

# Clean Lakes Program Data Summary

2002

## Appleman

County: **Lagrange**

Sample Location: **Deep Hole**

Date: **8/6/2002**

| Year                        | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi          | pH - hypso | Cond - epi | Cond - hyp              | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp           | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|-----------------------------|---------------|------------|-------------------|---------------------|----------------------------|-------------------|------------|------------|-------------------------|-----------|-------------|---------------------|-----------|----------|-------------------------|-------|-----------|---------------------|-----------|-----------|-----------|-----------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                        | 8.8           | 2.6        | 45                | 12                  | 83.6                       | 8                 | 7.3        | 310        | 270                     | 128       | 163         | 0.008               | 0.438     | 0.029    | 0.463                   | 6.23  | 0.013     | 0.013               | 0.018     | 1.942     | 0.954     | 2.677     | <b>39</b><br>Intermediate |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                       | 0             | 1          | 1.5               | 2                   | 3                          | 4                 | 5          | 6          | 7                       | 8         | 9           | 10                  | 11        | 12       | 13                      | 14    | 15        | 16                  | 17        | 18        | 19        | 20        | 21                        | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                        | 27            | 27         | 27                | 27                  | 25                         | 19                | 14         | 12         | 10                      | 9.9       |             |                     |           |          |                         |       |           |                     |           |           |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                          | 6.7           | 6.7        | 6.7               | 6.7                 | 9.4                        | 1.5               | 0.4        | 0.3        | 0.3                     | 0.3       |             |                     |           |          |                         |       |           |                     |           |           |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidic: 48.8 |               |            |                   |                     | Blue-Green Dominance %: 92 |                   |            |            |                         | Notes:    |             |                     |           |          |                         |       |           |                     |           |           |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 64401    |               |            | Greens (#/L): 164 |                     |                            | Diatoms (#/L): 41 |            |            | Other algae (#/L): 5074 |           |             | Rotifers (#/L): 696 |           |          | Zooplankton (#/L): 29.7 |       |           | Plankton #/L: 70404 |           |           |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

## Ball

County: **Steuben**

Sample Location: **Deep Hole**

Date: **8/5/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)     | 1% Light Level (ft) | DO @5' (%)                 | pH - epi            | pH - hypso | Cond - epi | Cond - hyp             | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso           | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|---------------------------|---------------|------------|------------------|---------------------|----------------------------|---------------------|------------|------------|------------------------|-----------|-------------|---------------------|-----------|----------|----------------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                      | 20.1          | 1.2        | 59               | 13                  | 113                        | 8.5                 | 7.8        | 420        | 330                    | 157       | 193         | 0.007               | 0.021     | 0.05     | 0.341                | 7.47  | 0.658     | 0.456              | 0.056     | 1.3       | 0.886     | 1.206     | <b>23</b><br>High |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                     | 0             | 1          | 1.5              | 2                   | 3                          | 4                   | 5          | 6          | 7                      | 8         | 9           | 10                  | 11        | 12       | 13                   | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                      | 29            | 29         | 29               | 28                  | 26                         | 22                  | 18         | 13         | 11                     | 10        | 9.4         | 8.5                 | 8         | 7.7      | 7.2                  | 6.8   | 6.4       | 6                  | 5.8       | 5.6       | 5.6       |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                        | 9.1           | 9          | 8.8              | 8.2                 | 4.2                        | 0.5                 | 0.4        | 0.4        | 0.5                    | 0.8       | 1.3         | 1                   | 1         | 0.7      | 0.4                  | 0.3   | 0.3       | 0.3                | 0.3       | 0.3       | 0.3       | 0.3       |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidic: 15 |               |            |                  |                     | Blue-Green Dominance %: 15 |                     |            |            |                        | Notes:    |             |                     |           |          |                      |       |           |                    |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 500    |               |            | Greens (#/L): 67 |                     |                            | Diatoms (#/L): 1966 |            |            | Other algae (#/L): 267 |           |             | Rotifers (#/L): 466 |           |          | Zooplankton (#/L): 0 |       |           | Plankton #/L: 3265 |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

## Barton

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/8/2002**

| Year                        | Max Depth (m) | Secchi (m) | Light@3' (%)    | 1% Light Level (ft) | DO @5' (%)                | pH - epi           | pH - hypso | Cond - epi | Cond - hyp               | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp           | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|-----------------------------|---------------|------------|-----------------|---------------------|---------------------------|--------------------|------------|------------|--------------------------|-----------|-------------|---------------------|-----------|----------|-------------------------|-------|-----------|---------------------|-----------|-----------|-----------|-----------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                        | 9.1           | 3.7        | 46              | 22                  | 107.6                     | 8.3                | 7.8        | 680        | 483                      | 174.5     | 193         | 0.003               | 0.005     | 0.059    | 0.056                   | 0.47  | 0.096     | 0.031               | 0.097     | 0.589     | 0.765     | 1.188     | <b>13</b><br>High |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                       | 0             | 1          | 1.5             | 2                   | 3                         | 4                  | 5          | 6          | 7                        | 8         | 9           | 10                  | 11        | 12       | 13                      | 14    | 15        | 16                  | 17        | 18        | 19        | 20        | 21                | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                        | 29            | 29         | 29              | 28                  | 27                        | 23                 | 19         | 15         | 13                       | 12        | 11          |                     |           |          |                         |       |           |                     |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                          | 8.3           | 8.3        | 8.3             | 8.4                 | 9.7                       | 11                 | 9.8        | 3.7        | 0.7                      | 0.6       | 0.4         |                     |           |          |                         |       |           |                     |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidic: 65.6 |               |            |                 |                     | Blue-Green Dominance %: 4 |                    |            |            |                          | Notes:    |             |                     |           |          |                         |       |           |                     |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 1256     |               |            | Greens (#/L): 0 |                     |                           | Diatoms (#/L): 264 |            |            | Other algae (#/L): 28287 |           |             | Rotifers (#/L): 132 |           |          | Zooplankton (#/L): 53.4 |       |           | Plankton #/L: 29993 |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

# Clean Lakes Program Data Summary

2002

## Beaver Dam

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/29/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%)                 | pH - epi | pH - hypso | Cond - epi | Cond - hyp | Alk - epi          | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp           | TKN - epi | TKN - hyp | ITSI:                    |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |
|--------------------------------|---------------|------------|--------------|---------------------|----------------------------|----------|------------|------------|------------|--------------------|-------------|-----------|-----------|----------|-------------------------|-------|-----------|-----------|-----------|---------------------|-----------|-----------|--------------------------|----|-------------------------|----|----|----|----|---------------------|----|----|----|----|----|----|----|--|
| 2002                           | 7.9           | 2.7        | 28           | 17                  | 88.6                       | 8.1      | 7.8        | 510        | 410        | 212                | 225         | 0.011     | 0.012     | 0.024    | 0.033                   | 1.79  | 0.644     | 0.398     | 0.085     | 0.469               | 0.967     | 1.362     | <b>13</b><br><i>High</i> |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |
| Depth                          | 0             | 1          | 1.5          | 2                   | 3                          | 4        | 5          | 6          | 7          | 8                  | 9           | 10        | 11        | 12       | 13                      | 14    | 15        | 16        | 17        | 18                  | 19        | 20        | 21                       | 22 | 23                      | 24 | 25 | 26 | 27 | 28                  | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                           | 27            | 27         | 27           | 27                  | 25                         | 23       | 20         | 15         | 13         |                    |             |           |           |          |                         |       |           |           |           |                     |           |           |                          |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |
| DO                             | 7.2           | 7.1        | 7.1          | 6.8                 | 5                          | 0.9      | 0.5        | 0.5        | 0.3        |                    |             |           |           |          |                         |       |           |           |           |                     |           |           |                          |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |
| % Water Column Oxidation: 42.8 |               |            |              |                     | Blue-Green Dominance %: 22 |          |            |            |            | Notes:             |             |           |           |          |                         |       |           |           |           |                     |           |           |                          |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 2230        |               |            |              |                     | Greens (#/L): 4057         |          |            |            |            | Diatoms (#/L): 218 |             |           |           |          | Other algae (#/L): 3368 |       |           |           |           | Rotifers (#/L): 368 |           |           |                          |    | Zooplankton (#/L): 65.1 |    |    |    |    | Plankton #/L: 10306 |    |    |    |    |    |    |    |  |

## Big Blue #13 (Westwood)

County: **Henry**

Sample Location: **Deep Hole**

Date: **8/20/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%)                 | pH - epi | pH - hypso | Cond - epi | Cond - hyp | Alk - epi          | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp           | TKN - epi | TKN - hyp | ITSI:                            |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |  |
|--------------------------------|---------------|------------|--------------|---------------------|----------------------------|----------|------------|------------|------------|--------------------|-------------|-----------|-----------|----------|-------------------------|-------|-----------|-----------|-----------|---------------------|-----------|-----------|----------------------------------|----|-------------------------|----|----|----|----|---------------------|----|----|----|----|----|----|----|--|--|
| 2002                           | 13.4          | 3          | 57           | 23                  | 103                        | 8.3      | 7.4        | 309        | 310        | 116                | 190         | 0.006     | 0.392     | 0.037    | 0.473                   | 1.45  | 0.027     | 0.02      | 0.039     | 2.289               | 0.568     | 3.533     | <b>29</b><br><i>Intermediate</i> |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |  |
| Depth                          | 0             | 1          | 1.5          | 2                   | 3                          | 4        | 5          | 6          | 7          | 8                  | 9           | 10        | 11        | 12       | 13                      | 14    | 15        | 16        | 17        | 18                  | 19        | 20        | 21                               | 22 | 23                      | 24 | 25 | 26 | 27 | 28                  | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                           | 27            | 26         | 26           | 26                  | 26                         | 26       | 26         | 23         | 17         | 14                 | 12          | 11        | 10        | 10       |                         |       |           |           |           |                     |           |           |                                  |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |  |
| DO                             | 8.6           | 8.4        | 8.3          | 8.3                 | 8.3                        | 8.3      | 8.3        | 2.1        | 4.1        | 0.4                | 0.4         | 0.4       | 0.4       | 0.3      |                         |       |           |           |           |                     |           |           |                                  |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |  |
| % Water Column Oxidation: 58.1 |               |            |              |                     | Blue-Green Dominance %: 76 |          |            |            |            | Notes:             |             |           |           |          |                         |       |           |           |           |                     |           |           |                                  |    |                         |    |    |    |    |                     |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 11624       |               |            |              |                     | Greens (#/L): 998          |          |            |            |            | Diatoms (#/L): 170 |             |           |           |          | Other algae (#/L): 2186 |       |           |           |           | Rotifers (#/L): 292 |           |           |                                  |    | Zooplankton (#/L): 38.5 |    |    |    |    | Plankton #/L: 15299 |    |    |    |    |    |    |    |  |  |

## Big Long

County: **Lagrange**

Sample Location: **Deep Hole**

Date: **8/12/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%)                 | pH - epi | pH - hypso | Cond - epi | Cond - hyp | Alk - epi          | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:                    |     |                         |     |     |     |     |                     |     |     |     |     |     |     |     |  |
|--------------------------------|---------------|------------|--------------|---------------------|----------------------------|----------|------------|------------|------------|--------------------|-------------|-----------|-----------|----------|-------------------------|-------|-----------|-----------|-----------|--------------------|-----------|-----------|--------------------------|-----|-------------------------|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|--|
| 2002                           | 25            | 6.2        | 45           | 26                  | 75.1                       | 8.1      | 7.6        | 340        | 250        | 122                | 137.5       | 0.008     | 0.124     | 0.028    | 0.133                   | 1.05  | 0.013     | 0.014     | 0.018     | 0.623              | 0.501     | 1.157     | <b>17</b><br><i>High</i> |     |                         |     |     |     |     |                     |     |     |     |     |     |     |     |  |
| Depth                          | 0             | 1          | 1.5          | 2                   | 3                          | 4        | 5          | 6          | 7          | 8                  | 9           | 10        | 11        | 12       | 13                      | 14    | 15        | 16        | 17        | 18                 | 19        | 20        | 21                       | 22  | 23                      | 24  | 25  | 26  | 27  | 28                  | 29  | 30  | 31  | 32  | 33  | 34  | 35  |  |
| Temp                           | 27            | 27         | 27           | 27                  | 27                         | 26       | 25         | 22         | 16         | 14                 | 13          | 11        | 10        | 10       | 9.6                     | 9     | 8.4       | 7.9       | 7.7       | 7.6                | 7.6       | 7.5       | 7.5                      | 7.5 | 7.5                     | 7.5 |     |     |     |                     |     |     |     |     |     |     |     |  |
| DO                             | 5.9           | 5.9        | 5.9          | 5.9                 | 6                          | 6.2      | 5.7        | 5          | 4.3        | 2.7                | 1.3         | 0.7       | 0.4       | 0.3      | 0.3                     | 0.3   | 0.3       | 0.2       | 0.2       | 0.2                | 0.2       | 0.2       | 0.2                      | 0.2 | 0.2                     | 0.2 | 0.2 | 0.2 | 0.2 | 0.2                 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |  |
| % Water Column Oxidation: 36.5 |               |            |              |                     | Blue-Green Dominance %: 48 |          |            |            |            | Notes:             |             |           |           |          |                         |       |           |           |           |                    |           |           |                          |     |                         |     |     |     |     |                     |     |     |     |     |     |     |     |  |
| Blue-greens (#/L): 9640        |               |            |              |                     | Greens (#/L): 40           |          |            |            |            | Diatoms (#/L): 289 |             |           |           |          | Other algae (#/L): 9999 |       |           |           |           | Rotifers (#/L): 60 |           |           |                          |     | Zooplankton (#/L): 20.5 |     |     |     |     | Plankton #/L: 20049 |     |     |     |     |     |     |     |  |

# Clean Lakes Program Data Summary

2002

## Big Otter

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/1/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hypso | Cond - epi | Cond - hyp              | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp           | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------------|---------------|------------|-------------------|---------------------|----------------------------|--------------------|------------|------------|-------------------------|-----------|-------------|---------------------|-----------|----------|-------------------------|-------|-----------|---------------------|-----------|-----------|-----------|-----------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 2002                      | 11.9          | 4.2        | 33                | 16                  | 101.9                      | 8.2                | 7.7        | 690        | 445                     | 241       | 246         | 0.008               | 0.249     | 0.027    | 0.297                   | 0.03  | 0.187     | 0.215               | 0.096     | 1.139     | 0.545     | 1.606     | 28           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                           |               |            |                   |                     |                            |                    |            |            |                         |           |             |                     |           |          |                         |       |           |                     |           |           |           |           | Intermediate |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Depth                     | 0             | 1          | 1.5               | 2                   | 3                          | 4                  | 5          | 6          | 7                       | 8         | 9           | 10                  | 11        | 12       | 13                      | 14    | 15        | 16                  | 17        | 18        | 19        | 20        | 21           | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| Temp                      | 29            | 29         | 29                | 29                  | 24                         | 19                 | 15         | 13         | 11                      | 10        | 9.2         | 7.9                 | 7.2       | 6.6      |                         |       |           |                     |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| DO                        | 8             | 8          | 8                 | 8                   | 9.3                        | 7.3                | 6.1        | 6.0        | 4.8                     | 4.2       | 2.4         | 0.6                 | 0.4       | 0.3      |                         |       |           |                     |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| % Water Column Oxic: 73.8 |               |            |                   |                     | Blue-Green Dominance %: 94 |                    |            |            |                         | Notes:    |             |                     |           |          |                         |       |           |                     |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Blue-greens (#/L): 49309  |               |            | Greens (#/L): 329 |                     |                            | Diatoms (#/L): 164 |            |            | Other algae (#/L): 2445 |           |             | Rotifers (#/L): 105 |           |          | Zooplankton (#/L): 36.1 |       |           | Plankton #/L: 52388 |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

## Big Turkey

County: **Lagrange**

Sample Location: **Deep Hole**

Date: **8/6/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi            | pH - hypso | Cond - epi | Cond - hyp              | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp           | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------------|---------------|------------|-------------------|---------------------|----------------------------|---------------------|------------|------------|-------------------------|-----------|-------------|--------------------|-----------|----------|-------------------------|-------|-----------|---------------------|-----------|-----------|-----------|-----------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 2002                      | 19.8          | 1          | 95                | 12                  | 103.8                      | 8.2                 | 7.6        | 480        | 500                     | 145       | 236         | 0.003              | 0.12      | 0.046    | 0.155                   | 6.57  | 0.518     | 0.074               | 0.019     | 1.65      | 0.979     | 2.37      | 33           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                           |               |            |                   |                     |                            |                     |            |            |                         |           |             |                    |           |          |                         |       |           |                     |           |           |           |           | Intermediate |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Depth                     | 0             | 1          | 1.5               | 2                   | 3                          | 4                   | 5          | 6          | 7                       | 8         | 9           | 10                 | 11        | 12       | 13                      | 14    | 15        | 16                  | 17        | 18        | 19        | 20        | 21           | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| Temp                      | 28            | 28         | 28                | 28                  | 28                         | 23                  | 19         | 17         | 12                      | 11        | 10          | 9.5                | 8.8       | 8.3      | 8                       | 7.8   | 7.7       | 7.6                 | 7.6       | 7.6       | 7.5       |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| DO                        | 8.1           | 8.1        | 8.2               | 8.2                 | 8.1                        | 0.8                 | 0.4        | 0.4        | 0.3                     | 0.3       | 0.3         | 0.3                | 0.3       | 0.3      | 0.3                     | 0.3   | 0.3       | 0.3                 | 0.3       | 0.3       | 0.3       | 0.3       |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| % Water Column Oxic: 15.4 |               |            |                   |                     | Blue-Green Dominance %: 63 |                     |            |            |                         | Notes:    |             |                    |           |          |                         |       |           |                     |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Blue-greens (#/L): 7335   |               |            | Greens (#/L): 605 |                     |                            | Diatoms (#/L): 1638 |            |            | Other algae (#/L): 1958 |           |             | Rotifers (#/L): 71 |           |          | Zooplankton (#/L): 44.2 |       |           | Plankton #/L: 11652 |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

## Bischoff Reservoir

County: **Ripley**

Sample Location: **Deep Hole**

Date: **7/22/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)    | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hypso | Cond - epi | Cond - hyp             | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso               | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---------------------------|---------------|------------|-----------------|---------------------|----------------------------|--------------------|------------|------------|------------------------|-----------|-------------|---------------------|-----------|----------|--------------------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 2002                      | 6.4           | 0.5        | 4.5             | 5                   | 60                         | 8.2                | 7          | 210        | 195                    | 77        | 101         | 0.011               | 0.432     | 0.09     | 0.578                    | 1.87  | 0.013     | 0.013              | 0.018     | 2.476     | 1.314     | 3.381     | 28           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                           |               |            |                 |                     |                            |                    |            |            |                        |           |             |                     |           |          |                          |       |           |                    |           |           |           |           | Intermediate |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Depth                     | 0             | 1          | 1.5             | 2                   | 3                          | 4                  | 5          | 6          | 7                      | 8         | 9           | 10                  | 11        | 12       | 13                       | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21           | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| Temp                      | 29            | 28         | 28              | 27                  | 26                         | 19                 | 16         | 15         |                        |           |             |                     |           |          |                          |       |           |                    |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| DO                        | 8.2           | 5.2        | 4.8             | 2.3                 | 0.4                        | 0.4                | 0.3        | 0.3        |                        |           |             |                     |           |          |                          |       |           |                    |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| % Water Column Oxic: 31.3 |               |            |                 |                     | Blue-Green Dominance %: 50 |                    |            |            |                        | Notes:    |             |                     |           |          |                          |       |           |                    |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Blue-greens (#/L): 1340   |               |            | Greens (#/L): 0 |                     |                            | Diatoms (#/L): 146 |            |            | Other algae (#/L): 292 |           |             | Rotifers (#/L): 780 |           |          | Zooplankton (#/L): 119.3 |       |           | Plankton #/L: 2677 |           |           |           |           |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

# Clean Lakes Program Data Summary

2002

## Boones Pond

County: **Boone**

Sample Location: **Deep Hole**

Date: **8/14/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)     | 1% Light Level (ft) | DO @5' (%)                 | pH - epi         | pH - hyp | Cond - epi | Cond - hyp            | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi            | TP - hyp | Chl a | NO3 - epi               | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------------------|---------------|------------|------------------|---------------------|----------------------------|------------------|----------|------------|-----------------------|-----------|-----------|-----------|-----------|---------------------|----------|-------|-------------------------|-----------|-----------|--------------------|-----------|-----------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                           | 8.5           | 2.9        | 32               | 21                  | 100                        | 8.2              | 7.6      | 710        | 720                   | 98        | 154       | 0.004     | 0.01      | 0.031               | 0.081    | 1.45  | 0.013                   | 0.013     | 0.018     | 0.018              | 0.458     | 0.994     | <b>21</b><br>High |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                          | 0             | 1          | 1.5              | 2                   | 3                          | 4                | 5        | 6          | 7                     | 8         | 9         | 10        | 11        | 12                  | 13       | 14    | 15                      | 16        | 17        | 18                 | 19        | 20        | 21                | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                           | 27            | 27         | 27               | 27                  | 27                         | 27               | 27       | 26         | 23                    | 15        |           |           |           |                     |          |       |                         |           |           |                    |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                             | 8.1           | 8          | 7.9              | 7.8                 | 7.8                        | 7.8              | 6.6      | 0.8        | 0.5                   | 0.3       |           |           |           |                     |          |       |                         |           |           |                    |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidation: 60.8 |               |            |                  |                     | Blue-Green Dominance %: 94 |                  |          |            |                       | Notes:    |           |           |           |                     |          |       |                         |           |           |                    |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 7874        |               |            | Greens (#/L): 76 |                     |                            | Diatoms (#/L): 8 |          |            | Other algae (#/L): 15 |           |           |           |           | Rotifers (#/L): 372 |          |       | Zooplankton (#/L): 40.4 |           |           | Plankton #/L: 8385 |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

## Booth

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/30/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)     | 1% Light Level (ft) | DO @5' (%)                | pH - epi           | pH - hyp | Cond - epi | Cond - hyp              | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi            | TP - hyp | Chl a | NO3 - epi                | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------------------|---------------|------------|------------------|---------------------|---------------------------|--------------------|----------|------------|-------------------------|-----------|-----------|-----------|-----------|---------------------|----------|-------|--------------------------|-----------|-----------|--------------------|-----------|-----------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                           | 13.4          | 7          | 16               | 6.5                 | 42.8                      | 7.5                | 7.4      | 495        | 340                     | 152       | 177       | 0.011     | 0.344     | 0.07                | 0.38     | 3.88  | 0.013                    | 0.013     | 0.018     | 1.402              | 1.212     | 2.003     | <b>21</b><br>High |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                          | 0             | 1          | 1.5              | 2                   | 3                         | 4                  | 5        | 6          | 7                       | 8         | 9         | 10        | 11        | 12                  | 13       | 14    | 15                       | 16        | 17        | 18                 | 19        | 20        | 21                | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                           | 29            | 26         | 26               | 25                  | 21                        | 15                 | 12       | 9.2        | 7.8                     | 6.8       | 6.3       | 6         | 5.9       | 5.9                 | 5.9      |       |                          |           |           |                    |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                             | 6.4           | 5.4        | 3.5              | 4.6                 | 0.3                       | 0.3                | 0.2      | 0.2        | 0.2                     | 0.2       | 0.2       | 0.2       | 0.2       | 0.2                 | 0.2      |       |                          |           |           |                    |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidation: 14.9 |               |            |                  |                     | Blue-Green Dominance %: 3 |                    |          |            |                         | Notes:    |           |           |           |                     |          |       |                          |           |           |                    |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 142         |               |            | Greens (#/L): 57 |                     |                           | Diatoms (#/L): 142 |          |            | Other algae (#/L): 4150 |           |           |           |           | Rotifers (#/L): 256 |          |       | Zooplankton (#/L): 257.6 |           |           | Plankton #/L: 5004 |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

## Bower

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/8/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)       | 1% Light Level (ft) | DO @5' (%)                 | pH - epi            | pH - hyp | Cond - epi | Cond - hyp               | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi            | TP - hyp | Chl a | NO3 - epi                | NO3 - hyp | NH3 - epi | NH3 - hyp           | TKN - epi | TKN - hyp | ITSI:                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------------------|---------------|------------|--------------------|---------------------|----------------------------|---------------------|----------|------------|--------------------------|-----------|-----------|-----------|-----------|---------------------|----------|-------|--------------------------|-----------|-----------|---------------------|-----------|-----------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                           | 6.7           | 1.1        | 15                 | 7                   | 88.8                       | 8.2                 | 7.6      | 690        | 500                      | 240       | 242       | 0.008     | 0.108     | 0.079               | 0.192    | 0.86  | 1.369                    | 0.04      | 0.029     | 1.623               | 1.034     | 2.544     | <b>46</b><br>Intermediate |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                          | 0             | 1          | 1.5                | 2                   | 3                          | 4                   | 5        | 6          | 7                        | 8         | 9         | 10        | 11        | 12                  | 13       | 14    | 15                       | 16        | 17        | 18                  | 19        | 20        | 21                        | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                           | 27            | 27         | 26                 | 25                  | 22                         | 16                  | 13       | 11         |                          |           |           |           |           |                     |          |       |                          |           |           |                     |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                             | 10            | 9.1        | 7.3                | 6.6                 | 0.6                        | 0.3                 | 0.2      | 0.2        |                          |           |           |           |           |                     |          |       |                          |           |           |                     |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidation: 32.8 |               |            |                    |                     | Blue-Green Dominance %: 75 |                     |          |            |                          | Notes:    |           |           |           |                     |          |       |                          |           |           |                     |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 54051       |               |            | Greens (#/L): 2154 |                     |                            | Diatoms (#/L): 4663 |          |            | Other algae (#/L): 10936 |           |           |           |           | Rotifers (#/L): 293 |          |       | Zooplankton (#/L): 170.9 |           |           | Plankton #/L: 72267 |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

# Clean Lakes Program Data Summary

2002

## Brookville Reservoir

County: **Union**

Sample Location: **Deep Hole**

Date: **7/23/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:                    |                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|--------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2002                 | 30.5          | 2.1        | 35           | 20                  | 117        | 8.3                     | 7.5        | 420            | 380        | 156       | 206         | 0.01               | 0.103     | 0.031    | 0.134      | 3.04            | 1.268     | 0.674     | 0.018     | 1.113              | 0.756     | 1.697     | <b>20</b><br><i>High</i> |                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21                       | 22                | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | 33  | 34  | 35  |     |     |
| Temp                 | 28            | 28         | 28           | 28                  | 28         | 27                      | 27         | 26             | 24         | 22        | 20          | 18                 | 17        | 16       | 16         | 16              | 15        | 15        | 15        | 15                 | 15        | 15        | 15                       | 15                | 15  | 15  | 14  | 14  | 14  | 13  | 13  |     |     |     |     |     |     |     |     |
| DO                   | 9             | 9.1        | 9.2          | 9                   | 8.8        | 7.7                     | 5.8        | 3.2            | 0.4        | 0.3       | 0.3         | 0.3                | 0.3       | 0.3      | 0.3        | 0.3             | 0.4       | 0.5       | 0.4       | 0.3                | 0.3       | 0.3       | 0.3                      | 0.3               | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| % Water Column Oxid: |               |            |              |                     | 20         | Blue-Green Dominance %: |            |                |            |           | 45          | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                          |                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Blue-greens (#/L):   |               |            | 197          | Greens (#/L):       |            |                         | 204        | Diatoms (#/L): |            |           | 14          | Other algae (#/L): |           |          | 14         | Rotifers (#/L): |           |           | 7         | Zooplankton (#/L): |           |           | 1                        | Plankton #/L: 437 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

## Brush Creek Reservoir

County: **Jennings**

Sample Location: **Deep Hole**

Date: **7/16/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:                            |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|----------------------------------|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
| 2002                 | 9.8           | 0.5        | 9.5          | 6                   | 126.9      | 8.7                     | 7.15       | 250            | 210        | 90        | 117         | 0.01               | 0.205     | 0.075    | 0.145      | 21.79           | 0.024     | 0.013     | 0.035     | 2.052              | 1.099     | 2.467     | <b>38</b><br><i>Intermediate</i> |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21                               | 22                 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |  |
| Temp                 | 30            | 28         | 27           | 26                  | 25         | 19                      | 15         | 13             | 13         |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                                  |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| DO                   | 15            | 15         | 10           | 1.2                 | 0.4        | 0.3                     | 0.3        | 0.3            | 0.2        |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                                  |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| % Water Column Oxid: |               |            |              |                     | 25.3       | Blue-Green Dominance %: |            |                |            |           | 51          | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                                  |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| Blue-greens (#/L):   |               |            | 1039         | Greens (#/L):       |            |                         | 60         | Diatoms (#/L): |            |           | 0           | Other algae (#/L): |           |          | 420        | Rotifers (#/L): |           |           | 420       | Zooplankton (#/L): |           |           | 102                              | Plankton #/L: 2041 |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |

## Cagles Mill (Cataract)

County: **Putnam**

Sample Location: **Deep Hole**

Date: **8/7/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:                    |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|--------------------------|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
| 2002                 | 11            | 0.8        | 12           | 9                   | 92.2       | 8.25                    | 7.4        | 295            | 358        | 104.5     | 146.5       | 0.008              | 0.243     | 0.041    | 0.255      | 12.48           | 0.013     | 0.013     | 0.018     | 1.311              | 0.662     | 1.834     | <b>23</b><br><i>High</i> |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21                       | 22                 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |  |
| Temp                 | 30            | 30         | 29           | 29                  | 29         | 29                      | 28         | 27             | 24         | 23        | 21          | 19                 | 18        |          |            |                 |           |           |           |                    |           |           |                          |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| DO                   | 7.3           | 7.2        | 7.1          | 6.9                 | 6.3        | 6.1                     | 0.4        | 0.3            | 0.3        | 0.3       | 0.3         | 0.3                | 0.3       |          |            |                 |           |           |           |                    |           |           |                          |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| % Water Column Oxid: |               |            |              |                     | 36.4       | Blue-Green Dominance %: |            |                |            |           | 38          | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                          |                    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| Blue-greens (#/L):   |               |            | 728          | Greens (#/L):       |            |                         | 52         | Diatoms (#/L): |            |           | 377         | Other algae (#/L): |           |          | 273        | Rotifers (#/L): |           |           | 494       | Zooplankton (#/L): |           |           | 14                       | Plankton #/L: 1937 |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |

# Clean Lakes Program Data Summary

2002

## Cedarville Reservoir

County: **Allen**

Sample Location: **Deep Hole**

Date: **8/13/2002**

| Year                          | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hypso | Cond - epi | Cond - hyp             | Alk - epi | Alk - hypso | SRP - epi            | SRP - hyp | TP - epi | TP - hypso             | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|-------------------------------|---------------|------------|-------------------|---------------------|----------------------------|--------------------|------------|------------|------------------------|-----------|-------------|----------------------|-----------|----------|------------------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                          | 4.6           | 0.4        | 5                 | 3.5                 | 126.8                      | 8.2                | 7.9        | 600        | 695                    | 162       | 241         | 0.011                | 0.024     | 0.189    | 0.186                  | 32.04 | 0.013     | 0.013              | 0.018     | 0.042     | 1.206     | 0.89      | <b>19</b><br>High |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                         | 0             | 1          | 1.5               | 2                   | 3                          | 4                  | 5          | 6          | 7                      | 8         | 9           | 10                   | 11        | 12       | 13                     | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                          | 27            | 26         | 26                | 26                  | 23                         | 23                 |            |            |                        |           |             |                      |           |          |                        |       |           |                    |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                            | 12            | 12         | 10                | 9.1                 | 4.2                        | 1.9                |            |            |                        |           |             |                      |           |          |                        |       |           |                    |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidation: 100 |               |            |                   |                     | Blue-Green Dominance %: 13 |                    |            |            |                        | Notes:    |             |                      |           |          |                        |       |           |                    |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 517        |               |            | Greens (#/L): 345 |                     |                            | Diatoms (#/L): 460 |            |            | Other algae (#/L): 402 |           |             | Rotifers (#/L): 2126 |           |          | Zooplankton (#/L): 6.7 |       |           | Plankton #/L: 3857 |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

## Chrisney

County: **Spencer**

Sample Location: **Deep Hole**

Date: **7/15/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)     | 1% Light Level (ft) | DO @5' (%)                 | pH - epi          | pH - hypso | Cond - epi | Cond - hyp             | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp         | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------------------|---------------|------------|------------------|---------------------|----------------------------|-------------------|------------|------------|------------------------|-----------|-------------|--------------------|-----------|----------|-------------------------|-------|-----------|-------------------|-----------|-----------|-----------|-----------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                           | 5.5           | 0.6        | 7                | 5                   | 40.5                       | 7.8               | 7.7        | 200        | 220                    | 51        | 99          | 0.013              | 0.013     | 0.078    | 0.55                    | 8.81  | 0.013     | 0.013             | 0.034     | 1.084     | 0.63      | 1.927     | <b>21</b><br>High |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                          | 0             | 1          | 1.5              | 2                   | 3                          | 4                 | 5          | 6          | 7                      | 8         | 9           | 10                 | 11        | 12       | 13                      | 14    | 15        | 16                | 17        | 18        | 19        | 20        | 21                | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                           | 28            | 28         | 28               | 27                  | 21                         | 17                |            |            |                        |           |             |                    |           |          |                         |       |           |                   |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                             | 6.6           | 6.2        | 3.6              | 0.8                 | 0.3                        | 0.3               |            |            |                        |           |             |                    |           |          |                         |       |           |                   |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxidation: 34.9 |               |            |                  |                     | Blue-Green Dominance %: 27 |                   |            |            |                        | Notes:    |             |                    |           |          |                         |       |           |                   |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 150         |               |            | Greens (#/L): 37 |                     |                            | Diatoms (#/L): 75 |            |            | Other algae (#/L): 150 |           |             | Rotifers (#/L): 37 |           |          | Zooplankton (#/L): 97.4 |       |           | Plankton #/L: 547 |           |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

## Clair

County: **Huntington**

Sample Location: **Deep Hole**

Date: **8/19/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)    | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hypso | Cond - epi | Cond - hyp             | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso             | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------------------|---------------|------------|-----------------|---------------------|----------------------------|--------------------|------------|------------|------------------------|-----------|-------------|---------------------|-----------|----------|------------------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                           | 16.5          | 1.6        | 26              | 16                  | 113                        | 8.4                | 7.6        | 660        | 530                    | 146       | 208         | 0.008               | 0.152     | 0.022    | 0.199                  | 6.5   | 0.294     | 0.186              | 0.038     | 1.19      | 0.651     | 1.65      | <b>28</b><br>Intermediate |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                          | 0             | 1          | 1.5             | 2                   | 3                          | 4                  | 5          | 6          | 7                      | 8         | 9           | 10                  | 11        | 12       | 13                     | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                        | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                           | 26            | 26         | 26              | 26                  | 26                         | 25                 | 22         | 16         | 11                     | 9.2       | 7.5         | 6.8                 | 6.3       | 6.1      | 6                      | 5.9   | 5.9       | 5.9                |           |           |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                             | 9.2           | 9.2        | 9.2             | 9.2                 | 9.1                        | 7.8                | 2.7        | 0.8        | 0.5                    | 0.4       | 0.4         | 0.3                 | 0.3       | 0.3      | 0.3                    | 0.3   | 0.3       | 0.3                | 0.3       | 0.3       | 0.3       | 0.3       | 0.3                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxidation: 31.3 |               |            |                 |                     | Blue-Green Dominance %: 64 |                    |            |            |                        | Notes:    |             |                     |           |          |                        |       |           |                    |           |           |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 2003        |               |            | Greens (#/L): 0 |                     |                            | Diatoms (#/L): 364 |            |            | Other algae (#/L): 108 |           |             | Rotifers (#/L): 632 |           |          | Zooplankton (#/L): 1.8 |       |           | Plankton #/L: 3108 |           |           |           |           |                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

# Clean Lakes Program Data Summary

2002

| Clear                |               |            | County: <b>Steuben</b> |                     |            |          |          |               |            |           |           |           |                         |          |          |       |           |                |           |           | Sample Location: <b>Deep Hole</b> |           |           |     |     | Date: <b>7/2/2002</b> |     |                    |     |     |     |     |    |    |                 |    |    |  |  |    |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |      |  |  |  |  |
|----------------------|---------------|------------|------------------------|---------------------|------------|----------|----------|---------------|------------|-----------|-----------|-----------|-------------------------|----------|----------|-------|-----------|----------------|-----------|-----------|-----------------------------------|-----------|-----------|-----|-----|-----------------------|-----|--------------------|-----|-----|-----|-----|----|----|-----------------|----|----|--|--|----|--|--|--|--|--------------------|--|--|--|--|------|--|--|--|--|---------------|--|------|--|--|--|--|
| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%)           | 1% Light Level (ft) | DO @5' (%) | pH - epi | pH - hyp | Cond - epi    | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp               | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp      | NH3 - epi | NH3 - hyp | TKN - epi                         | TKN - hyp | ITSI:     |     |     |                       |     |                    |     |     |     |     |    |    |                 |    |    |  |  |    |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |      |  |  |  |  |
| 2002                 | 32.3          | 6          | 50                     | 40                  | 109.1      | 8.3      | 7.7      | 355           | 271        | 123       | 133       | 0.008     | 0.013                   | 0.02     | 0.023    | 0.41  | 0.013     | 0.21           | 0.145     | 0.072     | 0.785                             | 0.592     | <b>14</b> |     |     |                       |     |                    |     |     |     |     |    |    |                 |    |    |  |  |    |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |      |  |  |  |  |
|                      |               |            |                        |                     |            |          |          |               |            |           |           |           |                         |          |          |       |           |                |           |           |                                   |           | High      |     |     |                       |     |                    |     |     |     |     |    |    |                 |    |    |  |  |    |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |      |  |  |  |  |
| Depth                | 0             | 1          | 1.5                    | 2                   | 3          | 4        | 5        | 6             | 7          | 8         | 9         | 10        | 11                      | 12       | 13       | 14    | 15        | 16             | 17        | 18        | 19                                | 20        | 21        | 22  | 23  | 24                    | 25  | 26                 | 27  | 28  | 29  | 30  | 31 | 32 | 33              | 34 | 35 |  |  |    |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |      |  |  |  |  |
| Temp                 | 28            | 28         | 28                     | 27                  | 27         | 26       | 22       | 19            | 17         | 14        | 13        | 13        | 12                      | 11       | 10       | 9.9   | 9.7       | 8.9            | 8.6       | 8.2       | 7.8                               | 7.6       | 7.6       | 7.5 | 7.5 | 7.4                   | 7.4 | 7.4                | 7.3 | 7.3 | 7.2 | 7.2 |    |    |                 |    |    |  |  |    |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |      |  |  |  |  |
| DO                   | 8.6           | 8.6        | 8.6                    | 8.6                 | 8.7        | 8.3      | 9.9      | 8.7           | 9.2        | 9.4       | 8.9       | 8.6       | 7.8                     | 7.3      | 7.1      | 6.8   | 6.6       | 6.2            | 6.1       | 5.8       | 5.5                               | 5.2       | 5.5       | 5.5 | 5.6 | 5.4                   | 5.1 | 5                  | 4.8 | 4.7 | 4.5 | 4.2 |    |    |                 |    |    |  |  |    |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |      |  |  |  |  |
| % Water Column Oxid: |               |            | 93.8                   |                     |            |          |          |               |            |           |           |           | Blue-Green Dominance %: |          |          |       |           | 77             |           |           |                                   |           | Notes:    |     |     |                       |     |                    |     |     |     |     |    |    |                 |    |    |  |  |    |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |      |  |  |  |  |
| Blue-greens (#/L):   |               |            | 1484                   |                     |            |          |          | Greens (#/L): |            |           |           |           | 73                      |          |          |       |           | Diatoms (#/L): |           |           |                                   |           | 153       |     |     |                       |     | Other algae (#/L): |     | 145 |     |     |    |    | Rotifers (#/L): |    |    |  |  | 48 |  |  |  |  | Zooplankton (#/L): |  |  |  |  | 25.9 |  |  |  |  | Plankton #/L: |  | 1929 |  |  |  |  |

| Crooked              |               |            | County: <b>Steuben</b> |                     |            |          |          |               |            |           |           |           |                         |          |          |       |           |                |           |           | Sample Location: <b>Deep Hole</b> |           |           |     |     | Date: <b>7/30/2002</b> |     |                    |     |      |     |     |     |     |                 |     |     |     |     |     |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |       |  |  |  |  |
|----------------------|---------------|------------|------------------------|---------------------|------------|----------|----------|---------------|------------|-----------|-----------|-----------|-------------------------|----------|----------|-------|-----------|----------------|-----------|-----------|-----------------------------------|-----------|-----------|-----|-----|------------------------|-----|--------------------|-----|------|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|--|--|--|--|--------------------|--|--|--|--|------|--|--|--|--|---------------|--|-------|--|--|--|--|
| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%)           | 1% Light Level (ft) | DO @5' (%) | pH - epi | pH - hyp | Cond - epi    | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp               | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp      | NH3 - epi | NH3 - hyp | TKN - epi                         | TKN - hyp | ITSI:     |     |     |                        |     |                    |     |      |     |     |     |     |                 |     |     |     |     |     |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |       |  |  |  |  |
| 2002                 | 25.9          | 2.5        | 69                     | 23                  | 99.5       | 8.15     | 7.3      | 400           | 185        | 129       | 158       | 0.008     | 0.171                   | 0.016    | 0.204    | 0.3   | 0.013     | 0.013          | 0.018     | 0.993     | 0.839                             | 1.908     | <b>18</b> |     |     |                        |     |                    |     |      |     |     |     |     |                 |     |     |     |     |     |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |       |  |  |  |  |
|                      |               |            |                        |                     |            |          |          |               |            |           |           |           |                         |          |          |       |           |                |           |           |                                   |           | High      |     |     |                        |     |                    |     |      |     |     |     |     |                 |     |     |     |     |     |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |       |  |  |  |  |
| Depth                | 0             | 1          | 1.5                    | 2                   | 3          | 4        | 5        | 6             | 7          | 8         | 9         | 10        | 11                      | 12       | 13       | 14    | 15        | 16             | 17        | 18        | 19                                | 20        | 21        | 22  | 23  | 24                     | 25  | 26                 | 27  | 28   | 29  | 30  | 31  | 32  | 33              | 34  | 35  |     |     |     |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |       |  |  |  |  |
| Temp                 | 26            | 26         | 26                     | 26                  | 26         | 26       | 25       | 20            | 16         | 15        | 13        | 13        | 12                      | 11       | 9.4      | 8.1   | 7.6       | 7.4            | 7.3       | 7         | 6.8                               | 6.6       | 6.5       | 6.4 | 6.4 | 6.4                    | 6.4 |                    |     |      |     |     |     |     |                 |     |     |     |     |     |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |       |  |  |  |  |
| DO                   | 8.1           | 8.1        | 8                      | 8.1                 | 8          | 8        | 6.6      | 3.1           | 0.4        | 0.3       | 0.3       | 0.3       | 0.2                     | 0.2      | 0.2      | 0.2   | 0.2       | 0.2            | 0.2       | 0.2       | 0.2                               | 0.2       | 0.2       | 0.2 | 0.2 | 0.2                    | 0.2 | 0.2                | 0.2 | 0.2  | 0.2 | 0.2 | 0.2 | 0.2 | 0.2             | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |       |  |  |  |  |
| % Water Column Oxid: |               |            | 23.4                   |                     |            |          |          |               |            |           |           |           | Blue-Green Dominance %: |          |          |       |           | 20             |           |           |                                   |           | Notes:    |     |     |                        |     |                    |     |      |     |     |     |     |                 |     |     |     |     |     |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |       |  |  |  |  |
| Blue-greens (#/L):   |               |            | 2218                   |                     |            |          |          | Greens (#/L): |            |           |           |           | 216                     |          |          |       |           | Diatoms (#/L): |           |           |                                   |           | 5195      |     |     |                        |     | Other algae (#/L): |     | 3082 |     |     |     |     | Rotifers (#/L): |     |     |     |     | 157 |  |  |  |  | Zooplankton (#/L): |  |  |  |  | 45.5 |  |  |  |  | Plankton #/L: |  | 10914 |  |  |  |  |

| Crosley              |               |            | County: <b>Jennings</b> |                     |            |          |          |               |            |           |           |           |                         |          |          |       |           |                |           |           | Sample Location: <b>Deep Hole</b> |           |          |    |    | Date: <b>7/16/2002</b> |    |                    |    |       |    |    |    |    |                 |    |    |  |  |      |  |  |  |  |                    |  |  |  |  |     |  |  |  |  |               |  |       |  |  |  |  |
|----------------------|---------------|------------|-------------------------|---------------------|------------|----------|----------|---------------|------------|-----------|-----------|-----------|-------------------------|----------|----------|-------|-----------|----------------|-----------|-----------|-----------------------------------|-----------|----------|----|----|------------------------|----|--------------------|----|-------|----|----|----|----|-----------------|----|----|--|--|------|--|--|--|--|--------------------|--|--|--|--|-----|--|--|--|--|---------------|--|-------|--|--|--|--|
| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%)            | 1% Light Level (ft) | DO @5' (%) | pH - epi | pH - hyp | Cond - epi    | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp               | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp      | NH3 - epi | NH3 - hyp | TKN - epi                         | TKN - hyp | ITSI:    |    |    |                        |    |                    |    |       |    |    |    |    |                 |    |    |  |  |      |  |  |  |  |                    |  |  |  |  |     |  |  |  |  |               |  |       |  |  |  |  |
| 2002                 | 6.1           | 2.2        | 47                      | 12.1                | 106.2      | 8.1      | 7.35     | 320           | 370        | 87        | 121       | 0.005     | 0.015                   | 0.024    | 0.054    |       | 0.013     | 0.013          | 0.164     | 0.368     | 0.44                              | 1.009     | <b>9</b> |    |    |                        |    |                    |    |       |    |    |    |    |                 |    |    |  |  |      |  |  |  |  |                    |  |  |  |  |     |  |  |  |  |               |  |       |  |  |  |  |
|                      |               |            |                         |                     |            |          |          |               |            |           |           |           |                         |          |          |       |           |                |           |           |                                   |           | High     |    |    |                        |    |                    |    |       |    |    |    |    |                 |    |    |  |  |      |  |  |  |  |                    |  |  |  |  |     |  |  |  |  |               |  |       |  |  |  |  |
| Depth                | 0             | 1          | 1.5                     | 2                   | 3          | 4        | 5        | 6             | 7          | 8         | 9         | 10        | 11                      | 12       | 13       | 14    | 15        | 16             | 17        | 18        | 19                                | 20        | 21       | 22 | 23 | 24                     | 25 | 26                 | 27 | 28    | 29 | 30 | 31 | 32 | 33              | 34 | 35 |  |  |      |  |  |  |  |                    |  |  |  |  |     |  |  |  |  |               |  |       |  |  |  |  |
| Temp                 | 28            | 27         | 26                      | 25                  | 19         | 12       | 9.4      | 8.6           |            |           |           |           |                         |          |          |       |           |                |           |           |                                   |           |          |    |    |                        |    |                    |    |       |    |    |    |    |                 |    |    |  |  |      |  |  |  |  |                    |  |  |  |  |     |  |  |  |  |               |  |       |  |  |  |  |
| DO                   | 8.1           | 8.4        | 8.6                     | 10                  | 5.4        | 0.5      | 0.4      | 0.3           |            |           |           |           |                         |          |          |       |           |                |           |           |                                   |           |          |    |    |                        |    |                    |    |       |    |    |    |    |                 |    |    |  |  |      |  |  |  |  |                    |  |  |  |  |     |  |  |  |  |               |  |       |  |  |  |  |
| % Water Column Oxid: |               |            | 49.2                    |                     |            |          |          |               |            |           |           |           | Blue-Green Dominance %: |          |          |       |           | 27             |           |           |                                   |           | Notes:   |    |    |                        |    |                    |    |       |    |    |    |    |                 |    |    |  |  |      |  |  |  |  |                    |  |  |  |  |     |  |  |  |  |               |  |       |  |  |  |  |
| Blue-greens (#/L):   |               |            | 4446                    |                     |            |          |          | Greens (#/L): |            |           |           |           | 528                     |          |          |       |           | Diatoms (#/L): |           |           |                                   |           | 0        |    |    |                        |    | Other algae (#/L): |    | 10516 |    |    |    |    | Rotifers (#/L): |    |    |  |  | 1177 |  |  |  |  | Zooplankton (#/L): |  |  |  |  | 428 |  |  |  |  | Plankton #/L: |  | 16710 |  |  |  |  |

# Clean Lakes Program Data Summary

2002

## Eagle Creek Reservoir

County: **Marion**

Sample Location: **Deep Hole**

Date: **8/14/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                     |                    |    |    |    |    |      |               |    |    |    |    |     |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|---------------------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|-----|----|----|--|--|
| 2002                 | 12.2          | 1.1        | 22           | 9                   | 90.8       | 8.1                     | 7.3        | 380            | 355        | 120       | 177         | 0.008              | 0.26      | 0.062    | 0.368      | 1.91  | 1.023     | 0.013           | 0.066     | 2.614     | 1.012     | 2.849     | <b>27</b><br>Intermediate |                    |    |    |    |    |      |               |    |    |    |    |     |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21                        | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33  | 34 | 35 |  |  |
| Temp                 | 26            | 26         | 26           | 26                  | 26         | 26                      | 25         | 24             | 20         | 17        | 16          | 15                 | 15        | 14       |            |       |           |                 |           |           |           |           |                           |                    |    |    |    |    |      |               |    |    |    |    |     |    |    |  |  |
| DO                   | 7.4           | 7.3        | 7.3          | 7.3                 | 5          | 3.3                     | 1.1        | 0.4            | 0.3        | 0.3       | 0.3         | 0.3                | 0.3       | 0.3      |            |       |           |                 |           |           |           |           |                           |                    |    |    |    |    |      |               |    |    |    |    |     |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 40         | Blue-Green Dominance %: |            |                |            |           | 25          | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 228                       | Zooplankton (#/L): |    |    |    |    | 10.7 | Plankton #/L: |    |    |    |    | 558 |    |    |  |  |
| Blue-greens (#/L):   |               |            | 137          | Greens (#/L):       |            |                         | 0          | Diatoms (#/L): |            |           | 106         | Other algae (#/L): |           |          | 76         |       |           |                 |           |           |           |           |                           |                    |    |    |    |    |      |               |    |    |    |    |     |    |    |  |  |

## Elk Creek #9

County: **Washington**

Sample Location: **Deep Hole**

Date: **7/15/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:             |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|-------------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|-------|----|----|--|--|
| 2002                 | 6.1           | 2.5        | 42           | 13                  | 137.4      | 8.6                     | 7          | 145            | 125        | 38        | 41          | 0.007              | 0.012     | 0.027    | 0.03       | 6.31  | 0.013     | 0.067           | 0.039     | 0.294     | 0.403     | 0.534     | <b>20</b><br>High |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21                | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33    | 34 | 35 |  |  |
| Temp                 | 30            | 29         | 28           | 28                  | 27         | 22                      | 18         | 15             |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           |                   |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |
| DO                   | 9.9           | 11         | 11           | 10                  | 8.3        | 4.5                     | 1.2        | 0.3            |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           |                   |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 82         | Blue-Green Dominance %: |            |                |            |           | 96          | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 135               | Zooplankton (#/L): |    |    |    |    | 26.4 | Plankton #/L: |    |    |    |    | 31062 |    |    |  |  |
| Blue-greens (#/L):   |               |            | 29958        | Greens (#/L):       |            |                         | 202        | Diatoms (#/L): |            |           | 0           | Other algae (#/L): |           |          | 741        |       |           |                 |           |           |           |           |                   |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |

## Everett

County: **Allen**

Sample Location: **Deep Hole**

Date: **8/13/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                     |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|---------------------------|--------------------|----|----|----|----|-------|---------------|----|----|----|----|-------|----|----|--|--|
| 2002                 | 13.4          | 1.2        | 30           | 11                  | 112.3      | 8.4                     | 7.3        | 430            | 360        | 141       | 220         | 0.005              | 0.825     | 0.034    | 0.819      | 7.59  | 0.027     | 0.025           | 0.031     | 3.96      | 1.557     | 5.771     | <b>42</b><br>Intermediate |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21                        | 22                 | 23 | 24 | 25 | 26 | 27    | 28            | 29 | 30 | 31 | 32 | 33    | 34 | 35 |  |  |
| Temp                 | 27            | 27         | 27           | 27                  | 25         | 21                      | 12         | 9.1            | 8.1        | 7.1       | 6.9         | 6.7                | 6.5       | 6.4      |            |       |           |                 |           |           |           |           |                           |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
| DO                   | 9.5           | 9.4        | 8.9          | 8.4                 | 2.6        | 0.4                     | 0.3        | 0.3            | 0.3        | 0.3       | 0.3         | 0.3                | 0.3       | 0.2      |            |       |           |                 |           |           |           |           |                           |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 22.9       | Blue-Green Dominance %: |            |                |            |           | 90          | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 198                       | Zooplankton (#/L): |    |    |    |    | 112.4 | Plankton #/L: |    |    |    |    | 17155 |    |    |  |  |
| Blue-greens (#/L):   |               |            | 15436        | Greens (#/L):       |            |                         | 506        | Diatoms (#/L): |            |           | 220         | Other algae (#/L): |           |          | 683        |       |           |                 |           |           |           |           |                           |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |



# Clean Lakes Program Data Summary

2002

**Fish** County: **Steuben** Sample Location: **Deep Hole** Date: **7/2/2002**

| Year  | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|-------|---------------|------------|--------------|---------------------|------------|----------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002  | 7.6           | 2.8        | 33           | 8                   | 142.2      | 8.3      | 10.2       | 435        | 325        | 180       | 206         | 0.006     | 0.36      | 0.037    | 0.42       | 6.02  | 0.013     | 0.013     | 0.07      | 1.586     | 1.28      | 3.171     | <b>53</b><br>Low |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth | 0             | 1          | 1.5          | 2                   | 3          | 4        | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16        | 17        | 18        | 19        | 20        | 21               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp  | 30            | 30         | 28           | 25                  | 17         | 14       | 12         | 11         | 11         |           |             |           |           |          |            |       |           |           |           |           |           |           |                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO    | 9.1           | 9.1        | 12           | 15                  | 0.7        | 0.4      | 0.3        | 0.3        | 0.3        |           |             |           |           |          |            |       |           |           |           |           |           |           |                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

% Water Column Oxid: 26.2      Blue-Green Dominance %: 95      Notes:

Blue-greens (#/L): 443951      Greens (#/L): 1344      Diatoms (#/L): 112      Other algae (#/L): 20332      Rotifers (#/L): 112      Zooplankton (#/L): 113.8      Plankton #/L: 465966

**Fox** County: **Steuben** Sample Location: **Deep Hole** Date: **8/12/2002**

| Year  | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|-------|---------------|------------|--------------|---------------------|------------|----------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002  | 17.4          | 3.7        | 65           | 23                  | 84.3       | 8.3      | 7.6        | 500        | 410        | 135       | 171         | 0.005     | 0.073     | 0.014    | 0.093      | 0.29  | 0.013     | 0.013     | 0.457     | 2.086     | 0.719     | 2.021     | <b>22</b><br>High |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth | 0             | 1          | 1.5          | 2                   | 3          | 4        | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16        | 17        | 18        | 19        | 20        | 21                | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp  | 27            | 27         | 27           | 27                  | 26         | 26       | 24         | 18         | 14         | 12        | 10          | 9         | 8.4       | 8        | 7.8        | 7.6   | 7.5       | 7.5       | 7.4       |           |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO    | 6.8           | 6.8        | 6.8          | 6.7                 | 6.8        | 6.8      | 9.5        | 6.8        | 2.4        | 0.6       | 0.7         | 0.4       | 0.3       | 0.3      | 0.3        | 0.3   | 0.3       | 0.3       | 0.3       | 0.3       |           |           |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

% Water Column Oxid: 40.3      Blue-Green Dominance %: 95      Notes:

Blue-greens (#/L): 2807      Greens (#/L): 13      Diatoms (#/L): 13      Other algae (#/L): 59      Rotifers (#/L): 33      Zooplankton (#/L): 17.2      Plankton #/L: 2943

**Gage** County: **Steuben** Sample Location: **Deep Hole** Date: **7/2/2002**

| Year  | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|-------|---------------|------------|--------------|---------------------|------------|----------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002  | 20.1          | 2          | 47           | 28                  | 106.5      | 8.3      | 7.8        | 445        | 340        | 138       | 157         | 0.008     | 0.006     | 0.02     | 0.027      | 2.05  | 0.276     | 0.199     | 0.06      | 0.439     | 0.557     | 0.999     | <b>4</b><br>High |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth | 0             | 1          | 1.5          | 2                   | 3          | 4        | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16        | 17        | 18        | 19        | 20        | 21               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp  | 28            | 28         | 28           | 28                  | 28         | 28       | 19         | 17         | 15         | 13        | 12          | 11        | 11        | 9.8      | 9.3        | 8.6   | 8.1       | 7.7       | 7.6       | 7.4       | 7.2       | 7.3       |                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO    | 8.3           | 8.3        | 8.3          | 8.3                 | 8.3        | 8.3      | 13         | 14         | 12         | 10        | 9.3         | 8.1       | 7.3       | 6.4      | 5.5        | 4.7   | 3.8       | 3.4       | 3.3       | 2.3       | 1.3       | 0.3       |                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

% Water Column Oxid: 94.4      Blue-Green Dominance %: 36      Notes:

Blue-greens (#/L): 257      Greens (#/L): 144      Diatoms (#/L): 157      Other algae (#/L): 50      Rotifers (#/L): 85      Zooplankton (#/L): 24      Plankton #/L: 716

# Clean Lakes Program Data Summary

2002

## Geist Reservoir

County: **Marion**

Sample Location: **Deep Hole**

Date: **8/14/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:        |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |      |                    |  |  |  |  |       |               |  |  |  |  |      |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|-----------|-----------|----------|----------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|--------------|---------------|----|----|----|----|-----|----------------|----|----|----|----|-----|--------------------|----|--|--|--|-----|-----------------|--|--|--|--|------|--------------------|--|--|--|--|-------|---------------|--|--|--|--|------|
| 2002                 | 6.7           | 0.3        | 1            | 3                   | 76.3       | 8.1                     | 8        | 650        | 650        | 196       | 200       | 0.024     | 0.026     | 0.185    | 0.183    | 46.26 | 0.023     | 0.031              | 0.026     | 0.049     | 1.239     | 1.028     | 28           |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |      |                    |  |  |  |  |       |               |  |  |  |  |      |
|                      |               |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |       |           |                    |           |           |           |           | Intermediate |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |      |                    |  |  |  |  |       |               |  |  |  |  |      |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5        | 6          | 7          | 8         | 9         | 10        | 11        | 12       | 13       | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21           | 22            | 23 | 24 | 25 | 26 | 27  | 28             | 29 | 30 | 31 | 32 | 33  | 34                 | 35 |  |  |  |     |                 |  |  |  |  |      |                    |  |  |  |  |       |               |  |  |  |  |      |
| Temp                 | 26            | 26         | 26           | 26                  | 26         | 26                      | 26       | 26         |            |           |           |           |           |          |          |       |           |                    |           |           |           |           |              |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |      |                    |  |  |  |  |       |               |  |  |  |  |      |
| DO                   | 7.0           | 6.6        | 6.2          | 6.1                 | 5.9        | 5.6                     | 5.6      | 5.3        |            |           |           |           |           |          |          |       |           |                    |           |           |           |           |              |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |      |                    |  |  |  |  |       |               |  |  |  |  |      |
| % Water Column Oxid: |               |            |              |                     | 100        | Blue-Green Dominance %: |          |            |            |           | 65        | Notes:    |           |          |          |       |           | Blue-greens (#/L): |           |           |           |           | 4426         | Greens (#/L): |    |    |    |    | 203 | Diatoms (#/L): |    |    |    |    | 447 | Other algae (#/L): |    |  |  |  | 487 | Rotifers (#/L): |  |  |  |  | 1096 | Zooplankton (#/L): |  |  |  |  | 176.9 | Plankton #/L: |  |  |  |  | 6836 |

## George

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/8/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI: |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |     |               |  |  |  |  |      |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|-----------|-----------|----------|----------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|-------|---------------|----|----|----|----|-----|----------------|----|----|----|----|-----|--------------------|----|--|--|--|-----|-----------------|--|--|--|--|-----|--------------------|--|--|--|--|-----|---------------|--|--|--|--|------|
| 2002                 | 24.4          | 2.5        | 55           | 32                  | 105.3      | 8.4                     | 7.7      | 440        | 365        | 158       | 166       | 0.012     | 0.01      | 0.042    | 0.053    | 0.47  | 0.013     | 0.101              | 0.09      | 0.391     | 0.782     | 0.78      | 16    |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |     |               |  |  |  |  |      |
|                      |               |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |       |           |                    |           |           |           |           | High  |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |     |               |  |  |  |  |      |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5        | 6          | 7          | 8         | 9         | 10        | 11        | 12       | 13       | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21    | 22            | 23 | 24 | 25 | 26 | 27  | 28             | 29 | 30 | 31 | 32 | 33  | 34                 | 35 |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |     |               |  |  |  |  |      |
| Temp                 | 28            | 28         | 28           | 28                  | 27         | 26                      | 22       | 19         | 16         | 14        | 13        | 12        | 11        | 9.5      | 7.8      | 7.5   | 7.2       | 7                  | 6.9       | 6.7       | 6.7       |           |       |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |     |               |  |  |  |  |      |
| DO                   | 8.2           | 8.2        | 8.2          | 8.3                 | 7.8        | 7.2                     | 6.7      | 7.6        | 7.9        | 7.7       | 6.8       | 6.7       | 6.3       | 6.1      | 5.6      | 5.2   | 5         | 4.7                | 3.6       | 1.1       | 0.4       |           |       |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |     |               |  |  |  |  |      |
| % Water Column Oxid: |               |            |              |                     | 92.3       | Blue-Green Dominance %: |          |            |            |           | 61        | Notes:    |           |          |          |       |           | Blue-greens (#/L): |           |           |           |           | 1867  | Greens (#/L): |    |    |    |    | 379 | Diatoms (#/L): |    |    |    |    | 324 | Other algae (#/L): |    |  |  |  | 366 | Rotifers (#/L): |  |  |  |  | 144 | Zooplankton (#/L): |  |  |  |  | 8.6 | Plankton #/L: |  |  |  |  | 3087 |

## Glen Flint

County: **Putnam**

Sample Location: **Deep Hole**

Date: **8/7/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:        |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|-----------|-----------|----------|----------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|--------------|---------------|----|----|----|----|----|----------------|----|----|----|----|-----|--------------------|----|--|--|--|------|-----------------|--|--|--|--|-----|--------------------|--|--|--|--|------|---------------|--|--|--|--|-------|
| 2002                 | 11            | 0.6        | 10           | 7                   | 120.7      | 8.3                     | 7.5      | 223        | 275        | 100       | 135       | 0.008     | 0.024     | 0.084    | 0.087    | 0.81  | 0.013     | 0.013              | 0.018     | 1.27      | 0.834     | 1.652     | 34           |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
|                      |               |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |       |           |                    |           |           |           |           | Intermediate |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5        | 6          | 7          | 8         | 9         | 10        | 11        | 12       | 13       | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21           | 22            | 23 | 24 | 25 | 26 | 27 | 28             | 29 | 30 | 31 | 32 | 33  | 34                 | 35 |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
| Temp                 | 29            | 29         | 29           | 29                  | 29         | 29                      | 24       | 20         | 18         | 16        | 15        | 15        |           |          |          |       |           |                    |           |           |           |           |              |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
| DO                   | 9.4           | 9.4        | 9.3          | 9.3                 | 9.3        | 9.2                     | 0.5      | 0.4        | 0.4        | 0.4       | 0.4       | 0.3       |           |          |          |       |           |                    |           |           |           |           |              |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
| % Water Column Oxid: |               |            |              |                     | 36.4       | Blue-Green Dominance %: |          |            |            |           | 83        | Notes:    |           |          |          |       |           | Blue-greens (#/L): |           |           |           |           | 10665        | Greens (#/L): |    |    |    |    | 17 | Diatoms (#/L): |    |    |    |    | 509 | Other algae (#/L): |    |  |  |  | 1322 | Rotifers (#/L): |  |  |  |  | 305 | Zooplankton (#/L): |  |  |  |  | 41.8 | Plankton #/L: |  |  |  |  | 10665 |

# Clean Lakes Program Data Summary

2002

## Golden

County: **Steuben**

Sample Location: **Deep Hole**

Date: **8/6/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi      | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                   |                    |    |    |    |    |      |               |    |    |    |    |        |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|----------------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|-------------------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|--------|----|----|--|--|
| 2002                 | 8.23          | 1.1        | 39           | 10                  | 129.2      | 8.18                    | 7.5        | 740        | 454        | 187.5     | 240         | 0.005          | 0.248     | 0.059    | 0.146      | 7.47  | 0.013     | 0.013              | 0.018     | 2.224     | 1.381     | 2.981     | <b>58</b><br><i>Low</i> |                    |    |    |    |    |      |               |    |    |    |    |        |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10             | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                      | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33     | 34 | 35 |  |  |
| Temp                 | 27            | 27         | 27           | 27                  | 25         | 22                      | 18         | 16         | 12         | 11        |             |                |           |          |            |       |           |                    |           |           |           |           |                         |                    |    |    |    |    |      |               |    |    |    |    |        |    |    |  |  |
| DO                   | 10            | 10         | 10           | 10                  | 0.7        | 0.4                     | 0.4        | 0.3        | 0.3        | 0.3       |             |                |           |          |            |       |           |                    |           |           |           |           |                         |                    |    |    |    |    |      |               |    |    |    |    |        |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 24.3       | Blue-Green Dominance %: |            |            |            |           | 94          | Notes:         |           |          |            |       |           | Rotifers (#/L):    |           |           |           |           | 173                     | Zooplankton (#/L): |    |    |    |    | 97.4 | Plankton #/L: |    |    |    |    | 200363 |    |    |  |  |
| Blue-greens (#/L):   |               |            |              |                     | 187533     | Greens (#/L):           |            |            |            |           | 2252        | Diatoms (#/L): |           |          |            |       | 5804      | Other algae (#/L): |           |           |           |           | 4504                    |                    |    |    |    |    |      |               |    |    |    |    |        |    |    |  |  |

## Green

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/29/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi      | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                   |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|----------------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|-------------------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|------|----|----|--|--|--|
| 2002                 | 8.2           | 2.6        | 34           | 11                  | 99.9       | 8.2                     |            | 500        |            | 142       |             | 0.011          |           | 0.1      |            | 2.56  | 0.013     |                    | 0.018     |           | 0.717     |           | <b>8</b><br><i>High</i> |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10             | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                      | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33   | 34 | 35 |  |  |  |
| Temp                 | 27            | 27         | 27           | 27                  | 26         |                         |            |            |            |           |             |                |           |          |            |       |           |                    |           |           |           |           |                         |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |
| DO                   | 8.1           | 8          | 8            | 7.9                 | 7.3        |                         |            |            |            |           |             |                |           |          |            |       |           |                    |           |           |           |           |                         |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |
| % Water Column Oxid: |               |            |              |                     | 100        | Blue-Green Dominance %: |            |            |            |           | 37          | Notes:         |           |          |            |       |           | Rotifers (#/L):    |           |           |           |           | 380                     | Zooplankton (#/L): |    |    |    |    | 25.5 | Plankton #/L: |    |    |    |    | 2635 |    |    |  |  |  |
| Blue-greens (#/L):   |               |            |              |                     | 968        | Greens (#/L):           |            |            |            |           | 363         | Diatoms (#/L): |           |          |            |       | 397       | Other algae (#/L): |           |           |           |           | 501                     |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |

## Grouse Ridge

County: **Bartholomew**

Sample Location: **Deep Hole**

Date: **7/16/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi      | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                    |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|----------------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|--------------------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|-------|----|----|--|--|--|
| 2002                 | 7             | 3.4        | 27           | 16                  | 101.5      | 8.2                     | 7.5        | 130        | 135        | 47        | 74          | 0.013          | 0.027     | 0.027    | 0.075      | 0.3   | 0.013     | 0.013              | 0.045     | 0.074     | 0.335     | 0.823     | <b>21</b><br><i>High</i> |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10             | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                       | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33    | 34 | 35 |  |  |  |
| Temp                 | 30            | 29         | 29           | 27                  | 27         | 22                      | 15         | 11         |            |           |             |                |           |          |            |       |           |                    |           |           |           |           |                          |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |  |
| DO                   | 8.1           | 7.9        | 7.9          | 7                   | 7.1        | 10                      | 3.9        | 0.4        |            |           |             |                |           |          |            |       |           |                    |           |           |           |           |                          |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |  |
| % Water Column Oxid: |               |            |              |                     | 71.1       | Blue-Green Dominance %: |            |            |            |           | 85          | Notes:         |           |          |            |       |           | Rotifers (#/L):    |           |           |           |           | 761                      | Zooplankton (#/L): |    |    |    |    | 54.4 | Plankton #/L: |    |    |    |    | 16009 |    |    |  |  |  |
| Blue-greens (#/L):   |               |            |              |                     | 13609      | Greens (#/L):           |            |            |            |           | 471         | Diatoms (#/L): |           |          |            |       | 80        | Other algae (#/L): |           |           |           |           | 1033                     |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |  |  |

# Clean Lakes Program Data Summary

2002

## Hamilton

County: **Steuben**

Sample Location: **Deep Hole**

Date: **8/5/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hypso | Cond - epi | Cond - hyp             | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|---------------------------|---------------|------------|-------------------|---------------------|----------------------------|--------------------|------------|------------|------------------------|-----------|-------------|---------------------|-----------|----------|-------------------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                      | 21.3          | 1.5        | 25                | 4.27                | 98                         | 8.4                | 8.4        | 370        | 295                    | 135       | 177         | 0.005               | 0.15      | 0.043    | 0.232                   | 3.79  | 0.013     | 0.024              | 0.031     | 1.027     | 1.068     | 1.723     | <b>36</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                     | 0             | 1          | 1.5               | 2                   | 3                          | 4                  | 5          | 6          | 7                      | 8         | 9           | 10                  | 11        | 12       | 13                      | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                      | 28            | 28         | 28                | 28                  | 28                         | 26                 | 24         | 19         | 15                     | 13        | 12          | 11                  | 11        | 10       | 9.8                     | 9.4   | 8.7       | 8.1                | 7.8       | 7.6       | 7.5       | 7.2       |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                        | 7.6           | 7.6        | 7.6               | 7.6                 | 6.9                        | 5.7                | 2.3        | 0.4        | 0.4                    | 0.3       | 0.3         | 0.3                 | 0.3       | 0.3      | 0.3                     | 0.3   | 0.3       | 0.3                | 0.3       | 0.3       | 0.3       | 0.3       |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxid: 24.5 |               |            |                   |                     | Blue-Green Dominance %: 70 |                    |            |            |                        | Notes:    |             |                     |           |          |                         |       |           |                    |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 5258   |               |            | Greens (#/L): 600 |                     |                            | Diatoms (#/L): 314 |            |            | Other algae (#/L): 886 |           |             | Rotifers (#/L): 372 |           |          | Zooplankton (#/L): 77.6 |       |           | Plankton #/L: 7508 |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

## Henry

County: **Steuben**

Sample Location: **Deep Hole**

Date: **8/12/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)       | 1% Light Level (ft) | DO @5' (%)                 | pH - epi            | pH - hypso | Cond - epi | Cond - hyp              | Alk - epi | Alk - hypso | SRP - epi            | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp            | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|---------------------------|---------------|------------|--------------------|---------------------|----------------------------|---------------------|------------|------------|-------------------------|-----------|-------------|----------------------|-----------|----------|-------------------------|-------|-----------|----------------------|-----------|-----------|-----------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                      | 6.1           | 1.3        | 47                 | 9.8                 | 134.5                      | 8.3                 | 7.5        | 510        | 500                     | 189       | 239         | 0.008                | 0.008     | 0.078    | 0.084                   | 13.64 | 0.136     | 0.05                 | 0.018     | 0.274     | 0.82      | 1.612     | <b>50</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                     | 0             | 1          | 1.5                | 2                   | 3                          | 4                   | 5          | 6          | 7                       | 8         | 9           | 10                   | 11        | 12       | 13                      | 14    | 15        | 16                   | 17        | 18        | 19        | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                      | 27            | 27         | 27                 | 26                  | 24                         | 19                  | 14         |            |                         |           |             |                      |           |          |                         |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                        | 10            | 10         | 11                 | 11                  | 5.4                        | 0.5                 | 0.4        |            |                         |           |             |                      |           |          |                         |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxid: 51.8 |               |            |                    |                     | Blue-Green Dominance %: 96 |                     |            |            |                         | Notes:    |             |                      |           |          |                         |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 380837 |               |            | Greens (#/L): 2066 |                     |                            | Diatoms (#/L): 3292 |            |            | Other algae (#/L): 8779 |           |             | Rotifers (#/L): 1485 |           |          | Zooplankton (#/L): 33.3 |       |           | Plankton #/L: 396491 |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

## Hog

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/8/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)     | 1% Light Level (ft) | DO @5' (%)                | pH - epi          | pH - hypso | Cond - epi | Cond - hyp              | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|---------------------------|---------------|------------|------------------|---------------------|---------------------------|-------------------|------------|------------|-------------------------|-----------|-------------|--------------------|-----------|----------|-------------------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                      | 7.9           | 1.6        | 32               | 20                  | 116.4                     | 8.1               | 7.8        | 630        | 468                     | 146       | 195         | 0.004              | 0.003     | 0.046    | 0.046                   | 1.81  | 0.279     | 0.301              | 0.174     | 0.586     | 0.925     | 1.07      | <b>9</b><br><i>High</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                     | 0             | 1          | 1.5              | 2                   | 3                         | 4                 | 5          | 6          | 7                       | 8         | 9           | 10                 | 11        | 12       | 13                      | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                      | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                      | 29            | 29         | 29               | 29                  | 27                        | 23                | 18         | 15         | 13                      |           |             |                    |           |          |                         |       |           |                    |           |           |           |           |                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                        | 8.9           | 8.9        | 8.9              | 9                   | 8.6                       | 11                | 6.3        | 1.5        | 0.2                     |           |             |                    |           |          |                         |       |           |                    |           |           |           |           |                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxid: 75.8 |               |            |                  |                     | Blue-Green Dominance %: 9 |                   |            |            |                         | Notes:    |             |                    |           |          |                         |       |           |                    |           |           |           |           |                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 135    |               |            | Greens (#/L): 16 |                     |                           | Diatoms (#/L): 57 |            |            | Other algae (#/L): 1128 |           |             | Rotifers (#/L): 83 |           |          | Zooplankton (#/L): 54.2 |       |           | Plankton #/L: 1472 |           |           |           |           |                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

# Clean Lakes Program Data Summary

2002

## Hogback

County: **Steuben**

Sample Location: **Deep Hole**

Date: **8/6/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi            | pH - hypso | Cond - epi | Cond - hyp              | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso            | Chl a | NO3 - epi | NO3 - hyp            | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|---------------------------|---------------|------------|-------------------|---------------------|----------------------------|---------------------|------------|------------|-------------------------|-----------|-------------|---------------------|-----------|----------|-----------------------|-------|-----------|----------------------|-----------|-----------|-----------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                      | 6.7           | 0.7        | 11                | 7                   | 94.4                       | 8.1                 | 8.3        | 600        | 470                     | 141       | 27.2        | 0.007               | 0.226     | 0.053    | 0.251                 | 21.93 | 0.013     | 0.013                | 0.018     | 3.535     | 1.116     | 3.832     | <b>50</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                     | 0             | 1          | 1.5               | 2                   | 3                          | 4                   | 5          | 6          | 7                       | 8         | 9           | 10                  | 11        | 12       | 13                    | 14    | 15        | 16                   | 17        | 18        | 19        | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                      | 26            | 27         | 27                | 26                  | 25                         | 18                  | 14         | 13         |                         |           |             |                     |           |          |                       |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                        | 7.6           | 7.6        | 7.6               | 7.5                 | 1.9                        | 0.4                 | 0.4        | 0.3        |                         |           |             |                     |           |          |                       |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxid: 44.7 |               |            |                   |                     | Blue-Green Dominance %: 95 |                     |            |            |                         | Notes:    |             |                     |           |          |                       |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 97219  |               |            | Greens (#/L): 507 |                     |                            | Diatoms (#/L): 1775 |            |            | Other algae (#/L): 1944 |           |             | Rotifers (#/L): 423 |           |          | Zooplankton (#/L): 99 |       |           | Plankton #/L: 101967 |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

## Huntington Reservoir

County: **Huntington**

Sample Location: **Deep Hole**

Date: **8/19/2002**

| Year                     | Max Depth (m) | Secchi (m) | Light@3' (%)    | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hypso | Cond - epi | Cond - hyp             | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso              | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------------|---------------|------------|-----------------|---------------------|----------------------------|--------------------|------------|------------|------------------------|-----------|-------------|---------------------|-----------|----------|-------------------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                     | 7.32          | 0.5        | 3               | 3.5                 | 68.7                       | 7.9                | 7.9        | 370        | 370                    | 155       | 155         | 0.044               | 0.043     | 0.183    | 0.177                   | 26.06 | 1.415     | 0.221              | 0.03      | 0.034     | 1.232     | 1.327     | <b>20</b><br><i>High</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                    | 0             | 1          | 1.5             | 2                   | 3                          | 4                  | 5          | 6          | 7                      | 8         | 9           | 10                  | 11        | 12       | 13                      | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                       | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                     | 26            | 26         | 26              | 26                  | 26                         | 26                 |            |            |                        |           |             |                     |           |          |                         |       |           |                    |           |           |           |           |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                       | 5.8           | 5.6        | 5.6             | 5.5                 | 5.6                        | 5.6                |            |            |                        |           |             |                     |           |          |                         |       |           |                    |           |           |           |           |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxid: 100 |               |            |                 |                     | Blue-Green Dominance %: 24 |                    |            |            |                        | Notes:    |             |                     |           |          |                         |       |           |                    |           |           |           |           |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 387   |               |            | Greens (#/L): 0 |                     |                            | Diatoms (#/L): 310 |            |            | Other algae (#/L): 465 |           |             | Rotifers (#/L): 426 |           |          | Zooplankton (#/L): 47.2 |       |           | Plankton #/L: 1635 |           |           |           |           |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

## Hurshtown Reservoir

County: **Allen**

Sample Location: **Deep Hole**

Date: **8/13/2002**

| Year                     | Max Depth (m) | Secchi (m) | Light@3' (%)    | 1% Light Level (ft) | DO @5' (%)                | pH - epi         | pH - hypso | Cond - epi | Cond - hyp            | Alk - epi | Alk - hypso | SRP - epi           | SRP - hyp | TP - epi | TP - hypso             | Chl a | NO3 - epi | NO3 - hyp         | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------------|---------------|------------|-----------------|---------------------|---------------------------|------------------|------------|------------|-----------------------|-----------|-------------|---------------------|-----------|----------|------------------------|-------|-----------|-------------------|-----------|-----------|-----------|-----------|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                     | 9.1           | 1.7        | 62              | 25                  | 99                        | 8.3              | 7.7        | 395        | 390                   | 112       | 128         | 0.005               | 0.005     | 0.05     | 0.034                  | 0.79  | 0.017     | 0.013             | 0.135     | 0.018     | 0.371     | 0.472     | <b>4</b><br><i>High</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                    | 0             | 1          | 1.5             | 2                   | 3                         | 4                | 5          | 6          | 7                     | 8         | 9           | 10                  | 11        | 12       | 13                     | 14    | 15        | 16                | 17        | 18        | 19        | 20        | 21                      | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                     | 26            | 26         | 26              | 26                  | 26                        | 26               | 26         | 25         | 22                    | 16        |             |                     |           |          |                        |       |           |                   |           |           |           |           |                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                       | 8             | 8          | 8               | 8                   | 8                         | 8.1              | 8          | 6.9        | 1.9                   | 1.6       |             |                     |           |          |                        |       |           |                   |           |           |           |           |                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxid: 100 |               |            |                 |                     | Blue-Green Dominance %: 8 |                  |            |            |                       | Notes:    |             |                     |           |          |                        |       |           |                   |           |           |           |           |                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 12    |               |            | Greens (#/L): 6 |                     |                           | Diatoms (#/L): 0 |            |            | Other algae (#/L): 11 |           |             | Rotifers (#/L): 116 |           |          | Zooplankton (#/L): 2.9 |       |           | Plankton #/L: 147 |           |           |           |           |                         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

# Clean Lakes Program Data Summary

2002

| James                |     | County: <b>Steuben</b> |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |                |           |           |           | Sample Location: <b>Deep Hole</b> |           |           |             |     |     | Date: <b>7/2/2002</b> |     |    |    |    |     |    |    |    |    |                 |  |  |  |  |   |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
|----------------------|-----|------------------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|-----------|-----------|----------|----------|----------------|-----------|-----------|-----------|-----------------------------------|-----------|-----------|-------------|-----|-----|-----------------------|-----|----|----|----|-----|----|----|----|----|-----------------|--|--|--|--|---|--|--|--|--|--------------------|--|--|--|--|------|--|--|--|--|---------------|--|--|--|--|------|--|--|--|--|
| Year                 |     | Max Depth (m)          | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi | TP - hyp | Chl a          | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp                         | TKN - epi | TKN - hyp | ITSI:       |     |     |                       |     |    |    |    |     |    |    |    |    |                 |  |  |  |  |   |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| 2002                 |     | 26.2                   | 3.7        | 45           | 30                  | 111.4      | 8.2                     | 7.8      | 590        | 370        | 179       | 204       | 0.008     | 0.011     | 0.023    | 0.022    |                | 0.029     | 0.143     | 0.081     | 0.351                             | 0.652     | 0.715     | <b>4</b>    |     |     |                       |     |    |    |    |     |    |    |    |    |                 |  |  |  |  |   |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
|                      |     |                        |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |                |           |           |           |                                   |           |           | <i>High</i> |     |     |                       |     |    |    |    |     |    |    |    |    |                 |  |  |  |  |   |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| Depth                | 0   | 1                      | 1.5        | 2            | 3                   | 4          | 5                       | 6        | 7          | 8          | 9         | 10        | 11        | 12        | 13       | 14       | 15             | 16        | 17        | 18        | 19                                | 20        | 21        | 22          | 23  | 24  | 25                    | 26  | 27 | 28 | 29 | 30  | 31 | 32 | 33 | 34 | 35              |  |  |  |  |   |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| Temp                 | 28  | 28                     | 28         | 28           | 27                  | 24         | 20                      | 16       | 15         | 14         | 13        | 11        | 11        | 9.5       | 8.3      | 7.2      | 6.6            | 6.4       | 6.2       | 5.9       | 5.7                               | 5.6       | 5.4       | 5.3         | 5.2 | 5.1 | 5                     | 5   |    |    |    |     |    |    |    |    |                 |  |  |  |  |   |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| DO                   | 8.7 | 8.7                    | 8.7        | 8.7          | 8.6                 | 9.9        | 9.1                     | 9.1      | 8.9        | 8.6        | 8.3       | 8         | 7.7       | 7.8       | 7.3      | 8.1      | 7.7            | 7.8       | 7.8       | 7.8       | 7.7                               | 7.4       | 7.8       | 6.7         | 6.2 | 3.7 | 0.5                   | 0.3 |    |    |    |     |    |    |    |    |                 |  |  |  |  |   |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| % Water Column Oxid: |     | 91.6                   |            |              |                     |            | Blue-Green Dominance %: |          |            |            |           | 33        |           |           |          |          | Notes:         |           |           |           |                                   |           |           |             |     |     |                       |     |    |    |    |     |    |    |    |    |                 |  |  |  |  |   |  |  |  |  |                    |  |  |  |  |      |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| Blue-greens (#/L):   |     | 1905                   |            |              |                     |            | Greens (#/L):           |          |            |            |           | 241       |           |           |          |          | Diatoms (#/L): |           |           |           |                                   | 3179      |           |             |     |     | Other algae (#/L):    |     |    |    |    | 413 |    |    |    |    | Rotifers (#/L): |  |  |  |  | 0 |  |  |  |  | Zooplankton (#/L): |  |  |  |  | 16.2 |  |  |  |  | Plankton #/L: |  |  |  |  | 5754 |  |  |  |  |

| Jimmerson            |     | County: <b>Steuben</b> |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |                |           |           |           | Sample Location: <b>Deep Hole</b> |           |           |             |    |    | Date: <b>7/2/2002</b> |    |    |    |    |     |    |    |    |    |                 |  |  |  |  |    |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
|----------------------|-----|------------------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|-----------|-----------|----------|----------|----------------|-----------|-----------|-----------|-----------------------------------|-----------|-----------|-------------|----|----|-----------------------|----|----|----|----|-----|----|----|----|----|-----------------|--|--|--|--|----|--|--|--|--|--------------------|--|--|--|--|----|--|--|--|--|---------------|--|--|--|--|------|--|--|--|--|
| Year                 |     | Max Depth (m)          | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi | TP - hyp | Chl a          | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp                         | TKN - epi | TKN - hyp | ITSI:       |    |    |                       |    |    |    |    |     |    |    |    |    |                 |  |  |  |  |    |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| 2002                 |     | 17.1                   | 3.4        | 46           | 30                  | 101.7      | 8.1                     | 7.7      | 595        | 375        | 179       | 193       | 0.008     | 0.01      | 0.027    | 0.033    |                | 0.04      | 0.013     | 0.115     | 0.707                             | 0.54      | 0.985     | <b>8</b>    |    |    |                       |    |    |    |    |     |    |    |    |    |                 |  |  |  |  |    |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
|                      |     |                        |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |                |           |           |           |                                   |           |           | <i>High</i> |    |    |                       |    |    |    |    |     |    |    |    |    |                 |  |  |  |  |    |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| Depth                | 0   | 1                      | 1.5        | 2            | 3                   | 4          | 5                       | 6        | 7          | 8          | 9         | 10        | 11        | 12        | 13       | 14       | 15             | 16        | 17        | 18        | 19                                | 20        | 21        | 22          | 23 | 24 | 25                    | 26 | 27 | 28 | 29 | 30  | 31 | 32 | 33 | 34 | 35              |  |  |  |  |    |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| Temp                 | 29  | 29                     | 29         | 29           | 28                  | 23         | 20                      | 16       | 14         | 13         | 12        | 11        | 10        | 8.8       | 8.2      | 7.8      | 7.6            |           |           |           |                                   |           |           |             |    |    |                       |    |    |    |    |     |    |    |    |    |                 |  |  |  |  |    |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| DO                   | 7.9 | 7.9                    | 7.9        | 7.8          | 7.7                 | 9.2        | 9.9                     | 11       | 9.9        | 8.7        | 7.7       | 5.1       | 2.7       | 0.8       | 0.5      | 0.3      | 0.3            |           |           |           |                                   |           |           |             |    |    |                       |    |    |    |    |     |    |    |    |    |                 |  |  |  |  |    |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| % Water Column Oxid: |     | 65.6                   |            |              |                     |            | Blue-Green Dominance %: |          |            |            |           | 45        |           |           |          |          | Notes:         |           |           |           |                                   |           |           |             |    |    |                       |    |    |    |    |     |    |    |    |    |                 |  |  |  |  |    |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |      |  |  |  |  |
| Blue-greens (#/L):   |     | 2422                   |            |              |                     |            | Greens (#/L):           |          |            |            |           | 110       |           |           |          |          | Diatoms (#/L): |           |           |           |                                   | 2498      |           |             |    |    | Other algae (#/L):    |    |    |    |    | 248 |    |    |    |    | Rotifers (#/L): |  |  |  |  | 69 |  |  |  |  | Zooplankton (#/L): |  |  |  |  | 18 |  |  |  |  | Plankton #/L: |  |  |  |  | 5365 |  |  |  |  |

| John Hay             |     | County: <b>Washington</b> |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |                |           |           |           | Sample Location: <b>Deep Hole</b> |           |           |                     |    |    | Date: <b>7/15/2002</b> |    |    |    |    |      |    |    |    |    |                 |  |  |  |  |     |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |       |  |  |  |  |
|----------------------|-----|---------------------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|-----------|-----------|----------|----------|----------------|-----------|-----------|-----------|-----------------------------------|-----------|-----------|---------------------|----|----|------------------------|----|----|----|----|------|----|----|----|----|-----------------|--|--|--|--|-----|--|--|--|--|--------------------|--|--|--|--|----|--|--|--|--|---------------|--|--|--|--|-------|--|--|--|--|
| Year                 |     | Max Depth (m)             | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp | TP - epi | TP - hyp | Chl a          | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp                         | TKN - epi | TKN - hyp | ITSI:               |    |    |                        |    |    |    |    |      |    |    |    |    |                 |  |  |  |  |     |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |       |  |  |  |  |
| 2002                 |     | 8.5                       | 4.1        | 64           | 18                  | 114        | 8.3                     | 7.6      | 265        | 290        | 111       | 147       | 0.01      | 0.01      | 0.027    | 0.075    |                | 0.013     | 0.013     | 0.067     | 0.467                             | 2.212     | 1.098     | <b>34</b>           |    |    |                        |    |    |    |    |      |    |    |    |    |                 |  |  |  |  |     |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |       |  |  |  |  |
|                      |     |                           |            |              |                     |            |                         |          |            |            |           |           |           |           |          |          |                |           |           |           |                                   |           |           | <i>Intermediate</i> |    |    |                        |    |    |    |    |      |    |    |    |    |                 |  |  |  |  |     |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |       |  |  |  |  |
| Depth                | 0   | 1                         | 1.5        | 2            | 3                   | 4          | 5                       | 6        | 7          | 8          | 9         | 10        | 11        | 12        | 13       | 14       | 15             | 16        | 17        | 18        | 19                                | 20        | 21        | 22                  | 23 | 24 | 25                     | 26 | 27 | 28 | 29 | 30   | 31 | 32 | 33 | 34 | 35              |  |  |  |  |     |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |       |  |  |  |  |
| Temp                 | 29  | 28                        | 28         | 27           | 27                  | 19         | 15                      | 13       | 12         | 11         |           |           |           |           |          |          |                |           |           |           |                                   |           |           |                     |    |    |                        |    |    |    |    |      |    |    |    |    |                 |  |  |  |  |     |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |       |  |  |  |  |
| DO                   | 8.9 | 9.2                       | 9          | 8.8          | 6.7                 | 6.7        | 1                       | 0.7      | 0.3        | 0.3        |           |           |           |           |          |          |                |           |           |           |                                   |           |           |                     |    |    |                        |    |    |    |    |      |    |    |    |    |                 |  |  |  |  |     |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |       |  |  |  |  |
| % Water Column Oxid: |     | 58.6                      |            |              |                     |            | Blue-Green Dominance %: |          |            |            |           | 92        |           |           |          |          | Notes:         |           |           |           |                                   |           |           |                     |    |    |                        |    |    |    |    |      |    |    |    |    |                 |  |  |  |  |     |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |               |  |  |  |  |       |  |  |  |  |
| Blue-greens (#/L):   |     | 89813                     |            |              |                     |            | Greens (#/L):           |          |            |            |           | 2185      |           |           |          |          | Diatoms (#/L): |           |           |           |                                   | 474       |           |                     |    |    | Other algae (#/L):     |    |    |    |    | 3970 |    |    |    |    | Rotifers (#/L): |  |  |  |  | 831 |  |  |  |  | Zooplankton (#/L): |  |  |  |  | 49 |  |  |  |  | Plankton #/L: |  |  |  |  | 97323 |  |  |  |  |

# Clean Lakes Program Data Summary

2002

## Knightsdown (Big Blue #7)

County: **Henry**

Sample Location: **Deep Hole**

Date: **7/23/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi      | SRP - hyp | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:               |                    |    |    |    |    |     |               |    |    |    |    |      |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|----------------|-----------|----------|----------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|---------------------|--------------------|----|----|----|----|-----|---------------|----|----|----|----|------|----|----|--|--|
| 2002                 | 4.9           | 1.1        | 25           | 9                   | 157        | 8.1                     | 7.6      | 650        | 550        | 230       | 290       | 0.014          | 0.014     | 0.037    | 0.1      | 0.72  | 3.853     | 1.378              | 0.029     | 0.738     | 0.726     | 2.211     | 27                  |                    |    |    |    |    |     |               |    |    |    |    |      |    |    |  |  |
|                      |               |            |              |                     |            |                         |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           | <i>Intermediate</i> |                    |    |    |    |    |     |               |    |    |    |    |      |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5        | 6          | 7          | 8         | 9         | 10             | 11        | 12       | 13       | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                  | 22                 | 23 | 24 | 25 | 26 | 27  | 28            | 29 | 30 | 31 | 32 | 33   | 34 | 35 |  |  |
| Temp                 | 28            | 28         | 25           | 23                  | 21         | 16                      |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           |                     |                    |    |    |    |    |     |               |    |    |    |    |      |    |    |  |  |
| DO                   | 12            | 12         | 12           | 12                  | 4          | 0.3                     |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           |                     |                    |    |    |    |    |     |               |    |    |    |    |      |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 61.5       | Blue-Green Dominance %: |          |            |            |           | 0         | Notes:         |           |          |          |       |           | Rotifers (#/L):    |           |           |           |           | 1205                | Zooplankton (#/L): |    |    |    |    | 219 | Plankton #/L: |    |    |    |    | 2862 |    |    |  |  |
| Blue-greens (#/L):   |               |            |              |                     | 0          | Greens (#/L):           |          |            |            |           | 1088      | Diatoms (#/L): |           |          |          |       | 0         | Other algae (#/L): |           |           |           |           | 350                 |                    |    |    |    |    |     |               |    |    |    |    |      |    |    |  |  |

## Knob

County: **Jackson**

Sample Location: **Deep Hole**

Date: **7/15/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi      | SRP - hyp | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:       |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|----------------|-----------|----------|----------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|-------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|------|----|----|--|--|
| 2002                 | 6.7           | 3.3        | 32           | 11                  | 111        | 8.2                     | 7.3      | 230        | 250        | 38        | 50        | 0.012          | 0.013     | 0.039    | 0.033    | 0.6   | 0.013     | 0.013              | 0.066     | 0.154     | 0.338     | 0.679     | 7           |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
|                      |               |            |              |                     |            |                         |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           | <i>High</i> |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5        | 6          | 7          | 8         | 9         | 10             | 11        | 12       | 13       | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21          | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33   | 34 | 35 |  |  |
| Temp                 | 31            | 29         | 28           | 28                  | 21         | 16                      |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           |             |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| DO                   | 8.6           | 8.7        | 8.7          | 8.8                 | 9          | 0.5                     |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           |             |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 75         | Blue-Green Dominance %: |          |            |            |           | 6         | Notes:         |           |          |          |       |           | Rotifers (#/L):    |           |           |           |           | 148         | Zooplankton (#/L): |    |    |    |    | 43.9 | Plankton #/L: |    |    |    |    | 9170 |    |    |  |  |
| Blue-greens (#/L):   |               |            |              |                     | 583        | Greens (#/L):           |          |            |            |           | 57        | Diatoms (#/L): |           |          |          |       | 114       | Other algae (#/L): |           |           |           |           | 8224        |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |

## Kunkel

County: **Wells**

Sample Location: **Deep Hole**

Date: **8/20/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hyp | Cond - epi | Cond - hyp | Alk - epi | Alk - hyp | SRP - epi      | SRP - hyp | TP - epi | TP - hyp | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:               |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|----------|------------|------------|-----------|-----------|----------------|-----------|----------|----------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|---------------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|------|----|----|--|--|
| 2002                 | 5.79          | 0.6        | 5            | 4.5                 | 44.2       | 7.9                     | 7.6      | 220        | 230        | 88        | 88        | 0.009          | 0.006     | 0.109    | 0.149    | 41.16 | 0.021     | 0.022              | 0.013     | 0.11      | 1.465     | 1.928     | 27                  |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
|                      |               |            |              |                     |            |                         |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           | <i>Intermediate</i> |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5        | 6          | 7          | 8         | 9         | 10             | 11        | 12       | 13       | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                  | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33   | 34 | 35 |  |  |
| Temp                 | 25            | 25         | 25           | 25                  | 25         |                         |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           |                     |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| DO                   | 4.7           | 3.5        | 3.7          | 9.8                 | 2.9        |                         |          |            |            |           |           |                |           |          |          |       |           |                    |           |           |           |           |                     |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 100        | Blue-Green Dominance %: |          |            |            |           | 84        | Notes:         |           |          |          |       |           | Rotifers (#/L):    |           |           |           |           | 246                 | Zooplankton (#/L): |    |    |    |    | 51.2 | Plankton #/L: |    |    |    |    | 4695 |    |    |  |  |
| Blue-greens (#/L):   |               |            |              |                     | 3956       | Greens (#/L):           |          |            |            |           | 49        | Diatoms (#/L): |           |          |          |       | 49        | Other algae (#/L): |           |           |           |           | 344                 |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |

# Clean Lakes Program Data Summary

2002

## Lake of the Woods

County: **Lagrange**

Sample Location: **Deep Hole**

Date: **8/5/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:               |               |     |     |    |    |    |                |    |    |    |    |    |                    |    |  |  |  |   |                 |  |  |  |  |   |                    |  |  |  |  |   |               |  |  |  |  |      |
|---------------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|---------------------|---------------|-----|-----|----|----|----|----------------|----|----|----|----|----|--------------------|----|--|--|--|---|-----------------|--|--|--|--|---|--------------------|--|--|--|--|---|---------------|--|--|--|--|------|
| 2002                      | 24.7          | 1.2        | 60           | 16                  | 100.4      | 8.5                     | 8.3        | 425        | 390        | 135       | 191         | 0.007     | 0.203     | 0.022    | 0.219      | 1.6   | 0.955     | 0.308              | 0.018     | 0.784     | 0.748     | 1.464     | 34                  |               |     |     |    |    |    |                |    |    |    |    |    |                    |    |  |  |  |   |                 |  |  |  |  |   |                    |  |  |  |  |   |               |  |  |  |  |      |
|                           |               |            |              |                     |            |                         |            |            |            |           |             |           |           |          |            |       |           |                    |           |           |           |           | <i>Intermediate</i> |               |     |     |    |    |    |                |    |    |    |    |    |                    |    |  |  |  |   |                 |  |  |  |  |   |                    |  |  |  |  |   |               |  |  |  |  |      |
| Depth                     | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                  | 22            | 23  | 24  | 25 | 26 | 27 | 28             | 29 | 30 | 31 | 32 | 33 | 34                 | 35 |  |  |  |   |                 |  |  |  |  |   |                    |  |  |  |  |   |               |  |  |  |  |      |
| Temp                      | 29            | 29         | 29           | 29                  | 28         | 25                      | 18         | 14         | 11         | 9.6       | 8.3         | 7.6       | 6.6       | 6.1      | 5.9        | 5.8   | 5.7       | 5.6                | 5.6       | 5.6       | 5.5       | 5.5       | 5.5                 | 5.4           | 5.4 | 5.4 |    |    |    |                |    |    |    |    |    |                    |    |  |  |  |   |                 |  |  |  |  |   |                    |  |  |  |  |   |               |  |  |  |  |      |
| DO                        | 7.7           | 7.7        | 7.7          | 7.7                 | 7.6        | 7.3                     | 4.3        | 1.7        | 0.8        | 1.2       | 1.4         | 1.5       | 2.3       | 2        | 1.5        | 1.6   | 1.4       | 1                  | 0.7       | 0.5       | 0.3       | 0.3       | 0.3                 | 0.3           | 0.3 | 0.3 |    |    |    |                |    |    |    |    |    |                    |    |  |  |  |   |                 |  |  |  |  |   |                    |  |  |  |  |   |               |  |  |  |  |      |
| % Water Column Oxidation: |               |            |              |                     | 24.3       | Blue-Green Dominance %: |            |            |            |           | 100         | Notes:    |           |          |            |       |           | Blue-greens (#/L): |           |           |           |           | 1064                | Greens (#/L): |     |     |    |    | 0  | Diatoms (#/L): |    |    |    |    | 0  | Other algae (#/L): |    |  |  |  | 0 | Rotifers (#/L): |  |  |  |  | 0 | Zooplankton (#/L): |  |  |  |  | 0 | Plankton #/L: |  |  |  |  | 1064 |

## Lime (Gage)

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/2/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:       |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
|---------------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|-------------|---------------|----|----|----|----|-----|----------------|----|----|----|----|-----|--------------------|----|--|--|--|-----|-----------------|--|--|--|--|-----|--------------------|--|--|--|--|------|---------------|--|--|--|--|------|
| 2002                      | 7.9           | 1.9        | 42           | 18                  | 105.4      | 8.2                     | 7.7        | 480        | 350        | 142       | 165         | 0.013     | 0.018     | 0.023    | 0.05       | 0.13  | 0.193     | 0.101              | 0.08      | 0.718     | 0.641     | 1.488     | 7           |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
|                           |               |            |              |                     |            |                         |            |            |            |           |             |           |           |          |            |       |           |                    |           |           |           |           | <i>High</i> |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
| Depth                     | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21          | 22            | 23 | 24 | 25 | 26 | 27  | 28             | 29 | 30 | 31 | 32 | 33  | 34                 | 35 |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
| Temp                      | 30            | 30         | 30           | 29                  | 26         | 21                      | 17         | 14         | 13         |           |             |           |           |          |            |       |           |                    |           |           |           |           |             |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
| DO                        | 7.9           | 7.9        | 8            | 8                   | 11         | 14                      | 8.3        | 4.7        | 1.2        |           |             |           |           |          |            |       |           |                    |           |           |           |           |             |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |     |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
| % Water Column Oxidation: |               |            |              |                     | 100        | Blue-Green Dominance %: |            |            |            |           | 47          | Notes:    |           |          |            |       |           | Blue-greens (#/L): |           |           |           |           | 1252        | Greens (#/L): |    |    |    |    | 761 | Diatoms (#/L): |    |    |    |    | 150 | Other algae (#/L): |    |  |  |  | 312 | Rotifers (#/L): |  |  |  |  | 138 | Zooplankton (#/L): |  |  |  |  | 56.3 | Plankton #/L: |  |  |  |  | 2668 |

## Little Otter

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/1/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:               |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |    |                    |  |  |  |  |      |               |  |  |  |  |       |
|---------------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|---------------------|---------------|----|----|----|----|-----|----------------|----|----|----|----|-----|--------------------|----|--|--|--|------|-----------------|--|--|--|--|----|--------------------|--|--|--|--|------|---------------|--|--|--|--|-------|
| 2002                      | 11.3          | 7.1        | 28           | 16                  | 101.3      | 8.25                    | 7.8        | 720        | 460        | 239.5     | 250         | 0.008     | 0.27      | 0.033    | 0.379      |       | 0.259     | 0.012              | 0.054     | 1.526     | 0.594     | 1.907     | 29                  |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |    |                    |  |  |  |  |      |               |  |  |  |  |       |
|                           |               |            |              |                     |            |                         |            |            |            |           |             |           |           |          |            |       |           |                    |           |           |           |           | <i>Intermediate</i> |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |    |                    |  |  |  |  |      |               |  |  |  |  |       |
| Depth                     | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                  | 22            | 23 | 24 | 25 | 26 | 27  | 28             | 29 | 30 | 31 | 32 | 33  | 34                 | 35 |  |  |  |      |                 |  |  |  |  |    |                    |  |  |  |  |      |               |  |  |  |  |       |
| Temp                      | 30            | 29         | 27           | 26                  | 23         | 18                      | 14         | 11         | 9.9        | 8.9       | 8.1         | 7.6       |           |          |            |       |           |                    |           |           |           |           |                     |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |    |                    |  |  |  |  |      |               |  |  |  |  |       |
| DO                        | 8.1           | 8.1        | 8.0          | 7.3                 | 8.7        | 5.1                     | 3.2        | 2.5        | 0.4        | 0.3       | 0.3         | 0.3       |           |          |            |       |           |                    |           |           |           |           |                     |               |    |    |    |    |     |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |    |                    |  |  |  |  |      |               |  |  |  |  |       |
| % Water Column Oxidation: |               |            |              |                     | 56.2       | Blue-Green Dominance %: |            |            |            |           | 87          | Notes:    |           |          |            |       |           | Blue-greens (#/L): |           |           |           |           | 15782               | Greens (#/L): |    |    |    |    | 159 | Diatoms (#/L): |    |    |    |    | 206 | Other algae (#/L): |    |  |  |  | 1932 | Rotifers (#/L): |  |  |  |  | 75 | Zooplankton (#/L): |  |  |  |  | 29.4 | Plankton #/L: |  |  |  |  | 18184 |



# Clean Lakes Program Data Summary

2002

## Little Turkey

County: **Lagrange**

Sample Location: **Deep Hole**

Date: **8/6/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)       | 1% Light Level (ft) | DO @5' (%)                 | pH - epi            | pH - hyp | Cond - epi | Cond - hyp              | Alk - epi | Alk - hyp | SRP - epi           | SRP - hyp | TP - epi | TP - hyp              | Chl a | NO3 - epi | NO3 - hyp           | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------------------|---------------|------------|--------------------|---------------------|----------------------------|---------------------|----------|------------|-------------------------|-----------|-----------|---------------------|-----------|----------|-----------------------|-------|-----------|---------------------|-----------|-----------|-----------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                           | 10.1          | 1.1        | 20                 | 9                   | 96.3                       | 8.25                | 7.5      | 450        | 430                     | 140       | 249       | 0.007               | 0.291     | 0.029    | 0.01                  | 1.27  | 1.038     | 0.018               | 0.018     | 2.924     | 3.614     | 3.804     | <b>41</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                          | 0             | 1          | 1.5                | 2                   | 3                          | 4                   | 5        | 6          | 7                       | 8         | 9         | 10                  | 11        | 12       | 13                    | 14    | 15        | 16                  | 17        | 18        | 19        | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                           | 28            | 28         | 28                 | 28                  | 28                         | 22                  | 16       | 14         | 11                      |           |           |                     |           |          |                       |       |           |                     |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                             | 7.7           | 7.7        | 7.6                | 7.4                 | 7.4                        | 0.6                 | 0.3      | 0.3        | 0.3                     |           |           |                     |           |          |                       |       |           |                     |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidation: 29.7 |               |            |                    |                     | Blue-Green Dominance %: 73 |                     |          |            |                         | Notes:    |           |                     |           |          |                       |       |           |                     |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 28207       |               |            | Greens (#/L): 1833 |                     |                            | Diatoms (#/L): 4589 |          |            | Other algae (#/L): 3134 |           |           | Rotifers (#/L): 946 |           |          | Zooplankton (#/L): 72 |       |           | Plankton #/L: 38782 |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

## Little Turkey

County: **Steuben**

Sample Location: **Deep Hole**

Date: **8/5/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi         | pH - hyp | Cond - epi | Cond - hyp              | Alk - epi | Alk - hyp | SRP - epi           | SRP - hyp | TP - epi | TP - hyp               | Chl a | NO3 - epi | NO3 - hyp           | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------------------|---------------|------------|-------------------|---------------------|----------------------------|------------------|----------|------------|-------------------------|-----------|-----------|---------------------|-----------|----------|------------------------|-------|-----------|---------------------|-----------|-----------|-----------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                           | 8.5           | 0.9        | 30                | 9                   | 115.5                      | 8.6              | 7.6      | 420        | 460                     | 103       | 252       | 0.005               | 0.307     | 0.056    | 0.369                  |       | 0.013     | 0.013               | 0.018     | 3.388     | 1.334     | 4.69      | <b>44</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                          | 0             | 1          | 1.5               | 2                   | 3                          | 4                | 5        | 6          | 7                       | 8         | 9         | 10                  | 11        | 12       | 13                     | 14    | 15        | 16                  | 17        | 18        | 19        | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                           | 29            | 29         | 27                | 26                  | 23                         | 18               | 13       | 11         | 11                      |           |           |                     |           |          |                        |       |           |                     |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                             | 12            | 12         | 11                | 6.2                 | 0.6                        | 0.3              | 0.3      | 0.3        | 0.3                     |           |           |                     |           |          |                        |       |           |                     |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxidation: 25.3 |               |            |                   |                     | Blue-Green Dominance %: 91 |                  |          |            |                         | Notes:    |           |                     |           |          |                        |       |           |                     |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 41205       |               |            | Greens (#/L): 299 |                     |                            | Diatoms (#/L): 0 |          |            | Other algae (#/L): 3185 |           |           | Rotifers (#/L): 448 |           |          | Zooplankton (#/L): 148 |       |           | Plankton #/L: 45285 |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

## Long (Clear)

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/2/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)       | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hyp | Cond - epi | Cond - hyp             | Alk - epi | Alk - hyp | SRP - epi          | SRP - hyp | TP - epi | TP - hyp                | Chl a | NO3 - epi | NO3 - hyp            | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------------------|---------------|------------|--------------------|---------------------|----------------------------|--------------------|----------|------------|------------------------|-----------|-----------|--------------------|-----------|----------|-------------------------|-------|-----------|----------------------|-----------|-----------|-----------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                           | 9.8           | 2.4        | 46                 | 15                  | 106.5                      | 8.2                | 7.65     | 325        | 265                    | 115       | 142       | 0.01               | 0.066     | 0.054    | 0.102                   | 1.9   | 0.013     | 0.013                | 0.174     | 0.612     | 0.714     | 1.02      | <b>36</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                          | 0             | 1          | 1.5                | 2                   | 3                          | 4                  | 5        | 6          | 7                      | 8         | 9         | 10                 | 11        | 12       | 13                      | 14    | 15        | 16                   | 17        | 18        | 19        | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                           | 29            | 29         | 28                 | 28                  | 25                         | 20                 | 17       | 14         | 13                     | 12        | 11        |                    |           |          |                         |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                             | 8.1           | 8.2        | 8.3                | 8.2                 | 9.4                        | 8.1                | 0.9      | 0.3        | 0.3                    | 0.3       | 0.3       |                    |           |          |                         |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxidation: 43.8 |               |            |                    |                     | Blue-Green Dominance %: 98 |                    |          |            |                        | Notes:    |           |                    |           |          |                         |       |           |                      |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 101488      |               |            | Greens (#/L): 1038 |                     |                            | Diatoms (#/L): 124 |          |            | Other algae (#/L): 766 |           |           | Rotifers (#/L): 99 |           |          | Zooplankton (#/L): 10.1 |       |           | Plankton #/L: 103524 |           |           |           |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

# Clean Lakes Program Data Summary

2002

## Long (Pleasant)

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/8/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:        |                    |    |    |    |    |       |               |    |    |    |    |        |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|--------------|--------------------|----|----|----|----|-------|---------------|----|----|----|----|--------|----|----|--|--|
| 2002                 | 9.8           | 2          | 22           | 12                  | 103.4      | 8.3                     | 7.6        | 780            | 425        | 241       | 210         | 0.007              | 0.029     | 0.039    | 0.083      |       | 1.881     | 0.837           | 0.205     | 0.892     | 1.074     |           | 47           |                    |    |    |    |    |       |               |    |    |    |    |        |    |    |  |  |
|                      |               |            |              |                     |            |                         |            |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           | Intermediate |                    |    |    |    |    |       |               |    |    |    |    |        |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21           | 22                 | 23 | 24 | 25 | 26 | 27    | 28            | 29 | 30 | 31 | 32 | 33     | 34 | 35 |  |  |
| Temp                 | 26            | 26         | 25           | 24                  | 11         | 18                      | 13         | 12             | 11         | 10        |             |                    |           |          |            |       |           |                 |           |           |           |           |              |                    |    |    |    |    |       |               |    |    |    |    |        |    |    |  |  |
| DO                   | 8.9           | 8.9        | 8.5          | 7.3                 | 3.2        | 0.3                     | 0.2        | 0.2            | 0.2        | 0.2       |             |                    |           |          |            |       |           |                 |           |           |           |           |              |                    |    |    |    |    |       |               |    |    |    |    |        |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 34.1       | Blue-Green Dominance %: |            |                |            |           | 96          | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 37           | Zooplankton (#/L): |    |    |    |    | 134.1 | Plankton #/L: |    |    |    |    | 217484 |    |    |  |  |
| Blue-greens (#/L):   |               |            | 209705       | Greens (#/L):       |            |                         | 2248       | Diatoms (#/L): |            |           | 2211        | Other algae (#/L): |           |          | 3148       |       |           |                 |           |           |           |           |              |                    |    |    |    |    |       |               |    |    |    |    |        |    |    |  |  |

## Loon

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/30/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI: |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|-------|--------------------|----|----|----|----|------|---------------|----|----|----|----|------|----|----|--|--|
| 2002                 | 5.5           | 2.9        | 70           | 13.5                | 96.9       | 8.1                     | 7.7        | 465            | 495        | 156       | 162         | 0.009              | 0.011     | 0.032    | 0.051      | 3.28  | 0.013     | 0.013           | 0.018     | 0.06      | 0.933     | 1.063     | 10    |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
|                      |               |            |              |                     |            |                         |            |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           | High  |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21    | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33   | 34 | 35 |  |  |
| Temp                 | 28            | 28         | 28           | 27                  | 27         | 24                      | 19         |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           |       |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| DO                   | 7.8           | 7.7        | 7.7          | 7.6                 | 7.6        | 0.8                     | 0.3        |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           |       |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 57.9       | Blue-Green Dominance %: |            |                |            |           | 21          | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 523   | Zooplankton (#/L): |    |    |    |    | 13.4 | Plankton #/L: |    |    |    |    | 5584 |    |    |  |  |
| Blue-greens (#/L):   |               |            | 1178         | Greens (#/L):       |            |                         | 411        | Diatoms (#/L): |            |           | 2523        | Other algae (#/L): |           |          | 935        |       |           |                 |           |           |           |           |       |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |

## Manlove

County: **Fayette**

Sample Location: **Deep Hole**

Date: **7/23/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:        |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|--------------|--------------------|----|----|----|----|-------|---------------|----|----|----|----|-------|----|----|--|--|
| 2002                 | 2.7           | 0.6        | 3.5          | 3                   | 5.3        | 8.3                     |            | 330            |            | 132       |             | 0.019              |           | 0.181    |            | 43.67 | 0.013     |                 | 0.018     |           | 1.497     |           | 31           |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
|                      |               |            |              |                     |            |                         |            |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           | Intermediate |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21           | 22                 | 23 | 24 | 25 | 26 | 27    | 28            | 29 | 30 | 31 | 32 | 33    | 34 | 35 |  |  |
| Temp                 | 29            | 29         | 27           | 23                  |            |                         |            |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           |              |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
| DO                   | 6.1           | 6.2        | 0.4          | 0.4                 |            |                         |            |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           |              |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 40.9       | Blue-Green Dominance %: |            |                |            |           | 89          | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 307          | Zooplankton (#/L): |    |    |    |    | 195.6 | Plankton #/L: |    |    |    |    | 13770 |    |    |  |  |
| Blue-greens (#/L):   |               |            | 12191        | Greens (#/L):       |            |                         | 154        | Diatoms (#/L): |            |           | 820         | Other algae (#/L): |           |          | 102        |       |           |                 |           |           |           |           |              |                    |    |    |    |    |       |               |    |    |    |    |       |    |    |  |  |



# Clean Lakes Program Data Summary

2002

## Morse Reservoir

County: **Hamilton**

Sample Location: **Deep Hole**

Date: **8/14/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                            |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |    |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|----------------------------------|---------------|----|----|----|----|----|----------------|----|----|----|----|-----|--------------------|----|--|--|--|----|-----------------|--|--|--|--|-----|--------------------|--|--|--|--|------|---------------|--|--|--|--|------|
| 2002                 | 13.7          | 0.9        | 18           | 10                  | 97.8       | 8.2                     | 7.4        | 390        | 332        | 116       | 160         | 0.005     | 0.021     | 0.067    | 0.109      | 9.66  | 2.791     | 1.175              | 0.034     | 1.989     | 2.722     | 2.599     | <b>38</b><br><i>Intermediate</i> |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |    |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                               | 22            | 23 | 24 | 25 | 26 | 27 | 28             | 29 | 30 | 31 | 32 | 33  | 34                 | 35 |  |  |  |    |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
| Temp                 | 26            | 26         | 26           | 26                  | 26         | 26                      | 25         | 21         | 16         | 15        | 13          | 13        | 12        |          |            |       |           |                    |           |           |           |           |                                  |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |    |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
| DO                   | 8.1           | 8.1        | 8.0          | 8                   | 7.8        | 7.6                     | 2.3        | 0.7        | 0.4        | 0.4       | 0.4         | 0.3       | 0.3       |          |            |       |           |                    |           |           |           |           |                                  |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |    |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |      |
| % Water Column Oxid: |               |            |              |                     | 12.8       | Blue-Green Dominance %: |            |            |            |           | 84          | Notes:    |           |          |            |       |           | Blue-greens (#/L): |           |           |           |           | 3744                             | Greens (#/L): |    |    |    |    | 15 | Diatoms (#/L): |    |    |    |    | 419 | Other algae (#/L): |    |  |  |  | 62 | Rotifers (#/L): |  |  |  |  | 154 | Zooplankton (#/L): |  |  |  |  | 49.4 | Plankton #/L: |  |  |  |  | 4444 |

## Otter

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/30/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                            |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|----------------------------------|---------------|----|----|----|----|----|----------------|----|----|----|----|-----|--------------------|----|--|--|--|------|-----------------|--|--|--|--|-----|--------------------|--|--|--|--|------|---------------|--|--|--|--|-------|
| 2002                 | 9.4           | 8.8        | 23           | 11                  | 119.6      | 8.2                     | 7.7        | 465        | 410        | 179       | 241         | 0.014     | 0.012     | 0.022    | 0.056      | 3.79  | 0.552     | 0.015              | 0.018     | 1.162     | 0.885     | 2.248     | <b>29</b><br><i>Intermediate</i> |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                               | 22            | 23 | 24 | 25 | 26 | 27 | 28             | 29 | 30 | 31 | 32 | 33  | 34                 | 35 |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
| Temp                 | 26            | 26         | 26           | 26                  | 25         | 20                      | 15         | 12         | 11         | 9.5       |             |           |           |          |            |       |           |                    |           |           |           |           |                                  |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
| DO                   | 9.7           | 9.7        | 9.7          | 9.7                 | 9.9        | 8.1                     | 0.9        | 0.4        | 0.4        | 0.3       |             |           |           |          |            |       |           |                    |           |           |           |           |                                  |               |    |    |    |    |    |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |      |               |  |  |  |  |       |
| % Water Column Oxid: |               |            |              |                     | 45.3       | Blue-Green Dominance %: |            |            |            |           | 82          | Notes:    |           |          |            |       |           | Blue-greens (#/L): |           |           |           |           | 31931                            | Greens (#/L): |    |    |    |    | 0  | Diatoms (#/L): |    |    |    |    | 146 | Other algae (#/L): |    |  |  |  | 6626 | Rotifers (#/L): |  |  |  |  | 328 | Zooplankton (#/L): |  |  |  |  | 65.2 | Plankton #/L: |  |  |  |  | 39096 |

## Pigeon

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/8/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp          | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:                    |               |    |    |    |    |      |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |       |               |  |  |  |  |       |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|------------|------------|-----------|-------------|-----------|-----------|----------|------------|-------|-----------|--------------------|-----------|-----------|-----------|-----------|--------------------------|---------------|----|----|----|----|------|----------------|----|----|----|----|-----|--------------------|----|--|--|--|------|-----------------|--|--|--|--|-----|--------------------|--|--|--|--|-------|---------------|--|--|--|--|-------|
| 2002                 | 11.6          | 2.6        | 47           | 13                  | 118.8      | 8.3                     | 7.5        | 690        | 390        | 264       | 207         | 0.003     | 0.087     | 0.042    | 0.144      |       | 1.574     | 0.52               | 0.087     | 1.984     | 0.897     | 3.613     | <b>25</b><br><i>High</i> |               |    |    |    |    |      |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |       |               |  |  |  |  |       |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6          | 7          | 8         | 9           | 10        | 11        | 12       | 13         | 14    | 15        | 16                 | 17        | 18        | 19        | 20        | 21                       | 22            | 23 | 24 | 25 | 26 | 27   | 28             | 29 | 30 | 31 | 32 | 33  | 34                 | 35 |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |       |               |  |  |  |  |       |
| Temp                 | 27            | 26         | 26           | 24                  | 22         | 19                      | 12         | 11         | 10         | 9.8       | 9.6         | 9.5       |           |          |            |       |           |                    |           |           |           |           |                          |               |    |    |    |    |      |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |       |               |  |  |  |  |       |
| DO                   | 9.1           | 9.2        | 9.7          | 9.8                 | 5          | 0.8                     | 0.2        | 0.2        | 0.2        | 0.2       | 0.2         | 0.2       |           |          |            |       |           |                    |           |           |           |           |                          |               |    |    |    |    |      |                |    |    |    |    |     |                    |    |  |  |  |      |                 |  |  |  |  |     |                    |  |  |  |  |       |               |  |  |  |  |       |
| % Water Column Oxid: |               |            |              |                     | 27.4       | Blue-Green Dominance %: |            |            |            |           | 22          | Notes:    |           |          |            |       |           | Blue-greens (#/L): |           |           |           |           | 3426                     | Greens (#/L): |    |    |    |    | 1963 | Diatoms (#/L): |    |    |    |    | 765 | Other algae (#/L): |    |  |  |  | 9414 | Rotifers (#/L): |  |  |  |  | 249 | Zooplankton (#/L): |  |  |  |  | 107.2 | Plankton #/L: |  |  |  |  | 15925 |

# Clean Lakes Program Data Summary

2002

| Pleasant           |      | County: <b>Steuben</b> |      |                |     |                    |    |                     |    |                    |      | Sample Location: <b>Deep Hole</b> |        |            |     |            |     |            |     |           |     | Date: <b>7/29/2002</b> |     |           |       |           |       |          |       |            |       |       |      |           |       |           |       |           |      |           |       |           |       |           |       |       |    |      |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |     |                      |      |                         |      |        |  |
|--------------------|------|------------------------|------|----------------|-----|--------------------|----|---------------------|----|--------------------|------|-----------------------------------|--------|------------|-----|------------|-----|------------|-----|-----------|-----|------------------------|-----|-----------|-------|-----------|-------|----------|-------|------------|-------|-------|------|-----------|-------|-----------|-------|-----------|------|-----------|-------|-----------|-------|-----------|-------|-------|----|------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|----------------------|------|-------------------------|------|--------|--|
| Year               | 2002 | Max Depth (m)          | 15.8 | Secchi (m)     | 2.1 | Light@3' (%)       | 55 | 1% Light Level (ft) | 21 | DO @5' (%)         | 90.2 | pH - epi                          | 8.2    | pH - hypso | 7.5 | Cond - epi | 435 | Cond - hyp | 340 | Alk - epi | 123 | Alk - hypso            | 144 | SRP - epi | 0.014 | SRP - hyp | 0.014 | TP - epi | 0.016 | TP - hypso | 0.038 | Chl a | 1.67 | NO3 - epi | 0.013 | NO3 - hyp | 0.013 | NH3 - epi | 0.03 | NH3 - hyp | 0.474 | TKN - epi | 0.927 | TKN - hyp | 1.054 | ITSI: | 17 | High |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |     |                      |      |                         |      |        |  |
| Depth              | 0    | 1                      | 1.5  | 2              | 3   | 4                  | 5  | 6                   | 7  | 8                  | 9    | 10                                | 11     | 12         | 13  | 14         | 15  | 16         | 17  | 18        | 19  | 20                     | 21  | 22        | 23    | 24        | 25    | 26       | 27    | 28         | 29    | 30    | 31   | 32        | 33    | 34        | 35    | Temp      | 26   | 26        | 26    | 26        | 26    | 26        | 26    | 24    | 20 | 17   | 15 | 14 | 13 | 13 | 12 | 12 | DO | 7.4 | 7.3 | 7.3 | 7.3 | 7.3 | 7.1 | 6.8 | 0.8 | 2.9 | 3 | 2.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | % Water Column Oxid: | 32.2 | Blue-Green Dominance %: | 2984 | Notes: |  |
| Blue-greens (#/L): | 0    | Greens (#/L):          | 0    | Diatoms (#/L): | 0   | Other algae (#/L): | 0  | Rotifers (#/L):     | 0  | Zooplankton (#/L): | 9.7  | Plankton #/L:                     | 2993.7 |            |     |            |     |            |     |           |     |                        |     |           |       |           |       |          |       |            |       |       |      |           |       |           |       |           |      |           |       |           |       |           |       |       |    |      |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |     |     |                      |      |                         |      |        |  |

| Prairie Creek Reservoir |       | County: <b>Delaware</b> |      |                |     |                    |       |                     |     |                    |      | Sample Location: <b>Deep Hole</b> |       |            |    |            |     |            |     |           |     | Date: <b>8/20/2002</b> |     |           |       |           |       |          |       |            |       |       |       |           |       |           |       |           |       |           |       |           |       |           |       |       |    |      |    |     |     |     |     |     |     |     |     |     |     |                      |      |                         |    |        |  |
|-------------------------|-------|-------------------------|------|----------------|-----|--------------------|-------|---------------------|-----|--------------------|------|-----------------------------------|-------|------------|----|------------|-----|------------|-----|-----------|-----|------------------------|-----|-----------|-------|-----------|-------|----------|-------|------------|-------|-------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-------|----|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|------|-------------------------|----|--------|--|
| Year                    | 2002  | Max Depth (m)           | 9.14 | Secchi (m)     | 0.7 | Light@3' (%)       | 11    | 1% Light Level (ft) | 7   | DO @5' (%)         | 88.9 | pH - epi                          | 8.2   | pH - hypso | 8  | Cond - epi | 360 | Cond - hyp | 370 | Alk - epi | 142 | Alk - hypso            | 144 | SRP - epi | 0.005 | SRP - hyp | 0.008 | TP - epi | 0.062 | TP - hypso | 0.084 | Chl a | 21.57 | NO3 - epi | 0.012 | NO3 - hyp | 0.022 | NH3 - epi | 0.036 | NH3 - hyp | 0.121 | TKN - epi | 0.959 | TKN - hyp | 1.068 | ITSI: | 19 | High |    |     |     |     |     |     |     |     |     |     |     |                      |      |                         |    |        |  |
| Depth                   | 0     | 1                       | 1.5  | 2              | 3   | 4                  | 5     | 6                   | 7   | 8                  | 9    | 10                                | 11    | 12         | 13 | 14         | 15  | 16         | 17  | 18        | 19  | 20                     | 21  | 22        | 23    | 24        | 25    | 26       | 27    | 28         | 29    | 30    | 31    | 32        | 33    | 34        | 35    | Temp      | 25    | 25        | 25    | 25        | 25    | 25        | 25    | 25    | 25 | 21   | DO | 7.7 | 7.3 | 7.4 | 6.9 | 6.1 | 6.2 | 6.2 | 6.2 | 4.5 | 0.4 | % Water Column Oxid: | 87.5 | Blue-Green Dominance %: | 41 | Notes: |  |
| Blue-greens (#/L):      | 10342 | Greens (#/L):           | 638  | Diatoms (#/L): | 109 | Other algae (#/L): | 13480 | Rotifers (#/L):     | 456 | Zooplankton (#/L): | 77.8 | Plankton #/L:                     | 25103 |            |    |            |     |            |     |           |     |                        |     |           |       |           |       |          |       |            |       |       |       |           |       |           |       |           |       |           |       |           |       |           |       |       |    |      |    |     |     |     |     |     |     |     |     |     |     |                      |      |                         |    |        |  |

| Pretty             |      | County: <b>Lagrange</b> |      |                |     |                    |      |                     |    |                    |      | Sample Location: <b>Deep Hole</b> |      |            |     |            |     |            |     |           |     | Date: <b>8/12/2002</b> |     |           |       |           |       |          |       |            |       |       |      |           |       |           |       |           |       |           |       |           |       |           |       |       |    |      |    |    |     |     |     |     |   |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |   |     |     |     |     |   |     |   |   |     |     |     |     |     |                      |      |                         |    |        |  |
|--------------------|------|-------------------------|------|----------------|-----|--------------------|------|---------------------|----|--------------------|------|-----------------------------------|------|------------|-----|------------|-----|------------|-----|-----------|-----|------------------------|-----|-----------|-------|-----------|-------|----------|-------|------------|-------|-------|------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-------|----|------|----|----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|---|-----|---|---|-----|-----|-----|-----|-----|----------------------|------|-------------------------|----|--------|--|
| Year               | 2002 | Max Depth (m)           | 24.4 | Secchi (m)     | 4.8 | Light@3' (%)       | 55   | 1% Light Level (ft) | 28 | DO @5' (%)         | 83   | pH - epi                          | 8.35 | pH - hypso | 7.4 | Cond - epi | 350 | Cond - hyp | 270 | Alk - epi | 114 | Alk - hypso            | 140 | SRP - epi | 0.006 | SRP - hyp | 0.026 | TP - epi | 0.017 | TP - hypso | 0.034 | Chl a | 1.01 | NO3 - epi | 0.013 | NO3 - hyp | 0.333 | NH3 - epi | 0.018 | NH3 - hyp | 0.181 | TKN - epi | 0.661 | TKN - hyp | 0.756 | ITSI: | 16 | High |    |    |     |     |     |     |   |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |   |     |     |     |     |   |     |   |   |     |     |     |     |     |                      |      |                         |    |        |  |
| Depth              | 0    | 1                       | 1.5  | 2              | 3   | 4                  | 5    | 6                   | 7  | 8                  | 9    | 10                                | 11   | 12         | 13  | 14         | 15  | 16         | 17  | 18        | 19  | 20                     | 21  | 22        | 23    | 24        | 25    | 26       | 27    | 28         | 29    | 30    | 31   | 32        | 33    | 34        | 35    | Temp      | 27    | 27        | 27    | 27        | 27    | 26        | 26    | 19    | 17 | 14   | 12 | 10 | 9.2 | 8.3 | 7.6 | 7.2 | 7 | 6.7 | 6.7 | 6.4 | 6.3 | 6.2 | 6.2 | DO | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.4 | 6.2 | 6.7 | 6.4 | 6 | 3.9 | 1.6 | 1.4 | 1.5 | 2 | 2.1 | 2 | 2 | 1.9 | 1.4 | 0.9 | 0.5 | 0.5 | % Water Column Oxid: | 78.7 | Blue-Green Dominance %: | 83 | Notes: |  |
| Blue-greens (#/L): | 7440 | Greens (#/L):           | 8    | Diatoms (#/L): | 101 | Other algae (#/L): | 1399 | Rotifers (#/L):     | 25 | Zooplankton (#/L): | 10.6 | Plankton #/L:                     | 8983 |            |     |            |     |            |     |           |     |                        |     |           |       |           |       |          |       |            |       |       |      |           |       |           |       |           |       |           |       |           |       |           |       |       |    |      |    |    |     |     |     |     |   |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |   |     |     |     |     |   |     |   |   |     |     |     |     |     |                      |      |                         |    |        |  |

# Clean Lakes Program Data Summary

2002

## Salamonie Reservoir

County: **Huntington**

Sample Location: **Deep Hole**

Date: **8/19/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:                            |               |    |    |       |    |    |    |    |    |    |    |    |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|----------------------------------|---------------|----|----|-------|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                 | 18.3          | 0.6        | 10           | 6                   | 92.8       | 8.4                     | 7.4        | 300            | 340        | 91        | 164         | 0.008              | 0.202     | 0.067    | 0.326      | 17.14           | 0.65      | 0.373     | 0.029     | 1.294              | 0.937     | 2.09      | <b>40</b><br><i>Intermediate</i> |               |    |    |       |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21                               | 22            | 23 | 24 | 25    | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                 | 26            | 26         | 26           | 26                  | 26         | 26                      | 25         | 23             | 21         | 20        | 19          | 18                 | 18        | 18       | 17         | 17              | 16        | 16        | 16        | 15                 |           |           |                                  |               |    |    |       |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                   | 7.7           | 7.6        | 7.6          | 7.6                 | 7.6        | 7.4                     | 1.7        | 0.5            | 0.4        | 0.4       | 0.4         | 0.4                | 0.4       | 0.3      | 0.3        | 0.3             | 0.3       | 0.3       | 0.3       | 0.3                | 0.3       | 0.3       |                                  |               |    |    |       |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 27.2       | Blue-Green Dominance %: |            |                |            |           | 90          | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                                  |               |    |    |       |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L):   |               |            | 15559        | Greens (#/L):       |            |                         | 1214       | Diatoms (#/L): |            |           | 0           | Other algae (#/L): |           |          | 228        | Rotifers (#/L): |           |           | 152       | Zooplankton (#/L): |           |           | 69.3                             | Plankton #/L: |    |    | 17222 |    |    |    |    |    |    |    |    |    |    |  |  |

## Shakamak

County: **Sullivan**

Sample Location: **Deep Hole**

Date: **6/18/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:                            |               |    |    |        |    |    |    |    |    |    |    |    |    |    |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|----------------------------------|---------------|----|----|--------|----|----|----|----|----|----|----|----|----|----|--|
| 2002                 | 7.9           | 1.9        | 10           | 39                  | 103.9      | 7.8                     | 7.2        | 183.1          | 197.3      | 59        | 95.5        | 0.005              | 0.247     | 0.056    | 0.271      | 1.65            | 0.013     | 0.013     | 0.018     | 0.649              | 0.634     | 2.06      | <b>41</b><br><i>Intermediate</i> |               |    |    |        |    |    |    |    |    |    |    |    |    |    |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21                               | 22            | 23 | 24 | 25     | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                 | 26            | 25         | 25           | 23                  | 17         | 12                      | 9.9        | 9              |            |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                                  |               |    |    |        |    |    |    |    |    |    |    |    |    |    |  |
| DO                   | 9.8           | 10         | 8.9          | 12                  | 2.9        | 0.8                     | 0.7        | 0.7            |            |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                                  |               |    |    |        |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxid: |               |            |              |                     | 49.2       | Blue-Green Dominance %: |            |                |            |           | 93          | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                                  |               |    |    |        |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L):   |               |            | 132006       | Greens (#/L):       |            |                         | 343        | Diatoms (#/L): |            |           | 196         | Other algae (#/L): |           |          | 9163       | Rotifers (#/L): |           |           | 147       | Zooplankton (#/L): |           |           | 115.4                            | Plankton #/L: |    |    | 141970 |    |    |    |    |    |    |    |    |    |    |  |

## Silver

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/30/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:                    |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|--------------------------|---------------|----|----|------|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                 | 11.6          | 3.8        | 42           | 24                  | 100.7      | 8.3                     | 7.7        | 402            | 374        | 124       | 175         | 0.011              | 0.013     | 0.01     | 0.038      | 1.57            | 0.013     | 0.013     | 0.018     | 0.018              | 0.509     | 0.745     | <b>17</b><br><i>High</i> |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21                       | 22            | 23 | 24 | 25   | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                 | 27            | 27         | 27           | 27                  | 26         | 26                      | 22         | 18             | 16         | 15        | 13          | 12                 |           |          |            |                 |           |           |           |                    |           |           |                          |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                   | 8.1           | 8.1        | 8.1          | 8.1                 | 7.8        | 7.4                     | 9.8        | 3.9            | 0.7        | 0.7       | 0.5         | 0.3                |           |          |            |                 |           |           |           |                    |           |           |                          |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 56.2       | Blue-Green Dominance %: |            |                |            |           | 68          | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                          |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L):   |               |            | 797          | Greens (#/L):       |            |                         | 35         | Diatoms (#/L): |            |           | 17          | Other algae (#/L): |           |          | 260        | Rotifers (#/L): |           |           | 61        | Zooplankton (#/L): |           |           | 6.5                      | Plankton #/L: |    |    | 1176 |    |    |    |    |    |    |    |    |    |    |  |  |

# Clean Lakes Program Data Summary

2002

| Snow                 |      | County: <b>Steuben</b>  |     |            |     |              |    |                     |    |            |     | Sample Location: <b>Deep Hole</b> |     |            |     |            |     |            |     |           |     | Date: <b>7/2/2002</b> |     |                 |       |                    |       |               |       |            |       |       |      |           |       |           |       |           |       |           |       |           |       |           |       |       |    |      |    |    |     |     |   |     |     |     |     |   |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----------------------|------|-------------------------|-----|------------|-----|--------------|----|---------------------|----|------------|-----|-----------------------------------|-----|------------|-----|------------|-----|------------|-----|-----------|-----|-----------------------|-----|-----------------|-------|--------------------|-------|---------------|-------|------------|-------|-------|------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-------|----|------|----|----|-----|-----|---|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Year                 | 2002 | Max Depth (m)           | 25  | Secchi (m) | 4.8 | Light@3' (%) | 36 | 1% Light Level (ft) | 20 | DO @5' (%) | 100 | pH - epi                          | 8.1 | pH - hypso | 7.8 | Cond - epi | 550 | Cond - hyp | 400 | Alk - epi | 182 | Alk - hypso           | 209 | SRP - epi       | 0.005 | SRP - hyp          | 0.108 | TP - epi      | 0.029 | TP - hypso | 0.117 | Chl a | 0.87 | NO3 - epi | 0.028 | NO3 - hyp | 0.174 | NH3 - epi | 0.161 | NH3 - hyp | 0.599 | TKN - epi | 0.656 | TKN - hyp | 0.988 | ITSI: | 22 | High |    |    |     |     |   |     |     |     |     |   |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Depth                | 0    | 1                       | 1.5 | 2          | 3   | 4            | 5  | 6                   | 7  | 8          | 9   | 10                                | 11  | 12         | 13  | 14         | 15  | 16         | 17  | 18        | 19  | 20                    | 21  | 22              | 23    | 24                 | 25    | 26            | 27    | 28         | 29    | 30    | 31   | 32        | 33    | 34        | 35    | Temp      | 28    | 28        | 28    | 28        | 27    | 25        | 19    | 16    | 14 | 13   | 12 | 10 | 8.8 | 7.4 | 7 | 6.7 | 6.5 | 6.2 | 6.2 | 6 | 5.9 | 5.7 | 5.6 | 5.5 | 5.3 | 5.3 | 5.2 | DO | 7.9 | 7.9 | 7.8 | 7.8 | 7.2 | 6.8 | 5.8 | 5.8 | 5.9 | 5.8 | 4.8 | 5.2 | 4.9 | 4.4 | 4.6 | 4.8 | 4.6 | 4.7 | 4.8 | 4.9 | 4.8 | 4.3 | 3.5 | 2.3 | 0.3 | 0.3 | 0.3 |
| % Water Column Oxid: |      | Blue-Green Dominance %: |     |            |     |              |    |                     |    |            |     | Notes:                            |     |            |     |            |     |            |     |           |     |                       |     |                 |       |                    |       |               |       |            |       |       |      |           |       |           |       |           |       |           |       |           |       |           |       |       |    |      |    |    |     |     |   |     |     |     |     |   |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Blue-greens (#/L):   |      | Greens (#/L):           |     |            |     |              |    |                     |    |            |     | Diatoms (#/L):                    |     |            |     |            |     |            |     |           |     | Other algae (#/L):    |     | Rotifers (#/L): |       | Zooplankton (#/L): |       | Plankton #/L: |       |            |       |       |      |           |       |           |       |           |       |           |       |           |       |           |       |       |    |      |    |    |     |     |   |     |     |     |     |   |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 22986                |      | 379                     |     |            |     |              |    |                     |    |            |     | 1151                              |     |            |     |            |     |            |     |           |     | 792                   |     | 47              |       | 14.9               |       | 25370         |       |            |       |       |      |           |       |           |       |           |       |           |       |           |       |           |       |       |    |      |    |    |     |     |   |     |     |     |     |   |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

| Springs Valley (Tucker) |      | County: <b>Orange</b>   |     |            |     |              |    |                     |    |            |      | Sample Location: <b>Deep Hole</b> |      |            |      |            |     |            |     |           |    | Date: <b>7/15/2002</b> |    |                 |      |                    |       |               |      |            |       |       |      |           |    |           |       |           |       |           |       |           |       |           |       |       |    |              |    |     |     |     |     |     |    |     |     |     |     |
|-------------------------|------|-------------------------|-----|------------|-----|--------------|----|---------------------|----|------------|------|-----------------------------------|------|------------|------|------------|-----|------------|-----|-----------|----|------------------------|----|-----------------|------|--------------------|-------|---------------|------|------------|-------|-------|------|-----------|----|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-------|----|--------------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Year                    | 2002 | Max Depth (m)           | 8.8 | Secchi (m) | 3.6 | Light@3' (%) | 48 | 1% Light Level (ft) | 15 | DO @5' (%) | 96.9 | pH - epi                          | 7.95 | pH - hypso | 7.95 | Cond - epi | 150 | Cond - hyp | 135 | Alk - epi | 56 | Alk - hypso            | 56 | SRP - epi       | 0.01 | SRP - hyp          | 0.044 | TP - epi      | 0.03 | TP - hypso | 0.031 | Chl a | 0.12 | NO3 - epi |    | NO3 - hyp | 0.013 | NH3 - epi | 0.018 | NH3 - hyp | 0.592 | TKN - epi | 0.522 | TKN - hyp | 0.135 | ITSI: | 29 | Intermediate |    |     |     |     |     |     |    |     |     |     |     |
| Depth                   | 0    | 1                       | 1.5 | 2          | 3   | 4            | 5  | 6                   | 7  | 8          | 9    | 10                                | 11   | 12         | 13   | 14         | 15  | 16         | 17  | 18        | 19 | 20                     | 21 | 22              | 23   | 24                 | 25    | 26            | 27   | 28         | 29    | 30    | 31   | 32        | 33 | 34        | 35    | Temp      | 30    | 28        | 28    | 30        | 28    | 21        | 14    | 11    | 10 | 9.6          | DO | 7.4 | 7.5 | 7.6 | 7.4 | 7.3 | 10 | 0.6 | 0.3 | 0.3 | 0.3 |
| % Water Column Oxid:    |      | Blue-Green Dominance %: |     |            |     |              |    |                     |    |            |      | Notes:                            |      |            |      |            |     |            |     |           |    |                        |    |                 |      |                    |       |               |      |            |       |       |      |           |    |           |       |           |       |           |       |           |       |           |       |       |    |              |    |     |     |     |     |     |    |     |     |     |     |
| Blue-greens (#/L):      |      | Greens (#/L):           |     |            |     |              |    |                     |    |            |      | Diatoms (#/L):                    |      |            |      |            |     |            |     |           |    | Other algae (#/L):     |    | Rotifers (#/L): |      | Zooplankton (#/L): |       | Plankton #/L: |      |            |       |       |      |           |    |           |       |           |       |           |       |           |       |           |       |       |    |              |    |     |     |     |     |     |    |     |     |     |     |
| 74906                   |      | 385                     |     |            |     |              |    |                     |    |            |      | 1753                              |      |            |      |            |     |            |     |           |    | 855                    |    | 0               |      | 26                 |       | 77925         |      |            |       |       |      |           |    |           |       |           |       |           |       |           |       |           |       |       |    |              |    |     |     |     |     |     |    |     |     |     |     |

| Spurgeon Hollow      |      | County: <b>Washington</b> |     |            |     |              |    |                     |    |            |      | Sample Location: <b>Deep Hole</b> |      |            |     |            |    |            |    |           |       | Date: <b>7/16/2002</b> |      |                 |       |                    |       |               |       |            |       |       |      |           |       |           |       |           |      |           |       |           |       |           |      |       |    |      |    |     |     |     |     |     |     |   |     |     |     |
|----------------------|------|---------------------------|-----|------------|-----|--------------|----|---------------------|----|------------|------|-----------------------------------|------|------------|-----|------------|----|------------|----|-----------|-------|------------------------|------|-----------------|-------|--------------------|-------|---------------|-------|------------|-------|-------|------|-----------|-------|-----------|-------|-----------|------|-----------|-------|-----------|-------|-----------|------|-------|----|------|----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|
| Year                 | 2002 | Max Depth (m)             | 8.5 | Secchi (m) | 8.7 | Light@3' (%) | 45 | 1% Light Level (ft) | 20 | DO @5' (%) | 88.9 | pH - epi                          | 7.15 | pH - hypso | 6.7 | Cond - epi | 93 | Cond - hyp | 89 | Alk - epi | 20.25 | Alk - hypso            | 23.5 | SRP - epi       | 0.022 | SRP - hyp          | 0.013 | TP - epi      | 0.069 | TP - hypso | 0.063 | Chl a | 0.57 | NO3 - epi | 0.013 | NO3 - hyp | 0.013 | NH3 - epi | 0.04 | NH3 - hyp | 0.234 | TKN - epi | 0.338 | TKN - hyp | 0.73 | ITSI: | 8  | High |    |     |     |     |     |     |     |   |     |     |     |
| Depth                | 0    | 1                         | 1.5 | 2          | 3   | 4            | 5  | 6                   | 7  | 8          | 9    | 10                                | 11   | 12         | 13  | 14         | 15 | 16         | 17 | 18        | 19    | 20                     | 21   | 22              | 23    | 24                 | 25    | 26            | 27    | 28         | 29    | 30    | 31   | 32        | 33    | 34        | 35    | Temp      | 29   | 29        | 29    | 28        | 28    | 21        | 19   | 16    | 15 | 13   | DO | 7.1 | 7.0 | 6.9 | 7.2 | 6.7 | 4.0 | 2 | 0.5 | 0.3 | 0.3 |
| % Water Column Oxid: |      | Blue-Green Dominance %:   |     |            |     |              |    |                     |    |            |      | Notes:                            |      |            |     |            |    |            |    |           |       |                        |      |                 |       |                    |       |               |       |            |       |       |      |           |       |           |       |           |      |           |       |           |       |           |      |       |    |      |    |     |     |     |     |     |     |   |     |     |     |
| Blue-greens (#/L):   |      | Greens (#/L):             |     |            |     |              |    |                     |    |            |      | Diatoms (#/L):                    |      |            |     |            |    |            |    |           |       | Other algae (#/L):     |      | Rotifers (#/L): |       | Zooplankton (#/L): |       | Plankton #/L: |       |            |       |       |      |           |       |           |       |           |      |           |       |           |       |           |      |       |    |      |    |     |     |     |     |     |     |   |     |     |     |
| 757                  |      | 176                       |     |            |     |              |    |                     |    |            |      | 0                                 |      |            |     |            |    |            |    |           |       | 809                    |      | 352             |       | 33                 |       | 2127          |       |            |       |       |      |           |       |           |       |           |      |           |       |           |       |           |      |       |    |      |    |     |     |     |     |     |     |   |     |     |     |

# Clean Lakes Program Data Summary

2002

## St. Joseph Reservoir

County: **Allen**

Sample Location: **Deep Hole**

Date: **8/19/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:             |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|-------------------|---------------|----|----|------|----|----|----|----|----|----|----|----|----|----|--|
| 2002                 | 3.05          | 0.5        | 4.5          | 4                   | 120.6      | 8.1                     |            | 600            |            | 195       |             | 0.016              |           | 0.121    |            | 6.88            | 0.078     |           | 0.147     |                    | 1.066     |           | <b>18</b><br>High |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21                | 22            | 23 | 24 | 25   | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                 | 25            | 25         | 25           | 25                  | 24         |                         |            |                |            |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                   |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
| DO                   | 10            | 9.9        | 10           | 9.9                 | 9.1        |                         |            |                |            |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                   |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxid: |               |            |              |                     | 100        | Blue-Green Dominance %: |            |                |            |           | 27          | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                   |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L):   |               |            | 555          | Greens (#/L):       |            |                         | 31         | Diatoms (#/L): |            |           | 308         | Other algae (#/L): |           |          | 401        | Rotifers (#/L): |           |           | 740       | Zooplankton (#/L): |           |           | 3.6               | Plankton #/L: |    |    | 2038 |    |    |    |    |    |    |    |    |    |    |  |

## Starve Hollow

County: **Jackson**

Sample Location: **Deep Hole**

Date: **7/16/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:             |               |    |    |     |    |    |    |    |    |    |    |    |    |    |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|-------------------|---------------|----|----|-----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                 | 5.2           | 1.1        | 32           | 9                   | 36.9       | 8.3                     | 7.5        | 280            | 290        | 100       | 106         | 0.012              | 0.013     | 0.083    | 0.102      | 5.8             | 0.062     | 0.135     | 0.039     | 0.345              | 0.5       | 0.83      | <b>15</b><br>High |               |    |    |     |    |    |    |    |    |    |    |    |    |    |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21                | 22            | 23 | 24 | 25  | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                 | 29            | 28         | 27           | 26                  | 26         | 20                      |            |                |            |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                   |               |    |    |     |    |    |    |    |    |    |    |    |    |    |  |
| DO                   | 9.6           | 8.8        | 3            | 1.2                 | 0.3        | 0.3                     |            |                |            |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                   |               |    |    |     |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxid: |               |            |              |                     | 46.8       | Blue-Green Dominance %: |            |                |            |           | 16          | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                   |               |    |    |     |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L):   |               |            | 100          | Greens (#/L):       |            |                         | 17         | Diatoms (#/L): |            |           | 0           | Other algae (#/L): |           |          | 300        | Rotifers (#/L): |           |           | 183       | Zooplankton (#/L): |           |           | 39.4              | Plankton #/L: |    |    | 639 |    |    |    |    |    |    |    |    |    |    |  |

## Stayner/Gannon

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/29/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a           | NO3 - epi | NO3 - hyp | NH3 - epi | NH3 - hyp          | TKN - epi | TKN - hyp | ITSI:            |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-----------------|-----------|-----------|-----------|--------------------|-----------|-----------|------------------|---------------|----|----|------|----|----|----|----|----|----|----|----|----|----|--|
| 2002                 | 5.8           | 3.3        | 38           | 16                  | 99         | 8.1                     | 7.85       | 405            | 402        | 156       | 185         | 0.013              | 0.009     | 0.014    | 0.055      | 2.03            | 0.013     | 0.013     | 0.018     | 0.322              | 1.533     | 0.949     | <b>9</b><br>High |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14              | 15        | 16        | 17        | 18                 | 19        | 20        | 21               | 22            | 23 | 24 | 25   | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                 | 28            | 27         | 27           | 27                  | 26         | 22                      | 17         |                |            |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                  |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
| DO                   | 8.4           | 8.1        | 7.8          | 7.2                 | 3.1        | 0.5                     | 0.3        |                |            |           |             |                    |           |          |            |                 |           |           |           |                    |           |           |                  |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxid: |               |            |              |                     | 54.6       | Blue-Green Dominance %: |            |                |            |           | 3           | Notes:             |           |          |            |                 |           |           |           |                    |           |           |                  |               |    |    |      |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L):   |               |            | 52           | Greens (#/L):       |            |                         | 21         | Diatoms (#/L): |            |           | 198         | Other algae (#/L): |           |          | 500        | Rotifers (#/L): |           |           | 677       | Zooplankton (#/L): |           |           | 184.8            | Plankton #/L: |    |    | 1632 |    |    |    |    |    |    |    |    |    |    |  |



# Clean Lakes Program Data Summary

2002

## Story (Lower)

County: **Dekalb**

Sample Location: **Deep Hole**

Date: **8/12/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)       | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hypso | Cond - epi | Cond - hyp              | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp           | TP - epi | TP - hypso | Chl a | NO3 - epi               | NO3 - hyp | NH3 - epi | NH3 - hyp | TKN - epi          | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------------------|---------------|------------|--------------------|---------------------|----------------------------|--------------------|------------|------------|-------------------------|-----------|-------------|-----------|---------------------|----------|------------|-------|-------------------------|-----------|-----------|-----------|--------------------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                           | 9.1           | 2.5        | 40                 | 11.5                | 89.5                       | 8.3                | 7.4        | 410        | 400                     | 150       | 240         | 0.006     | 0.596               | 0.042    | 0.68       | 2.6   | 0.013                   | 0.013     | 0.018     | 3.957     | 0.709              | 4.888     | <b>32</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                          | 0             | 1          | 1.5                | 2                   | 3                          | 4                  | 5          | 6          | 7                       | 8         | 9           | 10        | 11                  | 12       | 13         | 14    | 15                      | 16        | 17        | 18        | 19                 | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                           | 29            | 28         | 28                 | 27                  | 26                         | 19                 | 14         | 11         | 9.4                     | 9         |             |           |                     |          |            |       |                         |           |           |           |                    |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                             | 6.9           | 7          | 7                  | 7.1                 | 7.6                        | 1.3                | 0.2        | 0.2        | 0.2                     | 0.2       |             |           |                     |          |            |       |                         |           |           |           |                    |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxidation: 48.6 |               |            |                    |                     | Blue-Green Dominance %: 81 |                    |            |            |                         | Notes:    |             |           |                     |          |            |       |                         |           |           |           |                    |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 18965       |               |            | Greens (#/L): 1292 |                     |                            | Diatoms (#/L): 302 |            |            | Other algae (#/L): 2584 |           |             |           | Rotifers (#/L): 220 |          |            |       | Zooplankton (#/L): 72.7 |           |           |           | Plankton #/L: 8145 |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

## Story (Upper)

County: **Dekalb**

Sample Location: **Deep Hole**

Date: **8/12/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hypso | Cond - epi | Cond - hyp              | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp           | TP - epi | TP - hypso | Chl a | NO3 - epi              | NO3 - hyp | NH3 - epi | NH3 - hyp | TKN - epi           | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------------------|---------------|------------|-------------------|---------------------|----------------------------|--------------------|------------|------------|-------------------------|-----------|-------------|-----------|---------------------|----------|------------|-------|------------------------|-----------|-----------|-----------|---------------------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                           | 8.8           | 1.7        | 23                | 11.5                | 90.7                       | 8.3                | 7.5        | 425        | 390                     | 155       | 23.7        | 0.008     | 0.451               | 0.034    | 0.407      | 3.08  | 0.013                  | 0.013     | 0.018     | 2.206     | 0.993               | 3.575     | <b>37</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                          | 0             | 1          | 1.5               | 2                   | 3                          | 4                  | 5          | 6          | 7                       | 8         | 9           | 10        | 11                  | 12       | 13         | 14    | 15                     | 16        | 17        | 18        | 19                  | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                           | 29            | 28         | 27                | 27                  | 26                         | 20                 | 14         | 11         | 9.5                     | 8.5       |             |           |                     |          |            |       |                        |           |           |           |                     |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                             | 7.2           | 7.5        | 7.2               | 6.9                 | 4.3                        | 1.7                | 0.3        | 0.2        | 0.2                     | 0.2       |             |           |                     |          |            |       |                        |           |           |           |                     |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxidation: 45.3 |               |            |                   |                     | Blue-Green Dominance %: 83 |                    |            |            |                         | Notes:    |             |           |                     |          |            |       |                        |           |           |           |                     |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 40367       |               |            | Greens (#/L): 206 |                     |                            | Diatoms (#/L): 114 |            |            | Other algae (#/L): 7196 |           |             |           | Rotifers (#/L): 663 |          |            |       | Zooplankton (#/L): 541 |           |           |           | Plankton #/L: 48599 |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

## Summit

County: **Henry**

Sample Location: **Deep Hole**

Date: **8/20/2002**

| Year                           | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi          | pH - hypso | Cond - epi | Cond - hyp             | Alk - epi | Alk - hypso | SRP - epi | SRP - hyp          | TP - epi | TP - hypso | Chl a | NO3 - epi               | NO3 - hyp | NH3 - epi | NH3 - hyp | TKN - epi          | TKN - hyp | ITSI:                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------------------|---------------|------------|-------------------|---------------------|----------------------------|-------------------|------------|------------|------------------------|-----------|-------------|-----------|--------------------|----------|------------|-------|-------------------------|-----------|-----------|-----------|--------------------|-----------|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 2002                           | 12.8          | 1.8        | 46                | 21.5                | 96.1                       | 8.2               | 7.7        | 335        | 310                    | 143.5     | 179         | 0.002     | 0.023              | 0.012    | 0.045      | 2.94  | 0.026                   | 0.025     | 0.114     | 0.596     | 0.8                | 1.353     | <b>19</b><br><i>High</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Depth                          | 0             | 1          | 1.5               | 2                   | 3                          | 4                 | 5          | 6          | 7                      | 8         | 9           | 10        | 11                 | 12       | 13         | 14    | 15                      | 16        | 17        | 18        | 19                 | 20        | 21                       | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |  |
| Temp                           | 25            | 25         | 25                | 25                  | 25                         | 25                | 25         | 25         | 25                     | 17        | 16          | 15        | 14                 | 14       |            |       |                         |           |           |           |                    |           |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| DO                             | 7.9           | 7.9        | 7.9               | 7.9                 | 7.9                        | 8                 | 8          | 8          | 7.9                    | 0.5       | 0.5         | 0.4       | 0.4                | 0.4      |            |       |                         |           |           |           |                    |           |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| % Water Column Oxidation: 58.1 |               |            |                   |                     | Blue-Green Dominance %: 74 |                   |            |            |                        | Notes:    |             |           |                    |          |            |       |                         |           |           |           |                    |           |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Blue-greens (#/L): 2371        |               |            | Greens (#/L): 123 |                     |                            | Diatoms (#/L): 21 |            |            | Other algae (#/L): 626 |           |             |           | Rotifers (#/L): 72 |          |            |       | Zooplankton (#/L): 10.1 |           |           |           | Plankton #/L: 3222 |           |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

# Clean Lakes Program Data Summary

2002

## Syl-Van

County: **Steuben**

Sample Location: **Deep Hole**

Date: **7/8/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:             |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|-------------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|-------|----|----|--|
| 2002                 | 14.3          | 3.1        | 25           | 4.88                | 91.9       | 7.55                    | 7          | 160            | 111        | 61        | 71          | 0.007              | 0.029     | 0.093    | 0.072      |       | 0.013     | 0.013           | 0.056     | 0.396     | 0.863     | 1.729     | <b>13</b><br>High |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21                | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33    | 34 | 35 |  |
| Temp                 | 30            | 29         | 28           | 28                  | 23         | 17                      | 14         | 9.9            | 7.8        | 7         | 6.5         | 6.1                | 5.9       |          |            |       |           |                 |           |           |           |           |                   |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |
| DO                   | 7.3           | 7.3        | 7.2          | 6                   | 10         | 10                      | 5.7        | 8.4            | 5.1        | 1         | 0.3         | 0.2                | 0.2       |          |            |       |           |                 |           |           |           |           |                   |                    |    |    |    |    |      |               |    |    |    |    |       |    |    |  |
| % Water Column Oxid: |               |            |              |                     | 70.9       | Blue-Green Dominance %: |            |                |            |           | 39          | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 182               | Zooplankton (#/L): |    |    |    |    | 10.1 | Plankton #/L: |    |    |    |    | 12711 |    |    |  |
| Blue-greens (#/L):   |               |            | 4891         | Greens (#/L):       |            |                         | 0          | Diatoms (#/L): |            |           | 97          | Other algae (#/L): |           |          |            |       | 7530      | Rotifers (#/L): |           |           |           |           | 182               | Zooplankton (#/L): |    |    |    |    | 10.1 | Plankton #/L: |    |    |    |    | 12711 |    |    |  |

## Versailles

County: **Ripley**

Sample Location: **Deep Hole**

Date: **7/22/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:             |                    |    |    |    |    |       |               |    |    |    |    |      |    |    |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|-------------------|--------------------|----|----|----|----|-------|---------------|----|----|----|----|------|----|----|--|--|
| 2002                 | 9.1           | 0.5        | 8            | 5                   | 58         | 7.9                     | 7.2        | 375            | 390        | 137       | 167         | 0.016              | 0.144     | 0.087    | 0.171      | 2.1   | 0.013     | 0.018           | 0.018     | 1.879     | 1.086     | 2.475     | <b>24</b><br>High |                    |    |    |    |    |       |               |    |    |    |    |      |    |    |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21                | 22                 | 23 | 24 | 25 | 26 | 27    | 28            | 29 | 30 | 31 | 32 | 33   | 34 | 35 |  |  |
| Temp                 | 29            | 30         | 29           | 28                  | 26         | 24                      | 21         |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           |                   |                    |    |    |    |    |       |               |    |    |    |    |      |    |    |  |  |
| DO                   | 8.3           | 6.9        | 4.2          | 1.5                 | 0.4        | 0.3                     | 0.3        |                |            |           |             |                    |           |          |            |       |           |                 |           |           |           |           |                   |                    |    |    |    |    |       |               |    |    |    |    |      |    |    |  |  |
| % Water Column Oxid: |               |            |              |                     | 36.4       | Blue-Green Dominance %: |            |                |            |           | 35          | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 793               | Zooplankton (#/L): |    |    |    |    | 263.3 | Plankton #/L: |    |    |    |    | 2549 |    |    |  |  |
| Blue-greens (#/L):   |               |            | 886          | Greens (#/L):       |            |                         | 47         | Diatoms (#/L): |            |           | 93          | Other algae (#/L): |           |          |            |       | 466       | Rotifers (#/L): |           |           |           |           | 793               | Zooplankton (#/L): |    |    |    |    | 263.3 | Plankton #/L: |    |    |    |    | 2549 |    |    |  |  |

## Wall

County: **Lagrange**

Sample Location: **Deep Hole**

Date: **7/29/2002**

| Year                 | Max Depth (m) | Secchi (m) | Light@3' (%) | 1% Light Level (ft) | DO @5' (%) | pH - epi                | pH - hypso | Cond - epi     | Cond - hyp | Alk - epi | Alk - hypso | SRP - epi          | SRP - hyp | TP - epi | TP - hypso | Chl a | NO3 - epi | NO3 - hyp       | NH3 - epi | NH3 - hyp | TKN - epi | TKN - hyp | ITSI:            |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |
|----------------------|---------------|------------|--------------|---------------------|------------|-------------------------|------------|----------------|------------|-----------|-------------|--------------------|-----------|----------|------------|-------|-----------|-----------------|-----------|-----------|-----------|-----------|------------------|--------------------|----|----|----|----|------|---------------|----|----|----|----|------|----|----|--|--|--|
| 2002                 | 10.4          | 3.9        | 41           | 25                  | 100.2      | 8.45                    | 7.85       | 290            | 265        | 100       | 174         | 0.008              | 0.008     | 0.016    | 0.048      | 1.92  | 0.013     | 0.013           | 0.018     | 0.086     | 0.814     | 0.785     | <b>8</b><br>High |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |
| Depth                | 0             | 1          | 1.5          | 2                   | 3          | 4                       | 5          | 6              | 7          | 8         | 9           | 10                 | 11        | 12       | 13         | 14    | 15        | 16              | 17        | 18        | 19        | 20        | 21               | 22                 | 23 | 24 | 25 | 26 | 27   | 28            | 29 | 30 | 31 | 32 | 33   | 34 | 35 |  |  |  |
| Temp                 | 27            | 27         | 27           | 27                  | 27         | 27                      | 21         | 17             | 15         | 12        | 11          |                    |           |          |            |       |           |                 |           |           |           |           |                  |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |
| DO                   | 8.1           | 8.1        | 8.0          | 8.0                 | 8          | 8                       | 9.5        | 5.3            | 1.2        | 0.7       | 0.4         |                    |           |          |            |       |           |                 |           |           |           |           |                  |                    |    |    |    |    |      |               |    |    |    |    |      |    |    |  |  |  |
| % Water Column Oxid: |               |            |              |                     | 71.8       | Blue-Green Dominance %: |            |                |            |           | 7           | Notes:             |           |          |            |       |           | Rotifers (#/L): |           |           |           |           | 163              | Zooplankton (#/L): |    |    |    |    | 22.1 | Plankton #/L: |    |    |    |    | 3919 |    |    |  |  |  |
| Blue-greens (#/L):   |               |            | 292          | Greens (#/L):       |            |                         | 198        | Diatoms (#/L): |            |           | 1343        | Other algae (#/L): |           |          |            |       | 1901      | Rotifers (#/L): |           |           |           |           | 163              | Zooplankton (#/L): |    |    |    |    | 22.1 | Plankton #/L: |    |    |    |    | 3919 |    |    |  |  |  |

# Clean Lakes Program Data Summary

2002

## Whitewater

County: **Union**

Sample Location: **Deep Hole**

Date: **7/23/2002**

| Year                     | Max Depth (m) | Secchi (m) | Light@3' (%)      | 1% Light Level (ft) | DO @5' (%)                 | pH - epi          | pH - hyp | Cond - epi | Cond - hyp             | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp           | TP - epi | TP - hyp | Chl a | NO3 - epi               | NO3 - hyp | NH3 - epi | NH3 - hyp | TKN - epi           | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------------|---------------|------------|-------------------|---------------------|----------------------------|-------------------|----------|------------|------------------------|-----------|-----------|-----------|---------------------|----------|----------|-------|-------------------------|-----------|-----------|-----------|---------------------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                     | 14            | 1.1        | 45                | 5.79                | 160                        | 8.3               | 7.6      | 450        | 410                    | 157       | 251       | 0.017     | 0.173               | 0.028    | 0.201    | 0.26  | 2.985                   | 0.487     | 0.018     | 1.06      | 0.791               | 1.882     | <b>42</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                    | 0             | 1          | 1.5               | 2                   | 3                          | 4                 | 5        | 6          | 7                      | 8         | 9         | 10        | 11                  | 12       | 13       | 14    | 15                      | 16        | 17        | 18        | 19                  | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                     | 29            | 29         | 29                | 29                  | 27                         | 22                | 17       | 13         | 11                     | 9.4       | 8.6       | 8.2       | 8                   | 7.8      |          |       |                         |           |           |           |                     |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                       | 12            | 12         | 12                | 12                  | 10                         | 9.3               | 5.2      | 0.7        | 0.6                    | 0.5       | 0.4       | 0.3       | 0.3                 | 0.3      |          |       |                         |           |           |           |                     |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxid: 61  |               |            |                   |                     | Blue-Green Dominance %: 98 |                   |          |            |                        | Notes:    |           |           |                     |          |          |       |                         |           |           |           |                     |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 28579 |               |            | Greens (#/L): 132 |                     |                            | Diatoms (#/L): 12 |          |            | Other algae (#/L): 120 |           |           |           | Rotifers (#/L): 144 |          |          |       | Zooplankton (#/L): 86.4 |           |           |           | Plankton #/L: 29072 |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

## Woods (Big Blue #3)

County: **Rush**

Sample Location: **Deep Hole**

Date: **7/23/2002**

| Year                      | Max Depth (m) | Secchi (m) | Light@3' (%)    | 1% Light Level (ft) | DO @5' (%)                 | pH - epi           | pH - hyp | Cond - epi | Cond - hyp             | Alk - epi | Alk - hyp | SRP - epi | SRP - hyp            | TP - epi | TP - hyp | Chl a | NO3 - epi               | NO3 - hyp | NH3 - epi | NH3 - hyp | TKN - epi          | TKN - hyp | ITSI:                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|---------------------------|---------------|------------|-----------------|---------------------|----------------------------|--------------------|----------|------------|------------------------|-----------|-----------|-----------|----------------------|----------|----------|-------|-------------------------|-----------|-----------|-----------|--------------------|-----------|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 2002                      | 4.27          | 0.6        | 1               | 2                   | 157                        | 8.3                | 7.5      | 455        | 495                    | 152.5     | 186       | 0.021     | 0.018                | 0.075    | 0.109    | 47.39 | 1.838                   | 1.93      | 0.018     | 0.216     | 1.197              | 1.197     | <b>37</b><br><i>Intermediate</i> |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Depth                     | 0             | 1          | 1.5             | 2                   | 3                          | 4                  | 5        | 6          | 7                      | 8         | 9         | 10        | 11                   | 12       | 13       | 14    | 15                      | 16        | 17        | 18        | 19                 | 20        | 21                               | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |  |
| Temp                      | 29            | 29         | 29              | 28                  | 24                         | 18                 |          |            |                        |           |           |           |                      |          |          |       |                         |           |           |           |                    |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| DO                        | 17            | 17         | 15              | 10                  | 0.4                        | 0.4                |          |            |                        |           |           |           |                      |          |          |       |                         |           |           |           |                    |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| % Water Column Oxid: 46.8 |               |            |                 |                     | Blue-Green Dominance %: 55 |                    |          |            |                        | Notes:    |           |           |                      |          |          |       |                         |           |           |           |                    |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Blue-greens (#/L): 3276   |               |            | Greens (#/L): 0 |                     |                            | Diatoms (#/L): 228 |          |            | Other algae (#/L): 427 |           |           |           | Rotifers (#/L): 1994 |          |          |       | Zooplankton (#/L): 13.3 |           |           |           | Plankton #/L: 5938 |           |                                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |