



Rock County Land Conservation Department

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YAHARA RIVER WATERSHED ADAPTIVE MANAGEMENT ROCK COUNTY – 2017 ANNUAL REPORT

- Overview:
 - Implementation of 13.5 acres of harvestable buffers prevented **565.7 pounds of phosphorus from entering the Yahara River at a cost of \$12.96 per pound of phosphorus reduced.**

- Best Management Practices Implemented:
 - 2 Harvestable buffers totaling 13.5 acres were planted to a perennial forage mix consisting of 55% introduced grasses and 45% legumes. The buffers are located along the Yahara River near the Rock River and Yahara River confluence. Modeling (Snap-Plus) has estimated 565.7 pounds of phosphorus was prevented from entering the river at a cost of \$12.96 per pound of phosphorus reduced.

- Planning and Design Activities:
 - 321 feet of streambank restoration is designed and planned to be completed on Badfish Creek in 2018. The stream bank will be excavated to a 2:1 slope. Rock riprap will be placed on the slope to prevent future erosion. Engineering calculations estimate 29 pounds of phosphorus will be prevented from entering the creek annually.

 - 3 harvestable buffers totaling 14.8 acres were planned and designed to be planted in 2018 to perennial forage mixes consisting of introduced grasses and legumes. The legume amount will not exceed 50% of the mix. The buffers are located along the Yahara River. Modeling (Snap-Plus) has estimated 179.1 pounds of phosphorus will be prevented from entering the river.

 - 11 acres of annual cropland providing storm water runoff into Badfish Creek were planned and designed to be planted in 2018 to perennial forage mix consisting of introduced grasses and legumes. The legume amount will not exceed 50% of the mix. Modeling (Snap-Plus) has estimated 182.6 pounds of phosphorus will be prevented from entering the creek.

 - 10 landowners were informed about the Rock County - Yahara River Watershed Adaptive Management Program with 5 of the landowners committing to participate in 2019.