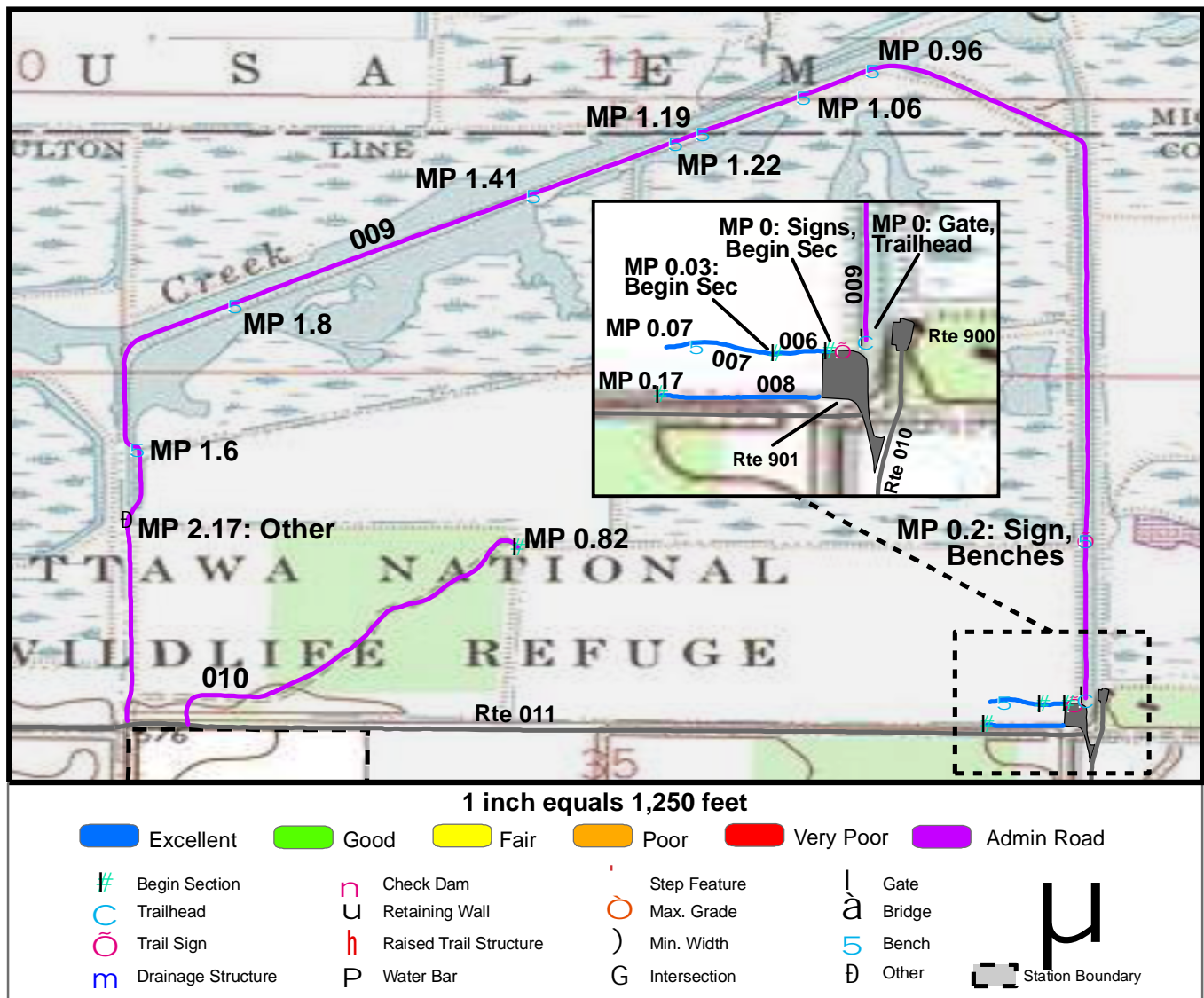
TOTAL LENGTH: 7.14 Miles

Section Number	001	002	003	004	005
Section Length (miles)	0.08	0.41	0.3	0.33	0.37
SAMMS Number	10010811	10010811	10010811	10010811	10010811
Rating Date	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
Trail Section Information					
Trail Class	TC4	TC3	TC4	TC4	TC4
Surface Type	Mowed	Mowed	Mowed	Admin Road	Mowed
Surface Firmness	Firm	Firm	Firm	Hard	Hard
Width (inches)	90	72	92	110	144
Average Grade (%)	1.3	1.3	1.3	1.3	1.3
Average X-slope (%)	5.7	5.7	5.7	5.7	5.7
Trail Condition Information					
Deferred Maintenance	\$0	\$0	\$0	\$0	\$0
CRV	\$3600	\$15600	\$15000	\$0	\$28600
FCI	0	0	0	0	0
Condition	Excellent	Excellent	Excellent	Not Rated	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$108700	0	Excellent

TRAIL CONDITION



Trail Name: Wildlife Trail

Refuge Name: Ottawa NWR

Trail Number: T400

Region: 3

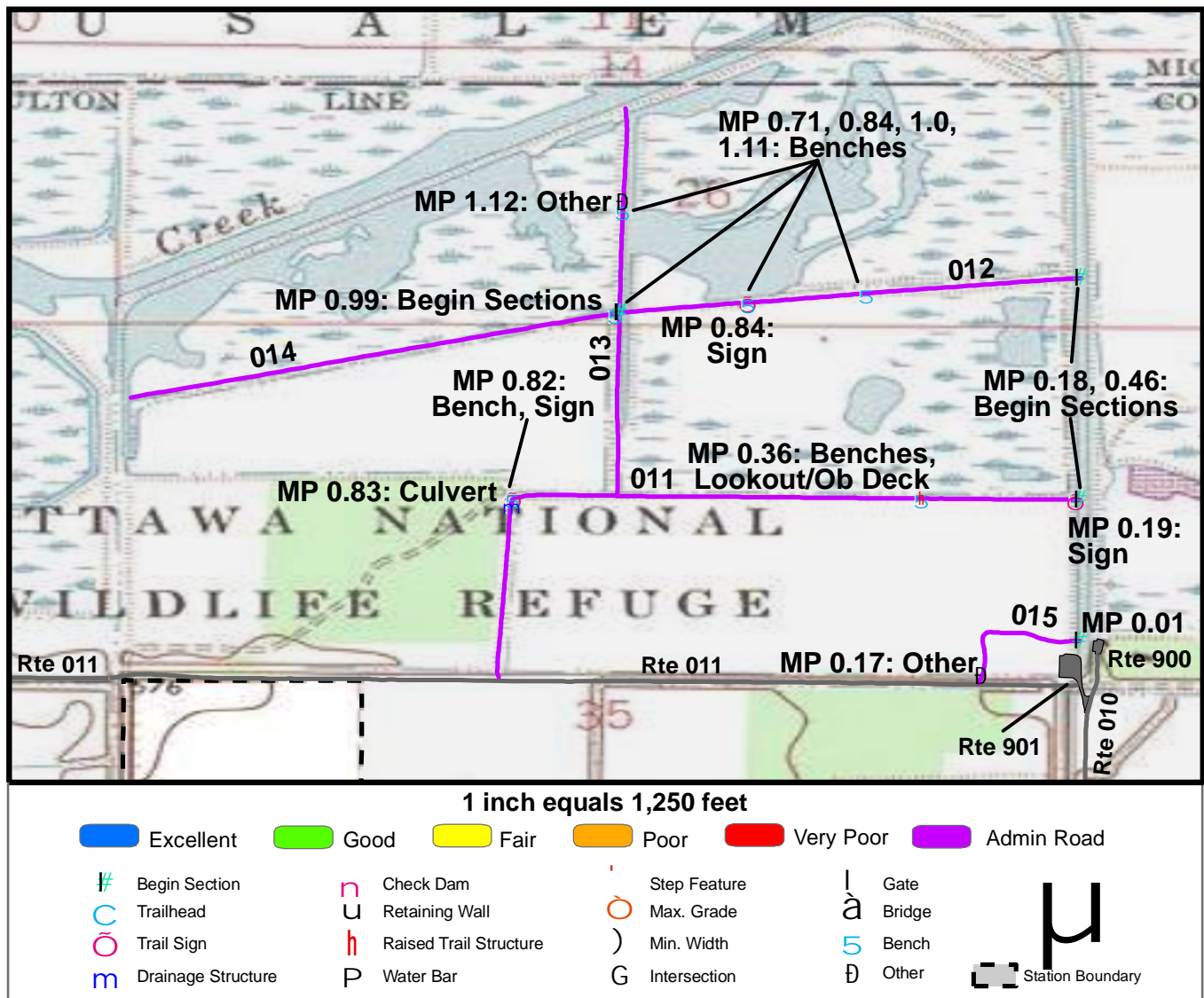
TOTAL LENGTH: 7.14 Miles

	006	007	008	009	010
Section Number	006	007	008	009	010
Section Length (miles)	0.03	0.06	0.08	2.42	0.47
SAMMS Number	10010811	10010811	10010811	10010811	10010811
Rating Date	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
Trail Section Information					
Trail Class	TC4	TC4	TC4	TC4	TC4
Surface Type	Gravel	Mowed	Mowed	Admin Road	Admin Road
Surface Firmness	Hard	Hard	Firm	Firm	Firm
Width (inches)	120	90	108	120	120
Average Grade (%)	1.3	1.3	1.3	1.3	1.3
Average X-slope (%)	5.7	5.7	5.7	5.7	5.7
Trail Condition Information					
Deferred Maintenance	\$0	\$0	\$0	\$0	\$0
CRV	\$7600	\$2700	\$4600	\$0	\$0
FCI	0	0	0	0	0
Condition	Excellent	Excellent	Excellent	Not Rated	Not Rated

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$108700	0	Excellent

TRAIL CONDITION



Trail Name: Wildlife Trail

Refuge Name: Ottawa NWR

Trail Number: T400

Region: 3

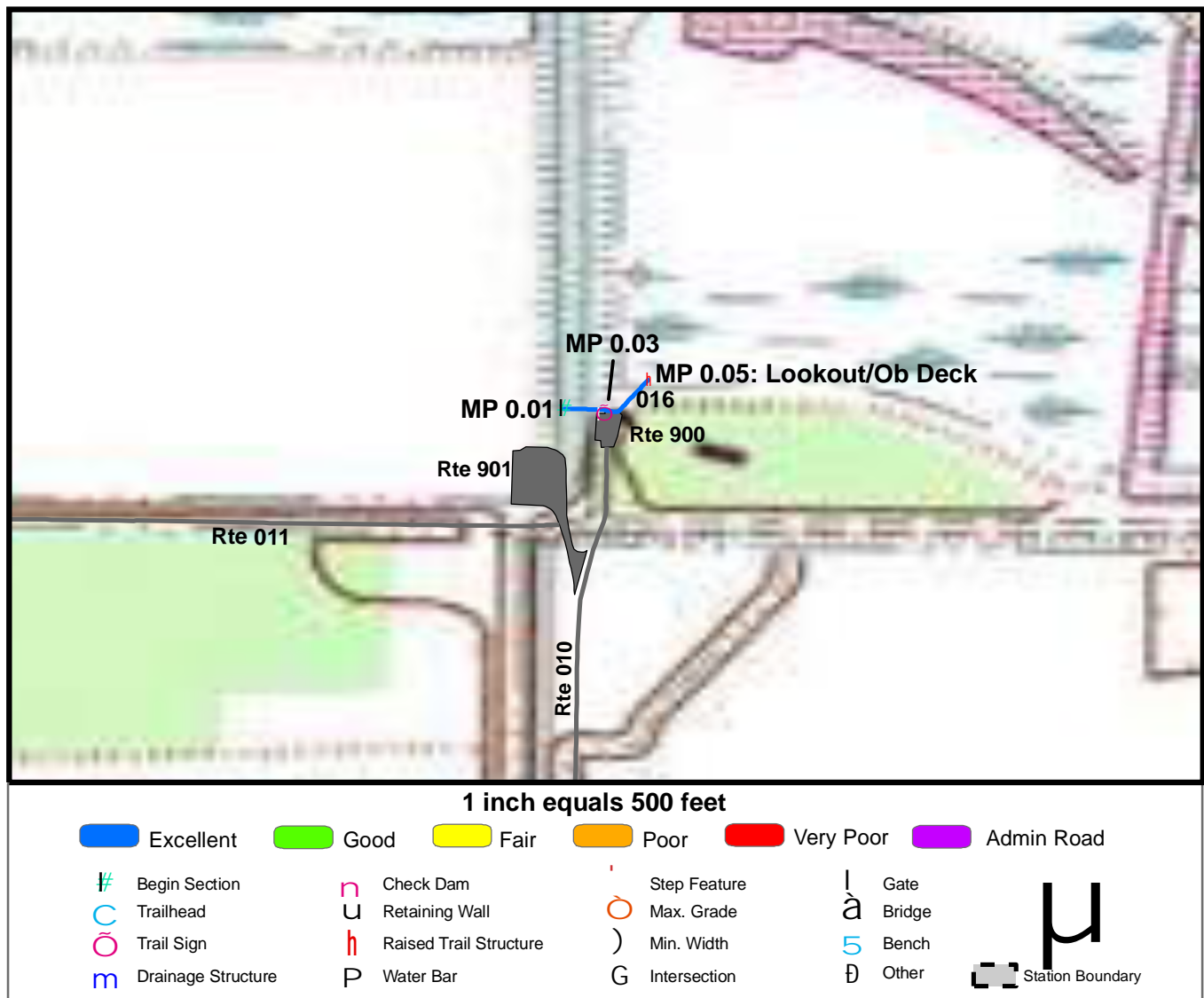
TOTAL LENGTH: 7.14 Miles

Section Number	011	012	013	014	015
Section Length (miles)	0.84	0.77	0.25	0.52	0.17
SAMMS Number	10010811	10010811	10010811	10010811	10010811
Rating Date	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006
Trail Section Information					
Trail Class	TC4	TC4	TC4	TC4	TC4
Surface Type	Admin Road	Admin Road	Admin Road	Admin Road	Admin Road
Surface Firmness	Firm	Firm	Firm	Firm	Firm
Width (inches)	120	120	120	120	120
Average Grade (%)	1.3	1.3	1.3	1.3	1.3
Average X-slope (%)	5.7	5.7	5.7	5.7	5.7
Trail Condition Information					
Deferred Maintenance	\$0	\$0	\$0	\$0	\$0
CRV	\$0	\$0	\$0	\$0	\$0
FCI	0	0	0	0	0
Condition	Not Rated	Not Rated	Not Rated	Not Rated	Not Rated

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$108700	0	Excellent

TRAIL CONDITION



Trail Name: Wildlife Trail

Refuge Name: Ottawa NWR

Trail Number: T400

Region: 3

TOTAL LENGTH: 7.14 Miles

Section Number	016				
Section Length (miles)	0.04				
SAMMS Number	N/A				
Rating Date	8/15/2006				
Trail Section Information					
Trail Class	TC5				
Surface Type	Boardwalk				
Surface Firmness	Hard				
Width (inches)	60				
Average Grade (%)	1.3				
Average X-slope (%)	5.7				
Trail Condition Information					
Deferred Maintenance	\$0				
CRV	\$31000				
FCI	0				
Condition	Excellent				

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$108700	0	Excellent

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1406 - MP 0.0 - Trailhead

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1385 - MP 0.0 - Begin Section 001

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1392 - MP 0.0 - Begin Section 006

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1393-5 - MP 0.0 - Signs

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1424 - MP 0.01 - Begin Section 016

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1396 - MP 0.03 - Begin Section 007

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1423 - MP 0.03 - Sign

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1386 - MP 0.08 - Begin Section 002

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1405 - MP 0.17 - Begin Section 008

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1414 - MP 0.19 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**
STATION: Ottawa NWR
DATE: 8/15/2006



Photo # 1408 - MP 0.2 - Sign

TRAIL NUMBER: **T400**
STATION: Ottawa NWR
DATE: 8/15/2006



Photo # 1387 - MP 0.23 - Sign (Grouped feature)

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1415 - MP 0.46 - Begin Section 012

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1388 - MP 0.49 - Sign (Grouped feature)

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1391 - MP 0.49 - Begin Section 003

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1390 - MP 0.79 - Begin Section 004

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1413 - MP 0.82 - Sign

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1418 - MP 0.84 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1419 - MP 0.99 - Begin Section 013

TRAIL NUMBER: **T400**

STATION: Ottawa NWR

DATE: 8/15/2006



Photo # 1420 - MP 0.99 - Begin Section 014

APPENDIX

Glossary of Terms and Abbreviations

Acc Info	Accessibility information available at trailhead.
Action	Action required to correct deficiency.
Admin Road	Administration Road. Admin Roads signed and advertised as trails are included in the trail inventory but a condition assessment is NOT done.
Alt SAMMS	Asset number of Alternate Facility Type.
Alt Type	Alternate Facility Type. Trail lies on a feature such as a levee, dam, administrative road or bridge, which has a separate SAMMS number.
AvgGrade	The average grade of the trail (%). The average of five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.
AvgSlope	The average cross-slope of the trail (%). The average of five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.
Check Dam	A small dam constructed across a drainage ditch, swale, or channel to lower the speed of concentrated flows.
Condition	Subjective rating of trail based on Facility Condition Index (FCI): FCI \leq .01 = Excellent FCI .011 - .05 = Good FCI .051 - .10 = Fair FCI .11 - .20 = Poor FCI $>$.20 = Very Poor
Crib Wall	Retaining wall.
Current Replacement Value (CRV)	The value of an asset determined by the estimated cost of replacing it.
Def type	Deficiency Type: Trail Structure, Drainage, Erosion, Obstacle, Trail Location, Other.

Deferred Maintenance (DM)	Maintenance that was not performed when scheduled.
Elem ID	Unique identifier for each trail section: Org Code-Trail Number-Section Number.
Facility Condition Index (FCI)	DM/CRV
Grouped Features	Grouped features include non-unique signs (mileposts, interpretive signs, species identification, etc.), water bars, check dams, steps, drain and drainage dips. For any given grouped feature, a GPS point and photo are taken for the first occurrence only and the total number of features in the group are entered into the “quantity” field of the data dictionary. CRV for grouped features are included in whatever trail section the GPS point was taken.
Info Type	Type of accessibility information available at trailhead: brochure, sign or other.
Item	Item on which the “Action” (see above) will be performed.
Manage_Use	Managed use of the trail: HIKE, BIKE, NSPC (non-specified), PACK, POR (portage), SNOWSHOE, XSKI (cross-country ski), OTHER.
Max Grade	Maximum grade (in percent) of trail. Only collected for Trail Classes 4 and 5 and when > 10%.
Min Width	Minimum Width (inches) of trail. Only collected for Trail Classes 4 and 5.
MP (Milepost)	Distance, in miles, of a trail feature or deficiency from the Trailhead.
Puncheon	Log footbridge used in area of poor drainage.
Raised Trail Structure	Boardwalk, Turnpike, Puncheon.
SAMMS No	Asset Number

Station Boundary	Approved Acquisition Boundary files downloaded from FWS website.
T Class	Trail Class: TC1-5 (see Trail Classification System for descriptions).
Tr Desig	Trail Designation: Standard (Std), National Historic Trail (NHT), National Recreation Trail (NRT), National Scenic Trail (NST).
Trail No	Trails are numbered based on Trail Class at the trailhead. TC 1 = T100 series, TC2 = T200 series, etc.
Turnpike	Trail tread elevated with dirt, rock or other aggregate from parallel side ditches and held in place by logs.



Trail Classification

Note: Trail Class descriptions define “typical” attributes, and exceptions may occur for any attribute.

Trail Attributes	Trail Class 1 Minimal/Undeveloped Trail	Trail Class 2 Simple/Minor Development Trail	Trail Class 3 Developed/Improved Trail	Trail Class 4 Highly Developed Trail	Trail Class 5 Fully Developed Trail
General Criteria					
Physical Characteristics to be Applied to All National Forest System Trails					
Tread & Traffic Flow	<ul style="list-style-type: none"> •Tread intermittent and often indistinct •May require route finding •Native materials only 	<ul style="list-style-type: none"> •Tread discernible and continuous, but narrow and rough •Few or no allowances constructed for passing •Native materials 	<ul style="list-style-type: none"> •Tread obvious and continuous •Width accommodates unhindered one-lane travel (occasional allowances constructed for passing) •Typically native materials 	<ul style="list-style-type: none"> •Tread wide and relatively smooth with few irregularities •Width may consistently accommodate two-lane travel •Native or imported materials •May be hardened 	<ul style="list-style-type: none"> •Width generally accommodates two-lane and two-directional travel, or provides frequent passing turnouts •Commonly hardened with asphalt or other imported material
Obstacles	<ul style="list-style-type: none"> •Obstacles common •Narrow passages; brush, steep grades, rocks and logs present 	<ul style="list-style-type: none"> •Obstacles occasionally present •Blockages cleared to define route and protect resources •Vegetation may encroach into trailway 	<ul style="list-style-type: none"> •Obstacles infrequent •Vegetation cleared outside of trailway 	<ul style="list-style-type: none"> •Few or no obstacles exist •Grades typically <12% •Vegetation cleared outside of trailway 	<ul style="list-style-type: none"> •No obstacles •Grades typically <8%
Constructed Features & Trail Elements	<ul style="list-style-type: none"> •Minimal to non-existent •Drainage is functional •No constructed bridges or foot crossings 	<ul style="list-style-type: none"> •Structures are of limited size, scale, and number •Drainage functional •Structures adequate to protect trail infrastructure and resources •Primitive foot crossings and fords 	<ul style="list-style-type: none"> •Trail structures (walls, steps, drainage, raised trail) may be common and substantial •Trail bridges as needed for resource protection and appropriate access •Generally native materials used in Wilderness 	<ul style="list-style-type: none"> •Structures frequent and substantial •Substantial trail bridges are appropriate at water crossings •Trailside amenities may be present 	<ul style="list-style-type: none"> •Structures frequent or continuous; may include curbs, handrails, trailside amenities, and boardwalks •Drainage structures frequent; may include culverts and road-like designs
Signs	<ul style="list-style-type: none"> •Minimum required •Generally limited to regulation and resource protection •No destination signs present 	<ul style="list-style-type: none"> •Minimum required for basic direction •Generally limited to regulation and resource protection •Typically very few or no destination signs present 	<ul style="list-style-type: none"> •Regulation, resource protection, user reassurance •Directional signs at junctions, or when confusion is likely •Destination signs typically present •Informational and interpretive signs may be present outside of Wilderness 	<ul style="list-style-type: none"> •Wide variety of signs likely present •Informational signs likely (outside of Wilderness) •Interpretive signs possible (outside of Wilderness) •Trail Universal Access information likely displayed at trailhead 	<ul style="list-style-type: none"> •Wide variety of signage is present •Information and interpretive signs likely •Trail Universal Access information is typically displayed at trailhead •
Typical Recreation Environments & Experience²	<ul style="list-style-type: none"> •Natural, unmodified •ROS: Often Primitive setting, but may occur in other ROS settings •WROS: Primitive 	<ul style="list-style-type: none"> •Natural, essentially unmodified •ROS: Typically Semi-Primitive setting •WROS: Primitive to Semi-Primitive 	<ul style="list-style-type: none"> •Natural, primarily unmodified •ROS: Typically Semi-Primitive to Roaded Natural setting •WROS: Semi-Primitive to Transition 	<ul style="list-style-type: none"> •May be modified •ROS: Typically Roaded Natural to Rural setting •WROS: Transition (rarely present in Wilderness) 	<ul style="list-style-type: none"> •Can be highly modified •ROS: Typically Rural to Urban setting •Commonly associated with Visitor Centers or high-use recreation sites •Not present in Wilderness