

Supply Chain Design for Nutrient Management and Harmful Algal Blooms Minimization

Yicheng Hu^{1,2}, Apoorva M. Sampat², Victor M. Zavala², Gerardo J. Ruiz-Mercado³

¹ ORISE Research Fellow, National Risk Management Research Laboratory. U.S. Environmental Protection Agency ² Department of Chemical and Biological Engineering. University of Wisconsin-Madison, 1415 Engineering Drive, Madison, WI 53706, USA. ³ National Risk Management Research Laboratory. U.S. Environmental Protection Agency, 26 W. Martin Luther King Drive, Cincinnati, Ohio 45268, USA

- Toxins to humans: e.g. microcystin-LR can lead to liver cancer

- management and nutrient management



ociated with cyanotoxins in 2009 (Graham 2013



A picture of HAB (Cyanobacteria)







6211-6222

[6] Sampat A M, Ruiz-Mercado G J, Zavala V M. Economic and Environmental Analysis for Advancing Sustainable Management of Livestock Waste: A Wisconsin Case Study[J]. ACS Sustainable Chemistry & Engineering, 2018, 6(5): 6018-6031