

Appendixes 1 and 2

- Appendix 1.** Results and computations by Landsat–satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method..... p. 20–27
- Appendix 2.** Results and computations by Landsat–satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method..... p. 28–36

Appendix 1. Results and computations by Landsat-satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake average TSI | | Gethist TSI | | |
|-------------------|-------|-------------------|------------|-------|--------------|--------|-------|---------|-----|----------------------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 20 | 30–31 | Round Lake | Clinton | 87 | 2004–09–25 | 5.5 | 1.7 | 53 | 51 | 48 | 53 | 51 | 52 | 49 |
| 20 | 30–31 | Byram Lake | Genesee | 134 | 2004–09–19 | 12.0 | 3.7 | 41 | 42 | 44 | 48 | 48 | 43 | 44 |
| 20 | 30–31 | Fenton Lake | Genesee | 866 | 2004–09–19 | 15.5 | 4.7 | 38 | 34 | 32 | 44 | 43 | 38 | 37 |
| 20 | 30–31 | Ponemah Lake | Genesee | 410 | 2004–09–25 | 12.5 | 3.8 | 41 | 41 | 41 | 45 | 44 | 42 | 41 |
| 20 | 30–31 | Silver Lake | Genesee | 339 | 2004–09–26 | 15.0 | 4.6 | 38 | 40 | 40 | 43 | 44 | 39 | 40 |
| 20 | 30–31 | Clear Lake | Jackson | 129 | 2004–09–21 | 11.5 | 3.5 | 42 | 44 | 44 | 48 | 47 | 41 | 42 |
| 20 | 30–31 | Gilletts Lake | Jackson | 334 | 2004–09–16 | 7.5 | 2.3 | 48 | 43 | 43 | 61 | 58 | 52 | 51 |
| 20 | 30–31 | Grass Lake | Jackson | 353 | 2004–09–18 | 5.0 | 1.5 | 54 | * | * | * | * | 49 | 50 |
| 20 | 30–31 | Vineyard Lake | Jackson | 541 | 2004–09–21 | 14.0 | 4.3 | 39 | 37 | 38 | 46 | 45 | 38 | 38 |
| 20 | 30–31 | Nepessing Lake | Lapeer | 427 | 2004–09–23 | 17.0 | 5.2 | 36 | 38 | 38 | 43 | 43 | 39 | 39 |
| 20 | 30–31 | Evans Lake | Lenawee | 215 | 2004–09–22 | 24.0 | 7.3 | 31 | 37 | 36 | 39 | 37 | 32 | 30 |
| 20 | 30–31 | East Crooked Lake | Livingston | 248 | 2004–09–20 | 19.0 | 5.8 | 35 | 41 | 42 | 46 | 46 | 39 | 40 |
| 20 | 30–31 | Gut Lake | Livingston | 32 | 2004–09–20 | 13.0 | 4.0 | 40 | 40 | 40 | 38 | 38 | 34 | 34 |
| 20 | 30–31 | Hamburg Lake | Livingston | 99 | 2004–09–21 | 17.0 | 5.2 | 36 | 36 | 37 | 41 | 40 | 36 | 36 |
| 20 | 30–31 | Oneida Lake | Livingston | 46 | 2004–09–19 | 10.0 | 3.0 | 44 | 43 | 43 | 49 | 47 | 43 | 41 |
| 20 | 30–31 | Strawberry Lake | Livingston | 261 | 2004–09–24 | 9.0 | 2.7 | 45 | 44 | 43 | 46 | 45 | 42 | 41 |
| 20 | 30–31 | West Crooked Lake | Livingston | 191 | 2004–09–19 | 8.5 | 2.6 | 46 | 41 | 43 | 47 | 47 | 42 | 43 |
| 20 | 30–31 | Buckhorn Lake | Oakland | 43 | 2004–09–25 | 13.0 | 4.0 | 40 | 44 | 42 | 50 | 48 | 44 | 43 |
| 20 | 30–31 | Taylor Lake | Oakland | 39 | 2004–09–25 | 20.0 | 6.1 | 34 | * | * | * | * | 37 | 39 |
| 20 | 30–31 | Leisure Lake | Shiawassee | 45 | 2004–09–22 | 5.0 | 1.5 | 54 | 55 | 54 | 55 | 53 | 52 | 50 |
| 20 | 30–31 | Pleasant Lake | Washtenaw | 193 | 2004–09–22 | 10.0 | 3.0 | 44 | 43 | 45 | 47 | 48 | 44 | 45 |
| 20 | 30–31 | Portage Lake | Washtenaw | 641 | 2004–09–19 | 10.0 | 3.0 | 44 | 41 | 42 | 52 | 51 | 46 | 47 |
| 21 | 28–31 | Hubbard Lake | Alcona | 8768 | 2004–09–13 | 14.0 | 4.3 | 39 | 37 | 36 | 40 | 38 | 36 | 35 |

Appendix 1. Results and computations by Landsat-satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake average TSI | | Gethist TSI | | |
|-------------------|-------|----------------------|-----------|-------|--------------|--------|-------|---------|-----|----------------------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 21 | 28–31 | Jewell Lake | Alcona | 184 | 2004–09–12 | 8.5 | 2.6 | 46 | 43 | 43 | 53 | 51 | 47 | 47 |
| 21 | 28–31 | Bellaire Lake | Antrim | 1789 | 2004–09–14 | 16.0 | 4.9 | 37 | 34 | 34 | 40 | 39 | 34 | 34 |
| 21 | 28–31 | Clam Lake | Antrim | 438 | 2004–09–15 | 21.0 | 6.4 | 33 | 33 | 32 | 40 | 39 | 35 | 35 |
| 21 | 28–31 | Barlow Lake | Barry | 181 | 2004–09–15 | 7.5 | 2.3 | 48 | 42 | 42 | 46 | 45 | 41 | 42 |
| 21 | 28–31 | Randall N Cemetary L | Branch | 511 | 2004–09–16 | 7.5 | 2.3 | 48 | 47 | 47 | 48 | 48 | 47 | 48 |
| 21 | 28–31 | Birch Lake | Cass | 282 | 2004–09–13 | 12.0 | 3.7 | 41 | 45 | 44 | 46 | 45 | 44 | 43 |
| 21 | 28–31 | Christiana | Cass | 560 | 2004–09–14 | 6.5 | 2.0 | 50 | 47 | 47 | 48 | 48 | 47 | 48 |
| 21 | 28–31 | Diamond Lake | Cass | 1041 | 2004–09–14 | 12.0 | 3.7 | 41 | 43 | 43 | 47 | 45 | 44 | 43 |
| 21 | 28–31 | Juno | Cass | 560 | 2004–09–14 | 6.5 | 2.0 | 50 | 48 | 48 | 48 | 48 | 47 | 48 |
| 21 | 28–31 | Magician Lake | Cass | 522 | 2004–09–15 | 7.0 | 2.1 | 49 | 45 | 45 | 50 | 48 | 48 | 47 |
| 21 | 28–31 | Painter | Cass | 560 | 2004–09–14 | 5.5 | 1.7 | 53 | 48 | 48 | 48 | 48 | 47 | 48 |
| 21 | 28–31 | Shavehead Lake | Cass | 299 | 2004–09–19 | 8.0 | 2.4 | 47 | 45 | 43 | 48 | 45 | 45 | 44 |
| 21 | 28–31 | Twin Lake (north) | Cass | 61 | 2004–09–11 | 12.5 | 3.8 | 41 | 46 | 46 | 49 | 48 | 46 | 47 |
| 21 | 28–31 | Twin Lake (south) | Cass | 43 | 2004–09–12 | 7.0 | 2.1 | 49 | 45 | 45 | 51 | 48 | 47 | 46 |
| 21 | 28–31 | Shingle Lake | Clare | 30 | 2004–09–14 | 11.0 | 3.4 | 43 | 40 | 40 | 40 | 39 | 38 | 38 |
| 21 | 28–31 | Windover Lake | Clare | 68 | 2004–09–13 | 21.0 | 6.4 | 33 | 35 | 34 | 43 | 42 | 36 | 35 |
| 21 | 28–31 | Round Lake | Clinton | 87 | 2004–09–12 | 6.0 | 1.8 | 51 | 46 | 47 | 48 | 49 | 47 | 48 |
| 21 | 28–31 | Byram Lake | Genesee | 134 | 2004–09–19 | 12.0 | 3.7 | 41 | 46 | 46 | 46 | 45 | 44 | 44 |
| 21 | 28–31 | Fenton Lake | Genesee | 866 | 2004–09–11 | 16.0 | 4.9 | 37 | 37 | 37 | 43 | 43 | 40 | 40 |
| 21 | 28–31 | Ponemah Lake | Genesee | 410 | 2004–09–10 | 11.5 | 3.5 | 42 | 42 | 42 | 42 | 42 | 41 | 41 |
| 21 | 28–31 | Silver Lake | Genesee | 339 | 2004–09–12 | 12.5 | 3.8 | 41 | 42 | 41 | 44 | 43 | 40 | 40 |
| 21 | 28–31 | Lake Twenty | Gladwin | 124 | 2004–09–08 | 9.5 | 2.9 | 45 | 38 | 37 | 43 | 43 | 41 | 41 |
| 21 | 28–31 | Crystal Lake | Hillsdale | 130 | 2004–09–15 | 14.0 | 4.3 | 39 | 44 | 45 | 44 | 44 | 43 | 43 |

Appendix 1. Results and computations by Landsat-satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake average TSI | | Gethist TSI | | |
|-------------------|-------|--------------------|------------|-------|--------------|--------|-------|---------|-----|----------------------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 21 | 28–31 | Perch Lake | Hillsdale | 46 | 2004–09–16 | 8.0 | 2.4 | 47 | 46 | 46 | 45 | 46 | 45 | 45 |
| 21 | 28–31 | Cedar Lake | Iosco | 142 | 2004–09–13 | 8.5 | 2.6 | 46 | * | * | * | * | 50 | 50 |
| 21 | 28–31 | Van Etten Lake | Iosco | 1409 | 2004–09–10 | 7.5 | 2.3 | 48 | 48 | 48 | 45 | 46 | 45 | 46 |
| 21 | 28–31 | Gilletts Lake | Jackson | 334 | 2004–09–16 | 7.5 | 2.3 | 48 | * | * | * | * | 51 | 50 |
| 21 | 28–31 | Grass Lake | Jackson | 353 | 2004–09–18 | 5.0 | 1.5 | 54 | 49 | 50 | 49 | 49 | 49 | 49 |
| 21 | 28–31 | Portage Lake | Jackson | 398 | 2004–09–18 | 11.0 | 3.4 | 43 | 45 | 45 | 51 | 49 | 48 | 48 |
| 21 | 28–31 | Vineyard Lake | Jackson | 541 | 2004–09–09 | 10.0 | 3.0 | 44 | 46 | 46 | 53 | 51 | 49 | 48 |
| 21 | 28–31 | Indian Lake | Kalamazoo | 788 | 2004–09–13 | 6.0 | 1.8 | 51 | 51 | 49 | 53 | 50 | 52 | 49 |
| 21 | 28–31 | Bear Lake | Kalkaska | 313 | 2004–09–16 | 28.0 | 8.5 | 29 | 32 | 29 | 37 | 34 | 34 | 32 |
| 21 | 28–31 | Cub Lake | Kalkaska | 57 | 2004–09–10 | 24.0 | 7.3 | 31 | 36 | 35 | 40 | 39 | 37 | 36 |
| 21 | 28–31 | Bostwick Lake | Kent | 213 | 2004–09–17 | 6.5 | 2.0 | 50 | 43 | 44 | 46 | 47 | 45 | 46 |
| 21 | 28–31 | Freska Lake | Kent | 59 | 2004–09–16 | 8.0 | 2.4 | 47 | * | * | * | * | 45 | 46 |
| 21 | 28–31 | Murray Lake | Kent | 312 | 2004–09–16 | 11.0 | 3.4 | 43 | 44 | 44 | 45 | 45 | 43 | 44 |
| 21 | 28–31 | East Crooked Lake | Livingston | 248 | 2004–09–13 | 16.0 | 4.9 | 37 | 40 | 40 | 45 | 45 | 42 | 42 |
| 21 | 28–31 | Gut Lake | Livingston | 32 | 2004–09–11 | 13.0 | 4.0 | 40 | 40 | 41 | 42 | 42 | 40 | 41 |
| 21 | 28–31 | Oneida Lake | Livingston | 46 | 2004–09–12 | 10.5 | 3.2 | 43 | 42 | 43 | 44 | 45 | 42 | 43 |
| 21 | 28–31 | Strawberry Lake | Livingston | 261 | 2004–09–11 | 8.0 | 2.4 | 47 | 45 | 46 | 45 | 45 | 43 | 44 |
| 21 | 28–31 | West Crooked Lake | Livingston | 191 | 2004–09–12 | 7.5 | 2.3 | 48 | 46 | 47 | 47 | 47 | 45 | 46 |
| 21 | 28–31 | Horsehead Lake | Mecosta | 443 | 2004–09–15 | 12.0 | 3.7 | 41 | 43 | 44 | 46 | 45 | 40 | 41 |
| 21 | 28–31 | Mecosta Lake | Mecosta | 312 | 2004–09–07 | 9.0 | 2.7 | 45 | 43 | 43 | 46 | 46 | 45 | 45 |
| 21 | 28–31 | Pretty Lake | Mecosta | 116 | 2004–09–19 | 11.0 | 3.4 | 43 | 40 | 40 | 41 | 42 | 39 | 40 |
| 21 | 28–31 | Round Lake | Mecosta | 157 | 2004–09–18 | 14.0 | 4.3 | 39 | 43 | 45 | 42 | 43 | 41 | 42 |
| 21 | 28–31 | West Canadian Lake | Mecosta | 133 | 2004–09–10 | 12.0 | 3.7 | 41 | 39 | 40 | 43 | 44 | 41 | 42 |

Appendix 1. Results and computations by Landsat-satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake average TSI | | Gethist TSI | | |
|-------------------|-------|-------------------|-------------|-------|--------------|--------|-------|---------|-----|----------------------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 21 | 28–31 | Sanford Lake | Midland | 1402 | 2004–09–11 | 9.0 | 2.7 | 45 | 39 | 39 | 42 | 42 | 40 | 40 |
| 21 | 28–31 | Baldwin Lake | Montcalm | 62 | 2004–09–18 | 9.5 | 2.9 | 45 | 41 | 42 | 43 | 44 | 42 | 43 |
| 21 | 28–31 | Clifford Lake | Montcalm | 195 | 2004–09–15 | 11.0 | 3.4 | 43 | 44 | 45 | 44 | 45 | 43 | 44 |
| 21 | 28–31 | Derby Lake | Montcalm | 114 | 2004–09–15 | 19.0 | 5.8 | 35 | 40 | 41 | 43 | 43 | 40 | 41 |
| 21 | 28–31 | Muskellunge Lake | Montcalm | 137 | 2004–09–10 | 11.0 | 3.4 | 43 | 42 | 43 | 44 | 45 | 42 | 43 |
| 21 | 28–31 | Picnic Lake | Montcalm | 23 | 2004–09–07 | 2.5 | 0.8 | 64 | 60 | 55 | 61 | 55 | 61 | 56 |
| 21 | 28–31 | Avalon Lake | Montmorency | 386 | 2004–09–15 | 27.0 | 8.2 | 30 | 31 | 29 | 33 | 30 | 30 | 27 |
| 21 | 28–31 | Bills Lake | Newaygo | 200 | 2004–09–16 | 10.0 | 3.0 | 44 | 41 | 42 | 44 | 43 | 40 | 40 |
| 21 | 28–31 | Sylvan Lake | Newaygo | 102 | 2004–09–16 | 10.0 | 3.0 | 44 | 40 | 42 | 43 | 43 | 40 | 41 |
| 21 | 28–31 | Island Lake | Ogemaw | 60 | 2004–09–13 | 15.0 | 4.6 | 38 | 43 | 44 | 45 | 45 | 42 | 43 |
| 21 | 28–31 | Center Lake | Osceola | 41 | 2004–09–12 | 17.0 | 5.2 | 36 | 37 | 38 | 37 | 37 | 36 | 36 |
| 21 | 28–31 | Hicks Lake | Osceola | 160 | 2004–09–09 | 3.5 | 1.1 | 59 | 59 | 55 | 56 | 53 | 57 | 55 |
| 21 | 28–31 | Wells Lake | Osceola | 48 | 2004–09–15 | 18.0 | 5.5 | 35 | 39 | 40 | 41 | 42 | 40 | 41 |
| 21 | 28–31 | Big Bradford Lake | Otsego | 256 | 2004–09–06 | 17.0 | 5.2 | 36 | 39 | 38 | 39 | 38 | 35 | 34 |
| 21 | 28–31 | Big Lake | Otsego | 124 | 2004–09–10 | 19.0 | 5.8 | 35 | 36 | 36 | 38 | 38 | 37 | 36 |
| 21 | 28–31 | Viking Lake | Otsego | 36 | 2004–09–12 | 6.0 | 1.8 | 51 | 53 | 51 | 52 | 50 | 53 | 52 |
| 21 | 28–31 | Corey Lake | St. Joseph | 599 | 2004–09–16 | 8.0 | 2.4 | 47 | 43 | 44 | 48 | 46 | 45 | 44 |
| 21 | 28–31 | Fishers Lake | St. Joseph | 330 | 2004–09–11 | 10.0 | 3.0 | 44 | 48 | 47 | 49 | 47 | 45 | 45 |
| 21 | 28–31 | Fishers Lake | St. Joseph | 330 | 2004–09–11 | 10.0 | 3.0 | 44 | 47 | 47 | 49 | 47 | 45 | 45 |
| 21 | 28–31 | Klinger Lake | St. Joseph | 835 | 2004–09–15 | 11.0 | 3.4 | 43 | 46 | 45 | 47 | 46 | 45 | 45 |
| 21 | 28–31 | Pleasant Lake | St. Joseph | 256 | 2004–09–15 | 13.0 | 4.0 | 40 | 44 | 45 | 49 | 48 | 45 | 45 |
| 21 | 28–31 | Cedar Lake | Van Buren | 275 | 2004–09–10 | 13.5 | 4.1 | 40 | 43 | 44 | 47 | 47 | 44 | 45 |
| 21 | 28–31 | Crooked Lake | Van Buren | 117 | 2004–09–05 | 12.0 | 3.7 | 41 | 46 | 47 | 46 | 46 | 44 | 45 |

Appendix 1. Results and computations by Landsat-satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake average TSI | | Gethist TSI | | |
|-------------------|-------|---------------------|-------------|-------|--------------|--------|-------|---------|-----|----------------------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 21 | 28–31 | Crooked Lake Little | Van Buren | 114 | 2004–09–14 | 14.0 | 4.3 | 39 | 45 | 46 | 45 | 46 | 44 | 45 |
| 21 | 28–31 | Silver Lake | Van Buren | 50 | 2004–09–13 | 12.5 | 3.8 | 41 | 41 | 43 | 43 | 45 | 42 | 44 |
| 21 | 28–31 | Pleasant Lake | Washtenaw | 193 | 2004–09–16 | 10.5 | 3.2 | 43 | 48 | 48 | 47 | 47 | 47 | 47 |
| 21 | 28–31 | Portage Lake | Washtenaw | 641 | 2004–09–12 | 9.5 | 2.9 | 45 | 48 | 48 | 50 | 50 | 49 | 49 |
| 21 | 28–31 | Stone Ledge Lake | Wexford | 83 | 2004–09–18 | 13.0 | 4.0 | 40 | 38 | 37 | 39 | 39 | 36 | 35 |
| 22 | 28–31 | Goshorn Lake | Allegan | 28 | 2004–09–18 | 6.5 | 2.0 | 50 | 48 | 47 | 48 | 47 | 48 | 46 |
| 22 | 28–31 | Hutchins Lake | Allegan | 379 | 2004–09–17 | 8.0 | 2.4 | 47 | 42 | 43 | 50 | 49 | 45 | 45 |
| 22 | 28–31 | Torch Lake | Antrim | 18722 | 2004–09–23 | 16.5 | 5.0 | 37 | 38 | 38 | 39 | 39 | 37 | 36 |
| 22 | 28–31 | Ann Lake | Benzie | 501 | 2004–09–17 | 13.0 | 4.0 | 40 | 42 | 43 | 47 | 46 | 43 | 43 |
| 22 | 28–31 | Crystal Lake | Benzie | 9869 | 2004–09–26 | 18.0 | 5.5 | 35 | 36 | 33 | 37 | 35 | 35 | 32 |
| 22 | 28–31 | Christiana | Cass | 560 | 2004–09–22 | 7.5 | 2.3 | 48 | 48 | 47 | 48 | 47 | 46 | 46 |
| 22 | 28–31 | Diamond Lake | Cass | 1041 | 2004–09–23 | 12.0 | 3.7 | 41 | 40 | 41 | 49 | 48 | 43 | 45 |
| 22 | 28–31 | Juno | Cass | 560 | 2004–09–22 | 7.0 | 2.1 | 49 | 44 | 44 | 47 | 46 | 46 | 46 |
| 22 | 28–31 | Painter | Cass | 560 | 2004–09–22 | 6.5 | 2.0 | 50 | 47 | 47 | 47 | 46 | 46 | 46 |
| 22 | 28–31 | Shavehead Lake | Cass | 299 | 2004–09–19 | 8.0 | 2.4 | 47 | 49 | 50 | 51 | 51 | 50 | 51 |
| 22 | 28–31 | Twin Lake (north) | Cass | 61 | 2004–09–19 | 18.0 | 5.5 | 35 | 41 | 41 | 46 | 44 | 41 | 40 |
| 22 | 28–31 | Twin Lake (south) | Cass | 43 | 2004–09–23 | 10.0 | 3.0 | 44 | 41 | 41 | 54 | 51 | 43 | 44 |
| 22 | 28–31 | Lily Lake | Clare | 190 | 2004–09–24 | 9.5 | 2.9 | 45 | 42 | 42 | 42 | 42 | 41 | 41 |
| 22 | 28–31 | Shingle Lake | Clare | 30 | 2004–09–22 | 13.0 | 4.0 | 40 | 40 | 40 | 42 | 42 | 41 | 40 |
| 22 | 28–31 | Arbutus Lake | Grand Trave | 378 | 2004–09–15 | 14.0 | 4.3 | 39 | 42 | 42 | 45 | 44 | 40 | 40 |
| 22 | 28–31 | Long Lake | Grand Trave | 2911 | 2004–09–18 | 19.0 | 5.8 | 35 | 40 | 39 | 43 | 41 | 39 | 38 |
| 22 | 28–31 | Indian Lake | Kalamazoo | 788 | 2004–09–25 | 7.0 | 2.1 | 49 | 53 | 52 | 55 | 53 | 53 | 53 |
| 22 | 28–31 | Freska Lake | Kent | 59 | 2004–09–23 | 9.5 | 2.9 | 45 | 42 | 42 | 42 | 42 | 41 | 41 |

Appendix 1. Results and computations by Landsat-satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake average TSI | | Gethist TSI | | |
|-------------------|-------|--------------------|------------|-------|--------------|--------|-------|---------|-----|----------------------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 22 | 28–31 | Murray Lake | Kent | 312 | 2004–09–16 | 11.0 | 3.4 | 43 | 46 | 46 | 45 | 44 | 43 | 43 |
| 22 | 28–31 | Big Star Lake | Lake | 890 | 2004–09–18 | 11.5 | 3.5 | 42 | 38 | 38 | 42 | 41 | 39 | 39 |
| 22 | 28–31 | Glen Lake Little | Leelanau | 1415 | 2004–09–22 | 7.0 | 2.1 | 49 | 47 | 47 | 46 | 47 | 45 | 47 |
| 22 | 28–31 | Hamlin Lake | Mason | 4622 | 2004–09–19 | 13.5 | 4.1 | 40 | 42 | 41 | 42 | 43 | 41 | 40 |
| 22 | 28–31 | Hamlin Lake | Mason | 4622 | 2004–09–23 | 9.5 | 2.9 | 45 | 41 | 40 | 43 | 44 | 41 | 40 |
| 22 | 28–31 | Horsehead Lake | Mecosta | 443 | 2004–09–20 | 15.5 | 4.7 | 38 | 41 | 41 | 46 | 45 | 40 | 41 |
| 22 | 28–31 | Mecosta Lake | Mecosta | 312 | 2004–09–18 | 15.0 | 4.6 | 38 | 41 | 41 | 45 | 45 | 42 | 43 |
| 22 | 28–31 | Pretty Lake | Mecosta | 116 | 2004–09–19 | 11.0 | 3.4 | 43 | 41 | 42 | 42 | 42 | 40 | 41 |
| 22 | 28–31 | Round Lake | Mecosta | 157 | 2004–09–18 | 14.0 | 4.3 | 39 | 39 | 38 | 41 | 41 | 40 | 40 |
| 22 | 28–31 | West Canadian Lake | Mescoda | 133 | 2004–09–17 | 11.5 | 3.5 | 42 | 40 | 40 | 43 | 43 | 42 | 42 |
| 22 | 28–31 | Sapphire Lake | Missaukee | 246 | 2004–09–13 | 7.5 | 2.3 | 48 | 47 | 47 | 48 | 47 | 46 | 46 |
| 22 | 28–31 | Baldwin Lake | Montcalm | 62 | 2004–09–18 | 9.5 | 2.9 | 45 | 43 | 44 | 44 | 44 | 44 | 44 |
| 22 | 28–31 | Clifford Lake | Montcalm | 195 | 2004–09–23 | 12.0 | 3.7 | 41 | 43 | 43 | 44 | 44 | 43 | 43 |
| 22 | 28–31 | Bills Lake | Newaygo | 200 | 2004–09–18 | 12.0 | 3.7 | 41 | 40 | 41 | 46 | 46 | 40 | 42 |
| 22 | 28–31 | Kimball Lake | Newaygo | 147 | 2004–09–19 | 6.0 | 1.8 | 51 | 52 | 52 | 52 | 51 | 52 | 52 |
| 22 | 28–31 | Pickereel Lake | Newaygo | 308 | 2004–09–19 | 12.0 | 3.7 | 41 | 39 | 39 | 45 | 44 | 42 | 42 |
| 22 | 28–31 | Sylvan Lake | Newaygo | 102 | 2004–09–16 | 10.0 | 3.0 | 44 | 42 | 43 | 44 | 45 | 40 | 42 |
| 22 | 28–31 | Crystal Lake | Oceana | 121 | 2004–09–20 | 8.0 | 2.4 | 47 | 44 | 45 | 44 | 44 | 43 | 44 |
| 22 | 28–31 | Robinson Lake | Oceana | 134 | 2004–09–14 | 10.0 | 3.0 | 44 | 41 | 40 | 41 | 40 | 40 | 40 |
| 22 | 28–31 | Stony Lake | Oceana | 287 | 2004–09–15 | 12.0 | 3.7 | 41 | 41 | 41 | 42 | 42 | 41 | 41 |
| 22 | 28–31 | Center Lake | Osceola | 41 | 2004–09–19 | 18.0 | 5.5 | 35 | 40 | 40 | 40 | 39 | 39 | 39 |
| 22 | 28–31 | Hicks Lake | Osceola | 160 | 2004–09–25 | 3.0 | 0.9 | 61 | 60 | 57 | 60 | 57 | 62 | 58 |
| 22 | 28–31 | Corey Lake | St. Joseph | 599 | 2004–09–24 | 8.5 | 2.6 | 46 | 47 | 48 | 49 | 48 | 44 | 46 |

Appendix 1. Results and computations by Landsat-satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake average TSI | | Gethist TSI | | |
|-------------------|-------|---------------------|------------|-------|--------------|--------|-------|---------|-----|----------------------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 22 | 28–31 | Fishers Lake | St. Joseph | 330 | 2004–09–25 | 13.5 | 4.1 | 40 | 43 | 43 | 48 | 49 | 42 | 43 |
| 22 | 28–31 | Fishers Lake | St. Joseph | 330 | 2004–09–18 | 14.0 | 4.3 | 39 | 42 | 43 | 53 | 58 | 42 | 43 |
| 22 | 28–31 | Pleasant Lake | St. Joseph | 256 | 2004–09–22 | 15.0 | 4.6 | 38 | 41 | 41 | 46 | 44 | 40 | 41 |
| 22 | 28–31 | Wahbememe | St. Joseph | 22 | 2004–09–19 | 16.0 | 4.9 | 37 | * | * | * | * | 42 | 42 |
| 22 | 28–31 | Cedar Lake | Van Buren | 275 | 2004–09–18 | 13.0 | 4.0 | 40 | 42 | 42 | 45 | 44 | 41 | 41 |
| 22 | 28–31 | Crooked Lake | Van Buren | 117 | 2004–09–19 | 11.0 | 3.4 | 43 | 39 | 38 | 44 | 44 | 42 | 42 |
| 22 | 28–31 | Crooked Lake Little | Van Buren | 114 | 2004–09–14 | 14.0 | 4.3 | 39 | 41 | 41 | 43 | 43 | 41 | 41 |
| 22 | 28–31 | Silver Lake | Van Buren | 50 | 2004–09–19 | 13.5 | 4.1 | 40 | 40 | 39 | 41 | 40 | 40 | 39 |
| 22 | 28–31 | Stone Ledge Lake | Wexford | 83 | 2004–09–18 | 13.0 | 4.0 | 40 | 43 | 43 | 43 | 43 | 41 | 41 |
| 24 | 27 | Clear Lake | Houghton | 23 | 2005–09–26 | 17.5 | 5.3 | 36 | 38 | 37 | 37 | 36 | 37 | 36 |
| 24 | 27 | Gerald Lake | Houghton | 356 | 2005–09–24 | 13.5 | 4.1 | 40 | 36 | 37 | 41 | 40 | 42 | 42 |
| 24 | 27 | Pike Lake | Houghton | 83 | 2005–09–26 | 8.5 | 2.6 | 46 | 42 | 42 | 42 | 43 | 44 | 44 |
| 24 | 27 | Portage Lake | Houghton | 10808 | 2005–09–24 | 8.5 | 2.6 | 46 | 43 | 41 | 47 | 47 | 47 | 47 |
| 24 | 27 | Roland Lake | Houghton | 258 | 2005–09–24 | 16.0 | 4.9 | 37 | 39 | 39 | 41 | 41 | 41 | 41 |
| 24 | 27 | Torch Lake | Houghton | 2400 | 2005–09–24 | 13.5 | 4.1 | 40 | 33 | 33 | 38 | 38 | 37 | 37 |
| 24 | 27 | Fanny Hooe Lake | Keweenaw | 230 | 2005–09–23 | 14.5 | 4.4 | 39 | 38 | 38 | 39 | 39 | 40 | 40 |
| 24 | 27 | Manganese Lake | Keweenaw | 56 | 2005–09–23 | 12.0 | 3.7 | 41 | 41 | 42 | 41 | 42 | 42 | 42 |
| 24 | 27 | Medora Lake | Keweenaw | 690 | 2005–09–23 | 9.0 | 2.7 | 45 | 42 | 43 | 41 | 41 | 42 | 42 |
| 24 | 27 | Lake Independence | Marquette | 2041 | 2005–09–26 | 6.5 | 2.0 | 50 | 51 | 48 | 50 | 47 | 50 | 49 |
| 24 | 28 | Bass Lake | Dickinson | 60 | 2005–07–21 | 22.0 | 6.7 | 33 | 33 | 33 | 38 | 37 | 33 | 32 |
| 24 | 28 | Carney Lake | Dickinson | 115 | 2005–07–25 | 17.0 | 5.2 | 36 | 39 | 39 | 42 | 41 | 37 | 38 |
| 24 | 28 | Hanbury Lake | Dickinson | 78 | 2005–07–25 | 19.5 | 5.9 | 34 | 38 | 37 | 42 | 40 | 36 | 37 |
| 24 | 28 | Mary Lake | Dickinson | 85 | 2005–07–25 | 15.0 | 4.6 | 38 | 34 | 35 | 53 | 49 | 41 | 41 |

Appendix 1. Results and computations by Landsat-satellite path for Michigan inland lakes, 2003–05, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake average TSI | | Gethist TSI | | |
|-------------------|-----|----------------------|-----------|-------|--------------|--------|-------|---------|-----|----------------------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 24 | 28 | Pickereel Lake | Dickinson | 68 | 2005–07–25 | 15.5 | 4.7 | 38 | 36 | 36 | 48 | 45 | 40 | 41 |
| 24 | 28 | Bass Lake | Marquette | 76 | 2005–07–25 | 16.5 | 5.0 | 37 | 37 | 37 | 39 | 39 | 32 | 32 |
| 24 | 28 | Bass Lake | Marquette | 273 | 2005–07–21 | 8.5 | 2.6 | 46 | 43 | 43 | 51 | 49 | 44 | 44 |
| 24 | 28 | Deer Lake | Marquette | 906 | 2005–07–22 | 7.0 | 2.1 | 49 | 46 | 45 | 47 | 46 | 45 | 45 |
| 24 | 28 | Engman Lake | Marquette | 48 | 2005–07–21 | 11.5 | 3.5 | 42 | 44 | 45 | 45 | 46 | 44 | 44 |
| 24 | 28 | Fish Lake | Marquette | 151 | 2005–07–22 | 8.5 | 2.6 | 46 | 36 | 38 | 34 | 36 | 46 | 45 |
| 24 | 28 | Greenwood Reservoir | Marquette | 1073 | 2005–07–22 | 8.5 | 2.6 | 46 | 36 | 38 | 34 | 35 | 45 | 44 |
| 24 | 28 | Horseshoe Lake | Marquette | 126 | 2005–07–22 | 9.0 | 2.7 | 45 | 40 | 40 | 46 | 44 | 43 | 43 |
| 24 | 28 | Johnson Lake | Marquette | 78 | 2005–07–21 | 18.0 | 5.5 | 35 | 36 | 35 | 42 | 40 | 35 | 35 |
| 24 | 28 | Little Lake | Marquette | 460 | 2005–07–21 | 17.0 | 5.2 | 36 | 39 | 38 | 55 | 51 | 42 | 41 |
| 24 | 28 | Squaw Lake | Marquette | 247 | 2005–07–22 | 18.5 | 5.6 | 35 | 35 | 36 | 39 | 39 | 36 | 34 |
| 25 | 28 | Allen Lake | Gogebic | 78 | 2003–08–28 | 8.5 | 2.6 | 46 | 45 | 43 | 44 | 42 | 45 | 43 |
| 25 | 28 | Bass Lake | Gogebic | 200 | 2003–08–25 | 8.5 | 2.6 | 46 | 43 | 43 | 41 | 40 | 46 | 47 |
| 25 | 28 | Beatons Lake | Gogebic | 324 | 2003–08–27 | 18.5 | 5.6 | 35 | 38 | 38 | 41 | 42 | 40 | 39 |
| 25 | 28 | Clark Lake | Gogebic | 836 | 2003–08–26 | 20.5 | 6.2 | 34 | 39 | 41 | 38 | 42 | 39 | 39 |
| 25 | 28 | Dinner Lake | Gogebic | 108 | 2003–08–12 | 10.5 | 3.2 | 43 | 40 | 43 | 43 | 40 | 39 | 42 |
| 25 | 28 | Duck Lake | Gogebic | 612 | 2003–08–12 | 9.5 | 2.9 | 45 | 42 | 44 | 50 | 50 | 45 | 46 |
| 25 | 28 | Lac Vieux Desert | Gogebic | 4370 | 2003–08–12 | 6.5 | 2.0 | 50 | 49 | 48 | 45 | 45 | 50 | 48 |
| 25 | 28 | Oxbow Lake | Gogebic | 98 | 2003–08–13 | 8.0 | 2.4 | 47 | 42 | 40 | 43 | 43 | 43 | 41 |
| 25 | 28 | Pomeroy Lake | Gogebic | 314 | 2003–08–13 | 6.0 | 1.8 | 51 | 53 | 53 | 49 | 49 | 54 | 54 |
| 25 | 28 | Thousand Island Lake | Gogebic | 1009 | 2003–08–27 | 12.5 | 3.8 | 41 | 43 | 44 | 42 | 42 | 41 | 41 |
| 25 | 28 | Bond Falls Flowage | Ontonagon | 2127 | 2003–08–26 | 9.0 | 2.7 | 45 | 42 | 42 | 41 | 40 | 42 | 42 |
| 25 | 28 | County Line Lake | Ontonagon | 67 | 2003–08–27 | 16.0 | 4.9 | 37 | 45 | 43 | 45 | 45 | 39 | 38 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|---------------------|------------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 20 | 3031 | Byram Lake | Genesee | 134 | 2007–09–02 | 15.0 | 4.6 | 38 | 39 | 39 | 50 | 48 | 39 | 39 |
| 20 | 3031 | Clear Lake | Jackson | 129 | 2007–08–31 | 12.0 | 3.7 | 41 | 39 | 39 | 53 | 52 | 37 | 38 |
| 20 | 3031 | Vineyard Lake | Jackson | 541 | 2007–08–31 | 12.0 | 3.7 | 41 | 43 | 44 | 49 | 47 | 43 | 42 |
| 20 | 3031 | Base Line Lake | Livingston | 244 | 2007–08–24 | 11.5 | 3.5 | 42 | 40 | 40 | 38 | 38 | 41 | 40 |
| 20 | 3031 | Chemung Lake | Livingston | 313 | 2007–08–27 | 15.0 | 4.6 | 38 | 38 | 38 | 49 | 47 | 42 | 42 |
| 20 | 3031 | Earl Lake | Livingston | 53 | 2007–08–29 | 6.0 | 1.8 | 51 | 48 | 48 | 43 | 42 | 51 | 51 |
| 20 | 3031 | Gallagher Lake | Livingston | 189 | 2007–09–02 | 10.5 | 3.2 | 43 | 42 | 42 | 41 | 40 | 43 | 42 |
| 20 | 3031 | Green Oak Lake | Livingston | 152 | 2007–08–24 | 13.5 | 4.1 | 40 | 41 | 41 | 46 | 45 | 39 | 40 |
| 20 | 3031 | Gut Lake | Livingston | 32 | 2007–08–30 | 13.0 | 4.0 | 40 | 41 | 41 | 48 | 48 | 42 | 42 |
| 20 | 3031 | Hamburg Lake | Livingston | 99 | 2007–08–29 | 16.0 | 4.9 | 37 | 41 | 41 | 48 | 47 | 39 | 39 |
| 20 | 3031 | Oneida Lake | Livingston | 46 | 2007–08–25 | 7.0 | 2.1 | 49 | 48 | 48 | 49 | 50 | 45 | 45 |
| 20 | 3031 | Ore Lake | Livingston | 231 | 2007–09–01 | 11.0 | 3.4 | 43 | 42 | 42 | 41 | 39 | 43 | 43 |
| 20 | 3031 | Round Lake | Livingston | 74 | 2007–08–25 | 7.5 | 2.3 | 48 | 47 | 47 | 42 | 41 | 45 | 46 |
| 20 | 3031 | Strawberry Lake | Livingston | 261 | 2007–09–01 | 8.0 | 2.4 | 47 | 45 | 46 | 46 | 45 | 45 | 45 |
| 20 | 3031 | Buckhorn Lake | Oakland | 43 | 2007–09–02 | 13.0 | 4.0 | 40 | 42 | 42 | 48 | 48 | 41 | 41 |
| 20 | 3031 | Long Lake | Oakland | 104 | 2007–08–30 | 13.0 | 4.0 | 40 | 43 | 43 | 45 | 45 | 42 | 42 |
| 20 | 3031 | Middle Straits Lake | Oakland | 178 | 2007–08–26 | 14.0 | 4.3 | 39 | 37 | 37 | 46 | 46 | 38 | 39 |
| 20 | 3031 | Portage Lake | Washtenaw | 641 | 2007–08–31 | 10.0 | 3.0 | 44 | 47 | 47 | 46 | 45 | 47 | 47 |
| 21 | 2831 | Cedar Lake | Alcona | 912 | 2007–09–20 | 8.0 | 2.4 | 47 | 48 | 49 | 57 | 54 | 53 | 53 |
| 21 | 2831 | Hubbard Lake | Alcona | 8768 | 2007–09–16 | 12.0 | 3.7 | 41 | 41 | 42 | 44 | 43 | 40 | 41 |
| 21 | 2831 | Vaughn Lake | Alcona | 112 | 2007–09–20 | 15.0 | 4.6 | 38 | 37 | 37 | 41 | 41 | 37 | 38 |
| 21 | 2831 | Osterhout Lake | Allegan | 172 | 2007–09–18 | 10.0 | 3.0 | 44 | 45 | 45 | 48 | 45 | 44 | 43 |
| 21 | 2831 | Bellaire Lake | Antrim | 1789 | 2007–09–20 | 16.0 | 4.9 | 37 | * | * | * | * | 39 | 39 |
| 21 | 2831 | Barlow Lake | Barry | 181 | 2007–09–17 | 10.0 | 3.0 | 44 | 45 | 43 | 47 | 45 | 41 | 41 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|--------------------|-----------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 21 | 2831 | Cobb Lake | Barry | 92 | 2007–09–21 | 13.0 | 4.0 | 40 | 42 | 41 | 45 | 44 | 40 | 40 |
| 21 | 2831 | Payne Lake | Barry | 113 | 2007–09–22 | 11.0 | 3.4 | 43 | 41 | 41 | 49 | 46 | 44 | 44 |
| 21 | 2831 | Stuart Lake | Calhoun | 115 | 2007–09–21 | 13.0 | 4.0 | 40 | 45 | 45 | 49 | 46 | 42 | 42 |
| 21 | 2831 | Upper Brace Lake | Calhoun | 71 | 2007–09–21 | 12.0 | 3.7 | 41 | 41 | 41 | 46 | 44 | 42 | 42 |
| 21 | 2831 | Birch Lake | Cass | 282 | 2007–09–20 | 20.0 | 6.1 | 34 | 38 | 38 | 41 | 40 | 39 | 39 |
| 21 | 2831 | Diamond Lake | Cass | 1041 | 2007–09–19 | 13.0 | 4.0 | 40 | 41 | 42 | 42 | 41 | 38 | 39 |
| 21 | 2831 | Eagle Lake | Cass | 400 | 2007–09–19 | 10.5 | 3.2 | 43 | * | * | * | * | 45 | 45 |
| 21 | 2831 | Magician Lake | Cass | 522 | 2007–09–15 | 10.0 | 3.0 | 44 | 44 | 44 | 47 | 44 | 44 | 44 |
| 21 | 2831 | Puterbaugh Lake | Cass | 44 | 2007–09–20 | 9.5 | 2.9 | 45 | 47 | 47 | 50 | 47 | 46 | 46 |
| 21 | 2831 | Twin Lake (north) | Cass | 61 | 2007–09–19 | 10.0 | 3.0 | 44 | * | * | * | * | 43 | 42 |
| 21 | 2831 | Twin Lake (south) | Cass | 43 | 2007–09–19 | 11.5 | 3.5 | 42 | 44 | 44 | 44 | 43 | 43 | 44 |
| 21 | 2831 | Arnold Lake | Clare | 121 | 2007–09–19 | 17.0 | 5.2 | 36 | 36 | 36 | 41 | 39 | 37 | 36 |
| 21 | 2831 | George Lake | Clare | 129 | 2007–09–18 | 11.5 | 3.5 | 42 | 41 | 41 | 43 | 41 | 40 | 40 |
| 21 | 2831 | Lily Lake | Clare | 190 | 2007–09–22 | 11.0 | 3.4 | 43 | 39 | 39 | 41 | 40 | 38 | 38 |
| 21 | 2831 | Shingle Lake | Clare | 30 | 2007–09–18 | 14.0 | 4.3 | 39 | 41 | 41 | 43 | 41 | 40 | 40 |
| 21 | 2831 | Round Lake | Clinton | 87 | 2007–09–16 | 7.5 | 2.3 | 48 | 44 | 44 | 50 | 48 | 45 | 45 |
| 21 | 2831 | Margrethe Lake | Crawford | 1922 | 2007–09–16 | 12.0 | 3.7 | 41 | 37 | 37 | 45 | 43 | 39 | 40 |
| 21 | 2831 | Ponemah Lake | Genesee | 410 | 2007–09–21 | 14.0 | 4.3 | 39 | 40 | 40 | 42 | 41 | 38 | 39 |
| 21 | 2831 | Lake Twenty | Gladwin | 124 | 2007–09–20 | 12.0 | 3.7 | 41 | 43 | 43 | 45 | 43 | 42 | 42 |
| 21 | 2831 | Smallwood Lake | Gladwin | 371 | 2007–09–18 | 9.0 | 2.7 | 45 | 43 | 43 | 51 | 48 | 46 | 46 |
| 21 | 2831 | Lake Diane | Hillsdale | 266 | 2007–09–22 | 2.5 | 0.8 | 64 | 60 | 58 | 68 | 60 | 65 | 62 |
| 21 | 2831 | Rebeck Lake | Hillsdale | 50 | 2007–09–15 | 6.5 | 2.0 | 50 | 46 | 45 | 48 | 46 | 45 | 45 |
| 21 | 2831 | Lansing Lake | Ingham | 456 | 2007–09–20 | 6.0 | 1.8 | 51 | 46 | 46 | 50 | 48 | 46 | 47 |
| 21 | 2831 | Chain Lakes (west) | Iosco | 84 | 2007–09–22 | 12.0 | 3.7 | 41 | 41 | 42 | 55 | 51 | 44 | 45 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|--------------------|-------------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 21 | 2831 | Clark Lake | Jackson | 576 | 2007–09–20 | 14.0 | 4.3 | 39 | 44 | 45 | 45 | 45 | 42 | 43 |
| 21 | 2831 | Clear Lake | Jackson | 129 | 2007–09–18 | 11.0 | 3.4 | 43 | 44 | 44 | 47 | 46 | 42 | 43 |
| 21 | 2831 | Vineyard Lake | Jackson | 541 | 2007–09–21 | 13.0 | 4.0 | 40 | 42 | 42 | 52 | 51 | 44 | 45 |
| 21 | 2831 | Wamplers Lake | Jackson | 797 | 2007–09–19 | 7.0 | 2.1 | 49 | 45 | 45 | 50 | 48 | 45 | 45 |
| 21 | 2831 | Sherman Lake | Kalamazoo | 148 | 2007–09–16 | 20.5 | 6.2 | 34 | 39 | 38 | 40 | 38 | 36 | 35 |
| 21 | 2831 | Cub Lake | Kalkaska | 57 | 2007–09–20 | 16.0 | 4.9 | 37 | 41 | 41 | 45 | 44 | 40 | 41 |
| 21 | 2831 | Eagle Lake | Kalkaska | 25 | 2007–09–16 | 16.0 | 4.9 | 37 | 41 | 40 | 42 | 40 | 40 | 40 |
| 21 | 2831 | North Blue Lake | Kalkaska | 56 | 2007–09–22 | 17.0 | 5.2 | 36 | 35 | 34 | 38 | 35 | 36 | 34 |
| 21 | 2831 | Starvation Lake | Kalkaska | 99 | 2007–09–20 | 16.0 | 4.9 | 37 | 41 | 41 | 41 | 38 | 37 | 36 |
| 21 | 2831 | Twin Lake | Kalkaska | 209 | 2007–09–22 | 23.0 | 7.0 | 32 | 46 | 46 | 39 | 36 | 36 | 34 |
| 21 | 2831 | Evans Lake | Lenawee | 215 | 2007–09–19 | 15.0 | 4.6 | 38 | 41 | 41 | 46 | 44 | 41 | 42 |
| 21 | 2831 | Round Lake | Lenawee | 512 | 2007–09–16 | 12.0 | 3.7 | 41 | 46 | 47 | 48 | 47 | 44 | 45 |
| 21 | 2831 | Chemung Lake | Livingston | 313 | 2007–09–17 | 14.0 | 4.3 | 39 | 40 | 40 | 44 | 42 | 40 | 40 |
| 21 | 2831 | Earl Lake | Livingston | 53 | 2007–09–20 | 5.0 | 1.5 | 54 | 54 | 52 | 56 | 53 | 55 | 54 |
| 21 | 2831 | Blue Lake | Mecosta | 229 | 2007–09–18 | 12.0 | 3.7 | 41 | 37 | 37 | 43 | 42 | 40 | 39 |
| 21 | 2831 | Canadian Lakes | Mecosta | 321 | 2007–09–20 | 11.0 | 3.4 | 43 | 41 | 42 | 46 | 43 | 42 | 42 |
| 21 | 2831 | Horsehead Lake | Mecosta | 443 | 2007–09–20 | 10.0 | 3.0 | 44 | 43 | 44 | 47 | 45 | 43 | 44 |
| 21 | 2831 | Mecosta Lake | Mecosta | 312 | 2007–09–22 | 12.0 | 3.7 | 41 | 37 | 37 | 47 | 45 | 41 | 41 |
| 21 | 2831 | Pretty Lake | Mecosta | 116 | 2007–09–22 | 12.0 | 3.7 | 41 | 38 | 38 | 45 | 43 | 41 | 41 |
| 21 | 2831 | Round Lake | Mecosta | 157 | 2007–09–22 | 14.0 | 4.3 | 39 | 42 | 42 | 44 | 42 | 40 | 40 |
| 21 | 2831 | West Canadian Lake | Mescoda | 133 | 2007–09–20 | 12.0 | 3.7 | 41 | 44 | 44 | 44 | 42 | 40 | 40 |
| 21 | 2831 | Baldwin Lake | Montcalm | 62 | 2007–09–18 | 10.0 | 3.0 | 44 | 40 | 41 | 45 | 43 | 41 | 41 |
| 21 | 2831 | Clifford Lake | Montcalm | 195 | 2007–09–22 | 13.0 | 4.0 | 40 | 40 | 40 | 45 | 43 | 42 | 42 |
| 21 | 2831 | East Twin Lake | Montmorency | 820 | 2007–09–22 | 8.5 | 2.6 | 46 | 44 | 45 | 46 | 45 | 42 | 43 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|---------------------|-------------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 21 | 2831 | West Twin Lake | Montmorency | 1306 | 2007–09–20 | 8.5 | 2.6 | 46 | 48 | 48 | 50 | 49 | 47 | 48 |
| 21 | 2831 | Bills Lake | Newaygo | 200 | 2007–09–22 | 12.0 | 3.7 | 41 | 36 | 36 | 42 | 41 | 38 | 39 |
| 21 | 2831 | Pickrel Lake | Newaygo | 308 | 2007–09–15 | 12.0 | 3.7 | 41 | 41 | 41 | 43 | 40 | 40 | 39 |
| 21 | 2831 | Center Lake | Osceola | 41 | 2007–09–16 | 20.0 | 6.1 | 34 | 39 | 39 | 42 | 40 | 40 | 39 |
| 21 | 2831 | Hicks Lake | Osceola | 160 | 2007–09–17 | 5.5 | 1.7 | 53 | 52 | 51 | 53 | 50 | 50 | 50 |
| 21 | 2831 | Big Bradford Lake | Otsego | 256 | 2007–09–21 | 22.0 | 6.7 | 33 | 35 | 35 | 42 | 40 | 36 | 36 |
| 21 | 2831 | Big Lake | Otsego | 124 | 2007–09–17 | 19.0 | 5.8 | 35 | 39 | 39 | 41 | 39 | 37 | 37 |
| 21 | 2831 | Crockery Lake | Ottawa | 104 | 2007–09–17 | 7.0 | 2.1 | 49 | 48 | 48 | 50 | 47 | 46 | 47 |
| 21 | 2831 | Corey Lake | St. Joseph | 599 | 2007–09–18 | 14.5 | 4.4 | 39 | 40 | 40 | 43 | 41 | 40 | 39 |
| 21 | 2831 | Fishers Lake | St. Joseph | 330 | 2007–09–22 | 12.0 | 3.7 | 41 | 42 | 43 | 45 | 43 | 43 | 44 |
| 21 | 2831 | Klinger Lake | St. Joseph | 835 | 2007–09–20 | 11.0 | 3.4 | 43 | 45 | 45 | 46 | 45 | 43 | 45 |
| 21 | 2831 | Perrin Lake | St. Joseph | 109 | 2007–09–21 | 10.0 | 3.0 | 44 | 42 | 42 | 51 | 48 | 47 | 46 |
| 21 | 2831 | Cedar Lake | Van Buren | 275 | 2007–09–17 | 13.0 | 4.0 | 40 | 40 | 40 | 44 | 43 | 41 | 40 |
| 21 | 2831 | Crooked Lake | Van Buren | 117 | 2007–09–21 | 10.5 | 3.2 | 43 | 40 | 39 | 43 | 43 | 41 | 40 |
| 21 | 2831 | Crooked Lake Little | Van Buren | 114 | 2007–09–21 | 11.5 | 3.5 | 42 | 41 | 39 | 43 | 43 | 39 | 39 |
| 21 | 2831 | Gravel Lake | Van Buren | 297 | 2007–09–20 | 9.5 | 2.9 | 45 | * | * | * | * | 41 | 40 |
| 21 | 2831 | Maple Lake | Van Buren | 193 | 2007–09–18 | 7.0 | 2.1 | 49 | 45 | 45 | 50 | 47 | 46 | 45 |
| 21 | 2831 | Stone Ledge Lake | Wexford | 83 | 2007–09–18 | 8.5 | 2.6 | 46 | 46 | 47 | 48 | 49 | 45 | 45 |
| 22 | 28 | Frenchman Lake | Chippewa | 185 | 2007–06–26 | 12.0 | 3.7 | 41 | 43 | 43 | 45 | 45 | 43 | 43 |
| 22 | 28 | Trout Lake | Chippewa | 568 | 2007–06–26 | 11.5 | 3.5 | 42 | 41 | 41 | 46 | 45 | 44 | 44 |
| 22 | 28 | Wegwaas Lake | Chippewa | 148 | 2007–06–26 | 10.0 | 3.0 | 44 | 43 | 43 | 44 | 44 | 42 | 43 |
| 22 | 28 | Bass Lake | Luce | 144 | 2007–06–28 | 21.0 | 6.4 | 33 | 36 | 35 | 37 | 36 | 36 | 36 |
| 22 | 28 | Bodi Lake | Luce | 275 | 2007–06–27 | 10.0 | 3.0 | 44 | 48 | 48 | 49 | 48 | 46 | 46 |
| 22 | 28 | Culhane Lake | Luce | 100 | 2007–06–27 | 11.0 | 3.4 | 43 | 45 | 45 | 44 | 44 | 43 | 43 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|-------------------|-------------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 22 | 28 | East Lake | Luce | 125 | 2007–06–28 | 10.0 | 3.0 | 44 | 39 | 40 | 40 | 41 | 39 | 40 |
| 22 | 28 | Kaks Lake | Luce | 59 | 2007–06–28 | 9.5 | 2.9 | 45 | 43 | 43 | 43 | 43 | 43 | 43 |
| 22 | 28 | Muskallonge Lake | Luce | 762 | 2007–06–27 | 9.0 | 2.7 | 45 | 42 | 43 | 43 | 44 | 42 | 43 |
| 22 | 28 | Perch Lake | Luce | 91 | 2007–06–27 | 19.0 | 5.8 | 35 | 36 | 36 | 37 | 37 | 36 | 35 |
| 22 | 28 | Pike Lake | Luce | 286 | 2007–06–27 | 9.5 | 2.9 | 45 | 43 | 43 | 42 | 42 | 42 | 41 |
| 22 | 28 | Brevoort Lake | Mackinac | 4315 | 2007–06–26 | 13.0 | 4.0 | 40 | 41 | 42 | 44 | 44 | 42 | 42 |
| 22 | 28 | East Lake | Mackinac | 927 | 2007–06–26 | 10.5 | 3.2 | 43 | 44 | 44 | 46 | 46 | 44 | 45 |
| 22 | 28 | Millecoquins Lake | Mackinac | 1123 | 2007–06–26 | 8.0 | 2.4 | 47 | 45 | 45 | 50 | 49 | 48 | 47 |
| 22 | 28 | Dutch Fred Lake | Schoolcraft | 34 | 2007–06–28 | 19.0 | 5.8 | 35 | 36 | 36 | 37 | 38 | 36 | 36 |
| 22 | 2931 | Osterhout Lake | Allegan | 172 | 2007–09–14 | 7.0 | 2.1 | 49 | 46 | 45 | 47 | 47 | 45 | 45 |
| 22 | 2931 | Wetmore Lake | Allegan | 46 | 2007–09–20 | 7.5 | 2.3 | 48 | 43 | 45 | 45 | 45 | 43 | 43 |
| 22 | 2931 | Torch Lake | Antrim | 18722 | 2007–09–08 | 21.0 | 6.4 | 33 | 29 | 31 | 32 | 32 | 30 | 31 |
| 22 | 2931 | Woods Lake of the | Antrim | 172 | 2007–09–13 | 5.0 | 1.5 | 54 | 54 | 51 | 55 | 52 | 54 | 52 |
| 22 | 2931 | Barlow Lake | Barry | 181 | 2007–09–15 | 10.5 | 3.2 | 43 | 41 | 42 | 43 | 42 | 44 | 43 |
| 22 | 2931 | Cobb Lake | Barry | 92 | 2007–09–13 | 15.0 | 4.6 | 38 | 42 | 42 | 42 | 40 | 43 | 42 |
| 22 | 2931 | Crooked Lake | Barry | 644 | 2007–09–09 | 7.5 | 2.3 | 48 | 48 | 48 | 49 | 49 | 48 | 47 |
| 22 | 2931 | Payne Lake | Barry | 113 | 2007–09–08 | 7.5 | 2.3 | 48 | 47 | 47 | 49 | 48 | 46 | 46 |
| 22 | 2931 | Ann Lake | Benzie | 501 | 2007–09–08 | 14.5 | 4.4 | 39 | 42 | 43 | 44 | 44 | 42 | 42 |
| 22 | 2931 | Crystal Lake | Benzie | 9869 | 2007–09–08 | 23.0 | 7.0 | 32 | 36 | 38 | 37 | 37 | 36 | 37 |
| 22 | 2931 | Platte Lake | Benzie | 2532 | 2007–09–09 | 11.0 | 3.4 | 43 | 46 | 45 | 47 | 45 | 44 | 44 |
| 22 | 2931 | Sanford Lake | Benzie | 53 | 2007–09–10 | 11.0 | 3.4 | 43 | 42 | 43 | 44 | 45 | 43 | 44 |
| 22 | 2931 | Diamond Lake | Cass | 1041 | 2007–09–11 | 10.0 | 3.0 | 44 | 43 | 39 | 47 | 43 | 43 | 41 |
| 22 | 2931 | Eagle Lake | Cass | 400 | 2007–09–19 | 10.5 | 3.2 | 43 | 46 | 44 | 49 | 47 | 47 | 46 |
| 22 | 2931 | Magician Lake | Cass | 522 | 2007–09–15 | 10.0 | 3.0 | 44 | 44 | 43 | 48 | 46 | 45 | 44 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|--------------------|-----------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 22 | 2931 | Puterbaugh Lake | Cass | 44 | 2007–09–12 | 7.0 | 2.1 | 49 | 50 | 47 | 50 | 48 | 48 | 47 |
| 22 | 2931 | Twin Lake (north) | Cass | 61 | 2007–09–14 | 9.5 | 2.9 | 45 | 41 | 40 | 45 | 44 | 41 | 40 |
| 22 | 2931 | Twin Lake (south) | Cass | 43 | 2007–09–08 | 10.5 | 3.2 | 43 | 44 | 41 | 49 | 46 | 44 | 43 |
| 22 | 2931 | George Lake | Clare | 129 | 2007–09–09 | 11.0 | 3.4 | 43 | 46 | 47 | 45 | 46 | 44 | 45 |
| 22 | 2931 | Windover Lake | Clare | 68 | 2007–09–08 | 12.0 | 3.7 | 41 | 47 | 46 | 50 | 48 | 47 | 47 |
| 22 | 2931 | Margrethe Lake | Crawford | 1922 | 2007–09–16 | 12.0 | 3.7 | 41 | 46 | 47 | 49 | 48 | 46 | 47 |
| 22 | 2931 | Bostwick Lake | Kent | 213 | 2007–09–13 | 5.5 | 1.7 | 53 | 48 | 49 | 48 | 48 | 46 | 47 |
| 22 | 2931 | Freska Lake | Kent | 59 | 2007–09–11 | 10.0 | 3.0 | 44 | 43 | 44 | 44 | 45 | 43 | 44 |
| 22 | 2931 | Reeds Lake | Kent | 270 | 2007–09–19 | 4.0 | 1.2 | 57 | 54 | 53 | 55 | 53 | 55 | 54 |
| 22 | 2931 | Big Star Lake | Lake | 890 | 2007–09–11 | 11.0 | 3.4 | 43 | 44 | 46 | 43 | 46 | 43 | 45 |
| 22 | 2931 | Glen Lake | Leelanau | 4871 | 2007–09–12 | 14.5 | 4.4 | 39 | 34 | 34 | 36 | 35 | 34 | 33 |
| 22 | 2931 | Hamlin Lake | Mason | 4622 | 2007–09–14 | 13.0 | 4.0 | 40 | 43 | 46 | 44 | 46 | 43 | 45 |
| 22 | 2931 | Blue Lake | Mecosta | 229 | 2007–09–15 | 11.0 | 3.4 | 43 | 42 | 43 | 46 | 46 | 44 | 45 |
| 22 | 2931 | Canadian Lakes | Mecosta | 321 | 2007–09–20 | 11.0 | 3.4 | 43 | 43 | 45 | 45 | 47 | 45 | 46 |
| 22 | 2931 | Horsehead Lake | Mecosta | 443 | 2007–09–13 | 9.5 | 2.9 | 45 | 46 | 48 | 49 | 48 | 46 | 47 |
| 22 | 2931 | Mecosta Lake | Mecosta | 312 | 2007–09–13 | 10.0 | 3.0 | 44 | 46 | 47 | 49 | 49 | 46 | 47 |
| 22 | 2931 | West Canadian Lake | Mescoda | 133 | 2007–09–20 | 12.0 | 3.7 | 41 | 45 | 47 | 46 | 47 | 45 | 46 |
| 22 | 2931 | Sapphire Lake | Missaukee | 246 | 2007–09–10 | 7.5 | 2.3 | 48 | 46 | 47 | 48 | 48 | 47 | 48 |
| 22 | 2931 | Baldwin Lake | Montcalm | 62 | 2007–09–13 | 9.0 | 2.7 | 45 | 44 | 45 | 45 | 46 | 44 | 44 |
| 22 | 2931 | Clifford Lake | Montcalm | 195 | 2007–09–15 | 9.0 | 2.7 | 45 | 45 | 46 | 46 | 47 | 44 | 46 |
| 22 | 2931 | Bills Lake | Newaygo | 200 | 2007–09–14 | 10.5 | 3.2 | 43 | 43 | 42 | 46 | 44 | 43 | 42 |
| 22 | 2931 | Emerald Lake | Newaygo | 77 | 2007–09–13 | 11.5 | 3.5 | 42 | 44 | 44 | 45 | 44 | 44 | 44 |
| 22 | 2931 | Fremont Lake | Newaygo | 825 | 2007–09–12 | 8.0 | 2.4 | 47 | 51 | 50 | 51 | 49 | 49 | 48 |
| 22 | 2931 | Hess Lake | Newaygo | 765 | 2007–09–11 | 2.5 | 0.8 | 64 | 62 | 57 | 62 | 58 | 64 | 60 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|---------------------|------------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 22 | 2931 | Kimball Lake | Newaygo | 147 | 2007–09–15 | 6.5 | 2.0 | 50 | 48 | 48 | 47 | 48 | 47 | 48 |
| 22 | 2931 | Pickerel Lake | Newaygo | 308 | 2007–09–15 | 12.0 | 3.7 | 41 | 44 | 45 | 46 | 46 | 44 | 45 |
| 22 | 2931 | Sylvan Lake | Newaygo | 102 | 2007–09–13 | 11.0 | 3.4 | 43 | 43 | 42 | 45 | 43 | 43 | 42 |
| 22 | 2931 | Robinson Lake | Oceana | 134 | 2007–09–16 | 9.5 | 2.9 | 45 | 45 | 47 | 46 | 47 | 45 | 47 |
| 22 | 2931 | Stony Lake | Oceana | 287 | 2007–09–14 | 8.0 | 2.4 | 47 | 42 | 43 | 43 | 44 | 43 | 44 |
| 22 | 2931 | Hicks Lake | Osceola | 160 | 2007–09–09 | 5.5 | 1.7 | 53 | 50 | 51 | 50 | 50 | 50 | 51 |
| 22 | 2931 | Viking Lake | Otsego | 36 | 2007–09–20 | 4.0 | 1.2 | 57 | 51 | 49 | 51 | 50 | 50 | 50 |
| 22 | 2931 | Crockery Lake | Ottawa | 104 | 2007–09–11 | 7.0 | 2.1 | 49 | 46 | 45 | 48 | 47 | 47 | 47 |
| 22 | 2931 | Corey Lake | St. Joseph | 599 | 2007–09–11 | 14.5 | 4.4 | 39 | 43 | 42 | 45 | 43 | 42 | 40 |
| 22 | 2931 | Cedar Lake | Van Buren | 275 | 2007–09–15 | 16.5 | 5.0 | 37 | 40 | 40 | 44 | 42 | 41 | 40 |
| 22 | 2931 | Crooked Lake | Van Buren | 117 | 2007–09–09 | 11.0 | 3.4 | 43 | 41 | 40 | 45 | 42 | 41 | 40 |
| 22 | 2931 | Crooked Lake Little | Van Buren | 114 | 2007–09–12 | 13.0 | 4.0 | 40 | 37 | 37 | 43 | 41 | 42 | 40 |
| 22 | 2931 | Gravel Lake | Van Buren | 297 | 2007–09–13 | 9.0 | 2.7 | 45 | 43 | 43 | 44 | 43 | 41 | 40 |
| 22 | 2931 | School Section Lake | Van Buren | 79 | 2007–09–13 | 9.0 | 2.7 | 45 | 48 | 47 | 48 | 47 | 47 | 47 |
| 22 | 2931 | Silver Lake | Van Buren | 50 | 2007–09–13 | 10.0 | 3.0 | 44 | 41 | 41 | 42 | 43 | 41 | 41 |
| 22 | 2931 | Pleasant Lake | Wexford | 130 | 2007–09–13 | 8.5 | 2.6 | 46 | 46 | 48 | 46 | 48 | 45 | 47 |
| 22 | 2931 | Stone Ledge Lake | Wexford | 83 | 2007–09–14 | 9.0 | 2.7 | 45 | 45 | 45 | 48 | 46 | 48 | 49 |
| 23 | 28 | Deer Lake | Alger | 266 | 2007–08–07 | 11.0 | 3.4 | 43 | 44 | 44 | 41 | 41 | 42 | 42 |
| 23 | 28 | Fish Lake | Alger | 134 | 2007–08–07 | 14.5 | 4.4 | 39 | 38 | 37 | 41 | 41 | 42 | 42 |
| 23 | 28 | Dana Lake | Delta | 85 | 2007–08–07 | 9.5 | 2.9 | 45 | 45 | 45 | 43 | 43 | 43 | 43 |
| 23 | 28 | Deep Lake | Delta | 39 | 2007–08–07 | 14.5 | 4.4 | 39 | 40 | 40 | 41 | 40 | 40 | 40 |
| 23 | 28 | Round Lake | Delta | 482 | 2007–08–07 | 15.5 | 4.7 | 38 | 39 | 39 | 42 | 41 | 41 | 41 |
| 23 | 28 | Bass Lake | Marquette | 76 | 2007–08–06 | 20.0 | 6.1 | 34 | 37 | 37 | 36 | 36 | 35 | 35 |
| 23 | 28 | Engman Lake | Marquette | 48 | 2007–08–06 | 10.0 | 3.0 | 44 | 41 | 41 | 42 | 41 | 41 | 41 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|---------------------|-------------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 23 | 28 | Johnson Lake | Marquette | 78 | 2007–08–06 | 18.0 | 5.5 | 35 | 36 | 36 | 38 | 37 | 36 | 36 |
| 23 | 28 | Little Shag Lake | Marquette | 107 | 2007–08–06 | 14.0 | 4.3 | 39 | 37 | 37 | 38 | 38 | 38 | 38 |
| 23 | 28 | Pike Lake | Marquette | 90 | 2007–08–06 | 14.0 | 4.3 | 39 | 39 | 40 | 41 | 40 | 39 | 39 |
| 23 | 28 | Shag Lake | Marquette | 195 | 2007–08–06 | 13.5 | 4.1 | 40 | 39 | 39 | 41 | 40 | 40 | 40 |
| 23 | 28 | Sporley Lake | Marquette | 77 | 2007–08–06 | 14.0 | 4.3 | 39 | 38 | 38 | 39 | 38 | 38 | 38 |
| 23 | 28 | Grassy Lake | Schoolcraft | 188 | 2007–08–08 | 11.0 | 3.4 | 43 | 41 | 42 | 43 | 42 | 42 | 41 |
| 23 | 28 | McKeever Lake | Schoolcraft | 147 | 2007–08–08 | 13.0 | 4.0 | 40 | 40 | 39 | 42 | 41 | 41 | 41 |
| 23 | 28 | Petes Lake | Schoolcraft | 194 | 2007–08–08 | 17.0 | 5.2 | 36 | 37 | 37 | 36 | 36 | 35 | 35 |
| 24 | 2728 | Bass Lake | Dickinson | 60 | 2008–07–31 | 16.4 | 5.0 | 37 | 38 | 38 | 38 | 38 | 36 | 37 |
| 24 | 2728 | Carney Lake | Dickinson | 115 | 2008–07–31 | 11.1 | 3.4 | 42 | 39 | 39 | 39 | 39 | 39 | 39 |
| 24 | 2728 | Hanbury Lake | Dickinson | 78 | 2008–07–31 | 18.3 | 5.6 | 35 | * | * | * | * | 38 | 37 |
| 24 | 2728 | Mary Lake | Dickinson | 85 | 2008–07–31 | 14.8 | 4.5 | 38 | 40 | 39 | 40 | 38 | 39 | 38 |
| 24 | 2728 | Gerald Lake | Houghton | 356 | 2008–07–29 | 11.8 | 3.6 | 42 | 45 | 44 | 46 | 45 | 46 | 45 |
| 24 | 2728 | Otter Lake | Houghton | 863 | 2008–07–30 | 11.5 | 3.5 | 42 | 44 | 45 | 45 | 45 | 44 | 45 |
| 24 | 2728 | Pike Lake | Houghton | 83 | 2008–07–29 | 7.9 | 2.4 | 47 | 48 | 48 | 46 | 45 | 45 | 45 |
| 24 | 2728 | Roland Lake | Houghton | 258 | 2008–07–29 | 11.3 | 3.4 | 42 | 44 | 44 | 45 | 45 | 46 | 45 |
| 24 | 2728 | Sandy Lake | Houghton | 101 | 2008–07–29 | 7.0 | 2.1 | 49 | 47 | 47 | 46 | 45 | 47 | 45 |
| 24 | 2728 | Torch Lake | Houghton | 2400 | 2008–07–30 | 10.0 | 3.0 | 44 | 43 | 43 | 45 | 45 | 44 | 45 |
| 24 | 2728 | La Belle Lac | Keweenaw | 1205 | 2008–07–30 | 8.0 | 2.4 | 47 | 46 | 46 | 46 | 46 | 45 | 45 |
| 24 | 2728 | Manganese Lake | Keweenaw | 56 | 2008–07–30 | 9.5 | 2.9 | 45 | 44 | 43 | 46 | 45 | 45 | 45 |
| 24 | 2728 | Medora Lake | Keweenaw | 690 | 2008–07–30 | 9.0 | 2.7 | 45 | 45 | 45 | 45 | 45 | 44 | 45 |
| 24 | 2728 | Engman Lake | Marquette | 48 | 2008–07–30 | 10.0 | 3.0 | 44 | 45 | 45 | 45 | 45 | 43 | 45 |
| 24 | 2728 | Fish Lake | Marquette | 151 | 2008–07–28 | 7.9 | 2.4 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| 24 | 2728 | Greenwood Reservoir | Marquette | 1073 | 2008–07–28 | 6.8 | 2.1 | 49 | 46 | 46 | 46 | 46 | 46 | 46 |

Appendix 2. Results and computations by Landsat-satellite path for Michigan inland lakes, 2007–08, of measured and predicted Secchi-disk transparency and Trophic State Index values for the area of interest, area of interest lake-average method, and the Gethist method.—Continued

[SDT, Secchi-disk transparency; AOI, area of interest; TSI, Trophic State Index; Eq, equation; *, measurement not used owing to issue with placement]

| Landsat satellite | | Lake Name | County | Acres | Measured SDT | | | AOI TSI | | AOI lake | | Gethist TSI | | |
|-------------------|------|----------------------|-----------|-------|--------------|--------|-------|---------|-----|----------|-----|-------------|-----|-----|
| Path | Row | | | | Sampled | SDT ft | SDT m | TSI | Eq1 | Eq2 | Eq1 | Eq2 | Eq1 | Eq2 |
| 24 | 2728 | Lake Independence | Marquette | 2041 | 2008–07–28 | 10.5 | 3.2 | 43 | 44 | 44 | 45 | 45 | 45 | 45 |
| 24 | 2728 | Lake Michigamme | Marquette | 4292 | 2008–07–29 | 8.8 | 2.7 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| 25 | 28 | Allen Lake | Gogebic | 78 | 2008–08–06 | 14.5 | 4.4 | 39 | 35 | 39 | 33 | 47 | 39 | 41 |
| 25 | 28 | Beatons Lake | Gogebic | 324 | 2008–08–05 | 22.0 | 6.7 | 33 | 33 | 34 | 32 | 35 | 31 | 30 |
| 25 | 28 | Cisco Lake | Gogebic | 567 | 2008–08–05 | 5.5 | 1.7 | 53 | 49 | 47 | 44 | 50 | 50 | 47 |
| 25 | 28 | Duck Lake | Gogebic | 612 | 2008–08–06 | 11.5 | 3.5 | 42 | 44 | 46 | 38 | 48 | 43 | 44 |
| 25 | 28 | Imp Lake | Gogebic | 91 | 2008–08–06 | 24.0 | 7.3 | 31 | 28 | 28 | 33 | 39 | 33 | 33 |
| 25 | 28 | Lac Vieux Desert | Gogebic | 4370 | 2008–08–06 | 7.5 | 2.3 | 48 | 47 | 42 | 42 | 50 | 48 | 46 |
| 25 | 28 | Little Duck Lake | Gogebic | 44 | 2008–08–06 | 19.0 | 5.8 | 35 | 39 | 40 | 35 | 45 | 35 | 38 |
| 25 | 28 | Marion Lake | Gogebic | 297 | 2008–08–06 | 12.0 | 3.7 | 41 | 41 | 39 | 32 | 42 | 37 | 37 |
| 25 | 28 | Thousand Island Lake | Gogebic | 1009 | 2008–08–06 | 12.5 | 3.8 | 41 | 39 | 40 | 38 | 43 | 37 | 38 |
| 25 | 28 | Golden Lake | Iron | 274 | 2008–08–04 | 22.0 | 6.7 | 33 | 33 | 33 | 38 | 40 | 33 | 34 |
| 25 | 28 | Hagerman Lake | Iron | 565 | 2008–08–04 | 17.0 | 5.2 | 36 | 38 | 40 | 42 | 47 | 42 | 41 |
| 25 | 28 | Ottawa Lake | Iron | 532 | 2008–08–04 | 20.5 | 6.2 | 34 | 39 | 40 | 41 | 44 | 38 | 38 |
| 25 | 28 | Smoky Lake | Iron | 596 | 2008–08–04 | 14.5 | 4.4 | 39 | 41 | 37 | 41 | 41 | 37 | 35 |
| 25 | 28 | Lake Gogebic | Ontonagon | 13127 | 2008–08–05 | 8.0 | 2.4 | 47 | 43 | 46 | 50 | 51 | 46 | 48 |