The Trail Inventory of McNary NWR Richland, WA





Prepared By: Federal Highway Administration Central Federal Lands Highway Division October, 2012



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McNary NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface	Excel	lent	Others		Total
Туре	Miles	%	Miles	%	Miles
Native	5.11	98%	0.12	2%	5.23
Concrete	0.14	100%	0.00	0%	0.14
Wood Chip	0.97	100%	0.00	0%	0.97
Mowed	0.13	100%	0.00	0%	0.13
Admin Road	0.00	0%	1.10	100%	1.10
Total	6.35	84%	1.22	16%	7.57

Trail Miles and Percentages by Trail Classification and Condition

Trail	Excel	lent	Othe	rs	Total
Classification	Miles	%	Miles	%	Miles
TC2	0.39	100%	0.00	0%	0.39
тс3	4.72	98%	0.12	2%	4.84
TC4	1.10	50%	1.10	50%	2.20
TC5	0.14	100%	0.00	0%	0.14
Total	6.35	84%	1.22	16%	7.57

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

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Trail Features

Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T301	Trailhead	1	No	0.00	MCNA_C3_05 18
T302	Trailhead	1	No	0.00	MCNA_C3_04 91
T302	Max Grade- %	30	No	0.00	
T302	Begin Section	1	No	0.24	MCNA_C3_04 93
T302	Sign	26	Yes	0.40	MCNA_C3_04 92
T302	Begin Section	1	No	0.49	MCNA_C3_05 00
T302	Sign	3	No	0.54	MCNA_C3_05 01
T302	Begin Section	1	No	0.54	MCNA_C3_05 02
T302	Sign	3	No	1.82	MCNA_C3_05 10
T302	Sign	1	No	1.85	MCNA_C3_05 17
T302	Begin Section	1	No	1.93	MCNA_C3_05 16
T302	Culvert -If	100	No	3.31	
T303	Gate	1	No	0.00	
T303	Trailhead	1	No	0.00	MCNA_C3_04 72
T303	Max Grade- %	9	No	0.03	
T303	Begin Section	1	No	0.12	MCNA_C3_04 73
T400	Trailhead	1	No	0.00	MCNA_C3_041
T400	Sign	2	No	0.00	MCNA_C3_04 12
T400	Sign	5	Yes	0.01	MCNA_C3_04 17
T400	Sign	13	Yes	0.01	MCNA_C3_04 14
T400	Sign	40	Yes	0.01	MCNA_C3_04 13
T400	Sign	1	No	0.04	MCNA_C3_04 22
T400	Begin Section	1	No	0.11	MCNA_C3_04 50
T400	Sign	1	No	0.12	MCNA_C3_04 24
T400	Sign	1	No	0.12	MCNA_C3_04 23

T400	Begin Section	1	No	0.13	MCNA_C3_04 25
T400	Bench	1	No	0.16	
T400	Bench	1	No	0.19	
T400	Lookout/Ob Deck	1	No	0.25	
T400	Begin Section	1	No	0.58	MCNA_C3_04 28
T400	Bench	1	No	0.59	
T400	Sign	1	No	0.61	MCNA_C3_04 43
T400	Bench	1	No	0.67	
T400	Sign	1	No	0.70	MCNA_C3_04 29
T400	Bridge -sf	33	No	0.71	MCNA_C3_04 30
T400	Bench	2	No	0.75	
T400	Bench	1	No	0.77	
T400	Bench	1	No	0.84	
T400	Sign	5	Yes	0.86	MCNA_C3_04 31
T400	Sign	1	No	0.89	MCNA_C3_04 36
T400	Bench	1	No	0.94	
T400	Max Grade- %	22	No	1.18	
T400	Sign	1	No	1.18	MCNA_C3_04 32
T400	Gate	1	No	1.18	
T401	Trailhead	1	No	0.00	MCNA_C3_04 58
T401	Max Grade- %	4	No	0.02	
T401	Sign	1	No	0.75	MCNA_C3_04 54
T401	Sign	1	No	0.90	MCNA_C3_04 53

sf - square feet

If - linear feet

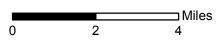
cf - cubic feet

McNary NWR Trail Location Map









McNary NWR Trail Location Map







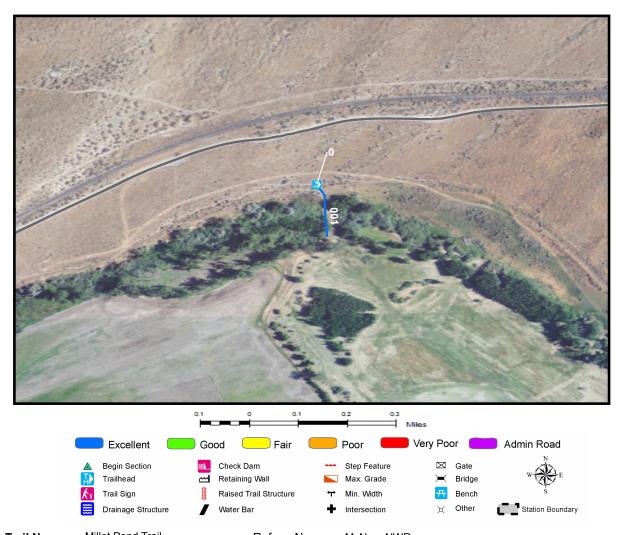
Miles 0 0.25 0.5



Trails ID

Station Name: McNary NWR Org Code: 13520

Trail Number	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T301	Millet Pond Trail	Native	10051063	0.05	T302 (Sec 001) to End of Trail
T302	Wallula Horse Trail	Native	N/A	4.38	From Cliff Unit Road (Rte 117) to Madame Dorian Road (Rte 114)
T303	Juniper Canyon Trail	Native	10003359	0.20	From Juniper Canyon Parking Lot (Rte 939) to end of trail
T400	Burbank Slough Wildlife Trail	Concrete	10051076	0.14	From Lake Road to Lake Road
T400	Burbank Slough Wildlife Trail	Mowed	10051076	0.13	From Lake Road to Lake Road
T400	Burbank Slough Wildlife Trail	Native	10051076	0.60	From Lake Road to Lake Road
T400	Burbank Slough Wildlife Trail	Wood Chip	10051076	0.97	From Lake Road to Lake Road
T401	Peninsula Hiking Trail	Admin Road	10003361	1.10	From Peninsula Unit Entrance Road (Rte 010) to end of loop



Trail Name:Millet Pond TrailRefuge Name:McNary NWRTrail Number:T301Region: 1Total Length:0.50 Miles

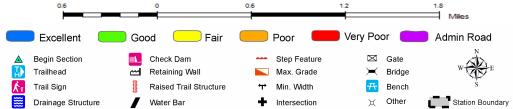
Section Number	001
Section Length (miles)	0.05
SAMMS Number	10051063
Rating Date	05/21/2007
Trail Section Information	
Trail Class	TC3
Surface Type	Native
Surface Firmness	Very Soft
Width (inches)	18
Average Grade (%)	3.5
Average X-slope (%)	3.80
Trail Condition Information	
Deferred Maintenance	
CRV	\$1,850
FCI	0.00
Condition	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$1,850	0.00	Excellent

TRAIL CONDITION





Trail Name: Wallula Horse Trail Refuge Name: McNary NWR

Trail Number: T302 Region: 1 Total Length: **4.38 Miles**

Section Number	001	002	003	004	005
Section Length (miles)	3.99	0.16	0.04	0.08	0.11
SAMMS Number	N/A	N/A	N/A	N/A	N/A
Rating Date	05/21/2007	08/21/2012	08/21/2012	08/21/2012	08/21/2012
Trail Section Information					
Trail Class	TC3	TC2	TC2	TC2	TC2
Surface Type	Native	Native	Native	Native	Native
Surface Firmness	Very Soft				
Width (inches)	18	18	18	18	18
Average Grade (%)	7.0	7.0	7.0	7.0	7.0
Average X-slope (%)	6.30	6.30	6.30	6.30	6.30
Trail Condition Information					
Deferred Maintenance					
CRV	\$147,665	\$5,920	\$1,481	\$2,963	\$4,070
FCI	0.00	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$162,099	0.00	Excellent



Trail Name: Juniper Canyon Trail Refuge Name: McNary NWR Trail Number: T303 Region: 1

Section Number 001 002 Section Length (miles) 0.12 0.08 10003359 10003359 SAMMS Number Rating Date 05/21/2007 05/21/2007

Rating Date	03/21/2007	03/21/2007
Trail Section Information		
Trail Class	TC3	TC3
Surface Type	Native	Native
Surface Firmness	Firm	Firm
Width (inches)	96	36
Average Grade (%)	4.8	4.8
Average X-slope (%)	3.50	3.50
Trail Condition Information		
Deferred Maintenance		
CRV		\$5,920
FCI		0.00
Condition		Excellent

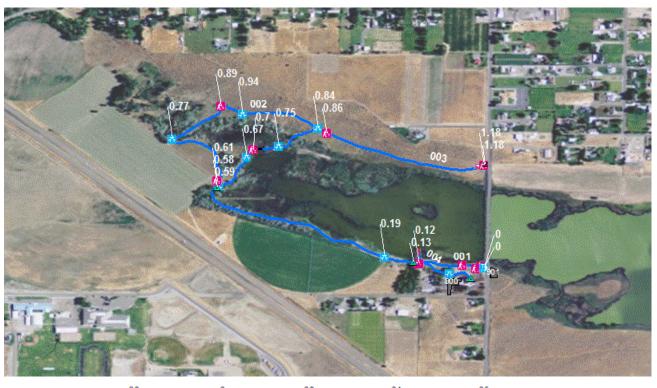
Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$5,920	0.00	Excellent

Condition

Total Length: 0.20 Miles

TRAIL CONDITION



	0.2		0	0.2	C	0.4	0.6	Miles
	Excellent	Go	od Fair		Poor =	Very Po	or 🧰	Admin Road
<u>A</u>	Begin Section		Check Dam		Step Feature	\boxtimes	Gate	(S)
I	Trailhead	~	Retaining Wall		Max. Grade	\succ	Bridge	W TO E
Ŕτ	Trail Sign		Raised Trail Structure	₩.	Min. Width	7*	Bench	Š
	Drainage Structure		Water Bar	+	Intersection	×	Other	Station Boundary

Trail Name: Burbank Slough Wildlife Trail Refuge Name: McNary NWR

Trail Number: T400 Region: 1 Total Length: **1.84 Miles**

Section Number	001	002	003	004
Section Length (miles)	0.13	0.97	0.60	0.14
SAMMS Number	10051076	10051076	10051076	10051076
Rating Date	05/19/2007	05/19/2007	05/20/2007	08/21/2012
Trail Section Information				
Trail Class	TC4	TC4	TC3	TC5
Surface Type	Mowed	Wood Chip	Native	Concrete
Surface Firmness	Firm	Firm	Hard	Paved
Width (inches)	72	96	96	60
Average Grade (%)	2.0	2.0	2.0	2.0
Average X-slope (%)	2.90	2.90	2.90	2.90
Trail Condition Information				
Deferred Maintenance				
CRV	\$4,811	\$96,696	\$118,427	\$27,040
FCI	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition	
	\$246,974	0.00	Excellent	



		_	Ť	-		-		≕ ï :	Miles
E	xcellent	God	od Fair		Poor		Very Poo	or 🛑	Admin Road
	gin Section ilhead		Check Dam Retaining Wall		Step Fea			Gate Bridge	W E
Tra	il Sign	1	Raised Trail Structure	₩	Min. Wid	th	/\	Bench	S
Dra Dra	inage Structure	/	Water Bar	+	Intersecti	ion	×	Other	Station Boundary

Trail Name: Peninsula Hiking Trail Refuge Name: McNary NWR **Trail Number:** T401 Region: 1

Section Number 001 Section Length (miles) 1.10 10003361 SAMMS Number 05/21/2007 Rating Date Trail Section Information TC4 Trail Class Admin Road Surface Type Firm Surface Firmness Width (inches) 120 Average Grade (%) 0.9 Average X-slope (%) 1.80 Trail Condition Information **Deferred Maintenance** CRV FCI Condition

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition

Total Length: 1.10 Miles

TRAIL DEFICIENCY

No Deficiencies

TRAIL NUMBER: T301 STATION: McNary NWR DATE: 05/21/2007



Photo # MCNA_C3_0518 - MP 0.00 - Trailhead



Photo # MCNA_C3_0491 - MP 0.00 - Trailhead

TRAIL NUMBER: T302 STATION: McNary NWR DATE: 08/22/2012



Photo # MCNA_C3_0501 - MP 0.54 - Sign



Photo # MCNA_C3_0510 - MP 1.82 - Sign

TRAIL NUMBER: T302 STATION: McNary NWR DATE: 08/22/2012



Photo # MCNA_C3_0517 - MP 1.85 - Sign



Photo # MCNA_C3_0493 - MP 0.24 - Begin Section

TRAIL NUMBER: T302 STATION: McNary NWR DATE: 08/22/2012



Photo # MCNA_C3_0492 - MP 0.40 - Sign



Photo # MCNA_C3_0500 - MP 0.49 - Begin Section

TRAIL NUMBER: T302 STATION: McNary NWR DATE: 08/22/2012



Photo # MCNA_C3_0502 - MP 0.54 - Begin Section



Photo # MCNA_C3_0516 - MP 1.93 - Begin Section

TRAIL NUMBER: T303 STATION: McNary NWR DATE: 05/21/2007



Photo # MCNA_C3_0472 - MP 0.00 - Trailhead



Photo # MCNA_C3_0473 - MP 0.12 - Begin Section

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 05/19/2007



Photo # MCNA_C3_0412 - MP 0.00 - Sign

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 05/19/2007



Photo # MCNA C3 0411 - MP 0.00 - Trailhead

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TRAIL NUMBER: T400 STATION: McNary NWR DATE: 08/21/2012



Photo # MCNA_C3_0417 - MP 0.01 - Sign



Photo # MCNA_C3_0414 - MP 0.01 - Sign

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 05/19/2007



Photo # MCNA_C3_0413 - MP 0.01 - Sign



Photo # MCNA_C3_0422 - MP 0.04 - Sign

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 08/21/2012



Photo # MCNA_C3_0424 - MP 0.12 - Sign

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 05/19/2007



Photo # MCNA_C3_0423 - MP 0.12 - Sign

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 05/19/2007



Photo # MCNA_C3_0425 - MP 0.13 - Begin Section



Photo # MCNA_C3_0443 - MP 0.61 - Sign

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 08/21/2012



Photo # MCNA_C3_0436 - MP 0.89 - Sign



Photo # MCNA_C3_0428 - MP 0.58 - Begin Section

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 08/21/2012



Photo # MCNA_C3_0429 - MP 0.70 - Sign



Photo # MCNA_C3_0430 - MP 0.71 - Bridge -sf

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 08/21/2012



Photo # MCNA_C3_0431 - MP 0.86 - Sign



Photo # MCNA_C3_0432 - MP 1.18 - Sign

TRAIL NUMBER: T400 STATION: McNary NWR DATE: 08/21/2012



Photo # MCNA_C3_0450 - MP 0.11 - Begin Section



Photo # MCNA_C3_0458 - MP 0.00 - Trailhead

TRAIL NUMBER: T401 STATION: McNary NWR DATE: 08/21/2012



Photo # MCNA_C3_0454 - MP 0.75 - Sign



Photo # MCNA_C3_0453 - MP 0.90 - Sign

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 SAMMS 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 </= - .01 = Excellent FCI .02 - .05 = Good FCI .06 - .10 = Fair FCI .11 - .20 = Poor FCI > - .20 = Failed

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.

i

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.

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.

MP Distance of a trail feature or deficiency from the

Trailhead.

Puncheon Log footbridge used in area of poor drainage.

Raised Trail Structure Boardwalk, Turnpike, Puncheon.

T Class Trail Class: I-V (see Appendix? for trail class

descriptions).

Tr Desig Trail Designation: Standard (Std), National Historic Trail

(NHT), National Recreation Trail (NRT), National

Scenic Trail (NST).

Turnpike Trail tread elevated with dirt, rock or other aggregate

from parallel side ditches and held in place by logs.