

Substrait Zebra Mussel (*Dreissena polymorpha*) data  
Geneva Lake, Walworth Co. WI

Station location

ss1 City of Lake Geneva Launch pier.  
 ss2 Linn Pier or Robinson Hillside public launch piers.  
 ss3 Lake Geneva Sailing School and Yacht Club middle pier  
 ss4 Gordies Gas pier, Fontana  
 ss5 Williams Bay municipal boat pier,

Station	date	days in	N/m <sup>2</sup>
ss1	7/9/96	25	0
	8/7/96	29	147
	8/27/96	20	108
	10/11/96	45	missing
	7/17/97	35	0
	10/6/97	81	43,218
ss2	7/9/96	27	0
	8/7/96	31	610
	8/27/96	22	27
	10/11/96	47	41
	7/17/97	35	missing
	10/6/97	81	978
ss3	7/9/96	27	0
	8/7/96	31	0
	8/27/96	22	0
	10/11/96	47	15
	7/17/97	33	0
	10/6/97	81	missing
ss4	7/9/96	25	0
	8/7/96	29	0
	8/27/96	20	0
	10/11/96	45	23
	7/17/97	33	0
	10/6/97	79	5345
ss5	7/9/96	25	0
	8/7/96	29	0
	8/27/96	20	13
	10/11/96	45	34
	7/17/97	33	0
	10/6/97	79	11,248

GLEA

## Phase II: Zebra Mussel Monitoring Report

### Personal Data

Name: THEODORE W. PETERS/GLEA  
 Address: P.O. BOX 200  
 City: FONTANA State: WI Zip: 53147  
 Phone Number: 414-275-6310

### Monitoring Location

Date: 10-8-97 Time: 0850 CDT  
 County: WALWORTH City: VILLAGE OF WILLIAMS BAY  
 Body of Water: GENERA LAKE  
 Nearest Landmark (town, highway, boat ramp, bridge): MUNICIPAL PIER (T-pier), EAST SIDE OF T  
 Distance from nearest landmark: \_\_\_\_\_  
 Habitat Type: River/Stream \_\_\_\_\_ Natural Lake/Pond  Marsh/Swamp \_\_\_\_\_  
 Canal/Ditch \_\_\_\_\_ Man Made Reservoir \_\_\_\_\_ Estuary/Bay \_\_\_\_\_

### Water Quality Parameters

Temperature: 18.5° Secchi Depth: 74.0 m

### Sampler Information

Total Water Depth: 2 m. Depth of Sampler: 1 m.  
 Length of time sampler was in place (Days): 84 day

### Monitoring Results

Number of mussels found: # on Top side of Plates: 1405  
 # on Bottom side of Plates: 1091  
 Total: 2496  
 Size of the largest mussel (in mm): 14 mm  
 Size of the smallest mussel (in mm): 1 mm  
 Density of mussels on sampler: 11,248/m<sup>2</sup>

$$\text{Density of mussels (N/M}^2\text{)} = \frac{\text{Number counted (N)} \times 10,000}{\text{Area Counted (cm}^2\text{)}}$$

Area conversions for the plate sampler described in this document:

#	Plate Size	Area (in. <sup>2</sup> )	Area (cm <sup>2</sup> )
4	6" x 6"	36	232
3	8" x 8"	64	413
2	10" x 10"	100	645
1	12" x 12"	144	929
Total (4 plates):		344	2219

187  
x 2  
-----  
374

If greater than 20 mussels are found measure 20 mussels chosen randomly from the sample. If less than 20 mussels are found measure all mussels found. Report results in table given on next page. \* Mussels in Group Colonies Between Plates & on Spacers - Also on Anchor Lines

PLATE #	TOP	BOTTOM	Spacers		
1	808	192	Spacers	1/2	67
2	374	448	262 x 4	2/3	88
3	216	364		3/4	67
4	7	97			

USED Sub-Samples TO COUNT on plate

Length of Zebra Mussels

Number	Length (mm)	Number	Length (mm)
1	9	11	14
2	8	12	10
3	11	13	10
4	14	14	9
5	12	15	10
6	11	16	13
7	15	17	3
8	13	18	10
9	11	19	10
10	9	20	11

NOTE: All samples should be placed in isopropyl or rubbing alcohol until verification is obtained.

Phase II: Zebra Mussel Monitoring Report

Personal Data

Name: THEODORE W. PETERS / GENEVA LAKE ENVIRONMENTAL  
 Address: P.O. Box 200  
 City: FONTANA State: WI Zip: 53125  
 Phone Number: 414-275-6310

Monitoring Location

Date: 10-6-99 Time: 1400  
 County: WALWORTH City: LIWANTOWN  
 Body of Water: GENEVA LAKE  
 Nearest Landmark (town, highway, boat ramp bridge): LIWAN PIER  
5<sup>th</sup> FURZE ON LAUNCH RAMP - WEST SIDE  
 Distance from nearest landmark: \_\_\_\_\_  
 Habitat Type: River/Stream \_\_\_\_\_ Natural Lake/Pond X Marsh/Swamp \_\_\_\_\_  
 Canal/Ditch \_\_\_\_\_ Man Made Reservoir \_\_\_\_\_ Estuary/Bay \_\_\_\_\_

Water Quality Parameters

Temperature: 18.5 Secchi Depth: > 4m.

Sampler Information

Total Water Depth: 2 m. Depth of Sampler: 0.5M  
 Length of time sampler was in place (Days): 84 days

Monitoring Results

Number of mussels found: # on Top side of Plates: 205  
 # on Bottom side of Plates: 217  
 Total: 422

Size of the largest mussel (in mm): 11 MM  
 Size of the smallest mussel (in mm): 1 MM  
 Density of mussels on sampler: 978/m<sup>2</sup>

$$\text{Density of mussels (N/M}^2\text{)} = \frac{\text{Number counted (N)} \times 10,000}{\text{Area Counted (cm}^2\text{)}}$$

Area conversions for the plate sampler described in this document:

Plate Size	Area (in. <sup>2</sup> )	Area (cm <sup>2</sup> )
4 6" x 6"	36	232
3 8" x 8"	64	413
2 10" x 10"	100	645
1 12" x 12"	144	929
Total (4 plates):	344	2219

If greater than 20 mussels are found measure 20 mussels chosen randomly from the sample. If less than 20 mussels are found measure all mussels found. Report results in table given on next page. ACTUAL COUNTS

53 on Beach Line

PLATE	Top	Bottom	Ring	1/2	121
PLATE 1	142	78	Ring	2/3	69
PLATE 2	51	80	Ring	3/4	28
PLATE 3	12	47			
PLATE 4	0	12			

Length of Zebra Mussels

Number	Length (mm)	Number	Length (mm)
1	9	11	2
2	8	12	5
3	9	13	3
4	11	14	3
5	2	15	3
6	9	16	7
7	2	17	4
8	1	18	7
9	5	19	1
10	1	20	7

NOTE: All samples should be placed in isopropyl or rubbing alcohol until verification is obtained.

## Phase II: Zebra Mussel Monitoring Report

### Personal Data

Name: THEODORE W. PETERS / G. LEEA  
 Address: RD. 3, Box 200  
 City: FONTANA State: WI Zip: 53125  
 Phone Number: 414-275-6310

### Monitoring Location

Date: 10-8-97 Time: 1435  
 County: WALWORTH City: FONTANA  
 Body of Water: GENEVA LAKE  
 Nearest Landmark (town, highway, boat ramp, bridge): GORDIES NORTH PIER

Distance from nearest landmark: 30M SE OF VILLAGE LAUNCH RAMP  
 Habitat Type: River/Stream  Natural Lake/Pond  Marsh/Swamp   
 Canal/Ditch  Man Made Reservoir  Estuary/Bay

### Water Quality Parameters

Temperature: 10.0 Secchi Depth: > 4.0 M

### Sampler Information

Total Water Depth: 2 M. Depth of Sampler: 1 M  
 Length of time sampler was in place (Days): 184 days

### Monitoring Results

Number of mussels found: # on Top side of Plates: 900  
 # on Bottom side of Plates: 286  
 Total: 1186

Size of the largest mussel (in mm): 9 mm  
 Size of the smallest mussel (in mm): < 1 mm  
 Density of mussels on sampler: 5345

$$\text{Density of mussels (N/M}^2\text{)} = \frac{\text{Number counted (N)} \times 10,000}{\text{Area Counted (cm}^2\text{)}}$$

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2 10" x 10"	100	645
1 12" x 12"	144	929
Total (4 plates):	344	2219

1  
 34  
 x4  
 396

3  
 128  
 x4  
 512

If greater than 20 mussels are found measure 20 mussels chosen randomly from the sample. If less than 20 mussels are found measure all mussels found. Report results in table given on next page.

PLATE #	TOP	BOTTOM	SPACERS
4	0	34	43 77
3	52	81	3/2 103
2	336	171	2/1 22
1	512	0	

Length of Zebra Mussels

Number	Length (mm)	Number	Length (mm)
1	5	11	3
2	6	12	9
3	9	13	2
4	7	14	5
5	7	15	3
6	1	16	6
7	4	17	5
8	2	18	7
9	3	19	8
10	8	20	7

NOTE: All samples should be placed in isopropyl or rubbing alcohol until verification is obtained.

## Phase II: Zebra Mussel Monitoring Report

Personal Data

Name: THEODORE W. PETERS / GENEVA LAKE ENV. AG  
 Address: P.O. Box 200  
 City: LAKE GENEVA State: WI Zip: 53125  
 Phone Number: 414-275-6310

Monitoring Location

Date: 10-6-97 Time: 1920 EST  
 County: WALWORTH City: LAKE GENEVA  
 Body of Water: GENEVA LAKE  
 Nearest Landmark (town, highway, boat ramp bridge): CITY OF LAKE GENEVA LAUNCH

Distance from nearest landmark: LAUNCH PIER (W. END)  
 Habitat Type: River/Stream      Natural Lake/Pond X Marsh/Swamp       
 Canal/Ditch      Man Made Reservoir      Estuary/Bay     

Water Quality Parameters

Temperature: 18.5 Secchi Depth: >4 m

Sampler Information

Total Water Depth: 2 m Depth of Sampler: 1.7 m  
 Length of time sampler was in place (Days): 82 day

Monitoring Results

Number of mussels found: # on Top side of Plates: 6038  
 # on Bottom side of Plates: 3552  
 Total: 9590  
 Size of the largest mussel (in mm): 10 mm  
 Size of the smallest mussel (in mm): <1 mm  
 Density of mussels on sampler: 43,218 / m<sup>2</sup>

$$\text{Density of mussels (N/M}^2\text{)} = \frac{\text{Number counted (N)} \times 10,000}{\text{Area Counted (cm}^2\text{)}}$$

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10" x 10"	100	645
12" x 12"	144	929
Total (4 plates):	344	2219

If greater than 20 mussels are found measure 20 mussels chosen randomly from the sample.  
 If less than 20 mussels are found measure all mussels found. Report results in table given on next page. Use 0 Sub Samples of @ plate - area

MANY MUSSELS 2-3m merge impregnated into mesh of line for brace

PLAT	TOP	BOTTOM	SPACER
1	3764	564	4/3 - 86
2	1900	1384	3/2 97
3	436	1396	2/1 62
4	52	503	



Length of Zebra Mussels

Number	Length (mm)	Number	Length (mm)
1	3	11	4
2	1	12	7
3	5	13	7
4	6	14	7
5	3	15	1
6	1	16	3
7	2	17	7
8	2	18	1
9	2	19	3
10	4	20	2

NOTE: All samples should be placed in isopropyl or rubbing alcohol until verification is obtained.

1 x 2.15

2.25 52 80

52

$$\begin{array}{r} 2.25 \\ \times 1.15 \\ \hline 2.25 \\ 2250 \\ \hline 2587.5 \end{array}$$

$$\begin{array}{r} 2.25 \\ \times 1.15 \\ \hline 2.25 \\ 2250 \\ \hline 2587.5 \end{array}$$

$$\begin{array}{r} 2.25 \\ \times 1.15 \\ \hline 2.25 \\ 2250 \\ \hline 2587.5 \end{array}$$

$$\begin{array}{r} 346 \\ \times 4 \\ \hline 1384 \end{array}$$

$$\begin{array}{r} 122 \\ \times 4 \\ \hline 488 \end{array}$$

$$\begin{array}{r} 137 \\ \times 2 \\ \hline 274 \end{array}$$

$$\begin{array}{r} 425 \\ \times 4 \\ \hline 1700 \end{array}$$

$$\begin{array}{r} 134 \\ \times 4 \\ \hline 536 \end{array}$$