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| Symbols | Definition | Unit |
| P | Predicted mixed lake total phosphorus concentrations | mg/m3 or µg/L (parts per billion) |
| Lext | Areal total external phosphorus load | mg/m2 of lake area/yr |
| Lint | Areal total internal phosphorus load | mg/m2 of lake area/yr |
| z | Lake mean depth | meter |
| Tw | Lake hydraulic retention time | year |
| p | lake flushing  | yr-1 |
| qs | Areal water loading or surface overflow rate | m/yr or z/Tw |
| R | Fraction of inflow total phosphorus retained in lake | dimentionless |
| LTw/z | Average inflow total phosphorus concentration | g/m3 or mg/l (parts per million) |
| K2 | Second order decay rate | mg3/mg-yr |
| Nr | Reaction Rate | dimentionless |
| mg/L | milligrams per liter |  |
| µg/L | micrograms per liter |  |
| e | bas of a natrual logarrithm |  |