# The Trail Inventory of Boyer Chute NWR

Ft. Calhoun, NE





Prepared By: Federal Highway Administration Central Federal Lands Highway Division June, 2013



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#### NOTE TO USERS OR READERS

In this report, the reader may find a mix of dates associated with the condition assessment and photographs. Chapter 4 shows an updated condition assessment for each trail documented in this report. However there may be dates on the condition assessment pages that range from 2006 and 2007 to 2012. This occurred because the GPS dates of the trails originally rated in Cycle 1 were not updated when the cycle 3 assessment was done to in

2012. That GPS date is the basis for the Rating date in the report. Any new trail or section of trail that was collected and rated in Cycle 3 will have a rating date of 2012. While the rating dates may show a pre 2012 date, each trail was walked and its condition was assessed in 2012 during the Cycle 3 field season.

In Chapter 6 the reader may notice photographs with dates ranging from 2006 and 2007 to 2012. This occurs because the existing photographs from Cycle 1 were used if no significant or noticeable changes were seen in that location at the time of the Cycle 3 site visit.

The reader may also notice some of the feature photographs are used more than once. The practice of the same photograph being used for more than one feature was allowed during this cycle's data collection.

### **Boyer Chute NWR**

#### **Trail and Trail Feature Summaries**

Trail Miles and Percentages by Surface Type and Condition

Trail Surface	Excellent		Fai	ir	Very Poor		Total
Type	Miles	%	Miles	%	Miles	%	Miles
Gravel	0.04	4%	0.63	61%	0.36	35%	1.03
Concrete	0.00	0%	0.54	100%	0.00	0%	0.54
Total	0.04	3%	1.17	75%	0.36	23%	1.57

#### Trail Miles and Percentages by Trail Classification and Condition

Trail	Excelle	ent	Fair		Very Poor		Total
Classification	Miles	%	Miles	%	Miles	%	Miles
TC4	0.04	4%	0.63	61%	0.36	35%	1.03
TC5	0.00	0%	0.54	100%	0.00	0%	0.54
Total	0.04	3%	1.17	75%	0.36	23%	1.57

<sup>\*</sup>Admin Roads are included in the inventory but are not rated for condition.

#### **Trail Features**

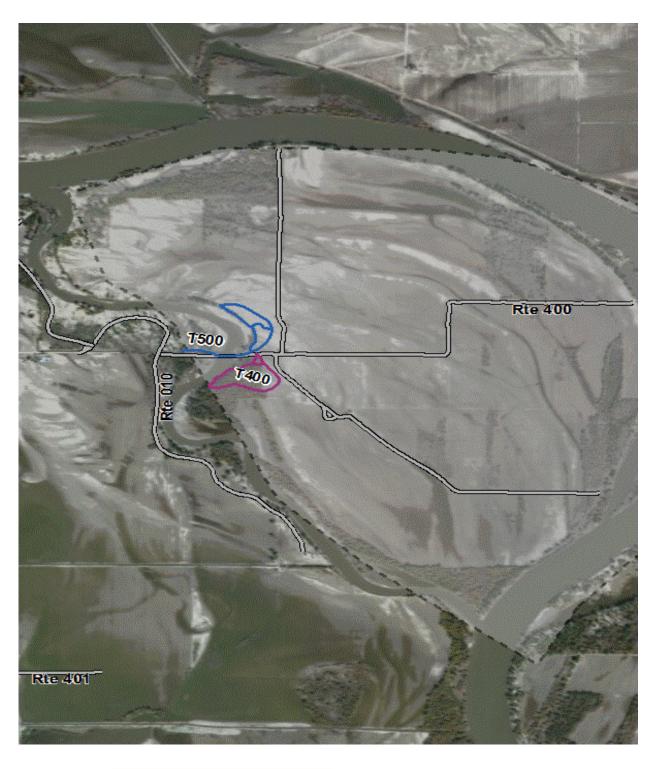
Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T300	Sign	2	No	0.00	BOYE_C3_041 2
T400	Trailhead	1	No	0.00	BOYE_C3_041 4
T400	Sign	1	No	0.03	BOYE_C3_041 5
T400	Lookout/Ob Deck	1	No	0.05	
T400	Bench	1	No	0.16	
T400	Bench	1	No	0.27	
T400	Bench	1	No	0.31	
T400	Bench	1	No	0.41	
T400	Bench	1	No	0.45	
T400	Bench	1	No	0.50	
T400	Begin Section	1	No	0.58	BOYE_C3_041 7
T500	Trailhead	1	No	0.00	BOYE_C3_042 0
T500	Sign	2	No	0.00	BOYE_C3_042
T500	Sign	1	No	0.01	BOYE_C3_042 2
T500	Bridge -sf	0	No	0.16	BOYE_C3_040
T500	Sign	1	No	0.20	BOYE_C3_040 2
T500	Other	1	No	0.23	
T500	Bench	1	No	0.29	
T500	Bench	1	No	0.35	
T500	Sign	1	No	0.35	BOYE_C3_040 4
T500	Begin Section	1	No	0.35	BOYE_C3_040 5
T500	Bench	1	No	0.39	
T500	Bench	1	No	0.40	
T500	Bench	1	No	0.44	
T500	Bench	1	No	0.45	
T500	Bench	1	No	0.49	
T500	Bench	1	No	0.50	
T500	Sign	2	No	0.54	BOYE_C3_040 3
T500	Sign	2	Yes	0.57	BOYE_C3_040 7
T500	Bench	1	No	0.67	,

sf - square feet

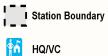
If - linear feet

cf - cubic feet

## **Boyer Chute NWR Trail Location Map**









#### Trails ID

Station Name: Boyer Chute NWR Org Code: 33515

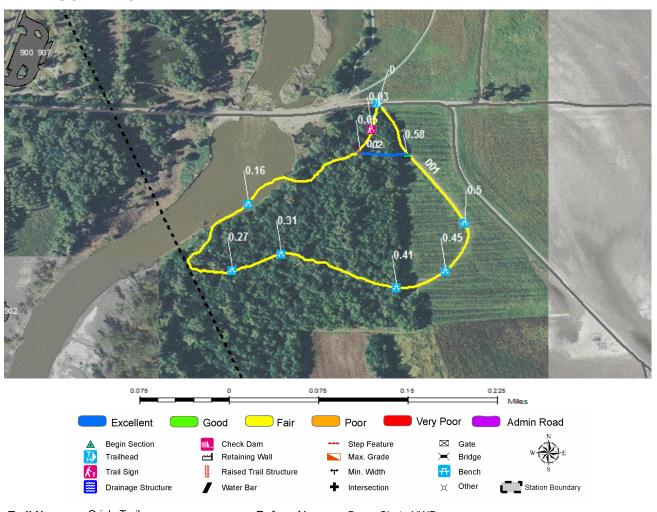
Trail Number	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T400	Oriole Trail	Gravel	10032909	0.67	From Meadowlark Trail (T500) to end of loop
T500	Meadowlark Trail	Concrete	10032910	0.54	From Main Parking Area (Rte 900) to end of loop
T500	Meadowlark Trail	Gravel	10032910	0.36	From Main Parking Area (Rte 900) to end of loop

#### CHANGES TO THE FISH AND WILDLIFE SERVICE TRAIL INVENTORY REPORT

#### **Boyer Chute NWR**

		Trails added to previous inventory	<i>/</i> :
Trail #	Trail Name	Reason for Addition	
		Trails removed from previous invent	ory:
Trail #	Trail Name	Reason for Removal	
402	Headwaters Trail	Removed from inventory	
300	Island Loop Trail	Removed from inventory	
401	Confluence Trail	Removed from inventory	
		Trails modified from previous invent	ory:
Trail #	Trail Name	Type of Modification	Description of Modification
ommen	its:		

#### TRAIL CONDITION



**Trail Name:** Oriole Trail Refuge Name: Boyer Chute NWR **Trail Number:** T400 Region: 3

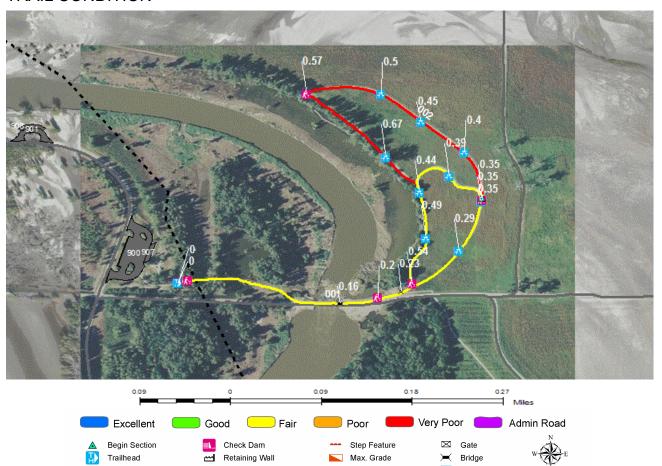
Section Number 001 002 Section Length (miles) 0.63 0.04 10032909 10032909 SAMMS Number 09/13/2006 09/13/2006 Rating Date Trail Section Information TC4 TC4 Trail Class Gravel Gravel Surface Type Surface Firmness Hard Hard Width (inches) 96 120 Average Grade (%) 1.9 1.9 Average X-slope (%) 1.20 1.20 **Trail Condition Information** \$10,061 **Deferred Maintenance** \$122,653 \$8,663 CRV 0.08 0.00 FCI Fair Excellent Condition

#### **Trail Condition TOTALS**

Deferred Maintenance	CRV	FCI	Condition
\$10,061	\$131,317	0.08	Fair

Total Length: 0.69 Miles

#### TRAIL CONDITION



₩ Min. Width

Intersection

Bench

Station Boundary

Total Length: 0.90 Miles

**Trail Name:** Meadowlark Trail Refuge Name: Boyer Chute NWR **Trail Number:** T500 Region: 3

Water Bar

Raised Trail Structure

Section Number	001	002
Section Length (miles)	0.54	0.36
SAMMS Number	10032910	10032910
Rating Date	09/12/2006	09/13/2006
Trail Section Information		
Trail Class	TC5	TC4
Surface Type	Concrete	Gravel
Surface Firmness	Paved	Hard
Width (inches)	96	108
Average Grade (%)	1.7	1.7
Average X-slope (%)	1.40	1.40
Trail Condition Information		
Deferred Maintenance	\$9,025	\$16,435
CRV	\$145,582	\$75,443
FCI	0.06	0.22
Condition	Fair	Very Poor

Trail Sign

Drainage Structure

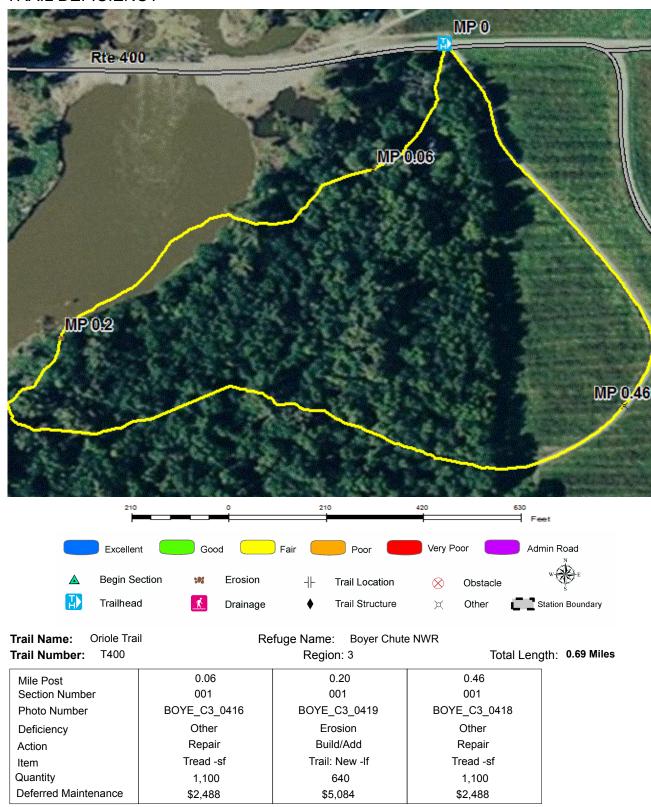
#### **Trail Condition TOTALS**

Deferred Maintenance	CRV	FCI	Condition
\$25,460	\$221,025	0.12	Poor

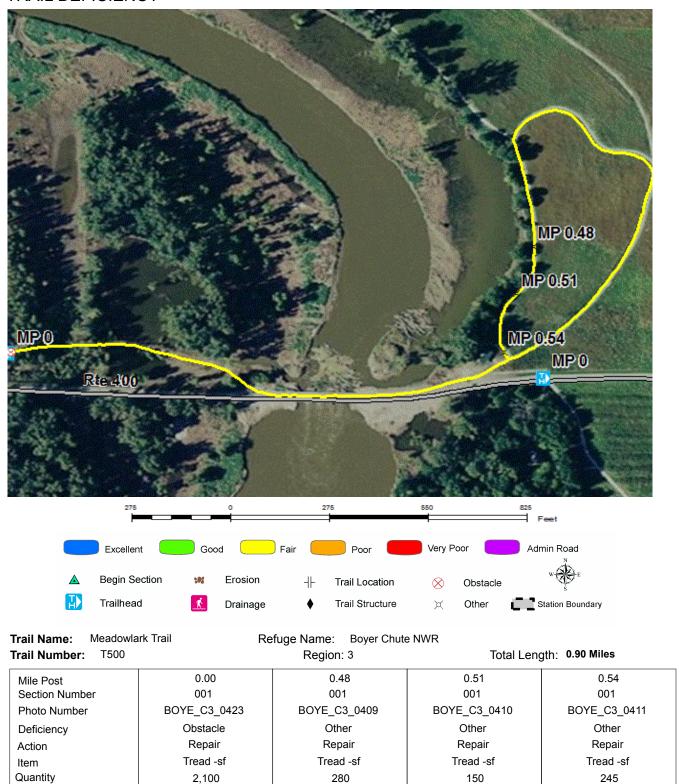
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#### TRAIL DEFICIENCY



#### TRAIL DEFICIENCY



\$935

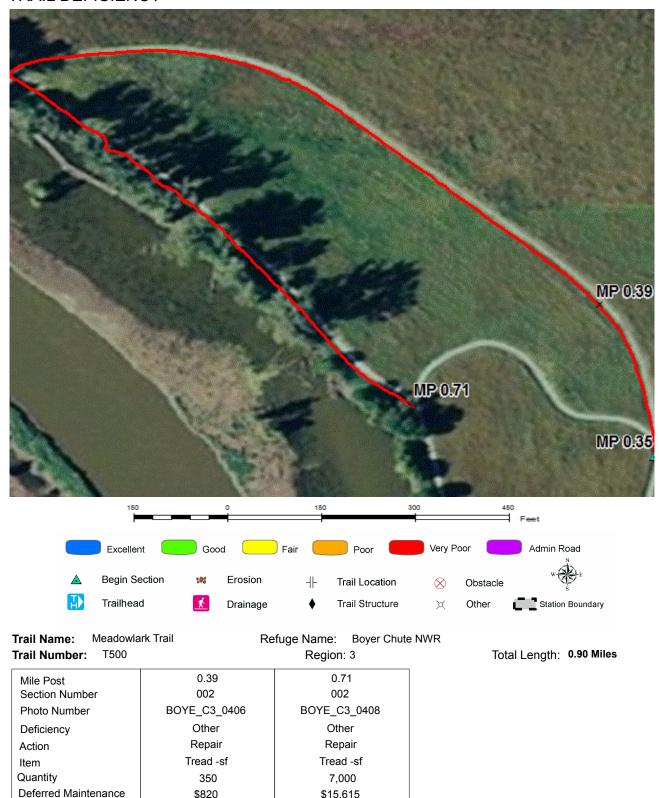
\$520

**Deferred Maintenance** 

\$6,747

\$823

#### TRAIL DEFICIENCY



\$15,615

\$820

TRAIL NUMBER: T300 STATION: Boyer Chute NWR

DATE: 07/26/2012



Photo # BOYE\_C3\_0412 - MP 0.00 - Sign

TRAIL NUMBER: T400 STATION: Boyer Chute NWR



Photo # BOYE\_C3\_0414 - MP 0.00 - Trailhead

TRAIL NUMBER: T400 STATION: Boyer Chute NWR

DATE: 07/26/2012



Photo # BOYE\_C3\_0415 - MP 0.03 - Sign

TRAIL NUMBER: T400 STATION: Boyer Chute NWR



Photo # BOYE\_C3\_0417 - MP 0.58 - Begin Section

TRAIL NUMBER: T500 STATION: Boyer Chute NWR

DATE: 07/26/2012



Photo # BOYE\_C3\_0420 - MP 0.00 - Trailhead

TRAIL NUMBER: T500 STATION: Boyer Chute NWR



Photo # BOYE\_C3\_0421 - MP 0.00 - Sign

TRAIL NUMBER: T500 STATION: Boyer Chute NWR

DATE: 07/26/2012



Photo # BOYE\_C3\_0422 - MP 0.01 - Sign

TRAIL NUMBER: T500 STATION: Boyer Chute NWR



Photo # BOYE\_C3\_0401 - MP 0.16 - Bridge -sf

TRAIL NUMBER: T500 STATION: Boyer Chute NWR

DATE: 07/26/2012



Photo # BOYE\_C3\_0402 - MP 0.20 - Sign

TRAIL NUMBER: T500 STATION: Boyer Chute NWR



Photo # BOYE\_C3\_0404 - MP 0.35 - Sign

TRAIL NUMBER: T500 STATION: Boyer Chute NWR

DATE: 07/26/2012



Photo # BOYE\_C3\_0403 - MP 0.54 - Sign

TRAIL NUMBER: T500 STATION: Boyer Chute NWR

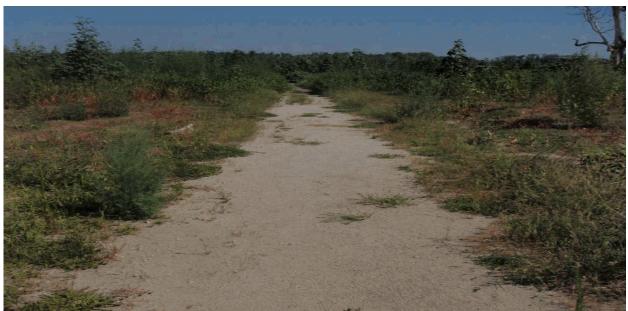


Photo # BOYE\_C3\_0405 - MP 0.35 - Begin Section

TRAIL NUMBER: T500 STATION: Boyer Chute NWR

DATE: 07/26/2012



Photo # BOYE\_C3\_0407 - MP 0.57 - Sign

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#### **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 include non-unique signs (mileposts, **Grouped Features** 

> 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.

Type of accessibility information available at trailhead: Info Type

brochure, sign or other.

Item on which the "Action" (see above) will be **Item** 

performed.

Managed use of the trail: HIKE, BIKE, NSPC (non-Manage Use

specified), PACK, POR (portage), SNOWSHOE, XSKI

(cross-country ski), OTHER.

Distance of a trail feature or deficiency from the MP

Trailhead.

Puncheon Log footbridge used in area of poor drainage.

Raised Trail

Structure

Boardwalk, Turnpike, Puncheon.

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

descriptions).

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

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

Scenic Trail (NST).

Trail tread elevated with dirt, rock or other aggregate Turnpike

from parallel side ditches and held in place by logs.