

Owasco Lake Watershed 2017 Roadside Ditch Assessment



The information included in this assessment was collected between late June and early July 2017. It reflects only a percentage of roadway ditches throughout the watershed that have been recently cleaned and have no visible management practices and/or have not been re-vegetated. The Inspection Program will continue to monitor these ditch segments for stabilization while others are being identified. Ditches that have been disturbed during 2017 and are experiencing erosion due to high water velocities and instability will also be scrutinized.

The goal of this effort is to provide awareness to each town, county, and state jurisdiction, throughout the watershed, to:

1. Ascertain the total linear mileage of exposed/eroding ditches,
2. Encourage each jurisdiction to perform good housekeeping on roadside conveyance systems, and
3. Reduce sediment and nutrient loads to Owasco Lake

Criteria for Ranking Sites

Direct

Connection or proximity to a stream

Percent Vegetation

0-25%

26-50%

51-75%

76-100%

Level of erodibility

High

Moderate

Low

Bank slope

Steep Grade

Moderate Grade

Flat

Linear footage of ditch

≥401 ft

201-400 ft

≤200 ft

Points

10

15

10

5

1

10

5

1

10

5

1

15

10

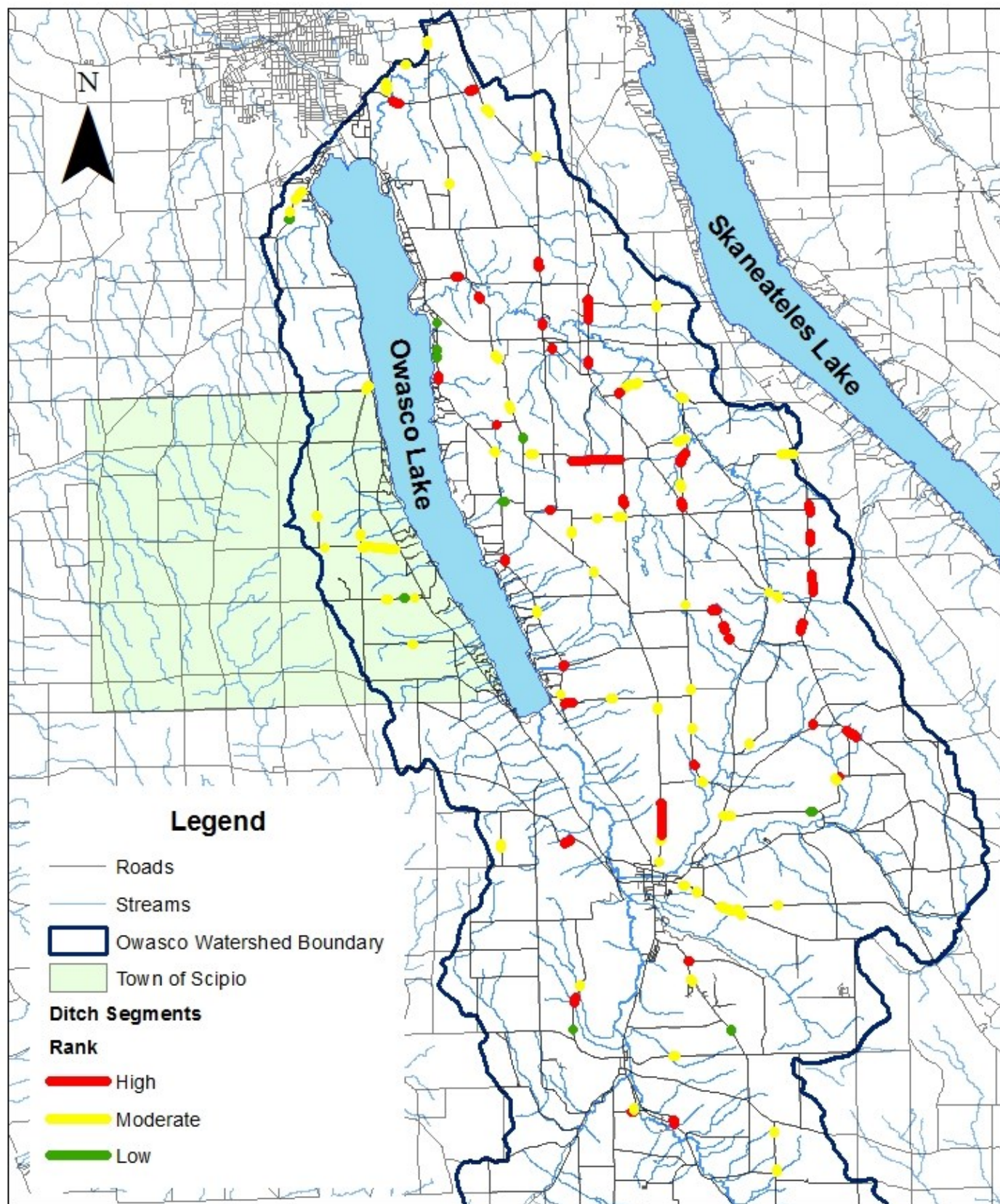
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Total Points	Rank
≤20	Low
21-39	Moderate
40-60	High



A Trimble GPS unit is used to map different features of the ditches, allowing for the Inspection Program to categorize the level of erodibility and risk of ditch failure

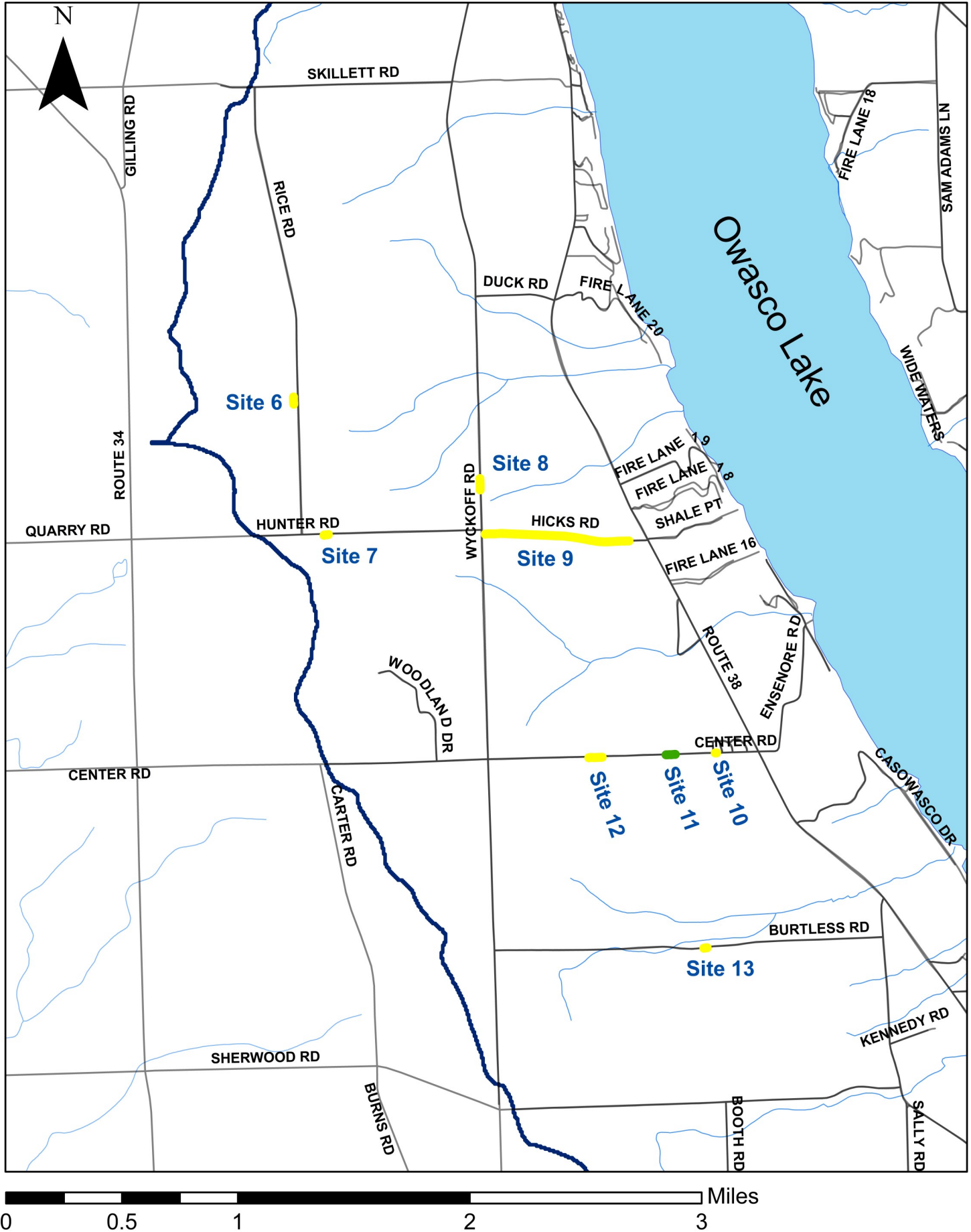
Road Ditch Assessment Sites in the Owasco Lake Watershed (Summer 2017)



Map created by Kathryn Vellone,
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Owasco Lake Watershed Inspection Program
September 5, 2017

0 5 10 Miles

Road Ditch Assessment Sites in Scipio (Cayuga County)





Map Identifier: Site 6
Sub-watershed: Unknown
Road Name: Rice Road
Town: Scipio
Road Jurisdiction: Town of Scipio
Closest Intersection: Rice Road/Hunter Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 50% Grasses
Level of Erodibility: Moderate
Slope of Area: Flat
Length of Ditch: 150 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 21)
Estimated Cost: \$225



Map Identifier: Site 7
Sub-watershed: Unknown
Road Name: Hunter Road
Town: Scipio
Road Jurisdiction: Town of Scipio
Closest Intersection: Hunter Road/Rice Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 10% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 100 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 30)
Estimated Cost: \$150



Map Identifier: Site 8
Sub-watershed: Unknown
Road Name: Wyckoff Road
Town: Scipio
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Wyckoff Road/Hicks Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 80% Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 250 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 27)
Estimated Cost: \$375



Map Identifier: Site 9
Sub-watershed: Unknown
Road Name: Hicks Road
Town: Scipio
Road Jurisdiction: Town of Scipio
Closest Intersection: Hicks Road/Wyckoff Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 80% Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 3,300 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 22)
Estimated Cost: \$4,950



Map Identifier: Site 10
Sub-watershed: Unknown
Road Name: Center Road
Town: Scipio
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Center Road/Lakeview Circle
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 25% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 50 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: Moderate (Score = 30)
Estimated Cost: \$75



Map Identifier: Site 11
Sub-watershed: Unknown
Road Name: Center Road
Town: Scipio
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Center Road/Lakeview Circle
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 80% Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 200 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Low (Score = 17)
Estimated Cost: \$300



Map Identifier: Site 12
Sub-watershed: Unknown
Road Name: Center Road
Town: Scipio
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Center Road/Wyckoff Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 75% Grasses
Level of Erodibility: Moderate
Slope of Area: Steep Grade
Length of Ditch: 300 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: Moderate (Score = 30)
Estimated Cost: \$450



Map Identifier: Site 13
Sub-watershed: Willow Point Tributary
Road Name: Burtless Road
Town: Scipio
Road Jurisdiction: Town of Scipio
Closest Intersection: Burtless Road/Sherwood Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 50% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 100 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 25)
Estimated Cost: \$150

Summary

Cumulative Roadside Ditch and Total Costs Based on Road Jurisdiction:

Town of Scipio:

4 sites, 3,650 ft

\$5,475

Cayuga County Highways

(Scipio):

4 sites, 800 ft

\$1,200