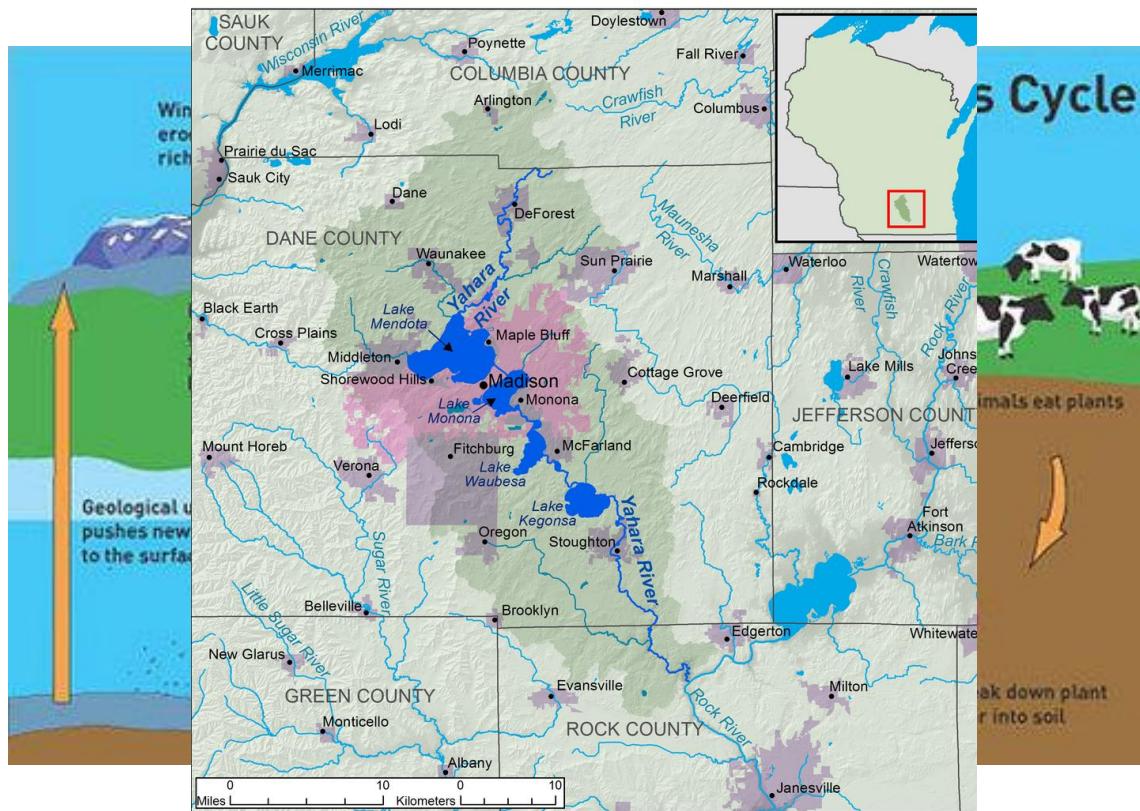


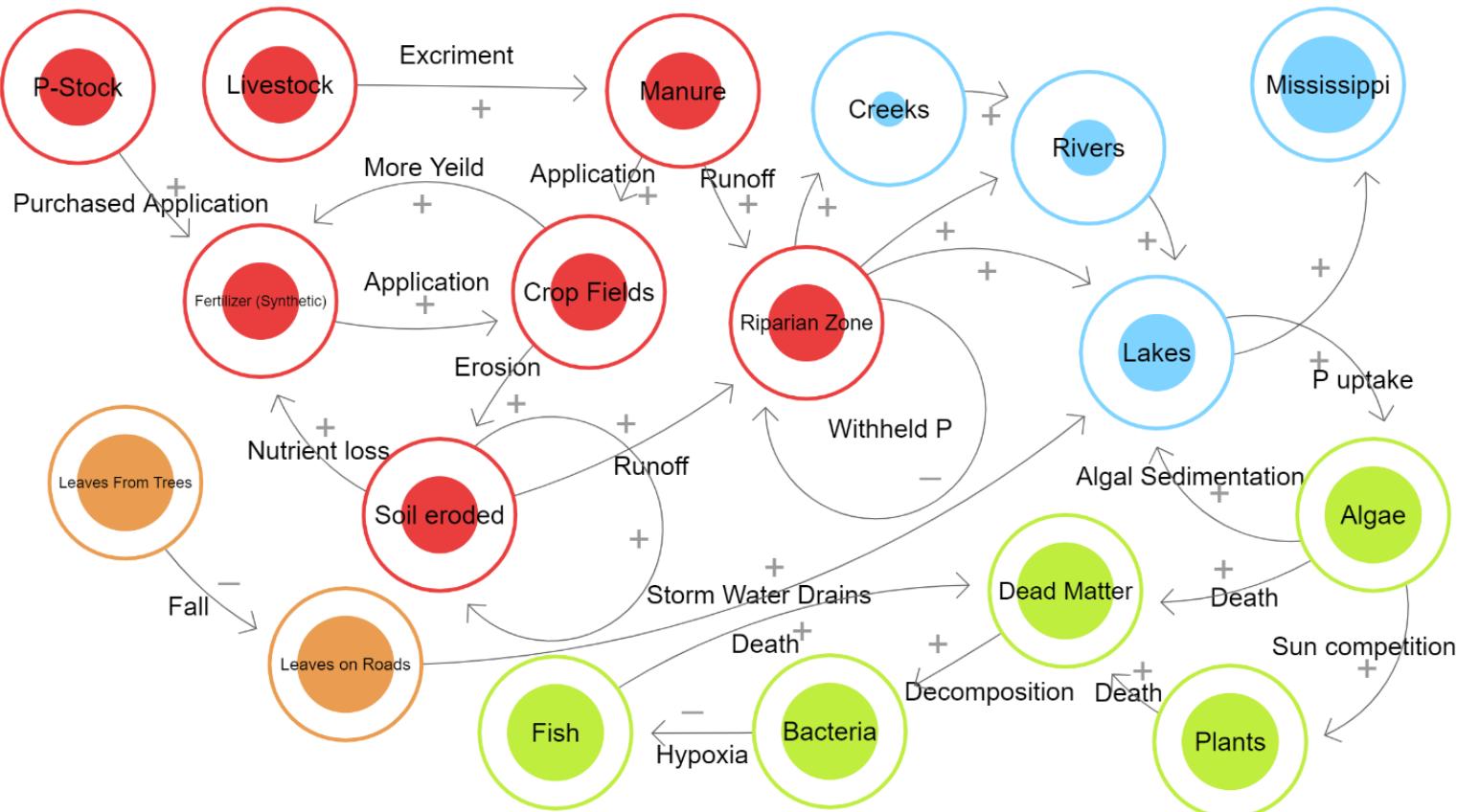
Phosphorus Within the Yahara Watershed

Background

Yahara Watershed



Boundaries of System



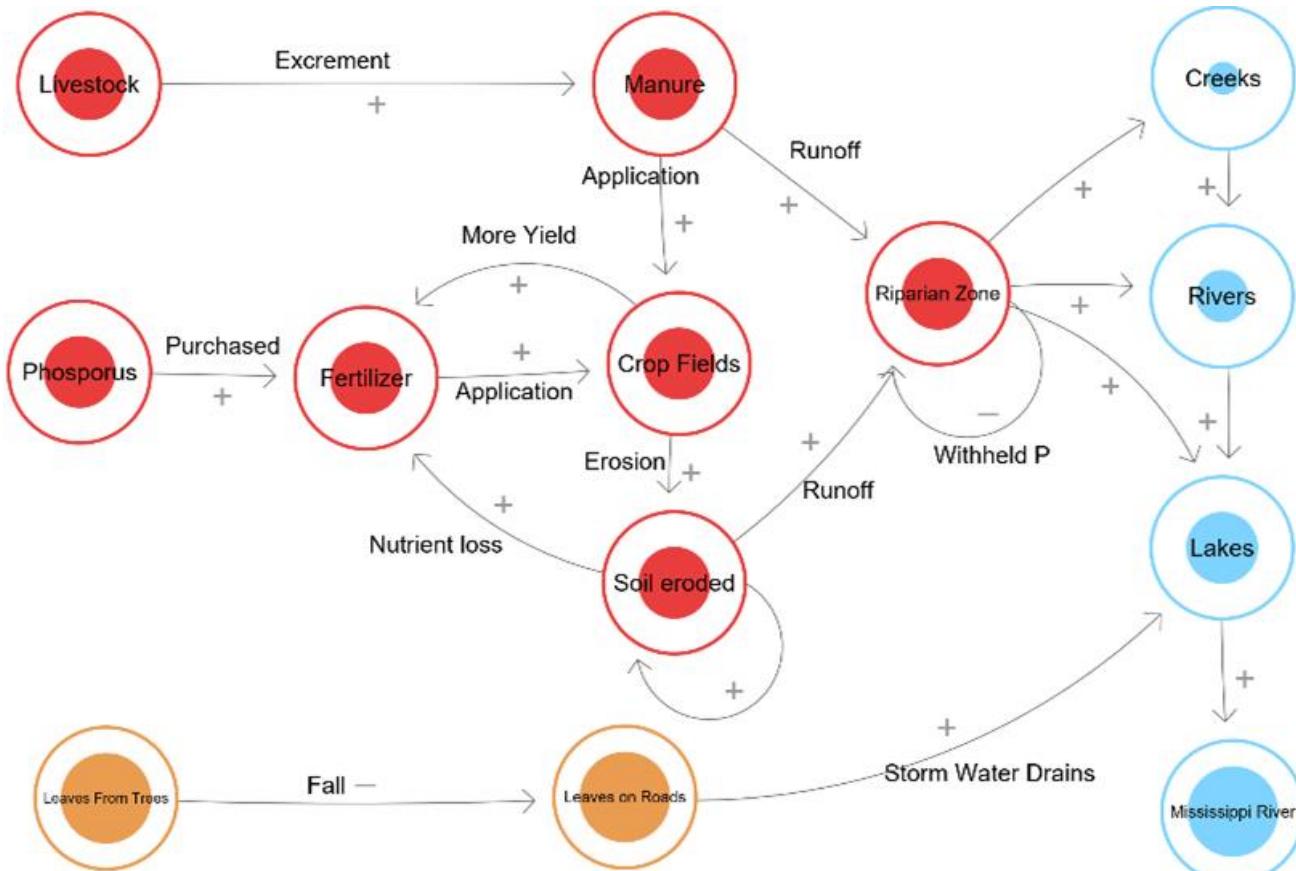
Phosphorus System Analytics I

Key:

Agriculture

Urban

Water
transportation

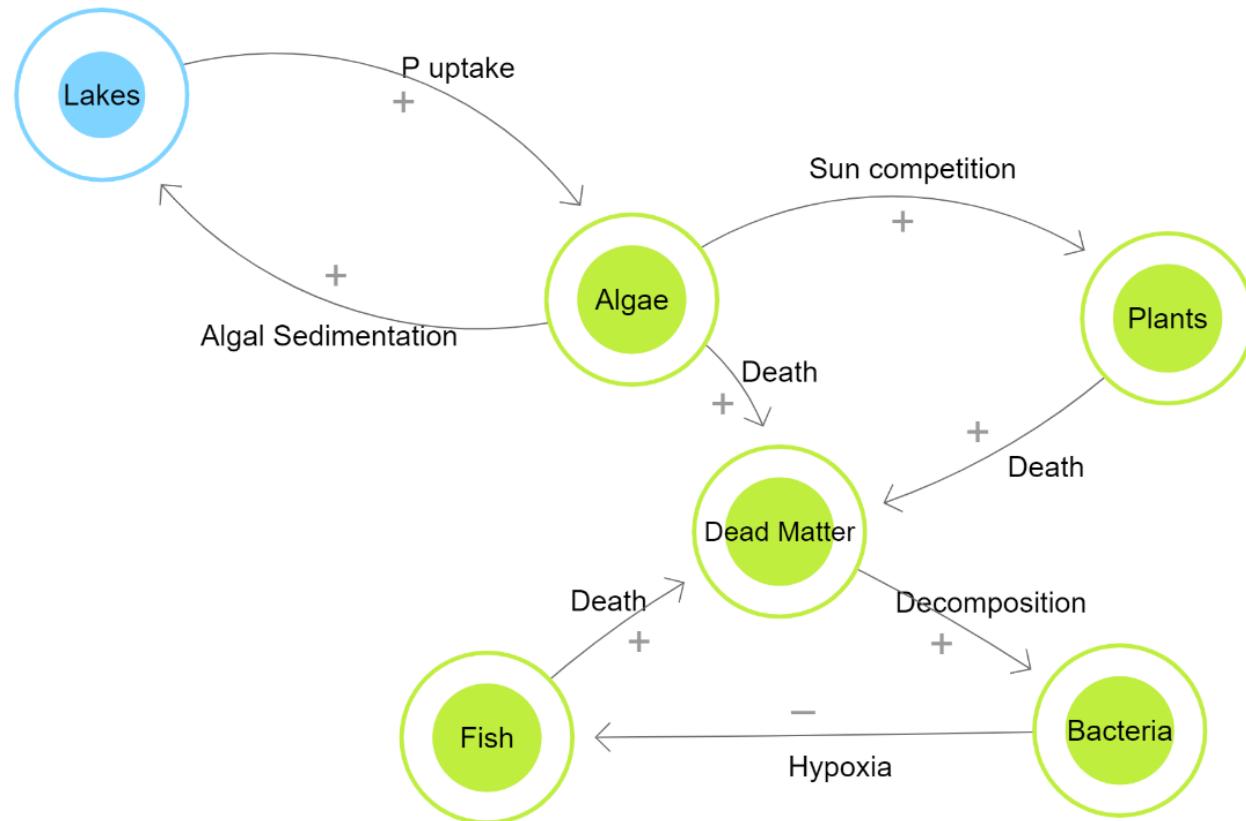


Phosphorus System Analytics II

Key:

Water

Eutrophication



Uses of This System

What is the system good for?
good for?

- Educational
- Ecological effect

What is the system not

- Use limited to phosphorus uptake
- No economic & societal implications

Works Cited

- Carpenter, S. R., Booth, E. G., Gillon, S., Kucharik, C. J., Loheide, S., Mase, A. S., ... & Soylu, E. 2015. Plausible futures of a social-ecological system: Yahara watershed, Wisconsin, USA. *Ecology and Society*, 20(2). Doi: 10.5751/ES-07433-200210
- Carpenter, S. R. 2005. Eutrophication of aquatic ecosystems: bistability and soil phosphorus. *Proceedings of the National Academy of Sciences*, 102(29), 10002-10005. Doi:10.1073/pnas.0503959102
- Chapin, F. S., Matson, P. A., & Mooney, H. A. 2002. Terrestrial nutrient cycling. *Principles of Terrestrial Ecosystem Ecology*, 197-223. Doi: 10.1007%2F0-387-21663-4_9
- Chislock, M. F., Doster, E., Zitomer, R. A. & Wilson, A. E. 2013. Eutrophication: Causes, Consequences, and Controls in Aquatic Ecosystems. *Nature Education Knowledge* 4(4):10 Received from: <https://www.nature.com/scitable/knowledge/library/eutrophication-causes-consequences-and-controls-in-aquatic-102364466>
- Clean Lakes Alliance. *Leaves & Yard Care*. Clean Lakes Alliance website, <https://cleanlakesalliance.org/leaves/>.
- Hairston, J. E., Stribling, L. 1995. Animal Waste Management to Protect Water Quality. *Alabama Cooperative System*. Retrieved from: <http://www.aces.edu/pubs/docs/A/ANR-0790/WQ4.6.8.pdf>.
- National Oceanic and Atmospheric Administration, 2018. What is Eutrophication? National Ocean Service website, <https://oceanservice.noaa.gov/facts/eutrophication.html>, 6/28/18.
- Reed-Andersen, T., Carpenter, S. R., & Lathrop, R. C. 2000. Phosphorus flow in a watershed-lake ecosystem. *Ecosystems*, 3(6), 561-573. Doi: 10.1007/s100210000049
- Wood, S., Sebastian, K., & Scherr, S. J. 2000. *Agroecosystems*. International food policy research Institute. Retrieved from: https://www.researchgate.net/profile/Kate_Sebastian2/publication/237596137_Agroecosystems/links/53fb51dd0cf27c365cf09c9c.pdf