

The Trail Inventory of Ankeny NWR Jefferson, OR



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



TABLE OF CONTENTS

| <u>SECTION</u> | <u>PAGE</u> |
|--|-------------|
| I. <u>TRAIL AND TRAIL FEATURE SUMMARIES</u> | 1 - 1 |
| II. <u>TRAIL LOCATION MAPS</u> | 2 - 1 |
| III. <u>TRAIL IDENTIFICATION LIST</u> | 3 - 1 |
| IV. <u>TRAIL CHANGES AND CONDITION RATING SHEETS</u> | 4 - 1 |
| V. <u>TRAIL DEFICIENCY RATING SHEETS</u> | 5 - 1 |
| VI. <u>PHOTOGRAPHIC SHEETS</u> | 6 - 1 |
| IX. <u>GLOSSARY</u> | i |

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.

Ankeny NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

| Trail Surface Type | Excellent | | Others | | Total |
|--------------------|-------------|------------|-------------|------------|-------------|
| | Miles | % | Miles | % | Miles |
| Gravel | 0.28 | 100% | 0.00 | 0% | 0.28 |
| Boardwalk | 0.51 | 100% | 0.00 | 0% | 0.51 |
| Mowed | 0.64 | 100% | 0.00 | 0% | 0.64 |
| Admin Road | 0.00 | 0% | 3.50 | 100% | 3.50 |
| Total | 1.43 | 29% | 3.50 | 71% | 4.93 |

Trail Miles and Percentages by Trail Classification and Condition

| Trail Classification | Excellent | | Others | | Total |
|----------------------|-------------|------------|-------------|------------|-------------|
| | Miles | % | Miles | % | Miles |
| TC3 | 0.00 | 0% | 1.00 | 100% | 1.00 |
| TC4 | 1.43 | 36% | 2.50 | 64% | 3.93 |
| Total | 1.43 | 29% | 3.50 | 71% | 4.93 |

*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 | 1 | No | 0.00 | ANKE_C3_058 2 |
| T300 | Trailhead | 1 | No | 0.00 | ANKE_C3_058 3 |
| T300 | Max Grade- % | 13 | No | 0.08 | |
| T300 | Max Grade- % | 29 | No | 0.66 | |
| T301 | Trailhead | 1 | No | 0.00 | ANKE_C3_058 7 |
| T301 | Bridge -sf | 64 | No | 0.11 | ANKE_C3_058 8 |
| T301 | Bridge -sf | 48 | No | 0.23 | ANKE_C3_058 9 |
| T301 | Intersection | 1 | No | 0.84 | ANKE_C3_059 0 |
| T400 | Sign | 1 | No | 0.00 | ANKE_C3_057 9 |
| T400 | Sign | 1 | No | 0.00 | ANKE_C3_057 8 |
| T400 | Trailhead | 1 | No | 0.00 | ANKE_C3_058 0 |
| T400 | Begin Section | 1 | No | 0.22 | ANKE_C3_058 1 |
| T400 | Intersection | 1 | No | 0.22 | ANKE_C3_058 4 |
| T400 | Bench | 1 | No | 0.34 | |
| T400 | Max Grade- % | 8 | No | 0.40 | |
| T400 | Sign | 1 | No | 0.42 | ANKE_C3_059 1 |
| T400 | Lookout/Ob Deck | 1 | No | 0.46 | |
| T400 | Intersection | 1 | No | 0.60 | ANKE_C3_058 5 |
| T400 | Begin Section | 1 | No | 0.60 | ANKE_C3_058 6 |
| T400 | Max Grade- % | 6 | No | 1.04 | |
| T401 | Trailhead | 1 | No | 0.00 | ANKE_C3_059 4 |
| T401 | Sign | 1 | No | 0.00 | ANKE_C3_059 2 |
| T401 | Sign | 1 | No | 0.00 | ANKE_C3_059 3 |
| T401 | Sign | 1 | No | 0.04 | ANKE_C3_059 5 |
| T401 | Sign | 1 | No | 0.11 | ANKE_C3_059 6 |
| T401 | Max Grade- % | 3 | No | 0.11 | |

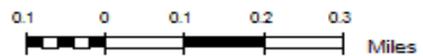
| | | | | | |
|------|---------------------|----|----|------|------------------|
| T401 | Sign | 1 | No | 0.13 | ANKE_C3_059 7 |
| T401 | Lookout/Ob Deck | 1 | No | 0.13 | |
| T402 | Bench | 1 | No | 0.00 | |
| T402 | Trailhead | 1 | No | 0.00 | ANKE_C3_060 1 |
| T402 | Sign | 2 | No | 0.00 | ANKE_C3_059 9 |
| T402 | Sign | 1 | No | 0.00 | ANKE_C3_059 8 |
| T402 | Sign | 1 | No | 0.04 | ANKE_C3_060 3 |
| T402 | Max Grade- % | 12 | No | 0.04 | |
| T402 | Sign | 1 | No | 0.04 | ANKE_C3_060 2 |
| T402 | Lookout/Ob Deck | 1 | No | 0.04 | |
| T402 | Sign | 1 | No | 0.05 | ANKE_C3_060 4 |
| T402 | Bench | 1 | No | 0.05 | |
| T403 | Trailhead | 1 | No | 0.00 | ANKE_C3_060 5 |
| T403 | Gate | 1 | No | 0.00 | |
| T403 | Sign | 2 | No | 0.00 | ANKE_C3_060 6 |
| T403 | Water Control Struc | 1 | No | 0.86 | |

sf - square feet

lf - linear feet

cf - cubic feet

Ankeny NWR Trail Location Map



Trails ID

Station Name: Ankeny NWR

Org Code: 13588

| Trail Number | Trail Name | Surface Type | SAMMS | Trail Mileage | Trail Description (Begin and End point of trail) |
|--------------|-------------------------------|--------------|----------|---------------|---|
| T300 | Dunlin Marsh Trail | Admin Road | 10039518 | 0.66 | From T400 Sec 001 to T400 Sec 001 |
| T301 | Bashaw Creek Loop Trail | Admin Road | 10039518 | 0.34 | From T400 Sec 002 to T400 Sec 003 |
| T400 | Rail Trail Loop Trail | Boardwalk | 10004399 | 0.38 | From Wintel Trailhead Parking (Rte 900) to Visitor Kiosk Access (Rte 100), MP 0.0 |
| T400 | Rail Trail Loop Trail | Gravel | 10004399 | 0.22 | From Wintel Trailhead Parking (Rte 900) to Visitor Kiosk Access (Rte 100), MP 0.0 |
| T400 | Rail Trail Loop Trail | Mowed | 10004399 | 0.64 | From Wintel Trailhead Parking (Rte 900) to Visitor Kiosk Access (Rte 100), MP 0.0 |
| T401 | Pintail/Egret Marsh Trail | Boardwalk | 10039128 | 0.13 | From Pintail Boardwalk Parking (Rte 914) to observation blind |
| T402 | Ankeny Hill Overlook Trail | Gravel | 10039507 | 0.06 | From Restroom Parking (Rte 902) to observation deck |
| T403 | Sidney Irrigation Ditch Trail | Admin Road | 10004399 | 2.50 | From Eagle Marsh Parking Lot (Buena Vista Rd) to End of Loop |

CHANGES TO THE FISH AND WILDLIFE SERVICE TRAIL INVENTORY REPORT

Ankeny NWR

Trails added to previous inventory:

| Trail # | Trail Name | Reason for Addition |
|---------|--------------------------------|---------------------|
| T300 | Dunlin Marsh Trail | new trail |
| T301 | Bashaw Creek Loop Trail | new trail |
| T403 | Sidnery Irrigation Ditch Trail | new trail |

Trails removed from previous inventory:

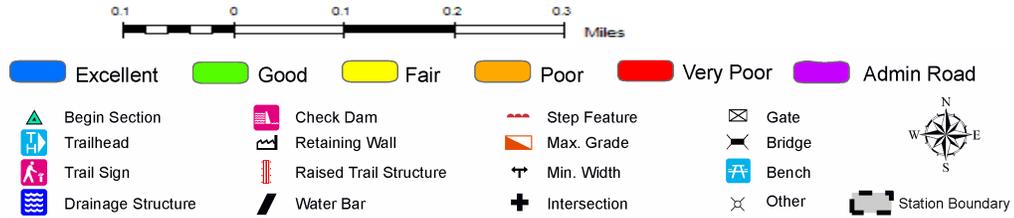
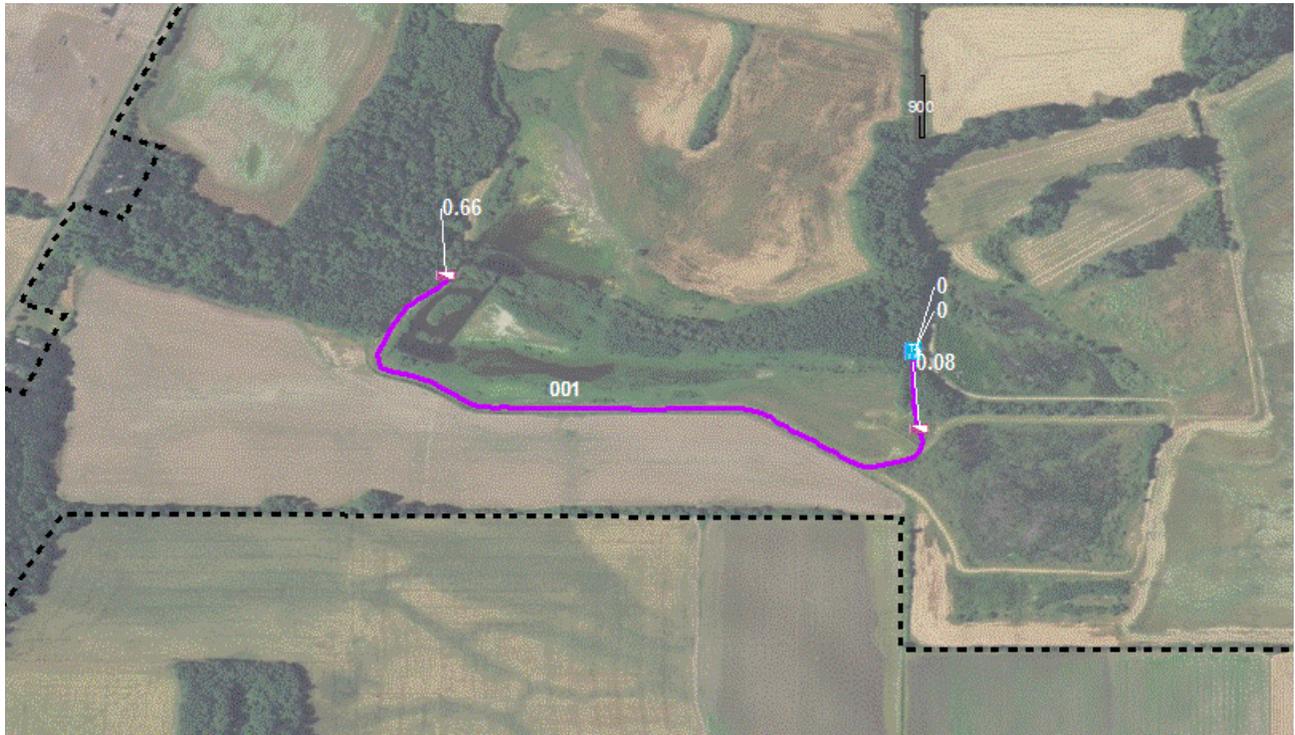
| Trail # | Trail Name | Reason for Removal |
|---------|------------|--------------------|
|---------|------------|--------------------|

Trails modified from previous inventory:

| Trail # | Trail Name | Type of Modification | Description of Modification |
|---------|-----------------------|----------------------|-----------------------------|
| T400 | Rail Trail Loop Trail | Name change | from Rail Trail Loop |

Comments:

TRAIL CONDITION



Trail Name: Dunlin Marsh Trail
Trail Number: T300

Refuge Name: Ankeny NWR
Region: 1

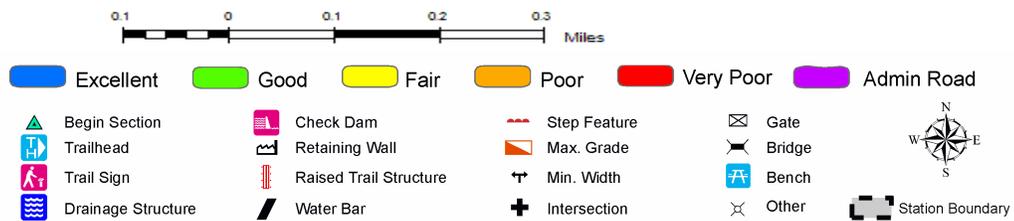
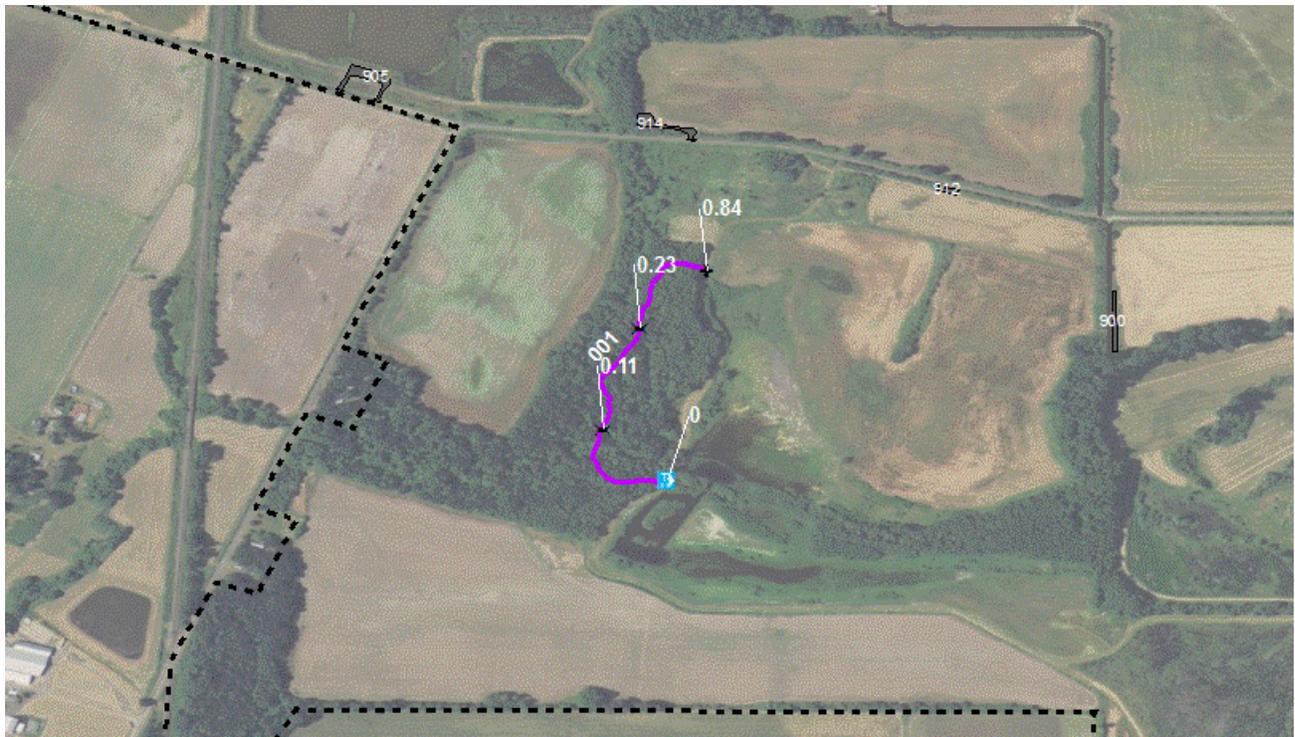
Total Length: 0.68 Miles

| | |
|------------------------------------|------------|
| Section Number | 001 |
| Section Length (miles) | 0.66 |
| SAMMS Number | 10039518 |
| Rating Date | 08/16/2012 |
| Trail Section Information | |
| Trail Class | TC3 |
| Surface Type | Admin Road |
| Surface Firmness | Firm |
| Width (inches) | 139 |
| Average Grade (%) | 1.6 |
| Average X-slope (%) | 4.80 |
| Trail Condition Information | |
| Deferred Maintenance | |
| CRV | |
| FCI | |
| Condition | |

Trail Condition TOTALS

| Deferred Maintenance | CRV | FCI | Condition |
|----------------------|-----|-----|-----------|
| | | | |

TRAIL CONDITION



Trail Name: Bashaw Creek Loop Trail
Trail Number: T301

Refuge Name: Ankeny NWR
Region: 1

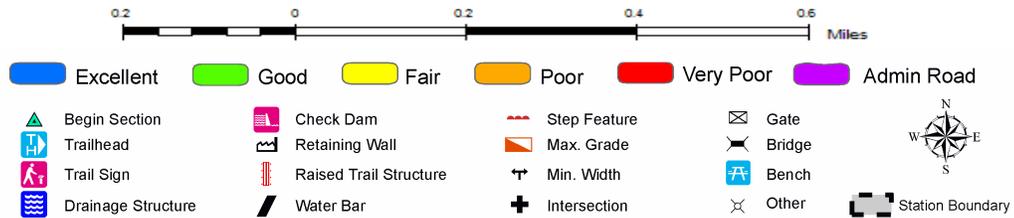
Total Length: 0.34 Miles

| | |
|------------------------------------|------------|
| Section Number | 001 |
| Section Length (miles) | 0.34 |
| SAMMS Number | 10039518 |
| Rating Date | 08/19/2012 |
| Trail Section Information | |
| Trail Class | TC3 |
| Surface Type | Admin Road |
| Surface Firmness | Firm |
| Width (inches) | 43 |
| Average Grade (%) | 3.3 |
| Average X-slope (%) | 3.20 |
| Trail Condition Information | |
| Deferred Maintenance | |
| CRV | |
| FCI | |
| Condition | |

Trail Condition TOTALS

| Deferred Maintenance | CRV | FCI | Condition |
|----------------------|-----|-----|-----------|
| | | | |

TRAIL CONDITION



Trail Name: Rail Trail Loop Trail
Trail Number: T400

Refuge Name: Ankeny NWR
Region: 1

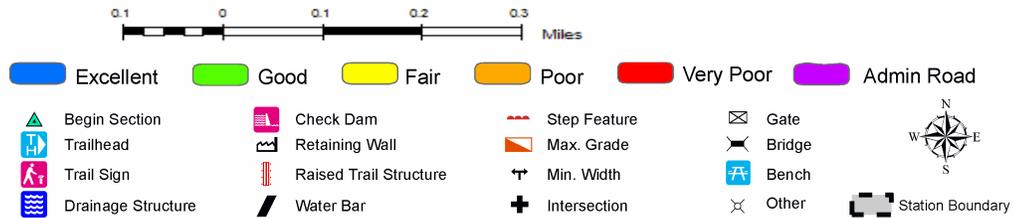
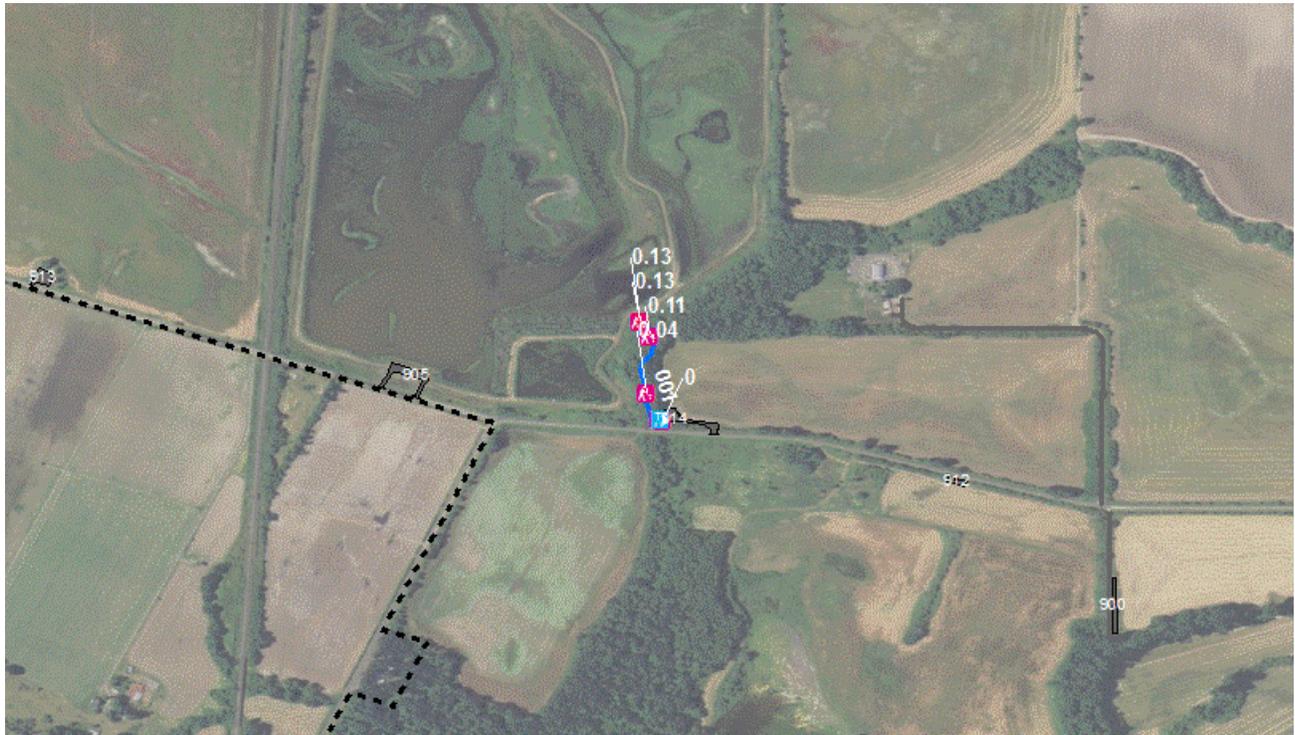
Total Length: 1.24 Miles

| | 001 | 002 | 003 |
|------------------------------------|------------|------------|------------|
| Section Number | 001 | 002 | 003 |
| Section Length (miles) | 0.22 | 0.38 | 0.64 |
| SAMMS Number | 10004399 | 10004399 | 10004399 |
| Rating Date | 06/06/2007 | 06/06/2007 | 06/06/2007 |
| Trail Section Information | | | |
| Trail Class | TC4 | TC4 | TC4 |
| Surface Type | Gravel | Boardwalk | Mowed |
| Surface Firmness | Hard | Hard | Firm |
| Width (inches) | 62 | 60 | 96 |
| Average Grade (%) | 1.4 | 1.4 | 1.4 |
| Average X-slope (%) | 1.80 | 1.80 | 1.80 |
| Trail Condition Information | | | |
| Deferred Maintenance | | | |
| CRV | \$31,633 | \$262,038 | \$32,652 |
| FCI | 0.00 | 0.00 | 0.00 |
| Condition | Excellent | Excellent | Excellent |

Trail Condition TOTALS

| Deferred Maintenance | CRV | FCI | Condition |
|----------------------|-----------|------|-----------|
| | \$326,322 | 0.00 | Excellent |

TRAIL CONDITION



Trail Name: Pintail/Egret Marsh Trail
Trail Number: T401

Refuge Name: Ankeny NWR
Region: 1

Total Length: 0.13 Miles

| | |
|------------------------------------|------------|
| Section Number | 001 |
| Section Length (miles) | 0.13 |
| SAMMS Number | 10039128 |
| Rating Date | 06/06/2007 |
| Trail Section Information | |
| Trail Class | TC4 |
| Surface Type | Boardwalk |
| Surface Firmness | Hard |
| Width (inches) | 60 |
| Average Grade (%) | 1.0 |
| Average X-slope (%) | 0.30 |
| Trail Condition Information | |
| Deferred Maintenance | |
| CRV | \$89,645 |
| FCI | 0.00 |
| Condition | Excellent |

Trail Condition TOTALS

| Deferred Maintenance | CRV | FCI | Condition |
|----------------------|----------|------|-----------|
| | \$89,645 | 0.00 | Excellent |

TRAIL CONDITION



- | | | | | | |
|--------------------|------------------------|--------------|--------|------------------|------------|
| Excellent | Good | Fair | Poor | Very Poor | Admin Road |
| Begin Section | Check Dam | Step Feature | Gate | | |
| Trailhead | Retaining Wall | Max. Grade | Bridge | | |
| Trail Sign | Raised Trail Structure | Min. Width | Bench | Station Boundary | |
| Drainage Structure | Water Bar | Intersection | Other | | |

Trail Name: Ankeny Hill Overlook Trail
Trail Number: T402

Refuge Name: Ankeny NWR
Region: 1

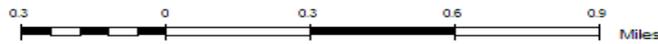
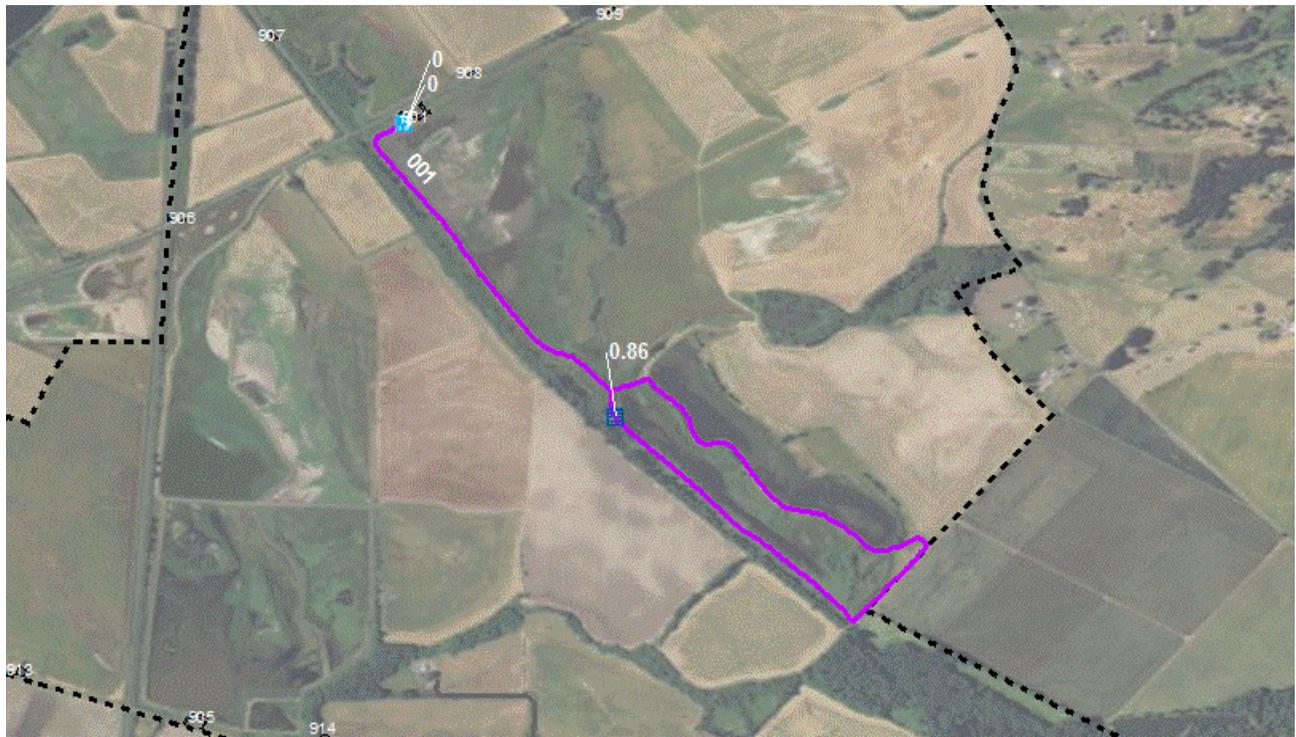
Total Length: 0.06 Miles

| | |
|------------------------------------|------------|
| Section Number | 001 |
| Section Length (miles) | 0.06 |
| SAMMS Number | 10039507 |
| Rating Date | 06/06/2007 |
| Trail Section Information | |
| Trail Class | TC4 |
| Surface Type | Gravel |
| Surface Firmness | Firm |
| Width (inches) | 60 |
| Average Grade (%) | 1.1 |
| Average X-slope (%) | 0.30 |
| Trail Condition Information | |
| Deferred Maintenance | |
| CRV | \$8,348 |
| FCI | 0.00 |
| Condition | Excellent |

Trail Condition TOTALS

| Deferred Maintenance | CRV | FCI | Condition |
|----------------------|---------|------|-----------|
| | \$8,348 | 0.00 | Excellent |

TRAIL CONDITION



| | | | | | |
|---|---|--|--|--|--|
| Excellent | Good | Fair | Poor | Very Poor | Admin Road |
| Begin Section | Check Dam | Step Feature | Gate | Station Boundary | |
| Trailhead | Retaining Wall | Max. Grade | Bridge | | |
| Trail Sign | Raised Trail Structure | Min. Width | Bench | | |
| Drainage Structure | Water Bar | Intersection | Other | | |

Trail Name: Sidnery Irrigation Ditch Trail
Trail Number: T403

Refuge Name: Ankeny NWR
Region: 1

Total Length: 2.50 Miles

| | |
|------------------------------------|------------|
| Section Number | 001 |
| Section Length (miles) | 2.50 |
| SAMMS Number | 10004399 |
| Rating Date | 08/19/2012 |
| Trail Section Information | |
| Trail Class | TC4 |
| Surface Type | Admin Road |
| Surface Firmness | Firm |
| Width (inches) | 200 |
| Average Grade (%) | 2.0 |
| Average X-slope (%) | 6.30 |
| Trail Condition Information | |
| Deferred Maintenance | |
| CRV | |
| FCI | |
| Condition | |

Trail Condition TOTALS

| Deferred Maintenance | CRV | FCI | Condition |
|----------------------|-----|-----|-----------|
| | | | |

NOTE TO USERS OR READERS

This section 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.

TRAIL DEFICIENCY

No Deficiencies

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0587 - MP 0.00 - Trailhead

TRAIL NUMBER: T301
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0588 - MP 0.11 - Bridge -sf

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T301
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0589 - MP 0.23 - Bridge -sf

TRAIL NUMBER: T301
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0590 - MP 0.84 - Intersection

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0580 - MP 0.00 - Trailhead

TRAIL NUMBER: T400
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0578 - MP 0.00 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0579 - MP 0.00 - Sign

TRAIL NUMBER: T400
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0584 - MP 0.22 - Intersection

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T400
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0585 - MP 0.60 - Intersection

TRAIL NUMBER: T400
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0586 - MP 0.60 - Begin Section

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T401
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0594 - MP 0.00 - Trailhead

TRAIL NUMBER: T401
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0592 - MP 0.00 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T401
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0593 - MP 0.00 - Sign

TRAIL NUMBER: T401
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0595 - MP 0.04 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T402
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0601 - MP 0.00 - Trailhead

TRAIL NUMBER: T402
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0599 - MP 0.00 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T402
STATION: Ankeny NWR
DATE: 06/06/2007



Photo # ANKE_C3_0598 - MP 0.00 - Sign

TRAIL NUMBER: T402
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0602 - MP 0.04 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T402
 STATION: Ankeny NWR
 DATE: 08/16/2012



Photo # ANKE_C3_0603 - MP 0.04 - Sign

TRAIL NUMBER: T402
 STATION: Ankeny NWR
 DATE: 08/16/2012



Photo # ANKE_C3_0604 - MP 0.05 - Sign

PHOTOGRAPHIC SHEET

TRAIL NUMBER: T403
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0605 - MP 0.00 - Trailhead

TRAIL NUMBER: T403
STATION: Ankeny NWR
DATE: 08/16/2012



Photo # ANKE_C3_0606 - MP 0.00 - Sign

PHOTOGRAPHIC SHEET

A NOTE TO USERS OR READERS

In this chapter the reader may notice photographs with dates ranging from 2006 and 2007 to 2012. This occurs because 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 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.

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 \leq .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. |

| | |
|---|---|
| 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. |