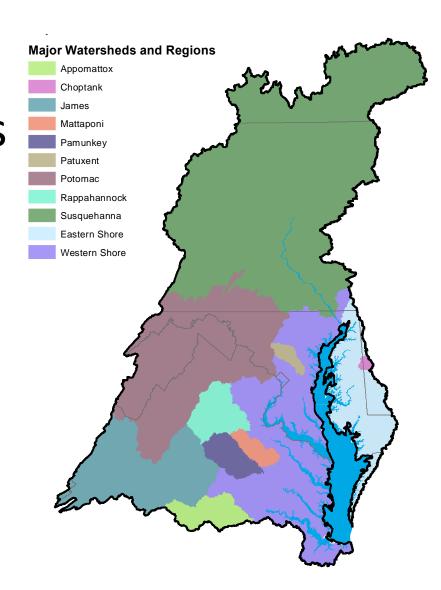
Regional SPARROW targeting- A different way of looking at loads

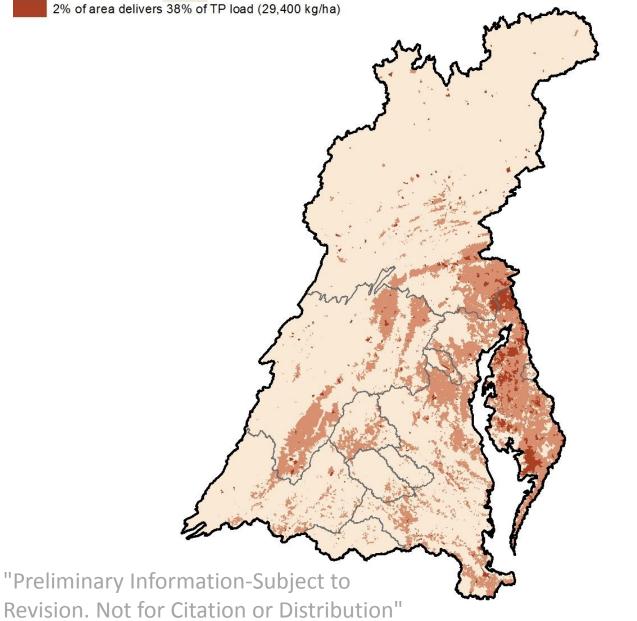
Joel Blomquist USGS Baltimore, MD

This information is preliminary and is subject to revision. It is being provided to meet the need for timely best science. The information is provided on the condition that neither the U.S. Geological Survey nor the U.S. Government shall be held liable for any damages resulting from the authorized or unauthorized use of the information."



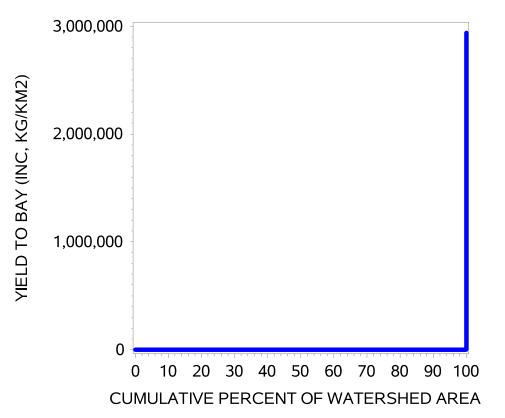


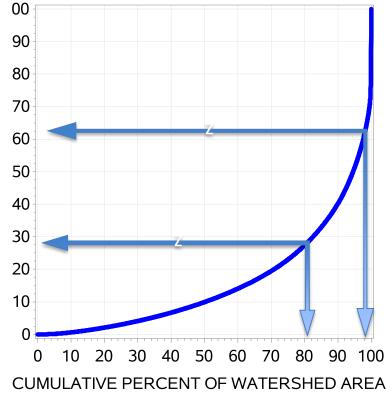
Phosphorus delivered yield (kg/ha) 80% of area deliver 28% of TP load (<0.44 kg/ha) 18% of area deliver 34% of TP load (<1.99 kg/ha)





Phosphorus Total Delivered

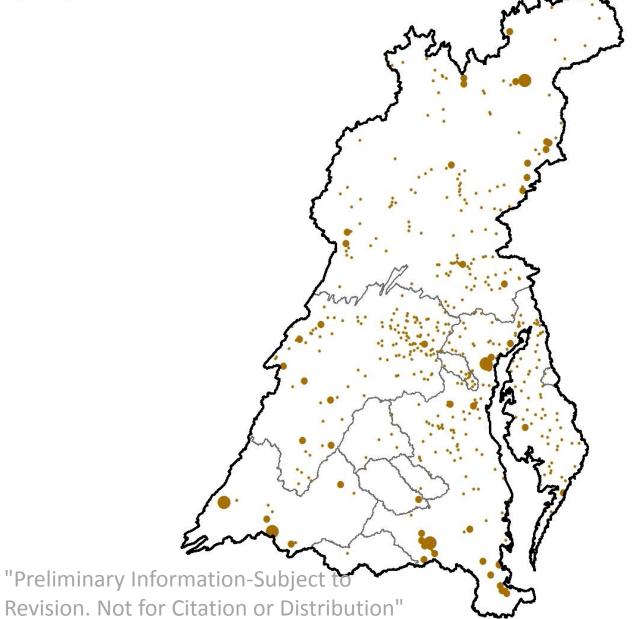






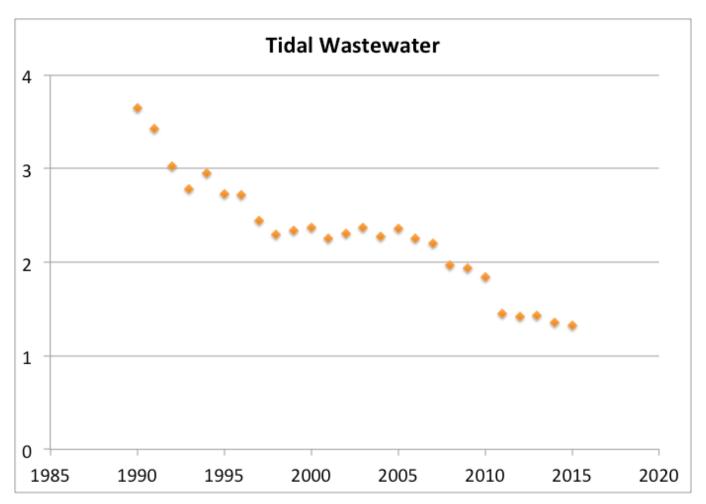
Phosphorus point source delivered (kg/year)

- <12,000
- 12,001 65,000
- >65,000





Phosphorus Wastewater in Million pounds



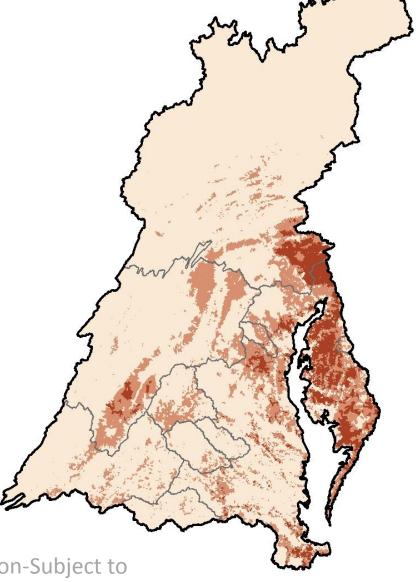


Phosphorus non-point source delivered yield (kg/ha)

80% of area delivers 39% of TP load (<0.42 kg/ha)

15% of area delivers 33% of TP load (<1.15 kg/ha)

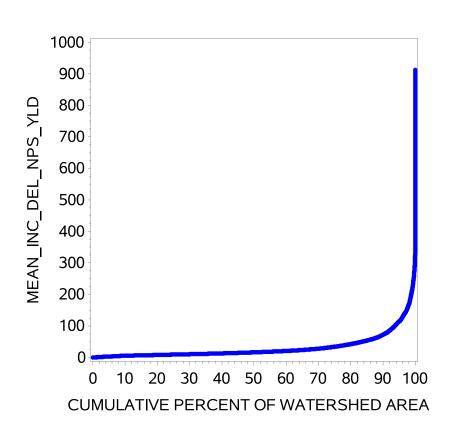
5% of area delivers 28% of TP load (max 9.12 kg/ha)

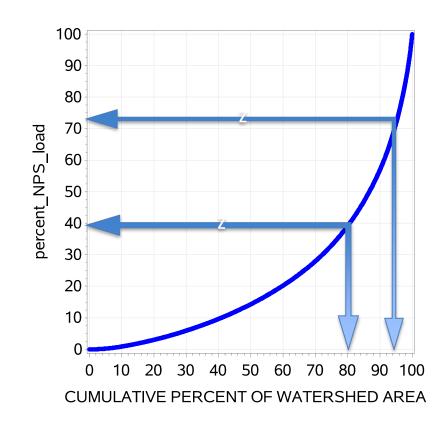




"Preliminary Information-Subject to Revision. Not for Citation or Distribution"

Phosphorus, Nonpoint Incremental Delivered

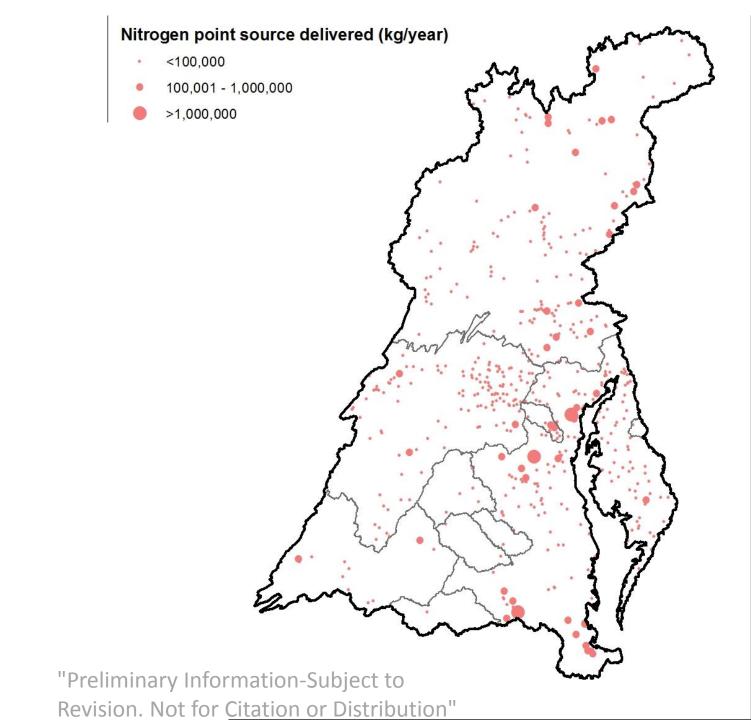






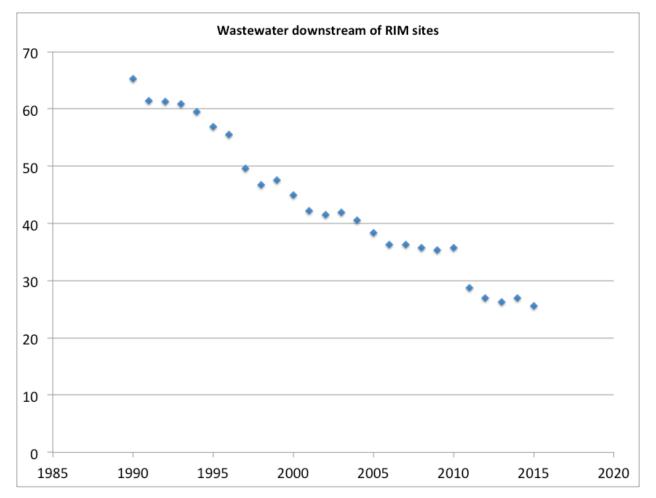
Nitrogen delivered yield (kg/ha) 80% of area delivers 39% of TN load (<9.16 kg/ha) 18% of area delivers 35% of TN load (<27.8 kg/ha) 2% of area delivers 26% of TN load (max 142,000 kg/ha) "Preliminary Information-Subject to Revision. Not for Citation or Distribution"

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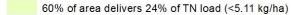
Nitrogen Wastewater, In Million Pounds

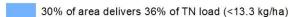


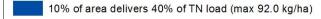


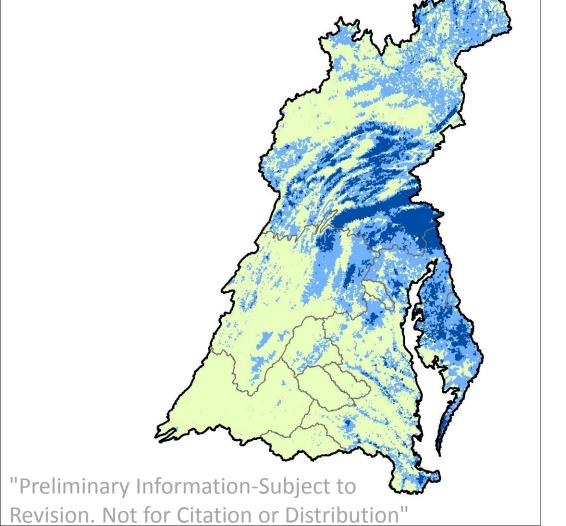
Explanation

Nitrogen non-point source delivered yield (kg/ha)











Summary

- SPARROW can be used to guide restoration in order to focus energy where a greater return on investment.
- Spatial analysis can be fine tuned to areas of interest such as State, Region, or Watershed.
- Supplemental information may be needed for VERY local focusing, as portions of the models are based on downscaled regional information.

