References

[1] Falcone, J.A., 2021, Estimates of county-level nitrogen and phosphorus from fertilizer and manure from 1950 through 2017 in the conterminous United States: U.S. Geological Survey Open-File Report 2020–1153, 20 p., https://doi.org/10.3133/ofr20201153.

[2] Hong, B., Swaney, D.P. and Howarth, R.W., 2011. A toolbox for calculating net anthropogenic nitrogen inputs (NANI). Environmental Modelling & Software, 26(5), pp.623-633.

[3] Hong, B., Swaney, D.P. and Howarth, R.W., 2013. Estimating net anthropogenic nitrogen inputs to US watersheds: comparison of methodologies. Env. Science & Tech., 47(10), pp.5199-5207.

[4] Howarth, R.W., Chan, F., Swaney, D.P., Marino, R.M. and Hayn, M., 2021. Role of external inputs of nutrients to aquatic ecosystems in determining prevalence of nitrogen vs. phosphorus limitation of net primary productivity. Biogeochemistry, pp.1-14. https://doi.org/10.1007/s10533-021-00765-z

[5] Howarth, R.W., G. Billen, D. P. Swaney, A. Townsend, N. Jaworski, K. Lajtha, J. A. Downing, R. Elmgren, N. Caraco, T. Jordan, F. Berendse, J. Freney, V. Kudeyarov, P. Murdoch, Zhu Zhao-liang. 1996. Riverine Inputs of Nitrogen to the North Atlantic Ocean: Fluxes and Human Influences. Biogeochemistry, 35:75-139

[6] Howarth, R.W., D.P. Swaney, G. Billen, J. Garnier, B. Hong, C. Humborg, P. Johnes, C.-M. Mörth, and R.M. Marino. 2012. Nitrogen fluxes from large watersheds to coastal ecosystems controlled by net anthropogenic N inputs and climate. Frontiers in Ecology and the Environment. 10:37–4

[7] NASS, USDA., 2021. Quick stats. United States Department of Agriculture, National Agricultural Statistics Service. (https://quickstats.nass.usda.gov/)

[8] Schwede, D.B. and Lear, G.G., 2014. A novel hybrid approach for estimating total deposition in the United States. Atmospheric Environment, 92(0): 207-220.

[9] Zhang, Y., Foley, K. M., Schwede, D. B., Bash, J. O., Pinto, J. P., & Dennis, R. L. 2019. A Measurement-Model Fusion Approach for Improved Wet Deposition Maps and Trends. Journal of Geophysical Research: Atmospheres, 124(7), 4237-4251.

[10] National Atmospheric Deposition Program, 2023. Total Deposition Maps, version 2023.01. https://nadp.slh.wisc.edu/committees/tdep/ (accessed May 31, 2024)

[11] Appel, K.W., Bash, J.O., Fahey, K.M., Foley, K.M., Gilliam, R.C., Hogrefe, C., Hutzell, W.T., Kang, D.,
Mathur, R., Murphy, B.N., Napelenok, S.L., Nolte, C.G., Pleim, J. E., Pouliot, G.A., Pye, H.O.T.,
Ran, L., Roselle, S.J., Sarwar, G., Schwede, D.B., Sidi, F.I., Spero, T.L., Wong, D.C. 2021. The
Community Multiscale Air Quality (CMAQ) model versions 5.3 and 5.3.1: system updates and
evaluation. Geoscience Model Development, 14: 29867-2897.
https://doi.org/10.5194/gmd-14-2867-2021

[12] Sinha, E. and Michalak, A.M., 2016. Precipitation dominates interannual variability of riverine nitrogen loading across the continental United States. Environmental science & technology, 50(23), pp.12874-12884.

[13] McCrackin, M.L., Muller-Karulis, B., Gustafsson, B.G., Howarth, R.W., Humborg, C., Svanbäck, A. and Swaney, D.P., 2018. A century of legacy phosphorus dynamics in a large drainage basin. Global Biogeochemical Cycles, 32(7), pp.1107-1122.

[14] Van Meter, K.J., Basu, N.B. and Van Cappellen, P., 2017. Two centuries of nitrogen dynamics: Legacy sources and sinks in the Mississippi and Susquehanna River Basins. Global Biogeochemical Cycles, 31(1), pp.2-23.

[15] Swaney, D. P., Hong, B., C. Ti, R.W. Howarth and C. Humborg. 2012. Net anthropogenic nitrogen inputs to watersheds and riverine N export to coastal waters: a brief overview. Current Opinion in Environmental Sustainability. 4:1-9

[16] Swaney, D.P., Hong, B., Howarth, R.W. 2018. NANI/NAPI Calculator Toolbox Version 3.1 Documentation:
https://www.research.howarthlab.org/NANI/data/NANI_NAPI_Calculator_Toolbox_Version_3.1_Documentation.pdf

[17] Swaney, D.P., Howarth, R.W. and Hong, B., 2018. Nitrogen use efficiency and crop production: Patterns of regional variation in the United States, 1987–2012. Science of The Total Environment, 635, pp.498-511.

[18] Swaney, D.P., Howarth, R.W. and Hong, B., 2018. County, Subregional and Regional Nitrogen Data Derived from the Net Anthropogenic Nitrogen Inputs (NANI) Toolbox. Data in Brief. https://doi.org/10.1016/j.dib.2018.04.098

[19] Swaney, D.P. and R.W. Howarth. 2019. Phosphorus use efficiency and crop production: Patterns of regional variation in the United States, 1987-2012. Science of the Total Environment. 685:174–188. https://doi.org/10.1016/j.scitotenv.2019.05.228.

[20] Swaney, D.P. and Howarth, R.W. 2019. County, Subregional and Regional Phosphorus Data Derived from the Net Anthropogenic Nitrogen/Phosphorus Inputs (NANI/NAPI) Toolbox. https://doi.org/10.1016/j.dib.2019.104265