

**Section 319 Grant Program
Final Report**

ARN: 7-187

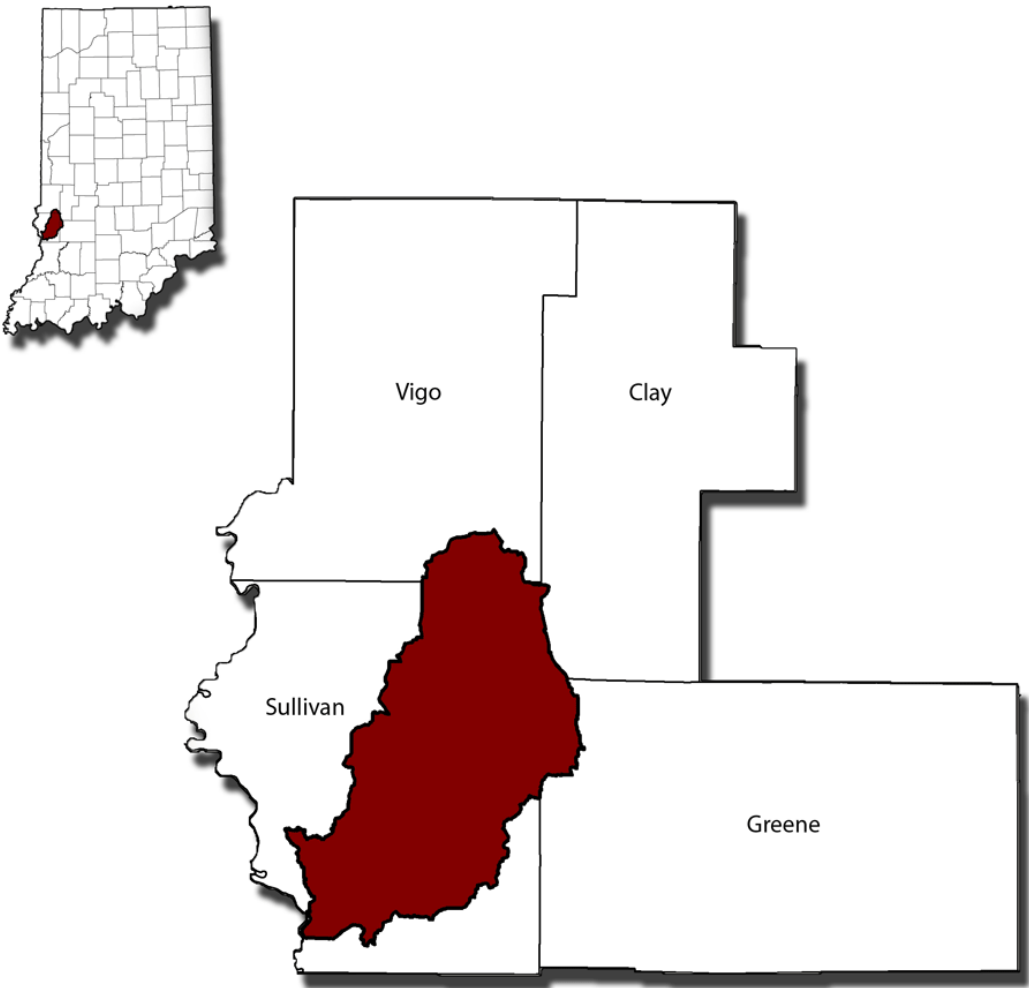
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Project Sponsor: Sullivan Co. SWCD

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Busseron Creek Watershed

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I. INTRODUCTION AND OVERVIEW OF PROJECT AND GOALS

In December 2007, The Sullivan County Soil & Water Conservation District entered into a contract with the Indiana Department of Environmental Management Office of Water Quality (ARN 7-187) to utilize Clean Water Act Section 319 funds to address water quality issues within the Busseron Creek Watershed (BCW). The project called for development of a Watershed Management Plan for the Busseron Creek Watershed (BCW) followed by implementation of a cost-share program to install best management practices in critical areas of the watershed.

The Busseron Creek Watershed is 252 square miles in size and is located in Clay, Greene, Sullivan, and Vigo Counties in West-Central Indiana. The Busseron Creek flows in a southwesterly direction to a confluence with the Wabash River. Approximately 83% of the watershed is located in Sullivan County. The BCW retains a rural, agrarian heritage with land use that is overwhelmingly agricultural (58%) or forested (30%). Surface coal mining operations have significantly altered the watershed landscape. Only 7% of the area is developed.

Over 16,000 acres of lands managed by the Indiana Department of Natural Resources provide habitat for a growing number of threatened and endangered species as well as large tracts of state-significant and rare wet-mesic floodplain forests. The watershed's close proximity to Goose Pond Fish & Wildlife Area has served to increase the incidence of rare and unusual migrating bird species.

In the period between 2006 and June 2008, a TMDL report was generated by Tetra Tech for the Indiana Department of Environmental Management (IDEM). As a result of re-assessments of the causes of impairments, the pollutants for which the TMDLs were developed differed from the pollutants appearing on the 2006 Section 303(d) list because of:

- Sampling performed by IDEM in 2006 generated new water quality data not available at the time the 2006 303(d) list was developed.
- Changes in Indiana's criteria for sulfates.
- No TMDLs were developed for Total Dissolved Solids (Indiana's revised water quality standards no longer contain a numeric criterion for total dissolved solids)
- Sampling performed by the U.S. Geological Survey in September 2007 documented more widespread biological impairments in the BCW than were previously known to exist. It is believed that the most likely cause of the widespread biological impairments is concentrations of metals (primarily iron and aluminum) that do not meet IDEM's numeric criteria.

Due to disputes over the methodology of the TMDL report and criteria used for impairment listings, this TMDL is still un-approved and remains in draft form. (Last revision June 5, 2008)

The first goal was to insure the survival of the project in a contentious atmosphere.

Other goals of this project included:

- The continuation of resource concern identification;
- Increased cooperation, coordination, and collaboration among all stakeholders;
- Development of a watershed management plan;
- Development of a water monitoring program;
- Improved public awareness of water quality and efforts to improve the watershed;
- Increasing and targeting conservation efforts;
- Implementation of Best Management Practices to improve surface water quality;

- Building and maintaining a solid organization to further the improvement of environmental and economic health of the Busseron Creek Watershed.

II. SUMMARY AND DOCUMENTATION OF TASK COMPLETION

TASK A: Watershed Management Plan, Steering Committee, and Implementation Plan

1. Watershed Management Plan

The Grantee shall produce a watershed management plan (WMP) for the Busseron Creek Watershed, Hydrologic Unit Code (HUC) 05120111160. The watershed plan shall include all elements listed in the State's Watershed Management Plan Checklist (updated 2003). The WMP must be designed to achieve the reduction in pollutant load called for in the nonpoint source Wabash River Nutrient and Pathogen TMDL. The Grantee shall provide one (1) hard copy and two (2) electronic copies compatible with State software of the watershed management plan to the State, and make copies available to local libraries, local officials and land use planners in the watershed, and everyone on the plan distribution list. A copy of the draft plan shall be submitted to the State for review and comment no less than every six (6) months during the project term. A copy of the complete plan shall be submitted to the State for review and approval at the end of the grant agreement's twenty-second month. The Watershed Management Plan Checklist shall be submitted with each draft plan indicating where in the plan each checklist element may be found.

Complete

The final Busseron Creek Watershed Management Plan, dated March 2010, was reviewed and approved by IDEM Watershed Planning Branch staff. A copy of the plan is on file with the State.

Successes

By focusing on resource concerns associated with specific land uses, users of the WMP are able to focus upon probable pollutant sources and appropriate best management practices associated with those sources. This also allows the group to better tailor Implementation Programs based upon predominant land uses for critical areas of the watershed.

2. Steering Committee

The Grantee shall develop a steering committee of local stakeholders to guide the development of the watershed management plan. This committee shall meet no less than eight (8) times during the grant agreement's first twenty-four (24) months and quarterly during the last twelve (12) months.

Complete

Pre-contract organizational meetings were held on September 20th, 2007 and November 15th 2007. Subsequent to the hiring of a Watershed Coordinator in February 2008, the first official Steering Committee meeting was held on March 5th, 2008. The committee met 6 times in 2008; 8 times in 2009; 6 times in 2010; and 3 times in 2011.

The group made decisions by consensus throughout the development of the Watershed Management Plan (2008-2009). Decisions regarding management of the overall project and the Cost-Share program continue to be made by consensus.

Participants included representatives of:

- Agriculture Industry
- Coal Industry
- County Council Members
- County Redevelopment Commission
- Electric Industry
- Indiana Department of Natural Resources – Division of Fish & Wildlife
- Indiana Department of Natural Resources – Division of Reclamation
- Indiana State University
- Landowners
- Local School Districts
- Natural Gas Industry
- Natural Resources Conservation Services
- Natural Resources Industry
- Non-landholding Citizens
- Sullivan County Park & Lake
- Sullivan County SWCD
- Sycamore Trails Resource and Development Council
- United States Bureau of Land Management –Office of Surface Mining
- United States Geological Survey

Successes

To accommodate concerns voiced by several employees of government entities who could not sit on a “Steering Committee”, the name was changed to “Technical and Advisory Committee”, allowing those participants to provide technical advice as well as interpretations of current programs and/or regulations yet abstain from procedural decisions.

A broad-based membership and the Committee’s flexible nature have allowed participants to focus on specific areas of interest or expertise. (i.e. Fisheries, Agriculture, Forestry, Recreation, Coal Mining, etc.)

3. Implementation Plan

The Grantee shall submit, with the complete plan, an Implementation Plan describing in detail all activities that will be implemented during the implementation phase of this project. The Implementation Plan shall include information about cost-share projects, education activities and other activities that will be implemented with Section 319 funds during this project.

Complete

Implementation strategies were included as part of the WMP. Best Management Practices were organized by land use and ranked based upon positive/negative effects on various water quality parameters.

A Cost-Share Plan was reviewed and approved by IDEM Watershed Planning Branch staff. A copy of the plan is on file with the State.

TASK B: Monitoring Program

The Grantee shall conduct a monitoring program to investigate water quality concerns in the watershed. All historic data less than five (5) years of age shall be collected and analyzed for trends before the end of the grant agreement's third month. The analysis of historic data shall be considered when selecting twenty (20) new sampling sites for the purposes of this project. The Grantee shall sample no less than quarterly, starting during the grant agreement's second quarter, at a minimum of twenty (20) sites. Sampled parameters shall include E. coli, total dissolved oxygen, nitrogen, phosphorus, pH, temperature, flow, turbidity and total suspended solids.

The Grantee shall develop a Quality Assurance Project Plan (QAPP) for the monitoring activities and submit it to the State for approval at least one (1) month prior to initiating monitoring activities. The Grantee shall conduct all monitoring activities in accordance with the approved QAPP.

Complete

Historic data was collected and analyzed, including:

- I-DNR Division of Reclamation Abandoned Mine Lands Sampling Sites
- NPDES Permit Violations
- IDEM 2000 Source Identification Study
- IDEM TMDL Report

This data, combined with initial windshield tours of the watershed, was used to select 20 new sampling sites. After notification was received of a watershed re-alignment that would incorporate the Rogers Ditch watershed (050201111511) into the Busseron Creek Watershed, two additional sampling points were added to the monitoring program.

The final Quality Assurance Project Plan for the Busseron Creek Watershed, dated May 26th, 2008, was reviewed and approved by IDEM Watershed Planning Branch staff. A copy of the plan is on file with the State.

Monthly sampling was conducted from July 2008 – June 2009, and quarterly thereafter for turbidity, temperature, pH, dissolved oxygen, total dissolved solids, flow, E. coli, nitrogen, phosphorus, and total suspended solids. Because the Draft TMDL report indicated metals to be of major concern, dissolved and total aluminum, iron, copper, and manganese, along with hardness were sampled quarterly during the first year. To provide further information regarding potential impairments, macroinvertebrate and habitat assessments were also conducted at these sites.

Pollutant loading data was calculated based upon sampling results and was used to determine critical areas of the watershed and suggested load reductions as noted in the Watershed Management Plan.

Successes

To state that the proposed sampling for metals caused concern would be a significant understatement. Representatives of the coal mining industry had issues with the methodology used to estimate metal loading for the TMDL as well as the lack of Aluminum loading criteria in the Indiana Code. Industry representatives felt the watershed group was targeting coal mining.

After meeting with representatives of the industry, subsequent meetings were held with certified labs and former USGS employees to strengthen sampling protocol. A concerted effort was also made to enlist stakeholders from agricultural, mining, regulatory agencies, and local government during sampling events.

Resulting data appeared to indicate a strong correlation between metals and abandoned mine land sites (acid mine drainage) as well as a potential correlation between high Aluminum loads and septic influence. No substantial correlations were found to exist between current mining practices and metal loads.

Data collected by the watershed group has subsequently been used by an active mining interest in demonstrating the value of a proposed mitigation of an acid mine drainage seep within the watershed. The company is also working with the group to implement best management practices on fragile reclaimed minelands; to locate potential mitigation sites in areas that will complement existing conservation work; and in the support of outreach and education efforts.

By taking the advice of a variety of public and private organizations; in the development of a strong monitoring protocol; through transparency of monitoring and data analysis; and through active engagement of detractors, the watershed group transformed an industry set against their work into an ally to implement best management practices throughout the watershed.

Failures

Because the original TMDL sites were not included in the sampling regime, and because those TMDL sampling events did not include E. coli, nitrogen, phosphorus, and total dissolved solids, holes in data exist –especially in the Buttermilk Creek and Mud Creek areas.

Lessons Learned

To lessen the severity of “holes” in monitoring data, TMDL sample points are now included in the current sampling regime (ARN A305-1-2). This expanded sampling is expected to provide further insight into TMDL sampling, including flow and resulting load calculations.

It is hoped that any new work, including regional expansion, would include more habitat analysis and up-front macroinvertebrate assessments before selecting sampling sites and parameters. Furthermore, it is hoped that leading parameters would be utilized – for example use of TDS, pH, and Turbidity results to indicate a need for sulfates / metal testing and potential AMD sites.

TASK C: Outreach and Education

The Grantee shall produce an outreach program to educate the public about the project and encourage behavior change and better environmental decisions. This program shall include:

- *No less than six (6) field days or workshops designed to provide a better understanding of the Busseron Creek watershed and encourage installation of water quality improvement projects and best management practices (BMPs).*
- *The preparation of one (1) cutting plan for a local woodland owner and one (1) field day to observe the harvest outlined in the plan.*
- *One (1) workshop for educators focused on non- point source pollution and water quality.*
- *The distribution of at least twelve (12) newsletters detailing project accomplishments and future plans.*
- *The distribution of educational material about watershed management to schools, civic groups, and other organizations.*
- *Information booths about the project at a minimum of four (4) local events.*
- *Submit project promotional materials to local media no less than three (3) times.*

Complete

The WCIWA was involved in over 20 workshops and presentations, including a Moonlight Forestry Course with a cutting plan and a pair of educator workshops that included a water quality focus. Information booths were erected at 7 events. Twelve newsletters were distributed in an electronic format. Schools were provided with copies of the electronic newsletters. Schools were also provided water quality lesson plans through a “Rain Barrel Art” program in 2010-2011. Over 25 print and radio items documented and promoted the work of the Watershed Alliance throughout this project.

See Appendix A1- Supporting Documentation for additional information.

Successes

Wetlands Workshop

The February 2009 Wetlands Workshop was a resounding success. The subject was selected based upon stakeholder’s desire to understand wetland regulations, and the format was designed as a panel with representatives of regulating agencies and wetland specialists. Because of the potentially contentious nature of the subject matter, the Indiana Farm Bureau was asked to provide a facilitator.

Prior work with Peabody Energy to strengthen monitoring protocols opened the door to partnerships elsewhere. Peabody provided direct contact information to the US Army Corps of Engineers. Once the Corps was on board, all other panel members followed and included representatives from the Corps of Engineers, IDNR Division of Water, IDEM Office of Water Quality, IUPUI Center for Earth & Environmental Sciences, and Stantec Engineering. The blend of panelists provided intellectual resources from the technical, regulatory, and research fields – and the blend provided a means to translate information into a commonly understood format.

Press releases were distributed on a regional basis and local radio stations were solicited to provide public service announcements relating to the event. Regional SWCD

partnerships and their strengths complimented the promotional efforts – resulting in a turnout of over 80 people... on a cold night in February. Responses from audience members indicated a better understanding of wetland and waterway regulations.

Discussions are currently underway (November 2011) about repeating the event.

Continued Partnerships for Stronger Workshops and Field Days

A concerted effort has been made by the Watershed Alliance and its partner organizations to play to their individual strengths. It is no longer de rigueur for a single partner to develop and promote a workshop or field day. Now it is much more common to elicit help from traditional – and non-traditional partners. These collaborative efforts not only bring new partners to the table, they also provide planning sessions that seek out something to differentiate an event from others.

Two specific examples:

- A Multi-district Septic Workshop for Realtors, Inspectors, and Loan Officers (ARN A305-1-2). Partners included: the Watershed Alliance; Sullivan, Greene, Clay, Vigo SWCDs; Indiana Onsite Wastewater Professionals Association; the Indiana Department of Health. Participants left with a much better understanding of private septic inspections and failures. The IOWPA also arranged to have a septic field laid out in full scale, including a pair of septic tanks (to show options) and distribution box. This workshop *will* be repeated in the winter of 2012.
- The Watershed Alliance and several SWCDs lobbied their partner conservation districts to apply for a Clean Water Indiana grant to promote use of cover crops and gypsum on reclaimed (coal mined) farm lands. Partners from the coal mining industry were brought on board to promote and help fund cover crops and gypsum usage. The multi-agency Prime Farmlands Team entered the project to help develop field days. In fall 2011, an 8-County Coalition of SWCDs was awarded a \$60,000 grant by the Indiana State Soil Board. The relative novelty of such a partnership and the strength of the proposed demonstrations generated A LOT of interest at other state-level government offices.

Lessons Learned

Rain Barrel Art

Grants from ArtsIlliana and the Sullivan County Community Foundation provided funding for a Rain Barrel Art program.

Each school in the watershed – and Sullivan County – was provided with a primed rain barrel and painting supplies. The school was tasked with arranging their own program to paint the rain barrels for a raffle to be held in Spring 2010.

The schools were also provided binders and electronic copies of lesson plans relating to water quality – that also aligned with Indiana standards. The standards to which each lesson plan aligned was noted.

The rain barrels were outstanding. The students were very proud of their work – and justifiably so. Other districts and groups working with children in the area, such as the Knox County YMCA duplicated the project. Subsequent to the Rain Barrel Art displays, the Sullivan SWCD saw a spike in rain barrel sales. In these aspects, the project was a resounding success.

In other areas – not so much.

Volunteer and SWCD staff workload was taxed – with a resulting reluctance to repeat the project. As of this writing (November 2011) it appears a year’s hiatus will be taken.

One art teacher, who served two schools, felt the project was simply an added burden – and the resulting rain barrel art reflected that perspective. Other teachers in the schools indicated their willingness to take on future projects. Assistance should be provided to the schools to develop the rain barrel project in such a way as to insure leaders are selected that feel the program has merit in their classrooms.

The concept was to continue funding the program through sales of raffle tickets. As things go, sometimes concept is better than execution. The ticket sales did not generate much income and certainly not enough to duplicate the program. In the end, two barrels that were auctioned on EBay generated more income than the raffle. If the project is repeated, barrels will be placed on display, but auctioned on EBay.

Funding for Educators

Several meetings and discussions with educators and school administrators revealed a common roadblock to student field trips and educator workshop participation: Funding.

Cash-strapped school systems simply do not have funds to pay for substitute teachers to allow instructors to attend workshops held during regular school sessions. Nor can the school systems pay for fuel to transport students to field days – no matter how close the event. In fact, the Sullivan County SWCD now sponsors the Union High School participation in the Indiana Envirothon by paying for fuel costs.

In order to get more schoolchildren “Learning Outside” a stable funding mechanism must be devised.

Follow-Up Meetings

The Watershed Alliance needs to improve the timeliness and participation in post-event dissection. Post-event meetings are a useful means of improving workshop participation and effectiveness.

TASK D: Development and Promotion of Cost-Share Program

The Grantee shall develop and promote a cost-share program to install BMPs in critical areas in the watershed. Details of the cost-share program shall be submitted to the State prior to program implementation in accordance with the Section 319 Cost-share Program Development Guidelines.

Complete

A Cost-Share Plan was reviewed and approved by IDEM Watershed Planning Branch staff. A copy of the plan is on file with the State. Promotion for the Cost-share program commenced in earnest approximately 4 months before plan approval.

Successes

Promotion at Scheduled Ag Industry Events

Watershed Alliance staff and SWCD Board Members worked with implement dealers, seed dealers, and Co-ops to provide speaking time at their regularly scheduled clinics and field days. This partnership gave access to hundreds of growers who may not have been reached in a more traditional cost-share promotion event. In addition, cost-share promotion began well before Cost-Share Plan/Program approval. Because of these actions, Section 319 Cost-Share funds were allocated within 6 months of Cost-share program approval. (Note: an extension was requested and granted for cost-share implementation to accommodate design and construction of various BMPs) See *Appendix B1: Promotional Events*

“Not Just a 319 Administrator”

Success can also be attributed by a decision by Watershed Alliance staff and volunteers *not* to just be a Section 319 grant administrator. They sought to blend available programs to find the best source of assistance on a project by project basis. In the end, a need was filled to help growers and landowners navigate the various programs to find the best fit for their operation – and even navigation of the application process. The result was increased traffic in the Sullivan USDA Service Center / Conservation Office – and hopefully more BMPs on the ground.

Taking Conservation Where You Can Find It

A surprising key to success was “non-promotion” of BMPs. In other words, not trying to push a grower into a particular practice in which he/she had no interest. Rather, a concerted effort was made to improve practices that worked with his/her operation. In one specific instance, staff recognized that a grower was *not* going to adopt no-till – It just did not make sound business sense because of his age, health, and the imminent turn-over of his farming operation. Instead, staff told the grower that “It’s just going to be a waste of both of our times if I harp on no-till to you. Let’s talk about cover crops and things around your streams.” That grower and his sons wound up sending at least 4 landowners into the Conservation Office to discuss programs and technical assistance.

Lessons Learned

The importance of a grower or landowner to fully understand a BMP or conservation program cannot be understated.

In one particular instance a potential stream restoration for a 401/404 mitigation was coordinated. Although stream restoration was explained to the landowner, it obviously was not explained thoroughly enough. To both the landowner and a former tenant, “stream restoration” meant dredging. Both the former tenant and the landowner were extremely displeased about the proposed work. Both felt they had been misled. Luckily, no agreements had been made to proceed with work on the property. None-the-less it will take a concerted effort to repair the damage that has been done to goodwill towards the Watershed Alliance and stem the negative effects of this misunderstanding.

Sadly, this particular landowner was also displeased with his prior enrollment into a different conservation program. It is apparent that he did not fully understand the contractual obligations of that particular program. Upon further examination, similar complaints have been voiced by other landowners and growers. This does not appear to be endemic to this area. It appears that overworked government staff, burdened with ever-increasing paperwork, are being pushed to meet enrollment deadlines and a) are dealing with program guidelines that change at least annually; and/or b) simply do not have the time to review the contractual nuances with landowners (it should be remembered that gov't staff are conservationists and technicians - not lawyers). This may be a role in which District and Watershed Alliance staff may assist:

- Making sure cooperators have early access to sample contracts for their review;
- Enlisting help of others currently enrolled in the program to explain the process;
- Explaining that the cooperators should treat enrollment into the program like any other contract into which they would enter.

TASK E: Cost-Share Program

The Grantee was charged with implementing the cost-share program described in Task D. BMPs were to conform to the Natural Resources Conservation Service Field Office Technical Guide (NRCS FOTG) or other applicable, approved specifications. BMPs were to be implemented in critical areas as described in the Busseron Creek Watershed Management Plan.

Complete

As of this writing (November 2011), the Watershed Alliance has been involved in development of at least 85 different conservation practices for at least 37 different landowners or growers. Section 319 funds and match have been fully drawn down. The project is now into the second Section 319 grant (ARN A305-1-2) for BMP implementation. Specific projects implemented with Section 319 grant funds were:

- Bell, Mike: Precision Ag Equipment
- Horton, Curtis: Precision Ag Equipment
- Kirschner, Charlie: Precision Ag Equipment
- Lovelady, Roger: Precision Ag Equipment
- Mann, Jeff: Precision Ag Equipment
- McCammon, Steve: Cover Crop Establishment (Fall Establish for 2012 crop year)
- Ready, Gary: Grassed Waterway, WASCoBs
- Templeton, Chuck: Terraces

Load reductions associated with these BMPs may be found in Section III B (BMP Effectiveness)

Successes

Holistic Conservation Planning

In addition to its promotional strategy, Watershed Alliance staff worked with landowners to develop holistic conservation plans. By focusing on practices rather than programs, landowners and farmers were better able to see and attain larger goals, such as enrollment in the DNR Classified Forest and Wildlands Program or phased strategies to no-till/strip-till adoption. In addition, this coordinated effort made it easier for different agencies to work with each other to find the best programmatic fit for a client.

It is a core goal of the Watershed Alliance to build synergistic conservation programs that best leverage funding sources. For example, approximately 1 mile of 2-stage ditch is scheduled for installation in Spring 2012 as part of a 401-404 mitigation project. The Watershed Alliance is working with FSA and landowners to enroll property into a CRP Filter Strip by adding footage adjacent to the 2-stage ditch “filter strip” to meet or exceed NRCS width standard. The Watershed Alliance has worked with one farmer to seed crops with Section 319 funds in the fields adjacent to the ditch and is working with him elsewhere through the OnFarm Network to improve the efficiency of his nutrient program. In addition, the farmer is also working to adopt precision agriculture components to reduce nutrient & pesticide inputs.

Enlisting Help to Target BMP Implementation

Targeting and concentrating BMP implementation is an effective method to see “real” water quality improvements. One exceptional sample of that methodology has been set into place with the Gill Township Levee Association. This board is responsible for drainage (and levee protection) for most of the Rogers Ditch Watershed. Their help was initially sought in locating a potential 2-stage ditch site as a 401/404 mitigation project for INDOT. The Board provided ATVs and an employee for a winter assessment by representatives of the

Watershed Alliance, NRCS, and The Nature Conservancy for all 9 miles of Rogers Ditch. They have helped to target potential BMP locations in upland areas as well. The Board has provided assistance with landowner involvement in various conservation programs. For their efforts, they have been awarded a State level Friend of Conservation Award by the Indiana Association of Soil & Water Conservation Districts.

Tiered Cost Share

Early on, the Watershed Alliance recognized that cost share for Precision Agriculture would be a high-demand, high-dollar item. They were able to utilize that demand to leverage implementation of additional BMPs through a tiered cost-share structure. Growers were able to use a “cafeteria” sheet to determine their current level of cost-share, then decide if it would be economically feasible to adopt additional BMPs to reach a higher level. The top tier of cost share could only be attained by either providing filter strips for roadside ditches or proof of septic maintenance. Seventy-five percent of those applying for precision ag cost-share elected to provide proof of septic maintenance.

When it became obvious that there was a high demand for replacement of structures that had outlived their useful life and new structures for growers enrolled in the Conservation Security Program, the Watershed Alliance elected to use a similar tiered program for cost-share for conservation structures such as WASCoBs. Program applications made before the adoption of this tiered cost-share (and funded through ARN 7-187) were grandfathered in at the straight 75% rate. There has not been evidence of push back toward this tiered cost-share. *See Appendix I.A.2 Tiered Cost-Share*

Lessons Learned

Armed with a grant from Peabody Energy, the Watershed Alliance began development of a project to expand the Union Jr/Sr High School outdoor classroom facility through installation of a bioswale. It was not until elevations had been shot and an initial site visit by the firm responsible for design that Watershed Alliance staff realized the project lay outside of a critical area. The project was substantially slowed for over six months as additional funding was sought. In September / October 2011, additional grants from the USFWS and Peabody Energy secured the project. It is expected to be completed by Fall 2012.

TASK F

The Grantee was charged with preparation and submission of written reports to the State with each invoice, on at least a quarterly basis along with a final written summary project report to the State by the Close of the project.

Complete

Quarterly Project Reports were completed and are on file at the State.

III. PROJECT RESULTS

A. MONITORING

Throughout the monitoring program, pollutant loads seemed to follow an annual cycle:

- December – January – February: Relatively low levels of E. Coli, Sediment. Low Flow. Inundation of floodplains.
- March – April – May – Mid-June: Excessive volumes of water apparently causing severe bank erosion and scouring which contributes to excessive sediment loads and turbidity. Spikes in E coli loads both downstream from urban areas and in rural areas.
- Mid-June – July – August: Elevated Temperatures. Low Dissolved Oxygen. Elevated E. coli loads. Very low base flow by August (50-75% of sampling sites became disconnected pools). Elevated turbidity levels that may be associated with algal growth.
- September – October – November: Low flow conditions. Lowering E. coli levels. Moderate dissolved oxygen levels. Moderate turbidity and sediment loads.

Sampling in 2011 (through ARN A305-1-2) of TMDL sites in addition to the 22 sites associated with this grant seem to indicate three major NPS contributors:

- Abandoned Mine Lands / Acid Mine Drainage near Coalmont (TMDL site 1) and Friar Tuck (TMDL sites 11 and 13).
 - Sites downstream from Coalmont / TMDL 1 presented increased TDS, generally low pH, and a visual milkiness often associated with elevated Aluminum loads.
 - Sites downstream from Friar Tuck / TMDL 11-13 also presented increased TDS. Although pH was near neutral, there was much evidence of oxidized precipitates.
- Combined Sewer Overflows (Site 8) and private septic throughout the watershed.
 - Results from E. coli tests of sites downstream from Sullivan were consistently 5-10 times the Indiana State Code levels for swimming.
 - Across the watershed, sites exceeded standards approximately 30% of the time.
 - In a May 2011 sampling event over two day and subsequent to a rain event, 75% of all samples exceeded test limits (2412 MPN)
- Areas of high agricultural activities (primarily Rogers Ditch, Tanyard Branch, Middle Fork Creek, Buttermilk Creek, Kettle Creek) with typically narrow (if existing) riparian buffers.
 - High levels of turbidity, total suspended solids.
 - Heavily sedimented streams. Channelized streams with raw, eroding banks.
 - Elevated water temperatures associated with riparian tree removal.
 - Modeling indicates high loads of nitrogen and phosphorus.

As noted in TASK B: Monitoring Program, omission of the original TMDL sample sites as part of the monitoring regime resulted in holes in project data. With the current grant (ARN A305-1-2) the Watershed Alliance is striving to close these data gaps. The data that has been collected is sound. In fact, a potential 401-404 mitigation site to reclaim an AML site in the watershed is using the most current data to support the need for this type of reclamation project.

In addition, the Watershed Alliance is working with representatives from the USGS and others to “build a better monitoring program” for the concentrated work in the Rogers Ditch Watershed. It is hoped the results from these efforts will better support BMP load reductions.

B. BMP EFFECTIVENESS

Based upon STEP-L modeling and producer-supplied information, it is estimated that BMPs installed through this project (ARN 7-187) project have resulted in annual reductions of:

- Nitrogen 3,219 pounds

- Phosphorus 1,095 pounds
- Biological Oxygen Demand (BOD) 5,145 pounds
- Sediment 829 tons
- Pesticides 486 pounds of active ingredients

Projects completed in the watershed, but funded outside of ARN 7-187 have resulted in annual reductions of:

- Nitrogen 14,066 pounds
- Phosphorus 3,447 pounds
- Biological Oxygen Demand (BOD) 16,021 pounds
- Sediment 5,095 tons

Outside of the watershed, the following annual reductions were estimated. (Section 319 funds were not used for these projects)

- Nitrogen 8,650 pounds
- Phosphorus 2,696 pounds
- Biological Oxygen Demand (BOD) 12, 540 pounds
- Sediment 1,960 tons
- Pesticides 668 pounds of active ingredients

These figures are for installed BMPs only. *See Appendix B3:*

Cost-Share Projects for more information.

C. OUTREACH AND EDUCATION EFFECTIVENESS

Because the bulk of outreach and education efforts was not in the form of structured events with pre- and post-event surveys, measurement of success for these efforts is not easily quantified. However, several significant milestones have been achieved. First and foremost is recognition of the group's education efforts as evidenced by the requests for assistance with conservation planning and the increase of foot traffic in the Sullivan County USDA Service Center specific to work in the Busseron Creek Watershed. Secondly, the WCIWA website, newsletter, and Twitter feed have a following that extends geographically from Florida to British Columbia. Perhaps more importantly, Watershed Alliance staff have been requested to give presentations on effective website design and other "non-traditional" means of outreach.

As effective as the website may have become, part of its function is to serve as a repository of information. One of its more effective uses is the distribution of flyers, workbooks, and other learning tools. The most commonly downloaded items tend to be USDA program flyers – a "cheat sheet" of practices and their cost-share amounts. Those documents were actually posted at the request of attendees of a Indiana District Employees Association presentation.

Another apparently, yet difficult to quantify measure of success is the number of speaking engagement requests, especially for events outside of the watershed. Groups include: Master Naturalists, Master Gardeners, Ag Industry Retailers, Indiana District Employees Association, Indiana Association of Soil & Water Conservation Districts (2012) and Watershed Networking Meetings. For her education efforts through this type of speaking engagement, Lisa Holscher, Watershed Coordinator received the 2010 Vigo County Soil & Water Conservation District Conservation Educator of the Year Award.

D. PUBLIC INVOLVEMENT AND PARTNERSHIPS

The effectiveness of public ownership of the project can be judged by stakeholder participation in the watershed management planning process and their continued involvement in cost-share implementation. These stakeholders have also taken a strong lead in the development of workshops and field days. One such example is the resounding success of the 2009 Wetlands Workshop: designed by stakeholders to fulfill *their* need for information, the event was extremely well attended. Conversely, workshops that were dictated by grant requirements were good – but attendance was 75% less than that of the Wetlands Workshop. With that experience in mind, the group hopes to sponsor at least one stakeholder-driven workshop annually.

In addition to their involvement in education, stakeholders have been key partners in promotion of the cost-share program. By building a "sales staff" of landowners, ag industry personnel, agronomists, and contractors, the Watershed Alliance has been able to quickly and effectively allocated Section 319 Cost-share funds and participation in other Conservation Programs. The effectiveness of "Selling Conservation" and running the program "Like a Business" has not been lost on other groups: presentations on those subjects have been made at Indiana District Employees Association conferences, Watershed Networking meetings, ISDA Regional Meetings for SWCD staff and for the upcoming IASWCD Annual Conference (Jan 2012)

As noted in TASK E, local "sales staff" in the form of the Gill Township Levee Association has been exceptional in enlisting local landowners to participate in various BMP implementation strategies,

including at least one 401-404 mitigation project. Key to the Levee Association's involvement was the identification of their trigger point: an expected decrease in maintenance cost as a result of 2-stage ditch installations. This same strategy of needs identification has been the foundation of numerous partnerships and its effectiveness may be measured in the number and diversity of companies and agencies partnering in ongoing projects: Peabody Energy, INDOT / Bernardin Lochmueller & Associates, Hoosier Energy; Solar Sources; the Prime Farmlands Team; the Indiana Association of Soil & Water Conservation Districts; Regional SWCDs including Vigo, Clay, Greene, Sullivan, Knox, Daviess, Pike, Gibson, Dubois, and Warrick Counties; Indiana Water Monitoring Council; Indiana Onsite Wastewater Professionals Association; Indiana DNR – Divisions of Reclamation, Fish & Wildlife, Fisheries; Sycamore Trails RC&D; Sullivan Department of Transportation; Vincennes University; Indiana State University; Indiana USGS; Indiana NRCS; the US Fish and Wildlife Service; and many more. It appears the Watershed Alliance has evolved into a source for these partners when seeking sites, agencies, or individuals for specific projects.

E. WMP IMPLEMENTATION

The Watershed Management Plan, although bulky, is designed to be a useable and dynamic document. Goals definitions were defined with timelines which were later transferred to Microsoft Project! to track progress. This tracking system has been used as an Annual Plan of Work by the Watershed Alliance: Defining projects, goals, and timelines for task completion. (*See Appendix A2 WMP Implementation*) This also allows the group to track the effectiveness of the WMP implementation; provide documentation for changes in tasks, goals, and timelines; and help in the duplication of efforts in future WMP development.

F. REALIZATION OF EXPECTED GRANT OUTCOMES

Restating the project goals outlined in Section I:

- *The first goal was to insure the survival of the project in a contentious atmosphere.*
As outlined in the Successes of TASK B, the Watershed Alliance able to use concerns over sampling of metals to develop a stronger monitoring program – and eventually build partnerships with Coal Industry concerns. The group has been able to parlay this partnership into mutually-beneficial mitigation projects that will have a great impact in surface water quality of Busseron Creek. These efforts have allayed concerns and effectively neutralized a controversy regarding the project.

- *Other goals of this project included:*
 - *The continuation of resource concern identification;*
The dynamic structure of the Technical and Advisory Committee and ongoing work in the Busseron and elsewhere have thus far insured a consistent review of resource concerns. Most recently, personal care products and pharmaceuticals have gained more attention as a resource concern. This review process is expected to continue.

 - *Increased cooperation, coordination, and collaboration among all stakeholders;*
Networking through past, current, and future projects has built a strong foundation of collaboration amongst stakeholders, government agencies, and private industry. There has been a rise in cooperative projects such as workshops that involve several government agencies, stakeholders and private industry. Based upon the success of those projects, increased cooperation, coordination, and collaboration is expected.

 - *Development of a watershed management plan;*
Not only is the WMP complete, it is being used as a template for future watershed management planning work. It was used effectively to develop an annual plan of work and will continue to be used in this manner.

 - *Development of a water monitoring program;*
The monitoring program was developed and is continually being assessed to determine methods of improvement, in particular monitoring to document BMP effectiveness.

 - *Improved public awareness of water quality and efforts to improve the watershed;*
By explaining the connection between conservation programs(including EQIP, WHIP, CRP, and Section 319) and water quality there is a much better understanding of concerns and impacts of management systems on aquatic health. By demonstrating the effects *local* action may have on *local* eutrophication, stakeholders have developed a stronger connection to their impacts on regions downstream – including the Gulf of Mexico.

 - *Increasing and targeting conservation efforts;*
By working with a mixture of agencies to implement resource management *systems* rather than single BMPs, the Watershed Alliance and its partners have effectively established a true network of conservation options – and increased the amount of BMPs planned/placed on the ground. See Appendix B3 Cost Share Projects

 - *Implementation of Best Management Practices to improve surface water quality;*
See Appendix B3 Cost Share Projects

- *Building and maintaining a solid organization to further the improvement of environmental and economic health of the Busseron Creek Watershed.*
The foundation has been laid to create a sustainable Watershed Alliance. Much work remains to insure its durability in uncertain economic times. Work will continue on this goal – while still working to insure that efforts to improve the environmental health of the watershed will also improve the economic health of its stakeholders.

G. FUTURE PROJECTS

1. Additional Implementation of Section 319 Funds

Work has commenced on the continued implementation of the Busseron Creek WMP through ARN A305-1-2. Appendix B3 outlines projects completed or in their planning stages. Major projects associated with the program include:

- Installation of over 1 mile of 2-stage ditch (2012) as a 401-404 Mitigation Project near the headwaters of Rogers Ditch (This project does not entail 319 funds).
- Continuation of the Rogers Ditch Project through installation of an additional mile of 2-staged ditch on tracts just South of the INDOT mitigation project (above).
- Installation of an additional 1000lf of 2-stage ditch in cooperation with The Nature Conservancy. Although the site has not been finalized, it will likely be adjacent to State Road 58 to provide easy public access to those interested in the BMP. (Neither funds from ARN 7-187 nor A305-1-2 are expected to be utilized for this project)
- A Clean Water Indiana program to promote use of cover crops and gypsum on bond-released reclaimed mine lands. The Initiative partnership includes the Watershed Alliance, 8 County SWCDs in the coal belt region of Southwestern Indiana, the Prime Farmlands Team, Peabody Energy, and Solar Sources.
- Working with USGS employees to develop a monitoring project beneficial to the Watershed Alliance and others in the Region.
- Working with Peabody Energy as they seek a potential mitigation project at the TMDL sample site #1: Reclamation of an abandoned mine site with severe acid discharge. (Summer 2011 pH was less than 4.0. As noted in above in Section III A Monitoring, the site has apparent negative effects on the water quality of many downstream areas)

2. Expansion into Turtle Creek, Turman Creek, and Kelly Bayou

In the Fall of 2009, Watershed Alliance staff met with representatives of IDEM, the US FWS, I-DNR, NRCS, and the Sullivan Co. SWCD to develop future plans. Based on the location of Managed Lands including Goose Pond, Hillenbrand FWA, Greene-Sullivan State Forest, Minnehaha, Fairbanks Landing and (the then future) Wabashiki FWA – the group elected to pursue work in the Turtle Creek, Turman Creek, and Kelly Bayou watersheds. The long term goal is to provide connectivity of watershed-based efforts from the Goose Pond to Wabashiki. This decision nests well with the subsequently announced Healthy Rivers Indiana initiative.

The group has submitted a Section 319 grant application for the purposes of developing a WMP and launching an initial cost-share program - modeled on the successful Busseron Creek program. The group is currently working on portions of the WMP that can be completed through volunteer efforts – such as identification of initial resource concerns, desktop analysis of geographic information, and habitat assessments. Meanwhile the group will continue effort to secure financial or in-kind assistance for their work.

3. Mentorship

Watershed Alliance staff are currently providing mentorship to newly-forming 319 projects, such as the Richland-Plummer project in Greene County. Thus far the mentorship has included meetings with IDEM staff and Greene County SWCD representatives to help explain what project and contract expectations. The Watershed Alliance has already pledged to provide tools to assist with their work, including spreadsheets to track costs and match, WMP templates, brochures, etc.

As other groups apply for grants and develop watershed projects, the Watershed Alliance is prepared to offer similar assistance. The success of other groups can only help build long-term stability for the Watershed Alliance – and improve surface water quality throughout the region.

IV. APPENDIX

A. SUPPORTING DOCUMENTATION

1. Outreach & Education

a) *Workshops & Field Days*

WORKSHOPS / FIELD DAYS / PRESENTATIONS					
Event	Date	Location	Presenters/Speakers	Topic	Target Audience
3 rd Grade Ag Day	07 March 2008	Sullivan County 4-H Fairgrounds <i>Sullivan, Indiana</i>	Lisa Holscher <i>Watershed Coordinator</i>	Water Quality Station: Model demonstrating a watershed & effects of point and non-point source pollution on water quality.	300 3 rd Graders and Teachers
Nutrient, Pest & Soil Quality Strategies for Crop Management	13 August 2008	Sullivan County 4-H Fairgrounds <i>Sullivan, Indiana</i>	Clint Followell <i>SWCD Technician</i> Lisa Holscher <i>Watershed Coordinator</i> Fred Whitford <i>Purdue Extension</i> Sara Green <i>Purdue Extension</i> Bobbi Hunt-Kincaid <i>Kincaid Ag Services</i>	Buffers for Wildlife, Soil & Water Quality Intro to BMPs, Incentive Programs Pesticide Bulk Containment Operation Clean Sweep –Pesticide Disposal Soil Testing & Cover Crops	Approx. 25 Farmers
Vincennes University Environmental Sciences	24 September 2008	Vincennes University <i>Vincennes, Indiana</i>	Lisa Holscher <i>Watershed Coordinator</i>	The Watershed Approach to implementing conservation practices	College students enrolled in environmental sciences
Sullivan Co. 8 th Grade Raft Trip	7, 8, 9 October 2008	Wabash River from <i>Riverview, IN to Hutsonville, IL</i>	Various	Students receive education from adult supervisors in rafts, Conservation Officers, and Education Stop instructors on History, hydrology, water quality, environmental impacts, etc.	All 8 th grade students of Sullivan County

WORKSHOPS / FIELD DAYS / PRESENTATIONS, cont					
Event	Date	Location	Presenters/Speakers	Topic	Target Audience
CTIC Networking Roundtable	December 2008	NREC Office Ft. Benjamin Harrison <i>Indianapolis, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Website Design	Other watershed coordinators
Wetlands Workshop <i>Partners included: Clay, Greene, Sullivan, & Vigo SWCDs.</i>	10 February 2009	Sullivan County 4-H Fairgrounds	Panel Discussion: Mike Ricketts Rob Brown <i>US Army Corps of Engineers</i> Jason Randolph David Carr <i>IDEM – Office of Water Quality</i> George Bowman <i>IDNR – Division of Water</i> Bob Barr <i>IUPUI Center for Earth & Environ. Sciences</i> Eddy Adams <i>NRCS</i> Steve Hall <i>Stantec Consulting</i>	Moderated by Phil Hanebutt, Indiana Farm Bureau, the panel fielded questions ranging from removal of beaver dams to permitting required for construction in a floodway to Rapano vs. Corps of Engineers.	Anyone with questions about wetlands, their benefits, regulations, programs, etc. Approximately 80 attendees from as far away as Ft. Wayne.
3 rd Grade Ag Day	12 March 2009	Sullivan County 4-H Fairgrounds <i>Sullivan, Indiana</i>	Lisa Holscher <i>Watershed Coordinator</i>	Water Quality Station: Model demonstrating a watershed & effects of point and non-point source pollution on	300 3 rd Graders and Teachers

				water quality.	
WORKSHOPS / FIELD DAYS / PRESENTATIONS, cont					
Event	Date	Location	Presenters/Speakers	Topic	Target Audience
Sullivan Park & Lake LARE Grant Public Meeting	16 April 2009	Sullivan County Courthouse <i>Sullivan, Indiana</i>	Jason Stekel <i>Williams Creek Consulting</i> Doug Nusbaum <i>IDNR – LARE Program</i>	Draft Sediment Removal Plan & Nutrient & Sediment Load Reduction Plan <i>Included partnership with Busseron Creek Watershed to reduce sediment / nutrient loads</i>	Stakeholders of the Sullivan Lake / Morrison Creek Watershed and those who Utilize the Sullivan Park & Lake
Explore Their Earth, Celebrate the Day	22 April 2009	Hymera Elementary <i>Hymera, Indiana</i>	Lisa Holscher <i>Watershed Coordinator</i>	Earth Day Celebration, including basic information on the Clean Water Act	Elementary Students
Prime Farmlands Team Field Day	25 June 2009	Solar Sources Mine <i>Daviess Co., Indiana</i>	Lisa Holscher <i>Watershed Coordinator</i>	Member of Panel: Farming on Reclaimed Minelands	Those who farm, manage, or develop conservation practices for reclaimed lands.
Mitigation Clearinghouse Workshop	07 July 2009	Sullivan City Park <i>Sullivan, Indiana</i>	Lisa Holscher <i>Watershed Coordinator</i>	Launch of Mitigation Clearinghouse to match willing landowners with those in need of 401/404 Mitigation	Landowners interested in stream or wetland restoration.
Irrigation System Field Day <i>Partners included Knox, Lawrence (IL), Gibson, Greene, & Sullivan SWCDs</i>	06 August 2009	JMR Farms <i>Lawrence County, IL</i>	Lyndon Kelley <i>Purdue Extension</i> Tom Held <i>NRCS (Knox Co. IN)</i>	Irrigation systems management to reduce run-off, protect water supplies, improve water efficiencies	Commodity and Specialty Crop growers with center pivot irrigation systems.
Sullivan Garden Club	17 August 2009	First United Methodist Church <i>Sullivan, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Rain Garden Planning & Design	Home Gardeners

WORKSHOPS / FIELD DAYS / PRESENTATIONS, cont					
Event	Date	Location	Presenters/Speakers	Topic	Target Audience
Moonlight Forestry Workshop, Session 1	15 September 2009	IDNR – Division of Reclamation <i>Jasonville, IN</i>	Don Carlson Ron Rathron <i>Purdue Forestry</i>	Intro to Forestry Management & Timber Stand Improvement	Woodlot Owners, Timber Industry Professionals
Moonlight Forestry Workshop, Session 2	22 September 2009	IDNR – Division of Reclamation <i>Jasonville, IN</i>	Jodie Ellis <i>Purdue Entomology</i> Spencer Goehl <i>Eco Logic Co.</i>	Impacts and control of Invasive Plant and Insect species in Indiana Hardwoods	Woodlot Owners, Timber Industry Professionals
Moonlight Forestry Workshop, Session 3	06 October 2009	IDNR – Division of Reclamation <i>Jasonville, IN</i>	Jeremiah Lemmons <i>IDNR District Forester</i> Stu Haney <i>Consulting Forester</i>	Introduction to Timber Marketing and Sales	Woodlot Owners, Timber Industry Professionals
Sullivan Co. 8 th Grade Raft Trip	6, 7, 8 October 2008	Wabash River from <i>Riverview, IN to Hutsonville, IL</i>	Various	Students receive education from adult supervisors in rafts, Conservation Officers, and Education Stop instructors on History, hydrology, water quality, environmental impacts, etc.	All 8 th grade students of Sullivan County
Moonlight Forestry Field Day	10 October 2009	McElroy Tree Farm <i>Greene County, IN</i>	Jeremiah Lemmons <i>IDNR District Forester</i>	Guided tour of planned timber stand improvement and harvest. Included cutting plan.	Woodlot Owners, Timber Industry Professionals
Friar Tuck AML Site Tour <i>Partner with IDNR – Division of Reclamation</i>	19 October 2009	Friar Tuck Abandoned Mine Land Site <i>Dugger, IN</i>	Mark Stacy <i>IDNR – Division of Reclamation</i>	Review potential study site for Indiana State University Student(s)	Graduate Students of Indiana State University

WORKSHOPS / FIELD DAYS / PRESENTATIONS, cont					
Event	Date	Location	Presenters/Speakers	Topic	Target Audience
Educators Workshop Southwest School Corporation	12 November 2009	Southwest Sullivan School Corporation Offices <i>Sullivan, IN</i>	Lisa Holscher <i>Watershed Coordinator</i> Linda Richardson <i>Hoosier Energy Education Coordinator</i>	Available Learning Kits, Materials, Resources, and other aids for local instructors; Water quality concerns / lesson plans	Primary and Secondary Educators, Homeschoolers, Youth Group Leaders, School Administrators
Educators Workshop Northeast School Corporation	16 November 2009	Northeast Sullivan School Corporation Offices <i>Hymera, IN</i>	Lisa Holscher <i>Watershed Coordinator</i> Linda Richardson <i>Hoosier Energy Education Coordinator</i>	Available Learning Kits, Materials, Resources, and other aids for local instructors, Water quality concerns / lesson plans	Primary and Secondary Educators, Homeschoolers, Youth Group Leaders, School Administrators
Wabash Valley Audubon Society	20 January 2010	Vigo County Library <i>Terre Haute, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Section 319 Grant Program / General Busseron Creek Watershed Project Overview, including impacts on wildlife	Those interested in conservation of natural resources
Irrigation Workshop <i>Held in partnership with Knox, Sullivan, Greene, and Lawrence (IL) SWCDs and Four Rivers RC&D</i>	04 February 2010	Knox Co. Fairgrounds <i>Bicknell, IN</i>	Lyndon Kelley <i>Purdue Extension</i> Tom Held <i>NRCS (Knox Co. IN)</i>	Irrigation systems management to reduce run-off, protect water supplies, improve water efficiencies	Commodity and Specialty Crop growers with center pivot irrigation systems.
3 rd Grade Ag Day	12 March 2010	Sullivan County 4-H Fairgrounds <i>Sullivan, Indiana</i>	Lisa Holscher <i>Watershed Coordinator</i>	Water Quality Station: Model demonstrating a watershed & effects of point and non-point source pollution on water quality.	300 3 rd Graders and Teachers

WORKSHOPS / FIELD DAYS / PRESENTATIONS, cont					
Event	Date	Location	Presenters/Speakers	Topic	Target Audience
Precision Ag – Informational	21 April 2010	IDEM Offices <i>Indianapolis, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Basics of Precision Ag Technology – how it works, estimated input reductions, etc	IDEM Staff – to understand the technology behind the BMPs
Hands-on Rain Garden Workshop	19 June 2010	Sullivan County Park & Lake <i>Sullivan, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Hands-on design and installation of a rain garden.	Home gardeners, educators
Master Naturalists	24 September 2010	Isaac Walton League Clubhouse <i>Clay City, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Water Quality Trends, How to sample water & macroinvertebrates	Adults interested in conservation
Pre-Raft Trip Education Series	22 September 2010	North Central High School <i>Shelburn, IN</i> Rural Community Academy <i>Graysville, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Rules of the Raft Trip / What to Expect, including Wabash River causes for impairments	8 th Grade Students and Teachers
Pre-Raft Trip Education Series	23 September 2010	Union Jr-Sr High School <i>Dugger, IN</i> Carlisle Elementary <i>Carlisle, IN</i> Sullivan Middle School <i>Sullivan, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Rules of the Raft Trip / What to Expect, including Wabash River causes for impairments	8 th Grade Students and Teachers
Sullivan Co. 8 th Grade Raft Trip	5, 6, 7 October	Wabash River from <i>Riverview, IN to Hutsonville, IL</i>	Various	Students receive education from adult supervisors in rafts, Conservation Officers, and Education Stop instructors on History, hydrology, water quality, environmental	All 8 th grade students of Sullivan County

				impacts, etc.	
WORKSHOPS / FIELD DAYS / PRESENTATIONS, cont					
Event	Date	Location	Presenters/Speakers	Topic	Target Audience
Indiana District Employees Association	13 October 2010	Holiday Inn <i>Bloomington, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Building Partnerships & Selling Conservation	SWCD employees and educators
Watershed Networking Meeting	9 December 2010	NREC Offices <i>Ft. Benjamin Harrison Indianapolis, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Building Partnerships & Selling Conservation	Other Watershed Coordinators
Sullivan Master Naturalists	16 December 2010	Sullivan Co. 4-H Exhibit Hall <i>Sullivan, IN</i>	Lisa Holscher <i>Watershed Coordinator</i>	Emerging contaminants (PCPPs) and general water quality concerns	Adults with conservation interests
Rain Barrel Art Project	October – March 2010	Sullivan County, IN	N/A	Provided Water Quality / Environment Lesson Plans aligning to Indiana Standards as part of a rain barrel decoration project	Educators

b) Information Booths

Topic	Date	Location	Target Audience
Introduction to the Busseron Creek Watershed Project	08 March 2008	Sullivan 4-H Fairgrounds	Approx 1100 Busseron Creek Watershed Stakeholders
Introduction to the Busseron Creek Watershed Project – Where does the money come from / what does it do?	11 July 2008 through 19 July 2008	Sullivan County 4-H Fair Exhibit Hall	Attendees of the Sullivan Co. 4-H Fair / Busseron Creek Watershed Stakeholders
Introduction to Best Management Practices - Busseron Creek Watershed Cost-Share Program	14 March 2009	Sullivan 4-H Fairgrounds	Busseron Creek Watershed Stakeholders
Best Management Practices for Livestock Owners	10 July 2009 Through 17 July 2009	Sullivan 4-H Fairgrounds	Attendees of the Sullivan Co. 4-H Fair / “Hobby Farmers” with horses and other livestock on small acreage.
Two-Stage Ditches, Cost-Share Program	13 March 2010	Sullivan 4-H Fairgrounds	Landowners, Farmers
Two-Stage Ditches, Cost-Share Program	16 July 2010 through 23 July 2010	Sullivan 4-H Fairgrounds	Attendees of the Sullivan Co. 4-H Fair / Landowners with managed drains
Protect your Streambank to Protect your tile outlets	12 March 2011	Sullivan 4-H Fairgrounds	Landowners, Growers who farm land with streams

c) *Media*

MEDIA		
Outlet	Date	Tagline / Subject
WNDI Radio, Sullivan	08 March 2008	Intro to the Busseron Creek Watershed Project
Sullivan Daily Times Newspaper	17 March 2008	“Meeting to address needs of the Busseron Creek Watershed”: Interview / Preview of Stakeholder’s Meeting
Sullivan Daily Times Newspaper	11 July 2008	Sullivan Co. Park & Lake LARE Grant / Busseron Creek Watershed Partnership
Sullivan Daily Times Newspaper	08 August 2008	Sullivan SWCD Field Day / Busseron Creek Watershed presentation on Best Management Practices
Sullivan Daily Times Newspaper	30 September 2008	“Outdoor Classroom Uses Firebreak to Rejuvenate Land”
Sullivan Daily Times Newspaper	07 October 2008	“Trip Promotes Stewardship of the Land” / Sullivan 8 th Grade Raft Trip
Land Broadcasting – Radio	05 February 2009	“Take 5” plus multiple spots featuring Wetlands Workshop
WNDI Radio	06 February 2009	Multiple spots featuring Wetlands Workshop
Terre Haute Tribute Star – Newspaper	08 February 2009	Wetlands Workshop pre-event article
Sullivan Daily Times Newspaper	10 February 2009	Wetlands Workshop photo feature
Sullivan Daily Times Newspaper	11 February 2009	“Wetlands Workshop Well-Attended”
Sullivan Daily Times Newspaper	23 April 2009	“Local Students Explore Their Earth, Celebrate the Day”
Sullivan Daily Times Newspaper	06 May 2009	“E coli a ‘big problem’ in the Busseron Creek Watershed”
Sullivan Daily Times Newspaper	28 May 2009	Mitigation Clearinghouse (to unite those needing 401/404 mitigation sites with interested landowners) introduced.
Sullivan Daily Times Newspaper	01 July 2009	Mitigation Clearinghouse Public Meeting
Sullivan Daily Times Newspaper	18 August 2009	Busseron Creek Watershed letter of support from Sullivan Commissioners
Sullivan Daily Times Newspaper	25 August 2009	Busseron Creek Watershed letter of support from Sullivan County Council
Sullivan Daily Times Newspaper	09 December 2009	“Cost-share Sign-up Begins” – Busseron Creek Cost-share
Sullivan Daily Times News Paper	23 December 2009	“Meeting to Discuss LARE Program” – Application to LARE grant program
Sullivan Daily Times Newspaper	10 May 2010	“Approval Sets Watershed Improvements in Motion” featuring Busseron Creek Cost-share Program
Sullivan Daily Times Newspaper	07 June 2010 Through 18 June 2010	Series of advertisements requesting rain garden plan donations, promoting rain garden workshop
Sullivan Daily Times Newspaper	10 June 2010	“Alliance Needs Your Flowers: Rain Garden Workshop is Scheduled”
WNDI Radio, Sullivan	11 June 2010	Feature on Rain Garden Workshop, Cost-Share Program
Sullivan Daily Times	22 June 2010	“Conservation District Receives Second EPA Grant”

		featuring approval for a Section 319 Implementation Grant for Busseron Creek Watershed
Terre Haute Tribune Star	22 June 2010	“Sullivan Conservation District gets watershed approval” – featuring approval for a Section 319 Grant for Busseron Creek Watershed
WFIU Radio, Bloomington	16 July 2010	“Local Group Seeks Innovative Ways to Protect Indiana Watersheds” feature on concept of “selling conservation”
Sullivan Daily Times	10 Sept 2010	“Soil and Water Conservation District gets Arts Grant” – Featuring SWCD and WCIWA grant for Rain Barrel Art Project from ArtsIlliana
Sullivan Daily Times	06 Oct 2010	“Community Foundation Awards Grants” – Featuring SWCD and WCIWA grant for Rain Barrel Art project.
Sullivan Daily Times	16 Nov 2010	Classified Filter Strip program included in coverage of regular Sullivan County Commissioner’s Meeting.
Sullivan Daily Times	23 Nov 2010	Adoption of filter strip program ordinance included in the coverage of regular Sullivan County Council Meeting.

ID	Task Name	Duration	% Complete	Start	Finish
1	Urban / Residential BMPs	78.33 mons	14%	Fri 1/1/10	Wed 6/8/16
2	Septic / Sewage	60.17 mons	42%	Fri 1/1/10	Thu 12/11/14
3	Private Septic	60.17 mons	71%	Fri 1/1/10	Thu 12/11/14
4	Septic Ordinance	48 mons	50%	Sat 1/1/11	Thu 12/11/14
5	Evaluate Model Septic Ordinances	24 mons	100%	Sat 1/1/11	Fri 12/21/12
6	Alter / Adapt Model Septic Ordinance	24 mons	0%	Fri 12/21/12	Thu 12/11/14
7	Adopt Septic Ordinance	0 mons	0%	Thu 12/11/14	Thu 12/11/14
8	Septic Inspection	36 mons	99%	Sat 1/1/11	Mon 12/16/13
9	Septic Design Evaluation / Installation Inspection Requirements	24 mons	100%	Sat 1/1/11	Fri 12/21/12
10	Septic Design / Installation Inspections	0 mons	0%	Mon 12/16/13	Mon 12/16/13
11	Septic Inspection for Home Loans	48 mons	50%	Sat 1/1/11	Thu 12/11/14
12	Septic Inspection Form to File with Board of Health & Buyer	12 mons	0%	Sat 1/1/11	Tue 12/27/11
13	Septic Inspection Awareness Campaign - Esp for Real Estate Professionals	12 mons	100%	Tue 12/27/11	Fri 12/21/12
14	Septic Inspections on 50% of Real Estate Transfers	0 mons	0%	Fri 12/21/12	Fri 12/21/12
15	Septic Inspections on 50% of Real Estate Transfers	0 mons	0%	Thu 12/11/14	Thu 12/11/14
16	Septic Maintenance	24 mons	100%	Fri 1/1/10	Thu 12/22/11
17	Private Septic Web Page	12 mons	100%	Fri 1/1/10	Mon 12/27/10
18	Private Septic Media Articles / Awareness Campaign	12 mons	100%	Mon 12/27/10	Thu 12/22/11
19	Organize Septic Workshop	6 mons	100%	Mon 12/27/10	Sat 6/25/11
20	Host Septic Workshop	0 mons	100%	Sat 6/25/11	Sat 6/25/11
21	Public Sewage	60.17 mons	26%	Fri 1/1/10	Thu 12/11/14
22	Gutter Disconnect	60.17 mons	0%	Fri 1/1/10	Thu 12/11/14

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ID	Task Name	Duration	% Complete	Start	Finish
23	Review of Prior Gutter Disconnect Campaign	12 mons	0%	Sat 1/1/11	Tue 12/27/11
24	Gutter Disconnect Awareness Campaign	12 mons	0%	Tue 12/27/11	Fri 12/21/12
25	On-Foot Survey of Gutter Disconnect	30 mons	0%	Sun 6/24/12	Thu 12/11/14
26	Gutter Disconnect Survey Complete	0 mons	0%	Fri 1/1/10	Fri 1/1/10
27	Rain Gardens & Rain Barrels	60 mons	39%	Fri 1/1/10	Sat 12/6/14
28	Rain Garden Awareness Campaign	24 mons	50%	Fri 1/1/10	Thu 12/22/11
29	Buy-in From Governing Bodies	0 mons	0%	Sun 12/16/12	Sun 12/16/12
30	Promote commercial LID / Rain Garden Design	24 mons	50%	Sun 12/16/12	Sat 12/6/14
31	30% of New Construction Implementing LID Design	0 mons	0%	Sat 12/6/14	Sat 12/6/14
32	Organize 1st Rain Garden Workshop	6 mons	100%	Fri 1/1/10	Wed 6/30/10
33	Host 1st Rain Garden Workshop / Demo Installation	0 mons	100%	Wed 6/30/10	Wed 6/30/10
34	Promote Rain Garden Installations	48 mons	25%	Wed 6/30/10	Mon 6/9/14
35	Organize 2nd Rain Garden Workshop / Demo Installation	6 mons	0%	Fri 6/14/13	Wed 12/11/13
36	Host 2nd Rain Garden Workshop	0 mons	0%	Wed 12/11/13	Wed 12/11/13
37	Goose Patrol	24 mons	0%	Sun 1/1/12	Sat 12/21/13
38	Goose Management Web Page	12 mons	0%	Sun 1/1/12	Wed 12/26/12
39	At least 1 Goose Management Training (DNR)	0 mons	0%	Sun 1/1/12	Sun 1/1/12
40	Goose Management Awareness Campaign	12 mons	0%	Wed 12/26/12	Sat 12/21/13
41	At least 1 DNR Presentation	0 mons	0%	Sat 12/21/13	Sat 12/21/13
42	Stormwater Wetlands	60 mons	0%	Sat 1/1/11	Sun 12/6/15
43	Stormwater Wetlands Marketing to Gov't Officials & Landowners	36 mons	0%	Sat 1/1/11	Mon 12/16/13
44	Stormwater Wetlands Engineering / Permitting	24 mons	0%	Fri 12/21/12	Thu 12/11/14
45	Stormwater Wetland Construction	12 mons	0%	Thu 12/11/14	Sun 12/6/15
46	At least 1 Stormwater Wetland Installation	0 mons	0%	Sun 12/6/15	Sun 12/6/15
47	Road & Ditch	78 mons	9%	Fri 1/1/10	Sun 5/29/16
48	Road & Utility Easements	60 mons	20%	Fri 1/1/10	Sat 12/6/14
49	Review existing road and drainage board easements	12 mons	50%	Fri 1/1/10	Mon 12/27/10
50	Review applicability of Indiana Code	12 mons	50%	Fri 1/1/10	Mon 12/27/10

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ID	Task Name	Duration	% Complete	Start	Finish
51	Develop / Implement County-wide Road ROW	48 mons	5%	Mon 12/27/10	Sat 12/6/14
52	County Road / Ditch ROW Implemented	0 mons	5%	Sat 12/6/14	Sat 12/6/14
53	Road & Ditch Guidelines	60 mons	0%	Sat 1/1/11	Sun 12/6/15
54	Evaluate Model Road & Ditch Ordinances	12 mons	0%	Sat 1/1/11	Tue 12/27/11
55	Develop Model Road / Ditch Buffer Guidelines	6 mons	0%	Tue 12/27/11	Sun 6/24/12
56	Adopt Road & Ditch Buffer Guidelines	0 mons	0%	Sun 6/24/12	Sun 6/24/12
57	Promote / Provide Road & Ditch Buffer Program	12 mons	0%	Sun 6/24/12	Wed 6/19/13
58	Implement Buffer BMPs	30 mons	0%	Fri 12/21/12	Tue 6/9/15
59	Ordinance Enforcement	30 mons	0%	Wed 6/19/13	Sun 12/6/15
60	Low Maintenance Ditch	66 mons	14%	Fri 1/1/10	Thu 6/4/15
61	LARE Grant Application	12 mons	100%	Fri 1/1/10	Mon 12/27/10
62	Ditch Design	6 mons	25%	Sat 6/25/11	Thu 12/22/11
63	Ditch Demonstration Projects	6 mons	0%	Thu 12/22/11	Tue 6/19/12
64	Install 1-2 mile approved ditches / year	36 mons	0%	Tue 6/19/12	Thu 6/4/15
65	Install 2-3 mile field borders or buffers / year	36 mons	0%	Tue 6/19/12	Thu 6/4/15
66	3 - 6 mile Low Maintenance Ditch Installed	0 mons	0%	Thu 6/4/15	Thu 6/4/15
67	6-12 mile field border / buffers installed	0 mons	0%	Thu 6/4/15	Thu 6/4/15
68	Improved Road Construction	54 mons	0%	Thu 12/22/11	Sun 5/29/16
69	Develop Road Guidelines base upon PA Dirt & Gravel	12 mons	0%	Sun 1/1/12	Wed 12/26/12
70	Implement improved materials / methods at ditch der	6 mons	0%	Thu 12/22/11	Tue 6/19/12
71	Install 1-2 mile improved roads in conjunction w/ ditch	48 mons	0%	Tue 6/19/12	Sun 5/29/16
72	3-6 miles improved roads installed	0 mons	0%	Sun 5/29/16	Sun 5/29/16
73	Lawns	60 mons	0%	Sat 1/1/11	Sun 12/6/15
74	Public	60 mons	0%	Sat 1/1/11	Sun 12/6/15
75	Work w/ Park Boards / Mgrs to define buffer strip need	12 mons	0%	Sat 1/1/11	Tue 12/27/11
76	Install buffers	48 mons	0%	Tue 12/27/11	Sun 12/6/15
77	30% stream & lake bank buffer	0 mons	0%	Sun 12/6/15	Sun 12/6/15
78	IPM Web Page	12 mons	0%	Sat 1/1/11	Tue 12/27/11
79	Work w/ Park Boards & Managers to adopt IPM	12 mons	0%	Sat 1/1/11	Tue 12/27/11

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ID	Task Name	Duration	% Complete	Start	Finish
80	Review Park IPM adoption	12 mons	0%	Tue 12/27/11	Fri 12/21/12
81	Residential	30.8 mons	0%	Wed 6/1/11	Wed 12/11/13
82	Lawn Care Web Page	12 mons	0%	Wed 6/1/11	Sat 5/26/12
83	Residential Buffer Web Page	12 mons	0%	Wed 6/1/11	Sat 5/26/12
84	IPM Web Page	12 mons	0%	Wed 6/1/11	Sat 5/26/12
85	Develop Lawn Care / Lakescaping / IPM Workshop	6 mons	0%	Fri 6/14/13	Wed 12/11/13
86	Lawn Care / Lakescaping / IPM Workshop	0 mons	0%	Wed 12/11/13	Wed 12/11/13
87	Solid Waste	66.17 mons	5%	Sat 1/1/11	Wed 6/8/16
88	Prescription Meds	21 mons	57%	Sat 1/1/11	Sat 9/22/12
89	Prescription Med Awareness Campaign	12 mons	100%	Sat 1/1/11	Tue 12/27/11
90	Prescription Med Web Page	12 mons	0%	Sat 1/1/11	Tue 12/27/11
91	Plan Collection Day	6 mons	100%	Fri 4/1/11	Wed 9/28/11
92	Operation Medicine Cabinet	0 mons	100%	Wed 9/28/11	Wed 9/28/11
93	Review / Plan Next Collection Day	12 mons	50%	Wed 9/28/11	Sat 9/22/12
94	Hazardous Household Waste	48 mons	0%	Sat 1/1/11	Thu 12/11/14
95	Household Waste Awareness Campaign	24 mons	0%	Sat 1/1/11	Fri 12/21/12
96	Household Waste Web Page	12 mons	0%	Tue 12/27/11	Fri 12/21/12
97	Plan Household Waste Collection Day	12 mons	0%	Fri 12/21/12	Mon 12/16/13
98	Host Household Waste Collection Day	0 mons	0%	Mon 12/16/13	Mon 12/16/13
99	Review / Plan Next Collection Day	12 mons	0%	Mon 12/16/13	Thu 12/11/14
100	Illegal Dumping	65.03 mons	0%	Sat 1/1/11	Thu 5/5/16
101	Littering - Education	48 mons	0%	Sat 1/1/11	Thu 12/11/14
102	Develop Anti-Littering Webpage	12 mons	0%	Sat 1/1/11	Tue 12/27/11
103	Keep America Beautiful Affiliation Process	12 mons	0%	Tue 12/27/11	Fri 12/21/12
104	Keep America Beautiful Affiliation	0 mons	0%	Fri 12/21/12	Fri 12/21/12
105	Organize Clean-Up Days	36 mons	0%	Tue 12/27/11	Thu 12/11/14
106	PSA, Flyers, Other Outreach	36 mons	0%	Tue 12/27/11	Thu 12/11/14
107	Littering - Legal	60 mons	0%	Wed 6/1/11	Thu 5/5/16
108	Develop Scale of Littering Fines	12 mons	0%	Wed 6/1/11	Sat 5/26/12

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ID	Task Name	Duration	% Complete	Start	Finish
109	Littering Penalty Awareness Campaign	24 mons	0%	Sat 5/26/12	Fri 5/16/14
110	Enforcement of Littering Laws	0 mons	0%	Fri 5/16/14	Fri 5/16/14
111	Community Service in Lieu of Incarceration	24 mons	0%	Thu 11/22/12	Wed 11/12/14
112	Review / Adapt Littering Enforcement Plans	12 mons	0%	Mon 5/11/15	Thu 5/5/16
113	Amnesty for Tires, Electronics, Appliances	48 mons	0%	Sat 1/1/11	Thu 12/11/14
114	Identify Potential Amnesty Partners	12 mons	0%	Sat 1/1/11	Tue 12/27/11
115	Amnesty Event Planning	12 mons	0%	Tue 12/27/11	Fri 12/21/12
116	Quarterly Amnesty Days	0 mons	0%	Fri 12/21/12	Fri 12/21/12
117	Review / Adapt Amnesty Days	12 mons	0%	Mon 12/16/13	Thu 12/11/14
118	Animal (Hunting) Carcass Disposal	60 mons	0%	Sat 1/1/11	Sun 12/6/15
119	Proper Animal Disposal Webpage	12 mons	0%	Sat 1/1/11	Tue 12/27/11
120	Animal (Hunting) Carcass Disposal to Shops, Check	24 mons	0%	Sat 1/1/11	Fri 12/21/12
121	Review Impact / Revise Flyers & Campaign	36 mons	0%	Fri 12/21/12	Sun 12/6/15
122	Municipal Trash Disposal	54 mons	0%	Sun 1/1/12	Wed 6/8/16
123	Plan Trash Pick-up as Part of Utilities	24 mons	0%	Sun 1/1/12	Sat 12/21/13
124	Trash Pick-up Awareness Campaign	12 mons	0%	Wed 12/26/12	Sat 12/21/13
125	Trash Pick-up for all Incorporated Communities	0 mons	0%	Tue 12/16/14	Tue 12/16/14
126	Plan Rural Trash Pick-up	12 mons	0%	Sun 6/14/15	Wed 6/8/16
127	Self-Serve Dumpster Planning	24 mons	0%	Sun 1/1/12	Sat 12/21/13
128	Self-Serve Dumpster Pilot	0 mons	0%	Sat 12/21/13	Sat 12/21/13
129	Review / Adapt / Deploy Self-Serve Dumpsters	24 mons	0%	Sat 12/21/13	Fri 12/11/15
130	Agriculture	72 mons	27%	Fri 1/1/10	Tue 12/1/15
131	Livestock	60 mons	11%	Fri 1/1/10	Sat 12/6/14
132	Exclusionary Fencing	60 mons	13%	Fri 1/1/10	Sat 12/6/14
133	Market Exclusion BMPs to Producers & Landowners	36 mons	30%	Fri 1/1/10	Sun 12/16/12
134	Install Exclusionary Fencing	48 mons	0%	Mon 12/27/10	Sat 12/6/14
135	2000 LF Exclusionary Fencing Installed	0 mons	0%	Sat 12/6/14	Sat 12/6/14
136	Waste Management	48 mons	10%	Fri 1/1/10	Wed 12/11/13
137	Market BMPs to reduce feetlot / drylot / pasture runc	36 mons	30%	Fri 1/1/10	Sun 12/16/12

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ID	Task Name	Duration	% Complete	Start	Finish
138	Market Waste Management Programs	36 mons	0%	Fri 1/1/10	Sun 12/16/12
139	Install Filter Strips, Buffers, Rotational Grazing	36 mons	0%	Mon 12/27/10	Wed 12/11/13
140	Filter Strips / Buffers / Fencing on at least 1 site	0 mons	0%	Wed 12/11/13	Wed 12/11/13
141	At least 1 new producer enrolled in waste management	0 mons	0%	Sun 12/16/12	Sun 12/16/12
142	Crop Production	72 mons	28%	Fri 1/1/10	Tue 12/1/15
143	Ag BMPs for Better Infiltration	60 mons	24%	Fri 1/1/10	Sat 12/6/14
144	Market No-Till, Cover Crops, etc	60 mons	20%	Fri 1/1/10	Sat 12/6/14
145	Enroll 5 New Growers / Year into Conservation Programs	36 mons	30%	Thu 12/22/11	Sat 12/6/14
146	5 New Growers in Conservation Programs	0 mons	100%	Sun 12/16/12	Sun 12/16/12
147	5 New Growers in Conservation Programs	0 mons	0%	Wed 12/11/13	Wed 12/11/13
148	5 New Growers in Conservation Programs	0 mons	0%	Sat 12/6/14	Sat 12/6/14
149	Conservation Plans for at least 15% of Ag Acreage	0 mons	0%	Sat 12/6/14	Sat 12/6/14
150	Irrigation	72 mons	19%	Fri 1/1/10	Tue 12/1/15
151	Market Irrigation Programs	60 mons	20%	Fri 1/1/10	Sat 12/6/14
152	Irrigation Uniformity Tests / Upgrades	48 mons	25%	Thu 12/22/11	Tue 12/1/15
153	Implement Irrigation Management Programs	48 mons	25%	Thu 12/22/11	Tue 12/1/15
154	At Least 5 Producers Enrolled in Irrigation Program	0 mons	100%	Sun 12/16/12	Sun 12/16/12
155	Enroll 2 Producers / Year in Irrigation Program	36 mons	0%	Sun 12/16/12	Tue 12/1/15
156	Management Programs for at least 50% of Irrigated Acreage	0 mons	0%	Tue 12/1/15	Tue 12/1/15
157	IPM	72 mons	39%	Fri 1/1/10	Tue 12/1/15
158	Market IPM Programs	36 mons	30%	Fri 1/1/10	Sun 12/16/12
159	Enroll 3 new Producers / Year into IPM Program	24 mons	50%	Mon 12/27/10	Sun 12/16/12
160	6 New Producers Enrolled in IPM Programs	0 mons	50%	Sun 12/16/12	Sun 12/16/12
161	IPM Presentation at PARPs Workshop	6 mons	100%	Tue 6/19/12	Sun 12/16/12
162	5 New Producers / Year into IPM Program	36 mons	30%	Sun 12/16/12	Tue 12/1/15
163	50% of growers implement IPM	0 mons	0%	Tue 12/1/15	Tue 12/1/15
164	Precision Ag	72 mons	38%	Fri 1/1/10	Tue 12/1/15
165	Market PA as tiered cost-share	24 mons	100%	Fri 1/1/10	Thu 12/22/11
166	Review New PA Technology on annual basis	60 mons	20%	Mon 12/27/10	Tue 12/1/15

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ID	Task Name	Duration	% Complete	Start	Finish
167	Partner w/ Suppliers to host PA Training	12 mons	0%	Sun 12/16/12	Wed 12/11/13
168	Co-Sponsored PA Workshop	0 mons	0%	Wed 12/11/13	Wed 12/11/13
169	Reclaimed Farmlands	72 mons	38%	Fri 1/1/10	Tue 12/1/15
170	Enroll Reclaimed Farmland into Ag Programs	36 mons	67%	Fri 1/1/10	Sun 12/16/12
171	Promote Benefits to Land Managers	24 mons	50%	Fri 1/1/10	Thu 12/22/11
172	Work w/ Land Managers to secure proof of control as	12 mons	100%	Thu 12/22/11	Sun 12/16/12
173	Secure extended Lease or Proof of Control for tenants	0 mons	100%	Sun 12/16/12	Sun 12/16/12
174	Reclaimed Farmland Management	72 mons	29%	Fri 1/1/10	Tue 12/1/15
175	Promote Farm Management Practices for Reclaimed F	24 mons	50%	Fri 1/1/10	Thu 12/22/11
176	Develop List of Tracts to be released from bond	12 mons	0%	Mon 12/27/10	Thu 12/22/11
177	Promote Conservaiton program enrollment to farmer	48 mons	25%	Thu 12/22/11	Tue 12/1/15
178	Promote Conservation Programs to owners of soon-to	36 mons	30%	Sun 12/16/12	Tue 12/1/15
179	Ag Program Participation	72 mons	31%	Fri 1/1/10	Tue 12/1/15
180	Develop Sales Staff of Agronomists, Suppliers, etc	36 mons	30%	Fri 1/1/10	Sun 12/16/12
181	Develop Catalogue of Field Days, Clinics, Customer Appr	24 mons	30%	Fri 1/1/10	Thu 12/22/11
182	Presentations or Booth at 20% of Events each year	48 mons	25%	Thu 12/22/11	Tue 12/1/15
183	Presentations at near 100% of events	0 mons	100%	Tue 12/1/15	Tue 12/1/15
184	Applications from 5 new growers / year	24 mons	50%	Mon 12/27/10	Sun 12/16/12
185	Applications from at least 10 new growers	0 mons	50%	Sun 12/16/12	Sun 12/16/12
186	Applications from at least 2 new growers / year	36 mons	30%	Sun 12/16/12	Tue 12/1/15
187	Applications from at least 6 new growers	0 mons	0%	Tue 12/1/15	Tue 12/1/15
188	Habitat / Green Infrastructure	78 mons	21%	Fri 1/1/10	Sun 5/29/16
189	Streambank Stabilization / Stream Restoration	72 mons	16%	Fri 1/1/10	Tue 12/1/15
190	Market Stream BMPs to Public	72 mons	15%	Fri 1/1/10	Tue 12/1/15
191	Stream Restoration Engineering / Permitting	48 mons	25%	Thu 12/22/11	Tue 12/1/15
192	Install Stream Restoration / Stabilization BMPs	24 mons	0%	Wed 12/11/13	Tue 12/1/15
193	At least 1000 lf of Stream Restoration Complete	0 mons	0%	Tue 12/1/15	Tue 12/1/15
194	Riparian Area Conservation	72.17 mons	0%	Fri 1/1/10	Sun 12/6/15
195	Riparian Area Web Page	12 mons	0%	Sat 1/1/11	Tue 12/27/11

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ID	Task Name	Duration	% Complete	Start	Finish
196	Contact Riparian Area Landowners	36 mons	0%	Thu 6/30/11	Sat 6/14/14
197	Organize Shoreline Restoration & Conservation Workshop	6 mons	0%	Sun 6/24/12	Fri 12/21/12
198	Riparian Area Conservation Workshop	0 mons	0%	Fri 12/21/12	Fri 12/21/12
199	Riparian Area Technical Assistance	36 mons	0%	Fri 12/21/12	Sun 12/6/15
200	Technical Assistance on at least 5 Riparian Sites / Year	0 mons	0%	Fri 1/1/10	Fri 1/1/10
201	At least 10 sites enrolled in Mitigation Clearinghouse	0 mons	0%	Sat 6/14/14	Sat 6/14/14
202	At least 5 sites matched with Mitigation Partners	0 mons	0%	Tue 6/9/15	Tue 6/9/15
203	Forestry	72 mons	37%	Fri 1/1/10	Tue 12/1/15
204	Work w/ RC&D Forestry Committee - Forestry Workshop	24 mons	50%	Fri 1/1/10	Thu 12/22/11
205	List of Certified Foresters	24 mons	100%	Fri 1/1/10	Thu 12/22/11
206	Forestry Web Page	12 mons	0%	Thu 12/22/11	Sun 12/16/12
207	Forestry Awareness Campaign	36 mons	30%	Sun 12/16/12	Tue 12/1/15
208	Promote RC&D Forestry Workshops	48 mons	25%	Thu 12/22/11	Tue 12/1/15
209	Market Forestry Programs to Landowners	48 mons	25%	Thu 12/22/11	Tue 12/1/15
210	Headwater Streams & Wetlands	72 mons	8%	Fri 1/1/10	Tue 12/1/15
211	Incorporate headwater protection into conservataion pl	36 mons	30%	Fri 1/1/10	Sun 12/16/12
212	Engineering & Permitting	60 mons	0%	Mon 12/27/10	Tue 12/1/15
213	Headwater conservation / restoration implementation	36 mons	0%	Sun 12/16/12	Tue 12/1/15
214	Invasive Species	54 mons	20%	Sat 1/1/11	Tue 6/9/15
215	Develop Invasive Spp Web Page	12 mons	0%	Sat 1/1/11	Tue 12/27/11
216	Develop Invasive Spp Presentation Materials	12 mons	0%	Thu 6/30/11	Sun 6/24/12
217	Incorporate Invasive Spp Information in other Workshop	24 mons	50%	Sun 6/24/12	Sat 6/14/14
218	Participate in Weed Managemetn Groups Workshops	24 mons	10%	Wed 6/19/13	Tue 6/9/15
219	Small Site Connectivity	72 mons	15%	Fri 1/1/10	Tue 12/1/15
220	Market habitat connectivity within Conservation Plans	72 mons	15%	Fri 1/1/10	Tue 12/1/15
221	5% of all projects incorporate connectivity	0 mons	0%	Sat 12/6/14	Sat 12/6/14
222	Large Scale Connectivity	78 mons	29%	Fri 1/1/10	Sun 5/29/16
223	Develop Conceptual Land Use / Land Planning Targets	36 mons	30%	Fri 1/1/10	Sun 12/16/12
224	Prioritize Areas for Restoration and/or Conservation	24 mons	30%	Sun 12/16/12	Sat 12/6/14

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ID	Task Name	Duration	% Complete	Start	Finish
225	Target Landowners for Conservation / Restoration progr	24 mons	25%	Mon 6/9/14	Sun 5/29/16
226	Mitigation Clearinghouse	60 mons	75%	Fri 1/1/10	Sat 12/6/14
227	Mitigation Clearinghouse Web Page	12 mons	100%	Fri 1/1/10	Mon 12/27/10
228	Develop Core Group of Mitigation Partners	12 mons	50%	Mon 12/27/10	Thu 12/22/11
229	Match at least 1 mile of stream	0 mons	100%	Sat 12/6/14	Sat 12/6/14
230	Match at least 25 ac wetlands	0 mons	0%	Sat 12/6/14	Sat 12/6/14
231	AML	72 mons	18%	Fri 1/1/10	Tue 12/1/15
232	Work w/ Sycamore Trails to educate public on AML identifi	24 mons	50%	Fri 1/1/10	Thu 12/22/11
233	Develop / Market Citizen Submittal of Potential AML Sites	24 mons	50%	Thu 12/22/11	Wed 12/11/13
234	Ground-truth / Inventory Citizen-Submitted Sites	24 mons	0%	Fri 6/14/13	Thu 6/4/15
235	Enroll sites into Partners for Reclamation	60 mons	0%	Mon 12/27/10	Tue 12/1/15
236	Efficiency / Capacity	84.17 mons	39%	Fri 1/1/10	Wed 11/30/16
237	Improved BMP Implementation	72 mons	87%	Fri 1/1/10	Tue 12/1/15
238	Geostatistical Analysis w/in 12-Digit HUC	60 mons	75%	Fri 1/1/10	Sat 12/6/14
239	Ground-Truthing	60 mons	100%	Wed 6/30/10	Thu 6/4/15
240	Develop / Implement Sampling & Modeling Strategies	60 mons	75%	Mon 12/27/10	Tue 12/1/15
241	Target Area Review	48 mons	100%	Sat 6/25/11	Thu 6/4/15
242	Revised Target Areas	0 mons	0%	Thu 12/22/11	Thu 12/22/11
243	Plan of Work	72 mons	40%	Fri 1/1/10	Tue 12/1/15
244	Outline / Main Draft Plan of Work	12 mons	100%	Fri 1/1/10	Mon 12/27/10
245	Final Plan of Work	12 mons	100%	Mon 12/27/10	Thu 12/22/11
246	Plan of Work Complete	0 mons	100%	Thu 12/22/11	Thu 12/22/11
247	Plan of Work Annual Review / Update	48 mons	10%	Thu 12/22/11	Tue 12/1/15
248	Financial Plan	72 mons	1%	Fri 1/1/10	Tue 12/1/15
249	Outline / Main Draft Financial Plan	18 mons	5%	Fri 1/1/10	Sat 6/25/11
250	Final Financial Plan	6 mons	0%	Sat 6/25/11	Thu 12/22/11
251	Financial Plan Complete	0 mons	0%	Thu 12/22/11	Thu 12/22/11
252	Financial Plan Annual Review / Update	48 mons	0%	Thu 12/22/11	Tue 12/1/15
253	Human Resources	84.17 mons	2%	Fri 1/1/10	Wed 11/30/16

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ID	Task Name	Duration	% Complete	Start	Finish
254	Five-year Staffing Plan	12 mons	15%	Sat 1/1/11	Tue 12/27/11
255	Hiring of Staff as Required	60 mons	0%	Tue 12/27/11	Wed 11/30/16
256	Annual Review of Staffing Needs	48 mons	0%	Fri 12/21/12	Wed 11/30/16
257	Set-up Volunteer Management Software	24 mons	5%	Fri 1/1/10	Thu 12/22/11
258	HR in Place to Maintain Volunteer Database	0 mons	0%	Thu 12/22/11	Thu 12/22/11
259	Partnership Development	72 mons	0%	Fri 1/1/10	Tue 12/1/15
260	Develop Prospectus	24 mons	0%	Fri 1/1/10	Thu 12/22/11
261	Marketing Materials for Potential Partners	12 mons	0%	Thu 12/22/11	Sun 12/16/12
262	Review / Update Marketing Materials	36 mons	0%	Sun 12/16/12	Tue 12/1/15
263	3 New Partners	0 mons	0%	Wed 12/11/13	Wed 12/11/13
264	3 New Partners	0 mons	0%	Sat 12/6/14	Sat 12/6/14
265	3 New Partners	0 mons	0%	Tue 12/1/15	Tue 12/1/15

1. Promotional Events

Event	Date	Location	Topic / Result
Busseron Conservancy District – Regular Meeting	01 September 2009	Sullivan County Courthouse <i>Sullivan, IN</i>	Promotion of Mitigation Clearinghouse, Future Cost-Share
Ceres Crop Solutions Sprayer Education Meeting for Customers	08 December 2009	Knox Co. Fairgrounds <i>Bicknell, IN</i>	Promotion of Section 319 Cost-Share Program and other Conservation Oriented Programs (EQIP, LARE, Classified Forests) to growers
Ceres Crop Solutions Regional Sales & Agronomy Staff	10 December 2009	Ceres Crop Solutions <i>Terre Haute, IN</i>	Enlisting agronomy staff to promote conservation programs.
AgriGold Seed Meetings	19 February 2010	Cardinal Farm <i>Knox Co, IN</i> Wampler Farm <i>Sullivan Co, IN</i>	Advise growers about Section 319 Cost-Share Program and other Conservation Oriented Programs
Pigg Implement Planter Clinic	24 February 2010	Pigg Implement <i>Sullivan, IN</i>	Advise growers about Section 319 Cost-Share Program and other Conservation Oriented Programs
Busseron Conservancy District – Regular Meeting	2 March 2010	Sullivan County Courthouse <i>Sullivan, IN</i>	Enlist help of board members to promote cost-share programs
NRCS / FSA Contractor’s Meeting	10 March 2010	Vigo Co. Fairgrounds <i>Terre Haute, IN</i>	Network with Contractors to enlist help to promote cost-share programs
Jenner Strip Till	9 August 2010	Carmichael Farm <i>Sullivan Co, IN</i>	Advise growers about precision ag and strip-till cost-share
Ceres Answer Plot	27 August 2010	Ceres Test Plots <i>Farmersburg, IN</i>	Advise growers about cover crop cost-share

Busseron Creek Watershed
Planter Modification Cost-Share

Cost-share levels listed are for planters on 30" rows.

75% Cost Share requires a 25% match. (i.e. for a \$100.00 item, BCWP could pay up to \$75.00)

Caps refer to the amount provided by BCWP for equipment modification

The NRCS definition of reduced tillage and no-till will be used.

Level 1 75% Cost-share up to \$150.00 / row unit

Requirements

Participation in mentoring and/or education programs (sponsored by BCWP)

Chaff Spreader on Combine

No-till coulter

Level 2 75% Cost-share up to \$500.00 / row unit

Requirements

Participation in mentoring and/or education programs (sponsored by BCWP)

Chaff Spreader on Combine

No-till coulters

Row cleaners

Level 3 75% Cost-share up to \$750.00 / row unit

Requirements

Participation in mentoring and/or education programs (sponsored by BCWP)

Chaff Spreader on Combine

No-till coulters

Row cleaners

Buffers on 100% of streams and creeks

Level 4 75% Cost-share up to \$1000.00 / row unit

Requirements

Participation in mentoring and/or education programs (sponsored by BCWP)

Chaff Spreader on Combine

No-till coulters

Row cleaners

Buffers on 100% of streams and creeks

Split Nitrogen applications. (no fall applications - at least until stabilizers will work in this area)

Variable Rate P, K, and Lime applications

Busseron Creek Watershed
Precision Agriculture Technology Cost Share

Cost-share levels listed are for adoption of technology that is *new* to the operation.

(i.e. someone who has autosteer *could* apply for an autoswath upgrade)

75% Cost Share requires a 25% match. (i.e. for a \$100.00 item, BCWP could pay up to \$75.00)

Caps refer to the amount provided by BCWP for equipment modification

Level 1 30% Cost-share with \$750.00 cap

*Must comply with at least **one** of the following:*

100% No-till soybeans

Plant all draws to cover crops (no cost-share available for this practice)

Buffers on at least 50% of all streams and creeks

Level 2 30% Cost-share with \$1500.00 cap

*Must comply with at least **two** of the following:*

100% No-till soybeans

Plant all draws to cover crops (no cost-share available for this practice)

Buffers on at least 75% of all streams and creeks

Variable Rate Applications of P, K, and lime

Level 3 40% Cost-share with \$3000.00 cap

*Must comply with at least **three** of the following:*

100% No-till for commodity crops plus 100% cover crops for hort crops (melons, tomatos, seed corn, etc.)

Plant all draws to cover crops (no cost-share available for this practice)

Buffers on at least 75% of all streams and creeks

Variable Rate Applications of P, K, and lime

Split Nitrogen applications. (no fall applications - at least until stabilizers will work in this area)

Level 4 50% Cost-share with \$5000.00 cap

*Must comply with at least **four** of the following:*

100% No-till for commodity crops plus 100% cover crops for hort crops (melons, tomatos, seed corn, etc.)

100% grassed waterways on critical areas as determined by BCWP / SWCD Staff and/or NRCS Staff.

Buffers on at least 75% of all streams and creeks

Variable Rate Applications of P, K, and lime

Split Nitrogen applications. (no fall applications - at least until stabilizers will work in this area)

At least 10% of operation planted to cover crops

Level 5 75% Cost-share with \$10,000.00 cap

*Must comply with at least **four** of the following:*

100% No-till for commodity crops plus 100% cover crops for hort crops (melons, tomatos, seed corn, etc.)

100% grassed waterways on critical areas as determined by BCWP / SWCD Staff and/or NRCS Staff.

Buffers on at least 75% of all streams and creeks

Variable Rate Applications of P, K, and lime

Split Nitrogen applications. (no fall applications - at least until stabilizers will work in this area)

At least 10% of operation planted to cover crops

*In addition, must comply with at least **one** of the following:*

Proof of septic inspection and/or maintenance on all properties within watershed *and* for homestead

At least 25% of all roads buffered / eligible for Classified Filter Strip program.

COMMERCIAL APPLICATORS

50¢ / Acre Impacted by individual piece of equipment. \$10,000 cap

Ex: a sprayer that covers 10,000 acres / year would be eligible for \$5,000 in PA Cost-Share

Applies to any licensed commercial applicator (as determined by the Office of the Indiana State Chemist)

Must comply with the following:

Cost-share may not exceed 75%

Must be an upgrade to or addition of technology new to the facility.

Proof of septic inspection and/or maintenance on all facilities within the watershed

Provide chemical container recycling for clientel

Clients must abide by state and federal regulations - triple rinsed, labels removed, etc.

West Central Indiana Watershed Alliance - Busseron Creek Watershed
Cost-Share for Structures

- 75% Cost Share requires a 25% match (i.e. for a \$1000 item, the Watershed Alliance would pay up to \$750)
- Caps refer to the amount provided by the Watershed Alliance
- The NRCS definition of reduced tillage and no-till will be used.
- Structures must be located in areas of the watershed defined as critical in the Watershed Management Plan.
- 5-year cropping history is required for areas in which structures are to be installed

Level 1 – 30% Cost-share with **\$5,000** cap per FSA Farm Tract

*Must comply with at least **one** of the following on the FSA Farm No. associated with the structure installation:*

- 100% no-till soybeans
- Plant all draws to cover crops (no cost share available for this practice)
- Buffers on all streams and creeks

Level 2 – 30% Cost-share with **\$10,000** cap per FSA Farm Tract

*Must comply with at least **two** of the following on the FSA Farm No. associated with the structure installation:*

- 100% no-till soybeans
- Plant all draws to cover crops (no cost share available for this practice)
- Buffers on all streams and creeks
- Variable Rate Applications of P, K, and lime

Level 3 – 40% Cost-share with **\$20,000** cap per FSA Farm Tract

*Must comply with at least **three** of the following on the FSA Farm No. associated with the structure installation:*

- 100% no-till for commodity crops plus 100% cover crops for hort crops (melons, tomatoes, seed corn, etc)
- Plant all draws to cover crops (no cost share available for this practice)
- Buffers on all streams and creeks
- Variable Rate Applications of P, K, and lime
- Split Nitrogen applications (no fall applications)

Level 4 – 50% Cost-share with **\$25,000** cap per FSA Farm Tract

*Must comply with at least **four** of the following on the FSA Farm No. associated with the structure installation:*

- 100% no-till for commodity crops plus 100% cover crops for hort crops (melons, tomatoes, seed corn, etc)
- Plant all draws to cover crops (no cost share available for this practice)
- Buffers on all streams and creeks
- Variable Rate Applications of P, K, and lime
- Split Nitrogen applications (no fall applications)
- Cover crops on at least 50% of crop acreage

Level 5 – 75% Cost-share with **\$50,000** cap per FSA Farm Tract

*Must comply with at least **four** of the following on the FSA Farm No. associated with the structure installation:*

- 100% no-till for commodity crops plus 100% cover crops for hort crops (melons, tomatoes, seed corn, etc)
- Plant all draws to cover crops (no cost share available for this practice)
- Buffers on all of streams and creeks
- Variable Rate Applications of P, K, and lime
- Split Nitrogen applications (no fall applications)
- Cover crops on at least 50% of crop acreage

*In addition, must comply with at least **one** of the following:*

- Farm Owner's and Farm Operator's proof of septic inspection and/or maintenance on all properties located within the watershed and for Farm Operator's homestead, regardless of location.
- At least 25% of all Farm Operation's roads buffered / eligible for Classified Filter Strip program

Name	Tract	Busseron?	Program	Practice	Qty	Reductions - Busseron (7-187 Funded)				
						N lb/yr	P lb/yr	BOD lb/yr	Sediment T/yr	Herbicides lbs / yr
Bell, Mike	mult	Yes	319 7-187	Precision Ag	1	109.25				16.35
Bell, Mike	1637	Yes	319 305-1-	Cover Crops	124.1					
Bell, Mike	mult	No	CWI	Cover Crops	120.9					
Butler, Tim	mult	Yes	CWI	Cover Crops	50.09					
Feree, Brad	11547	Yes	CWI	Cover Crops	30.8					
Feree, Brad	mult	No	CWI	Cover Crops	268.5					
Horton, Curtis	mult	Yes	319 7-187	Precision Ag	1					21.67
Kirschner, Charlie	mult	Yes	319 7-187	Precision Ag	1					240.00
Lisman, Gertrude	1999	Yes	319 305-1-	Diversion	1040lf					
Lovelady, Roger	mult	Yes	319 7-187	Precision Ag	1					116.39
Lovelady, Roger	mult	Yes	319 305-1-	Cover Crops	301.06					
Lovelady, Roger	mult	No	CWI	Cover Crops	273.54					
McCammon, Steve	28110	Yes	319 7-187	Cover Crops	332.3	1,853.60	565.10	2,593.00	405.20	
Mann, Jeff	mult	Yes	319 7-187	Precision Ag	1					48.62
Mann's Melon & Grain	28758	Yes	CCPI	Irrigation Mgmt	29.8 ac					
Mann's Melon & Grain	28758	Yes	CCPI	Sprinkler Upgrade	29.8 ac					
Mann's Melon & Grain	1292	No	CCPI	Irrigation Mgmt	65.7 ac					
Mann's Melon & Grain	1292	No	CCPI	Sprinkler Upgrade	65.7 ac					
Mann's Melon & Grain	1415	No	CCPI	Irrigation Mgmt	113.6 ac					
Page, Brad	2037	No	CCPI	Irrigation Mgmt	173.3 ac					
Page, Brad	2037	No	CCPI	Sprinkler Upgrade	173.3 ac					
Page, Brad	2035	Yes	CCPI	Irrigation Mgmt	136.5 ac					
Page, Brad	2035	Yes	CCPI	Sprinkler Upgrade	136.5 ac					
Page, Brad	1260	No	CCPI	Irrigation Mgmt	129.8 ac					
Page, Brad	1260	No	CCPI	Sprinkler Upgrade	129.8 ac					
Page, Cullen	29863	Yes	CCPI	Irrigation Mgmt	153.9 ac					
Page, Cullen	29863	Yes	CCPI	Sprinkler Upgrade	153.9 ac					
Page, Cullen	mult	Yes	319 7-187	Cover Crops	388.9					
Page, Travis	984	Yes	CCPI	Irrigation Mgmt	165 ac					
Page, Travis	984	Yes	CCPI	Sprinkler Upgrade	165 ac					
Page, Travis	984	Yes	CCPI	Irr Check Valve	1					
Phegley, David	1437	Yes	CCPI	Irrigation Mgmt	98.5 ac					
Phegley, David	1437	Yes	CCPI	Sprinkler Upgrade	98.5 ac					
Phegley, David	1437	Yes	CCPI	Irr Check Valve	98.5 ac					
Phegley, David	1435	Yes	CCPI	Irrigation Mgmt	268.1 ac					
Phegley, David	1435	Yes	CCPI	Sprinkler Upgrade	268.1 ac					
Phegley, David	2402	No	CCPI	Irrigation Mgmt	63.8 ac					
Phegley, David	2402	No	CCPI	Sprinkler Upgrade	63.8 ac					
Ready, Gary	29155	Yes	319 7-187	WASCoBs, WW	4, 1	108.50	41.80	217.00	59.00	
Sullivan Park & Lake		Yes	319 7-187	Rain Garden	3.5					
Templeton, Chuck	1630	Yes	319 7-187	WASCoBs	4	1,238.00	488.40	2,335.10	364.90	
						3,200.10	1,095.30	5,145.10	829.10	426.68

Name	Tract	Busseron?	Program	Practice	Qty	Reductions - Busseron (Funded by other programs)				
						N lb/yr	P lb/yr	BOD lb/yr	Sediment T/yr	Herbicides lbs / yr
Bell, Mike	mult	Yes	319 7-187	Precision Ag	1					
Bell, Mike	1637	Yes	319 305-1-2	Cover Crops	124.1	2,064.00	675.90	3,237.10	505.80	
Bell, Mike	mult	No	CWI	Cover Crops	120.9					
Butler, Tim	mult	Yes	CWI	Cover Crops	50.09	426.80	141.90	685.70	107.10	
Feree, Brad	11547	Yes	CWI	Cover Crops	30.8	588.70	197.20	956.30	149.40	
Feree, Brad	mult	No	CWI	Cover Crops	268.5					
Horton, Curtis	mult	Yes	319 7-187	Precision Ag	1					
Kirschner, Charlie	mult	Yes	319 7-187	Precision Ag	1					
Lisman, Gertrude	1999	Yes	319 305-1-2	Diversion	1040lf	619.50	207.30	1,005.00	157.00	
Lovelady, Roger	mult	Yes	319 7-187	Precision Ag	1					
Lovelady, Roger	mult	Yes	319 305-1-2	Cover Crops	301.06	3,633.00	1,110.90	5,106.50	79.90	
Lovelady, Roger	mult	No	CWI	Cover Crops	273.54					
McCammon, Steve	28110	Yes	319 7-187	Cover Crops	332.3					
Mann, Jeff	mult	Yes	319 7-187	Precision Ag	1					
Mann's Melon & Grain	28758	Yes	CCPI	Irrigation Mgmt	29.8 ac	71.52			44.10	
Mann's Melon & Grain	28758	Yes	CCPI	Sprinkler Upgrade	29.8 ac					
Mann's Melon & Grain	1292	No	CCPI	Irrigation Mgmt	65.7 ac	157.68			52.84	
Mann's Melon & Grain	1292	No	CCPI	Sprinkler Upgrade	65.7 ac					
Mann's Melon & Grain	1415	No	CCPI	Irrigation Mgmt	113.6 ac	272.64			1,681.28	
Page, Brad	2037	No	CCPI	Irrigation Mgmt	173.3 ac	415.92			256.48	
Page, Brad	2037	No	CCPI	Sprinkler Upgrade	173.3 ac					
Page, Brad	2035	Yes	CCPI	Irrigation Mgmt	136.5 ac	327.60			202.02	
Page, Brad	2035	Yes	CCPI	Sprinkler Upgrade	136.5 ac					
Page, Brad	1260	No	CCPI	Irrigation Mgmt	129.8 ac	311.52			192.10	
Page, Brad	1260	No	CCPI	Sprinkler Upgrade	129.8 ac					
Page, Cullen	29863	Yes	CCPI	Irrigation Mgmt	153.9 ac					
Page, Cullen	29863	Yes	CCPI	Sprinkler Upgrade	153.9 ac					
Page, Cullen	mult	Yes	319 7-187	Cover Crops	388.9	4,540.30	1,375.80	6,288.50	982.60	
Page, Travis	984	Yes	CCPI	Irrigation Mgmt	165 ac	396.00			244.20	
Page, Travis	984	Yes	CCPI	Sprinkler Upgrade	165 ac					
Page, Travis	984	Yes	CCPI	Irr Check Valve	1					
Phegley, David	1437	Yes	CCPI	Irrigation Mgmt	98.5 ac	236.40			145.78	
Phegley, David	1437	Yes	CCPI	Sprinkler Upgrade	98.5 ac					
Phegley, David	1437	Yes	CCPI	Irr Check Valve	98.5 ac					
Phegley, David	1435	Yes	CCPI	Irrigation Mgmt	268.1 ac	643.44			396.79	
Phegley, David	1435	Yes	CCPI	Sprinkler Upgrade	268.1 ac					
Phegley, David	2402	No	CCPI	Irrigation Mgmt	63.8 ac	153.12			94.42	
Phegley, David	2402	No	CCPI	Sprinkler Upgrade	63.8 ac					
Ready, Gary	29155	Yes	319 7-187	WASCoBs, WW	4, 1					
Sullivan Park & Lake		Yes	319 7-187	Rain Garden	3.5					
Templeton, Chuck	1630	Yes	319 7-187	WASCoBs	4					
						14,065.64	3,447.40	16,021.00	5,095.22	-

Name	Tract	Busseron?	Program	Practice	Qty	Reductions - Other Areas				
						N	P	BOD	Sediment	Herbicides
						lb/yr	lb/yr	lb/yr	T/yr	lbs / yr
Bell, Mike	mult	Yes	319 7-187	Precision Ag	1	1,156.40				810.16
Bell, Mike	1637	Yes	319 305-1-2	Cover Crops	124.1					
Bell, Mike	mult	No	CWI	Cover Crops	120.9	2,016.00	660.50	3,164.00	494.40	
Butler, Tim	mult	Yes	CWI	Cover Crops	50.09					
Feree, Brad	11547	Yes	CWI	Cover Crops	30.8					
Feree, Brad	mult	No	CWI	Cover Crops	268.5	3,290.20	1,009.80	4,652.70	727.00	
Horton, Curtis	mult	Yes	319 7-187	Precision Ag	1					21.67
Kirschner, Charlie	mult	Yes	319 7-187	Precision Ag	1					
Lisman, Gertrude	1999	Yes	319 305-1-2	Diversion	1040lf					
Lovelady, Roger	mult	Yes	319 7-187	Precision Ag	1					330.75
Lovelady, Roger	mult	Yes	319 305-1-2	Cover Crops	301.06					
Lovelady, Roger	mult	No	CWI	Cover Crops	273.54	3,343.40	1,025.25	4,723.20	738.00	
McCammon, Steve	28110	Yes	319 7-187	Cover Crops	332.3					
Mann, Jeff	mult	Yes	319 7-187	Precision Ag	1					315.95
Mann's Melon & Grain	28758	Yes	CCPI	Irrigation Mgmt	29.8 ac					
Mann's Melon & Grain	28758	Yes	CCPI	Sprinkler Upgrade	29.8 ac					
Mann's Melon & Grain	1292	No	CCPI	Irrigation Mgmt	65.7 ac					
Mann's Melon & Grain	1292	No	CCPI	Sprinkler Upgrade	65.7 ac					
Mann's Melon & Grain	1415	No	CCPI	Irrigation Mgmt	113.6 ac					
Page, Brad	2037	No	CCPI	Irrigation Mgmt	173.3 ac					
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Page, Cullen	29863	Yes	CCPI	Irrigation Mgmt	153.9 ac					
Page, Cullen	29863	Yes	CCPI	Sprinkler Upgrade	153.9 ac					
Page, Cullen	mult	Yes	319 7-187	Cover Crops	388.9					
Page, Travis	984	Yes	CCPI	Irrigation Mgmt	165 ac					
Page, Travis	984	Yes	CCPI	Sprinkler Upgrade	165 ac					
Page, Travis	984	Yes	CCPI	Irr Check Valve	1					
Phegley, David	1437	Yes	CCPI	Irrigation Mgmt	98.5 ac					
Phegley, David	1437	Yes	CCPI	Sprinkler Upgrade	98.5 ac					
Phegley, David	1437	Yes	CCPI	Irr Check Valve	98.5 ac					
Phegley, David	1435	Yes	CCPI	Irrigation Mgmt	268.1 ac					
Phegley, David	1435	Yes	CCPI	Sprinkler Upgrade	268.1 ac					
Phegley, David	2402	No	CCPI	Irrigation Mgmt	63.8 ac					
Phegley, David	2402	No	CCPI	Sprinkler Upgrade	63.8 ac					
Ready, Gary	29155	Yes	319 7-187	WASCoBs, WW	4, 1					
Sullivan Park & Lake		Yes	319 7-187	Rain Garden	3.5					
Templeton, Chuck	1630	Yes	319 7-187	WASCoBs	4					
						8,649.60	2,695.55	12,539.90	1,959.40	668.37

C. DATA

See electronic documentation provided with this report.