

animals and thus can cause a fish kill. We can determine health of a lake and its productivity by calculating the rate at which the oxygen disappears below 20 feet. This is a very complex process that is still ongoing. A preliminary calculation was done at Site A on Long Lake in the north basin. It was determined that over a 70-day period in the summer, 892 mg of oxygen was lost in a cubic meter of water per day. The remaining calculations will be available shortly. The Long Lake watershed is a unique resource in a beautiful location in Northwest Wisconsin. For the

majority of the watershed lakes, water quality is fairly good. There is, however, some decline in water quality. This can be attributed to higher development rates around the lakes and the influence of high concentrations of phosphorous in ground water.

More studies are needed to identify the total impact of these factors but individual awareness and education are the first steps. Hopefully, with the cooperation of all stakeholders, the lakes can either be restored to or maintained at pristine levels and remain the envy of other watersheds.

| Location | Secchi Depth (ft) | Average Total Phosphorous (mg/l) |
|------------------|-------------------|----------------------------------|
| Big Devils | 12.4 | 15 |
| Slim Lake | 7.2 | 22 |
| Slim Creek Flow | 9.9 | 19 |
| Loyhead | 9.2 | 11 |
| Nick | 11 | 8 |
| Harmon | 7.3 | NA |
| Little Devils | 10.9 | 17 |
| Bass | 8.8 | 20 |
| Mud | 3.6 | 97 |
| MacRae | 9.2 | 13 |
| Long Lake Site E | 10.9 | 20 |
| Lone Lake Site A | 6.6 | 19 |

| Trophic class | TP | Secchi | Oxygen depletion (mg/m ³ -day) |
|---------------|-------|--------|---|
| Oligotrophic | 0~10 | 20-32 | 0-300 |
| Mesotrophic | 10~20 | 20-32 | 300-600 |
| Eutrophic | >20 | 7 | >600 |

Future Stewards Challenge scholarship offered in 2006

The LLPA Board has initiated an educational program focused on tomorrow's lake and forestland stewards: our children and grandchildren and their peers. We need to start now to build awareness among young people by providing educational programs that will inspire them to care for the high-quality resources we so enjoy now.

The board believes the best delivery system for next-generation, watershed-friendly living is to build a network of area educators who will challenge young people to become active stewards. This new initiative, therefore, will offer an annual scholarship for an educator from the Birchwood, Rice Lake or Spooner school districts to attend an environmental course or seminar that will complement the teacher's curriculum offerings.

In exchange, each scholarship recipient will assist LLPA during the summer by perhaps presenting at the Watershed Fair, gathering a youth crew to help with a watershed project, or participating with youth in other best management practices for land and water protection.

NEW LLPA OFFICE NUMBER
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