

Brushy Creek Lake Watershed Development Grant Final Report

Date Received:

Project Title: Brushy Creek Lake Watershed Development Grant
District Submitting Application: Webster County SWCD
Contact Person: Douglas Seltz, Chair Christine Taliga, District Conservationist
1200 ½ 3rd Ave NW
Webster County, IA 50501

The Brushy Creek Lake Watershed Development Grant was funded in 2003 to complete assessments for the state-owned Brushy Lake watershed in Webster County, Iowa. The purpose of this grant was to assess these potential problems for the watershed with respect to water quality and to lay the basis for a comprehensive watershed protection plan. Assessments completed included compiling watershed characteristics (included location of drainage district boundaries, tile locations and outlets), landowner/operator directory, landowner/operator survey, compilation of historical data, GIS assessments including land cover, sediment delivery, and potential sheet/rill erosion. All funds provided by the development grant have been utilized for a technical assistant's salary. The assistant was employed from October 2003 through August 31, 2004, for 793.4 hours at \$ 11/hr plus employer's taxes. Webster County SWCD fulfilled all financial obligations for mailing materials.

The Watershed Development Grant efforts resulted in the following findings:

To compile the watershed characteristics tillage practices and residue levels were field inventoried in fall of 2003 and spring of 2004, (see photo, attachment #1). Iowa DNR utilized the data gathered by the technical assistant to develop a sheet and rill erosion model which predicted approximately 16,194 tons of sediment load delivered into the lake annually (see map, attachment 2). The tillage survey conducted in the fall of 2003 may not have accurately reflected the modeled soil erosion rates however, as residue levels after planting crops in the spring of 2004 may have been significantly lower than were originally estimated in the fall for the purpose of this model. In the spring of 2004, intensive tillage practices were noted in the watershed. As a result, during periods of high winds in the spring of 2004, severe wind erosion was noted in several areas of the watershed (see photos, attachment 3). Wind blown sediment may have the potential to also impact the sediment load the lake receives. Muck and Harps soils tend to be susceptible to wind erosion and approximately 6% of the watershed is compromised of these types of soils. Wind erosion, as may be seen in the referenced photo, may be a factor contributing to the overall sediment delivery of the lake, not included in the sediment delivery model. Also, wind erosion is a factor not considered in the RUSLE soil loss equation for Iowa. As a result of the combined factors of higher residue levels predicted during the fall tillage survey and the wind erosion potential, the attached Sheet and Rill erosion prediction model of an average of 1 ton/acre/year of soil loss may be a low prediction. A previous watershed analysis completed as part of a feasibility study conducted by Brice, Petrides Donohue Co. in 1988 estimated the average annual soil loss at 4 tons/acre/year.

Iowa DNR calculated the following land cover distributions for Brushy Lake Watershed based on fall of 2003 and spring of 2004 field observations. Agricultural operations comprise the majority of the land use activities in the watershed.

The table listed below provides information on land uses within the Brushy Creek Lake Watershed.¹

Land use	Acres	Percent of Total Area
Cropland	48,847	86.0%
Conservation Reserve Program	1,205 acres (Sign-up 14-present)	2.1%
Pasture/Grass	614	1.0%
Roads	1,760	3.0%
Forest/Shrub/Brush/Grass	149	0.2%
Farmstead/Urban/Commercial	1,254	2.2%
Lagoon	2	0%
Park/State Land (Pasture/Forest/Crop)	2311	4.1%
Water/River Corridor	774	1.4%
Total	56,916	100

About 2% of the acres (1,120) in the watershed are highly erodible ². The distribution of hydric soils in the Des Moines Lobe Surface in the Brushy Creek watershed indicate that nearly three-fourths of the upland areas (approximately 38,000 ²) consist of hydric soils. Hydric soils are also located along flood terraces and tributary valleys of Brushy Creek and include wooded and emergent types (approximately 3% ²). The predominant soil associations are Storden-Hayden-Wadena and Webster-Clarion-Nicollet. These soil associations comprise 100% of the soils within the watershed and represent the nearly level to gently sloping soils formed in uplands on glacial till and gently sloping to very steep soils of the Brushy Creek valley.

Average precipitation in the Brushy Creek Watershed area is approximately 30 inches per year. In an average season, about 40 inches of snow falls on Webster County. The average frost-free growing season is 152 days. The average frost-free growing season is 155 days.³

The Des Moines Lobe is the main landform region that can be found in the Brushy Creek Watershed area. The landscape of the Des Moines Lobe surface is nearly level and represents the deposits left by the last glacial advance into Iowa 12,000 to 14,000 years ago. This area is included within the prairie pothole region of North America which includes a vast area stretching from western Canada to southwestern Minnesota to north central Iowa. The Des Moines Lobe consists of moderate sediments over glacial drifts, which has resulted in mostly level ground moraines with well-connected semi-closed depressional drainage systems in the uplands, and the steep slopes of the river valleys in the floodplains.

According to land survey notes recorded by the General Land Office from the mid-1800's, the majority of the watershed consisted of prairie and marshes with the well-wooded Des Moines River Valley. "The Des Moines River Valley ... the sides of the valley are steep and well wooded from top to bottom. After ascending the sharp slope, however, the climber finds himself at once on the level prairie where often for miles he can see the stream as it flows through its V-shaped valley"⁴. Oak Savanna openings were especially prevalent along the lower, more heavily dissected reaches of Brushy Creek (Smith ⁵). Settlement of Webster County began about 1850 and with settlement the native vegetation was severely changed. Most of the prairie was converted to cropland, often requiring drainage tiles to remove excess soil moisture. Lowland prairies were too wet to crop and were utilized

¹ "Brushy Creek Watershed Assessment: Webster County SWCD, GIS data compiled from District field staff by IDNR." May 2004.

² Personal Communication with Area Soil Scientist, DNR GIS data.

³ "Environmental Impact Statement. Brushy Creek State Recreation Area." September 21, 1992.

⁴ Geology of Webster County, Geological Survey, 1901.

⁵ Smith, Daryl. Veg. Inventory Analysis of Brushy Creek State Rec. Area, 1981.

for grazing. The Oak Savanna areas were also used for grazing although smaller areas were cleared for cropland. The forest areas were logged and selectively used for timbered pastures resulting in a forest community with invasive tree and shrub species, drastically shading the understory of the forest floor significantly contributing to the present day erosion of the wooded valleys of the watershed. With the decline of fire many of the savanna areas became more densely populated with trees and in some instances were converted to forest.

Nearly all the farmers in the watershed participate in the USDA farm program, about 12% of which are required that there be a conservation plan on file. The results of the watershed assessment indicate that approximately one quarter of the farmers in the watershed already incorporate some sort of conservation tillage program into their farming operations, although may not have a current conservation plan. With some waterways and buffers already in place this project will target the remaining 37,000 acres to implement whole farm conservation plans.

According to the Farm Service Agency, the majority of the farmers follow a corn-bean rotation. Approximately, 90% of the cropland in the watershed is in a corn-bean cropping pattern. The remaining 10% of the farmers incorporate oats and meadow into the rotations for forage purposes, (see map, attachment #4).

According to the Iowa Department of Natural Resources, there are six permitted livestock facilities in the watershed, (see map, attachment #5). To date these operations currently do not appear to be adversely impacting the lake. The planned wetland restoration projects will be targeted to be strategically placed within the watershed as potential mitigation measures in the event a manure spill would occur.

As a result of the research conducted as a part of the Brushy Creek development grant 48 landowners with livestock were identified in the watershed. Hogs and Cattle comprise the 19 of the livestock operations in the watershed, 1 sheep operation, and 11 landowners with 5 or more horses, and one landowner with Llamas. The remainder of the landowners own recreational horses, (see photo, attachment #6).

The industrial waste of the Koch Nitrogen plant and the municipal waste sewage of the towns of Vincent and Duncombe may have the potential to adversely affect the water quality of the lake. However, at this time, there does not appear to be a water quality issue for the lake based on compliance with current state regulations, (see photos, attachment #7).

An advisory group comprised of land owners, operators, and conservation professionals located in the watershed has been formed as a result of this project. The advisory group strongly recommended submitting non-point source pollution prevention grants to provide funds to help protect the water quality of the Brushy Lake. As a result, an Iowa Water Quality/ Watershed Protection Project grant application was submitted to the Iowa Department of Agriculture and Land Stewardship to install demonstration best management practices in the Brushy Creek Lake Watershed and complete an information/education program with local landowners and operators. A Trees Forever VIEW planning grant was submitted and funded for the fall of 2004, and a Farm Bureau Non-Point Source Pollution Information/Education grant was submitted. Funding of demonstration practices along with the information/education outreach was determined to be critical action factor by the advisory board.

Thank you for the opportunity to gather the assessment data and develop the foundation of a watershed protection plan.

Respectfully submitted,

TJ Lynn, Technical Assistant for the Brushy Creek Lake Watershed Project

IOWA WATER QUALITY/WATERSHED PROTECTION PROJECT APPLICATION

Application Number: _____

Date Received: _____

Project Title: Brushy Creek Lake Watershed Project
District Submitting Application: Webster County SWCD
Contact Person: Douglas Seltz, Chair
1200 ½ 3rd Ave NW
Webster County, IA 50501

Total Funding Requested for the Life of the Project: \$255,753

Project Executive Summary:

Description of Problem to be Addressed and Nonpoint Pollution Sources:

The Brushy Lake Watershed is located in the southeastern part of Webster County five miles south of Duncombe. It is situated between Webster City, fifteen miles to the northeast, and, Fort Dodge, fifteen miles northwest and serves an 11-county area within a 50-mile driving distance. The lake has a surface area of 690 acres and drains 57,000 acres.

Brushy Creek Lake is a relatively new state-owned lake, the construction of which was completed in 1998. The 690 acre lake was specifically created to address a shortage of recreational and fishing opportunities in this area. The 57,000 acre lake watershed is compromised mostly of level and intensively farmed cropland. It is currently considered one of the cleanest lakes in Iowa primarily because of its recent construction. Sediment and the associated nutrients and pesticides have not had time to build up in the storage area of the lake. Given the size of the watershed, long-term consideration needs to be given to sediment and nutrient delivery and the inevitable problems associated with such a watershed to lake ratio.

As noted in the description the watershed is almost all cropland. While relatively flat, the area is also extensively drained which creates the possibility of accelerated delivery of water borne contaminants. Nitrates and Phosphorous are especially a concern in most North Central Iowa watersheds and there is no reason to believe that Brushy Creek is an exception.

The other major area of concern is the presence of 6 state identified animal feeding operations (AFOs) in the watershed, some within 2-3 miles of the lake. In this area of Iowa, the future addition of more units is always a possibility. The location of these facilities coupled with extensive subsurface drainage systems throughout the area creates a real likelihood of potential contamination of the lake from nutrients, pesticides, fecal matter, or a combination of all three. Agricultural manufacturing may also pose a potential risk to the watershed. An anhydrous ammonia manufacturing plant centrally located in the watershed may pose a direct threat to the lake in the event of an accident.

Given the purpose of the lake, the above-mentioned contamination could be both environmentally and economically devastating to the surrounding area. According to the Iowa DNR, Brushy Creek logs over 521,800 visitors a year with daily spending estimated to be \$13 per person for a total estimated annual expenditure of six million dollars. Using a conservative multiplier of 3 for economic impact, the economic impact of the recreation area is 18 million dollars. A manure spill or increases in nutrients by some other accidental means could cause both short and long term disruptions of fishing, swimming or boating which would reduce or eliminate the positive economic benefits noted above.

Description of Proposed Project Activities, Schedule, Best Management Practices, and Budget

We are requesting funds for a three-year time period. Listed below are some of the major project activities we will accomplish during the project:

- Establish a Watershed Advisory Board consisting of local DNR staff, residents, landowners, conservation groups, local business, and representative from the local SWCD, etc.
- Implement an information and education program (including field days, informational meetings, educational programs, and signs that feature the watershed and demonstration sites, etc.).
- Establish demonstration sites on agricultural and industrial land within the watershed to feature best management practices.
- Provide cost-share incentives to assist with the cost of installing best management practices.
- Partner with extension and local businesses to establish demonstration sites that focus on proper nutrient and pest management for cropland and pastures.
- Partner with IDNR and Webster County conservation to establish demonstration sites that focus on invasive species control and woodland/oak savanna restoration techniques.
- Create a water quality monitoring program to be implemented by IOWATER trained volunteers.

Proposed Cost-Share Practices:

- Animal Waste Livestock Facilities
- Conservation Buffers
- Grade Stabilization Structures
- Grass Waterways
- Conservation Cover/ Vegetation Demonstrations
- Forest Stand Improvement
- Nutrient and Pest Management
- Rotational Grazing/Pasture Management
- Stream Bank Stabilization
- Total Resource Management (whole farm planning)
- Tree and Shrub Plantings
- Wetland Restoration
- Prescribed Burn Implementation

Budget Information:

The Koch nitrogen plant has indicated a willingness to seek matching funds for innovative storm water conservation treatment systems. Trees Forever has indicated a willingness to provide \$2,000.00 toward the implementation of conservation practices in the watershed. The Webster County Soil and Water Conservation District has pledged \$2,500.00 for staffing needs and supplies. Partners will also help develop and enact educational programs. The local county work group task force, in charge of prioritizing federal program cost-share funds such as EQIP, WHIP, has already designated the Brushy Creek watershed area as a priority area, with a minimum of 50% cost-share funds covered for most of the conservation practices designated above, therefore Water Protection Funds (WPF) cost-share dollars could be utilized to add to these federal dollars to provide 75% to 85% cost-share incentives for most of these practices. CREP and CRP will also be utilized to the maximum extent possible to implement the conservation systems denoted above. The Iowa DNR private lands biologist has also indicated that he would be willing to help solicit contributions from local groups, such as Friends of Brushy Creek, to help match installation costs of some of the conservation practices. Webster County Conservation and Iowa State Extension service will also help develop and enact educational programs. We request 319 and WPF for staffing, travel and training budget for the project coordinator, information and education activities, and cost-share incentives to work in the upstream areas that drain into the lake.

	Type of Funding	Requested Funds
Personnel and Fringe Benefits for 3 years	(WPF)	\$159,753
Indirect Costs	(WPF)	\$ 35,250
Travel and Training for 3 years	(WPF)	\$ 4,500
Financial Cost-Share Incentives	(WPF)	\$ 45,000
Contractual Agreement for 3 years	(319)	\$ 6,000
Information and Education Activities	(319)	\$ 4,500
Supplies	(319)/WPF	\$ 750
TOTAL		\$255,753

Description of Methods to Measure Progress and Accomplishments of Project:

We will use the following methods to measure progress during the project's life and its overall accomplishments:

- Monthly, quarterly, and annual reports
- Annual Review project meetings
- Feedback from Advisory Board
- Participation in field days, informational meetings, and educational programs
- Evaluations issued at educational programs
- Number of best management practices installed

This application has been reviewed and approved by a motion at the April 2004 meeting of the Webster County Soil and Water Conservation District Commissioners. Discussion and actions taken appear in the official minutes on file in the district office.

_____, District Chair

Part I. Background Information

A. Water Resources and Related Problems:

The Brushy Lake Watershed is located in the southeastern part of Webster County five miles south of Duncombe. It is situated between Webster City, fifteen miles to the northeast, and, Fort Dodge, fifteen miles northwest and serves an 11-county area within a 50-mile driving distance. The lake has a surface area of 690 acres and drains 57,000 acres. The Iowa Department of Natural Resources is responsible for managing the lake and park.

Brushy Creek Lake is a relatively new state-owned lake the construction of which was completed in 1998. The 690 acre lake was created specifically to address a shortage of recreational and fishing opportunities in the area. The lake watershed is approximately 57,000 acres in size; with the land use comprised largely of relatively level and intensively farmed cropland. It is currently considered one of the cleanest lakes in Iowa primarily because of its recent construction. Sediment and the associated nutrients and pesticides have not had time to build up in the storage area of the lake. Given the size of the watershed, long-term consideration needs to be given to sediment and nutrient delivery and the inevitable problems associated with such a large watershed-to-lake ratio.

Brushy Creek watershed contains 108 square miles of land. The towns of Duncombe (population 488) and Vincent (population 158) are the only population centers within the watershed. Brushy Creek is a tributary of the Des Moines River in Iowa. The Des Moines River Basin extends from southeastern Minnesota across central Iowa to the southeastern part of Iowa. This river is a part of the Upper Mississippi River Basin. The Brushy Creek watershed is located in central Iowa four miles east of Fort Dodge. It is located primarily in northeastern Webster County, with a small area in northwestern Hamilton County.

The majority of the watershed is flat upland, with the exception of the Brushy Creek flood plain. The majority of the watershed is very intensively farmed. The southern part of the watershed is a combination of small fields, timber, and brushy ravines along the creek. In the southernmost area of the watershed, the topography adjacent to Brushy Creek is very rugged, with steep slopes (greater than 20 percent) adjacent to the flood plain. 98% of the cropland acres are considered Non Highly Erodible (NHEL) farmland, therefore intensive tillage systems are utilized, as conservation tillage is not required for NHEL farmland to remain eligible for farm program payments. Even though conservation plans are not required for NHEL farmland approximately 20% of the cropland acres have an active conservation plan in place as a result of current participation in conservation programs.

As noted in the description, and evident on the attached map, the watershed is 86% cropland. While relatively flat, the area is also extensively drained which creates the possibility of accelerated delivery of water borne contaminants. Nitrates and phosphorous are especially a concern in most North Central Iowa watersheds and there is no reason to believe that Brushy Creek is an exception.

The other major area of concern is the presence of 6 state identified animal feeding operations (AFOs) in the watershed, some with in 2-3 miles, see map. In this area in Iowa, the future addition of more units is always a possibility. The location of these facilities coupled with the subsurface drainage system creates a real likelihood of potential contamination of the lake from nutrients, pesticides, fecal matter or a combination of all three.

Given the purpose of the lake, the above-mentioned contamination could be both environmentally and economically devastating to the surrounding area. The lake is considered to be one of the top three lakes for fishing in the state of Iowa. In 2003 fishing alone, contributed \$750,000 to the local economy. DNR Park administrative staff estimates that the annual half million park users provide another \$1/4 of a million in revenue. Public uses of the park and lake include fishing, swimming, boating, equestrian and non-equestrian camping, picnicking, hunting and shooting ranges, and ice-skating with multi-use trails for hiking, snowmobiling, horse-back

riding. A manure or industrial spill or increases in nutrients could cause both short and long term disruptions of fishing, swimming or boating which would reduce or eliminate the positive economic benefits noted above.

Brushy Creek Lake is not listed in the 303(d) list for the State of Iowa and the main objective of this watershed protection project will be to implement critical conservation practices as a precautionary measure to ensure Brushy Lake will remain off this list in the future. The managers of Brushy Creek State Recreation area have indicated a willingness to help promote the application of conservation tillage practices and nutrient and pest management practices on the approximately 1,200 acres of state-owned cropland.

B. Current Level of Pollutant Loading:

As a result of the Brushy Creek Watershed Development grant efforts, a 2004 sheet and rill erosion model predicted approximately 16,194 tons of sediment load delivered into the lake annually. The tillage survey conducted in the fall of 2003 may not accurately reflect the soil erosion rates, as residue levels after planting crops in the spring of 2004 may be significantly lower than estimated for the purpose of this model. In the spring of 2004, intensive tillage practices were noted in the watershed and especially during periods of high winds as was exemplified by severe wind erosion noted this spring during two particular strong wind storms in April and May (see attached photo, page 3). Wind blown sediment may have the potential to also impact the sediment load the lake receives. Muck and Harps soils tend to be susceptible to wind erosion and approximately 6% of the watershed is comprised of these types of soils. Wind erosion, as may be seen in the referenced photo, may be a factor contributing to the overall sediment delivery of the lake, not included in the sediment delivery model. Also, wind erosion is a factor not considered in the RUSLE soil loss equation for Iowa. As a result of the combined factors of higher residue levels predicted during the tillage survey and the wind erosion potential, the attached Sheet and Rill erosion prediction model of an average of 1 ton/acre/year of soil loss may be a low prediction. A previous watershed analysis completed as part of a feasibility study conducted by Brice, Petrides Donohue Co. in 1988 estimated the average annual soil loss at 4 tons/acre/year.

Another major effort to determine pollution loading for this watershed will be working with Webster County Conservation and IOWATER to develop a water monitoring program. Webster County Conservation is currently in the process of working with the Webster County SWCD to begin implementation of such a program in the watershed.

The District is also working closely with the Webster County Sanitarian to identify improperly functioning household septic systems in the watershed, educational outreach efforts are planned to identify such households in the watershed.

The District is also currently in the process of utilizing the Gully Erosion Prediction model to calculate sediment loading from gully erosion in the watershed.

C. Watershed Characteristics:

- **Land use within the watershed**

Agricultural operations comprise the majority of the land use activities in the watershed.

The table listed below provides information on land uses within the Brushy Creek Lake Watershed.¹

Land use	Acres	Percent of Total Area
Cropland	48,847	86.0%
Conservation Reserve Program	1,205 acres (Sign-up 14-present)	2.1%
Pasture/Grass	614	1.0%
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Lagoon	2	0%
Park/State Land (Pasture/Forest/Crop)	2311	4.1%
Water/River Corridor	774	1.4%
Total	56,916	100

- **Soils**

About 2% of the acres (1,120) in the watershed are highly erodible². The distribution of hydric soils in the Des Moines Lobe Surface in the Brushy Creek watershed indicate that nearly three-fourths of the upland areas (approximately 38,000²) consist of hydric soils. Hydric soils are also located along flood terraces and tributary valleys of Brushy Creek and include wooded and emergent types (approximately 3%²). The predominant soil associations are Storden-Hayden-Wadena and Webster-Clarion-Nicollet. These soil associations comprise 100% of the soils within the watershed and represent the nearly level to gently sloping soils formed in uplands on glacial till and gently sloping to very steep soils of the Brushy Creek valley.

- **Climatic conditions**

Average precipitation in the Brushy Creek Watershed area is approximately 30 inches per year. In an average season, about 40 inches of snow falls on Webster County. The average frost-free growing season is 152 days. The average frost-free growing season is 155 days.³

- **Geologic characteristics**

The Des Moines Lobe is the main landform region that can be found in the Brushy Creek Watershed area. The landscape of the Des Moines Lobe surface is nearly level and represents the deposits left by the last glacial advance into Iowa 12,000 to 14,000 years ago. This area is included within the prairie pothole region of North America which includes a vast area stretching from western Canada to southwestern Minnesota to north central Iowa. The Des Moines Lobe consists of moderate sediments over glacial drifts, which has resulted in mostly level ground moraines with well-connected semi-closed depressional drainage systems in the uplands, and the steep slopes of the river valleys in the floodplains.

- **Historical vegetative classifications**

According to land survey notes recorded by the General Land Office from the mid-1800's, the majority of the watershed consisted of prairie and marshes with the well-wooded Des Moines River Valley. "The Des Moines River Valley ... the sides of the valley are steep and well wooded from top to bottom. After ascending the sharp slope, however, the climber finds himself at once on the level prairie where often for miles he can see the stream as it flows through its V-shaped valley"⁴. Oak Savanna openings were especially prevalent along the lower, more

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heavily dissected reaches of Brushy Creek (Smith ⁵). Settlement of Webster County began about 1850 and with settlement the native vegetation was severely changed. Most of the prairie was converted to cropland, often requiring drainage tiles to remove excess soil moisture. Lowland prairies were too wet to crop and were utilized for grazing. The Oak Savanna areas were also used for grazing although smaller areas were cleared for cropland. The forest areas were logged and selectively used for timbered pastures resulting in a forest community with invasive tree and shrub species, drastically shading the understory of the forest floor significantly contributing to the present day erosion of the wooded valleys of the watershed. With the decline of fire many of the savanna areas became more densely populated with trees and in some instances were converted to forest.

- **Typical cropping patterns and management practices**

Nearly all the farmers in the watershed participate in the USDA farm program, about 12% of which are required that there be a conservation plan on file. The results of the watershed assessment indicate that approximately one quarter of the farmers in the watershed already incorporate some sort of conservation tillage program into their farming operations, although may not have a current conservation plan. With some waterways and buffers already in place this project will target the remaining 37,000 acres to implement whole farm conservation plans.

According to the Farm Service Agency, the majority of the farmers follow a corn-bean rotation. Approximately, 90% of the cropland in the watershed is in a corn-bean cropping pattern. The remaining 10% of the farmers incorporate oats and meadow into the rotations for forage purposes.

- **Livestock information for Brushy Creek Lake Watershed:**

As a result of the research conducted as a part of the Brushy Creek development grant 48 landowners with livestock were identified in the watershed. Hogs and Cattle comprise the 19 of the livestock operations in the watershed, 1 sheep operation, and 11 landowners with 5 or more horses, and one landowner with Lamas. The remainder of the landowners own recreational horses.

According to the Iowa Department of Natural Resources, there are six permitted livestock facilities in the watershed. To date these operations currently do not appear to be adversely impacting the lake. The planned wetland restoration projects will be targeted to be strategically placed within the watershed as potential mitigation measures in the event a manure spill would occur.

- **Non-agricultural sources:**

The industrial waste of the Koch Nitrogen plant and the municipal waste sewage of the towns of Vincent and Duncombe may have the potential to adversely affect the water quality of the lake. However, at this time, there does not appear to be a water quality issue for the lake based on compliance with current state regulations.

C. Practices Needed to Protect Water Quality:

There are a variety of practices that are needed in the Brushy Creek Lake watershed to ensure the long term water quality of the lake. Initially, we will prioritize practice installation with those agricultural and rural landowners who are located within close proximity to the lake. Then, we will focus our efforts on working with the landowners located further upstream in the watershed. Below is a listing of the practices that we will be working with landowners to install:

- Animal Waste Facilities
- Conservation Buffers
- Grade Stabilization Structures
- Grassed Waterways
- Nutrient and Pest Management

- Rotational Grazing/Pasture Management
- Stream bank Stabilization
- Total Resource Management (whole farm planning)
- Tree and Shrub Plantings
- Conservation Cover/Vegetation Demonstrations
- Wetland Restoration
- Forest Stand Improvement
- Prescribed Burn Management

Part II. Water Quality Protection Plan

Project Goals and Objectives:

There are four main goals of the Brushy Creek Lake Watershed Project. The first goal will be to develop an ongoing education program with landowners, homeowners, developers, engineering firms on the planning, design, and implementation of best management practice systems and sound land use planning to reduce erosion and nonpoint runoff in order to improve water quality. The second goal will be to administer and implement all activities and objectives in the project. The third goal will be to provide technical assistance to the above groups. The fourth goal will be to evaluate and measure the success of the project.

Listed below are some of the objectives of the project:

- Create a project brochure highlighting the watershed and discussing water quality needs and solutions.
- Promote the implementation of best management practices through information and education programs.
- Establish and work with demonstration sites to provide training on the planning, design, and implementation of best management practice systems and sound land use planning to improve water quality.
- Provide technical assistance on the planning, design, and implementation of best management practice systems and sound land use planning to improve water quality.
- Establish water quality monitoring program to be implemented by IOWATER trained volunteers.
- Measure and evaluate the success of the project through information and education activities, participation of the public, and installation of best management practices.
- Utilize GIS and GPS technologies to identify practice locations and load reductions.

Project Description:

Our project will be coordinated by an environmental specialist who will work through the Webster County Soil and Water Conservation District. A project advisory board will be convened to assist the District in completing the objectives and goals of the project.

A major activity of the project will be to individually work with landowners, homeowners, developers, engineering firms on the planning, design, and implementation of best management practice systems and sound land use planning to reduce erosion and nonpoint runoff in order to improve water quality. As a component of the Watershed Development grant research a survey was sent to 350 landowners in the watershed soliciting input on perceived resource concerns and the need for implementing best management practices to date approximately 55 respondents returned the survey expressing interest in implementing many of the following conservation practices.

We anticipate the following quantities of best management practices will be installed:

- 75% of all stream segments will have riparian buffers or filter strips installed, approximately 1,500 acres trapping sediments and reducing the delivery of nutrients to the lake.
- 21 wetlands targeted at priority areas such as sites adjacent to creeks, drainage ditches, and tile intakes, controlling 2,000 acres of associated sediments and nutrients
- 2-3 animal waste facilities
- 18 acres of targeted waterways, controlling approximately 2,000 acres of sediments and nutrients
- 18,000 acres of nutrient and pest management planned
- 6 grade stabilization structures, controlling approximately 1,200 acres of sediments and nutrients
- 6 water and sediment control basins, controlling approximately 1,200 acres of sediments and nutrients
- 18,000 acres of whole farm planning, promoting minimum till options, windbreaks, nutrient and pest management
- 75 acres of pasture management/rotational grazing
- 1000 feet of stream bank stabilization, resulting in preventing 19 tons sediment coming from stream bank erosion.
- 20 acres of tree and shrub plantings will help control wind erosion.
- 20 acres of conservation cover/vegetative demonstrations will target tile intake areas for maximum water quality benefit.
- 200 acres of Forest Stand Improvement utilizing invasive species eradication and prescribed burn implementation primarily for herbaceous understory restoration. This will increase water infiltration and reduce erosion over 200 acres.

To encourage the installation of best management practices, we will offer 50% cost-share to landowners through federal and state cost-share dollars and plan to utilize WPF funds to offer an additional 25% cost-share incentive.

With the assistance of our partners, we will also be organizing numerous workshops, conferences, and field days for residents and businesses within the watershed. Over the three years of the project, we will offer 6 workshop sessions and 6 tours and field days. Water quality and best management practice information will be distributed at the workshop sessions and field days.

We will submit newsletter articles and informational materials regarding the Brushy Creek Water Quality project to the local news media (Fort Dodge Messenger, and Farm News), radio station, and project partner's newsletters. A photograph log of the project will be developed in order to demonstrate before, during, and after scenarios, and will be geo-referenced utilizing GPS technology. From the photographic log, slide shows will be created to use during workshops, conferences, and field days. We will develop a watershed brochure to distribute to the public.

We will also develop 6 demonstration sites. We will partner with the Webster County ISU Extension Office, Webster County Conservation, and DNR staff to establish 6 demonstration sites.

Webster County Extension and the local partners will help establish three demonstration plots with local producers participating in nutrient and pest management in 2005, 2006, and 2007. Regular soil tests will be conducted combined with crop scouting and late spring soil nitrate tests, end of season stalk tests, and harvesting yields. One year, one test plot will also incorporate livestock manure while another year one test plot will incorporate commercial fertilizer. Information from these plots, as other plots in the central Iowa area, will be used in educational programs with the producers in the Brushy Creek Lake watershed. The two workshops will involve three fall field days.

Webster County Conservation, IDNR Private Lands Biologist, and the District will help establish three demonstration sites that feature Best Management Practices in the watershed including methods of incorporating invasive species control in forest, wetland, and oak savannas, to reduce soil erosion as a best management practice to improve water quality. The demonstration sites will target one cropland and wetland site, one forestland site, and one oak savanna site. The demonstrations will showcase how invasive species control renovates the herbaceous vegetation of forests, wetlands, and oak savannas, thereby increasing infiltration

capability of the site, reducing soil erosion, and increasing water quality. One educational program will involve an early summer field day to highlight the demonstration projects. Webster County Conservation, Webster County Extension, and the District will also help to organize and sponsor two workshops on conservation buffers and whole farm conservation plan development for residents and businesses in the watershed. The educational programs will include of 2 fall field days. We will also work to develop some publication handouts that feature the BMP's implemented in the watershed and the resulting positive impacts on the lakes water quality.

We will also partner with the Webster County Department of Public Health to organize and sponsor one workshop on proper maintenance and installation of septic systems to ensure that septic systems that are installed in the watershed do not negatively impact the water quality. Landowners will be made aware of the states low interest loan program geared toward these types of projects to update septic systems.

GIS will be utilized as an educational and analytical tool to effectively communicate watershed management to the residents and businesses within the watershed. We will also utilize GIS to conduct some simple modeling and load reductions for practices installed.

We will partner with Karen Hanson with the Webster County Conservation to conduct water quality monitoring through the IOWATER program, we will work with 2 local schools, and local IOWATER volunteers, throughout project. We will also partner with the Geological Survey Bureau and Iowa State University to collect water quality monitoring data from the sampling they will be doing at Brushy Lake.

Link to the Iowa Nonpoint Source Management Program:

The Brushy Lake Watershed project is directly linked to several of the priorities established in the Iowa Nonpoint Source Management Plan. As stated above Brushy Lake represents a publicly owned lake with a significant and important regional significance to the area. Contamination could be both environmentally and economically devastating to the surrounding area. The main objective of this project is to lay the foundation to keep the Lake of the states 303(d) list of impaired waterbodies. The lake is considered to be one of the top three lakes for fishing in the state of Iowa. In 2003 fishing alone, contributed \$750,000 to the local economy. DNR Park administrative staff estimates that the half million park users provide another \$1/4 of a million in revenue annually.

Another link to the Iowa Nonpoint Source Management Plan involves our partnership with Webster County Conservation to conduct water quality monitoring samples through IOWATER. We will also be working with Webster County ISU Extension and Organic Matters to establish demonstration sites that inform residents and businesses in the watershed of the benefits of soil and water best management practices.

Schedule:

YEAR 1

Action	By Whom	By When
Hire Staff	Commissioners/DSC	10/01/04
Complete Training Needs Assessment of ES	District Conservationist (DC)	10/15/04
Conduct a watershed mailing and news release regarding Water Quality Project	ES	10/30/04
Hold Advisory Board Meeting	Commissioners/DC/ES	10/30/04
Establish 1 st Test Plot	Webster County ISU Extension	10/30/04

Water Quality Monitoring	Webster County Conservation	10/30/04
Develop Annual Work Plan	ES/Project Partners	10/30/04
Monthly Report	ES	11/15/04
Follow-up with lo's interested in ag waste systems	ES	11/15/04
Watershed Meeting for all residents and businesses within watershed	Commissioners/DC/ES	11/30/04
Water Quality Monitoring	Webster County Conservation	11/30/04
Develop Project Brochure and write news article	ES	11/30/04
Monthly Report	ES	12/15/04
Conduct field visits for whole farm conservation plans & develop plans	ES	12/15/04
Monthly and Quarterly Report	ES	1/15/05
Plan and design conservation buffers, ww's, tree plantings	ES	1/5/05
Survey and Design Wetland Projects	ES/NRCS	1/15/05
Septic System Program, 1 st Workshop	Webster County Health Department	2/15/05
Monthly Report	ES	2/15/05
Monthly Report	ES	3/15/05
Plan waterways and conservation buffers	ES/NRCS	3/15/04
Establish 1 st , 2 nd , and 3 rd Test Plots	Webster County Conservation, IDNR Forester, W.Co.Extension	4/15/05
Monthly and Quarterly Report	ES	4/15/05
Water Quality Monitoring	Webster County Conservation	5/15/05
Monthly Report	ES	5/15/05
Monthly Report	ES	6/15/05
Monthly and Quarterly Report	ES	7/15/05
Monthly Report	ES	8/15/05
1 st Field Day	ES	8/15/05
Monthly Report	ES	9/15/05
Establish 1 st BMP Demonstration Site	Webster County Conservation	9/30/05
Annual Review	Commissioners/ES	9/30/05
2 nd Field Day	Webster County Conservation, IDNR staff, W.Co.Extension	9/30/05
Water Quality Monitoring	Webster County Conservation	9/30/05
Monthly, Quarterly, and Annual Report	ES	10/15/05

YEAR 2

Action	By Whom	By When
Water Quality Monitoring	Webster County Conservation	11/15/05
Monthly Report	ES	11/15/05
Conduct whole farm conservation plans	ES	11/15/05
Monthly Report	ES	12/15/05
Plan buffers and ag waste projects	ES/NRCS	12/15/05
Monthly and Quarterly Report	ES	1/15/06
Watershed Meeting for all residents and businesses within	Commissioners/DC/ES	2/15/06

the watershed		
Monthly Report	ES	2/15/06
Develop Nut & Pest Mngmt Plans	ES	2/15/06
Monthly Report	ES	3/15/06
Plan implementation of water ways and tree plantings	ES	3/15/06
Establish 3 rd BMP Demonstration Site	Webster County Conservation	3/15/06
3 rd Field day, tour of BMP's	Webster County Conservation, IDNR Forester, W.Co.Extension	4/15/06
Water Quality Monitoring	Webster County Conservation	4/15/06
Monthly and Quarterly Report	ES	4/15/06
Water Quality Monitoring	Webster County Conservation	5/15/06
2 nd Workshop, BMP's	Webster County Conservation, IDNR Forester, W.Co.Extension	5/15/06
Develop informational materials on BMP's and news article	Webster County Conservation, IDNR Forester, W.Co.Extension	5/15/06
Monthly Report	ES	5/15/06
Monthly Report	ES	6/15/06
3 rd Workshop, Nut. & Pest Mngmt	Webster County Conservation, IDNR Forester, W.Co.Extension	6/15/04
Monthly and Quarterly Report	ES	7/15/06
4 th Field Day, Nut. & Pest Mgmt	Webster County Conservation, IDNR Forester, W.Co.Extension	7/15/04
Monthly Report	ES	8/15/06
Monthly Report	ES	9/15/06
Water Quality Monitoring	Webster County Conservation	9/30/06
Annual Review	Commissioners/ES	9/30/06
4 th Work Shop, Nut. & Pest Mngmt	Webster County Conservation, IDNR Forester, W.Co.Extension	9/30/04
Monthly, Quarterly, and Annual Report	ES	10/15/06
Water Quality Monitoring	Webster County Conservation	10/15/06
5 th Field Day	Webster County ISU Extension	10/30/06

YEAR 3

Action	By Whom	By When
Monthly Report	ES	11/15/06
Monthly Report	ES	12/15/06
Plan whole farm conservation plans	ES	12/15/06
Monthly and Quarterly Report	ES	1/15/07
Monthly Report	ES	2/15/07
Develop nut. & pest mngmt plans	ES	2/15/07
Planning conservation buffers, tree plantings, and ww's	ES	2/1/07
Monthly Report	ES	3/15/07
Water Quality Monitoring	Webster County Conservation	4/15/07
5 th workshop, Nut. & Pest mngmt	Webster County Conservation, IDNR Forester, W.Co.Extension	4/15/07
Monthly and Quarterly Report	ES	4/15/07

Water Quality Monitoring	Webster County Conservation	5/15/07
Monthly Report	ES	5/15/07
Conservation Buffers and wetlands planning	ES	5/15/07
Monthly Report	ES	6/15/07
Monthly and Quarterly Report	ES	7/15/07
Monthly Report	ES	8/15/07
Monthly Report	ES	9/15/07
Water Quality Monitoring	Webster County Conservation	9/30/07
Annual Review	ES	9/30/07
6 th Workshop, Whole farm conservation planning	Webster County Conservation, IDNR Forester, W.Co.Extension	9/30/07
6 th Field Day	Webster County ISU Extension	9/30/07
Monthly, Quarterly, and Final Report	ES	10/15/07

Measures of Success and Evaluation Mechanisms:

We will be able to measure our success by the number of people, municipalities, organizations, and others who participate in the project and by the number of best management practices that are installed. Before, during, and after photos will be taken to visually document watershed improvements. Another method of evaluation will be through the completion of quarterly and annual project reports and reviews. The reports and reviews will be a helpful evaluation tool as we proceed with activities throughout the year. We will utilize GIS to identify load reductions and practice location utilizing GIS technologies.

The following impacts as a result of BMP installation will also be utilized as a measure of success for this project.

- Completion of the installation of 75% of all stream and drainage ditch segments will have riparian buffers or filter strips installed, trapping sediments over 1,500 acres reducing nutrient and sediment loading to the lake.
- Completion of 21 wetland creations and restorations approximately 20 acres each, controlling 2,000 acres of associated sediments and nutrients
- Installation of 2-3 animal waste facilities, protecting water quality from outdated systems and potential spills
- 18 acres of targeted waterways, treating 2000 acres of watershed
- 18,000 acres of nutrient and pest management planned
- 6 grade stabilization structures, controlling approximately 1,200 acres of sediments and nutrients
- 6 water and sediment control basins, controlling approximately 1,200 acres of sediments and nutrients
- 18,000 acres of whole farm planning
- 75 acres of pasture management/rotational grazing
- 1000 feet of stream bank stabilization, resulting in 19 tons sediment coming from stream bank erosion.
- 20 acres of tree and shrub plantings
- 20 acres of conservation cover/vegetative demonstration
- 200 acres of Forest Stand Improvement utilizing invasive species eradication and prescribed burn implementation primarily for herbaceous understory restoration, increasing infiltration and preventing soil erosion, protecting the water quality of the lake.

It is predicted that these BMP's will lower the annual sediment load of the lake by approximately 8,000 tons/acre annually.

Participating Agencies and Organizations:

The Webster County Soil and Water Conservation District will have the responsibility for overall administration of the Brushy Creek Lake Watershed Project. We will use a combination of Environmental Protection Agency's Section 319 and the Iowa Division of Soil Conservation's Water Protection Funds to implement the project.

Significant contributions of time, labor, supplies, and equipment will be made by supporters from the local agencies, landowners, and businesses in the private sector. The Webster County Conservation has pledged \$6000 of in-kind contributions including staffing, supplies, and materials to establish test-plots with watershed producers and conduct 6 field days. The Webster County Conservation and Extension Service, and DNR staff has agreed to assist with six educational programs for residents in the watershed.

The Iowa DNR staff have also indicated a willingness to help solicit participation in conservation plan development of state-owned cropland.

We will partner with Karen Hanson, Naturalist with Webster County Conservation to conduct water quality monitoring samples in the watershed. Karen Hanson has undergone training through IOWATER and will work with volunteers to collect samples and participate in public presentation of the data.

Trees Forever has committed staff and financial assistance of \$2,000.00 to work with local stakeholders of a sub watershed of the Brushy Creek Lake to address water quality concerns. Through this effort the District will kick off the process of addressing the water quality concerns of the entire 57,000 acre watershed.

The USDA Natural Resources Conservation Service will contribute office space, vehicles, equipment, informational material, and technical staff support. The Webster County Soil and Water Conservation District (WCSWCD) will contribute time, equipment, technical staff support, informational materials, and other funds to the project. The WCSWCD will also contribute \$2,500.00 towards the purchase educational materials and signage which will be used to more effectively communicate watershed management and education.

The following partners will assist with the implementation of the project:

- Brushy Creek Lake State Park DNR Staff
- Lanny Miller, IDNR Fisheries Biologist
- Bryan Hellyer, IDNR Private Lands Biologist
- Wayne Fuhlbrugge, IDNR Forester
- City of Duncombe
- City of Vincent
- Fort Dodge Bass Club
- Friends of Brushy Creek
- Webster County Department of Public Health
- Webster County Extension Office
- Webster County Engineer
- Webster County Conservation
- Webster County Extension
- Koch Nitrogen Plant
- Mike Suzik, Natural Resources Conservation Service, State Soil Scientist
- Ducks Unlimited
- Pheasants Forever
- Trees Forever

Letters of support are available upon request.

Project Outputs:

- 12 signs depicting conservation BMS in the watershed.
 - 36 monthly reports, 12 quarterly reports, 2 annual reports, and 1 final report will be completed and submitted.
 - A project brochure will be developed.
 - Installation of best management practices to reduce erosion and improve water quality.
 - 3 nutrient and pest management test plots will be established with 3 producers.
 - 3 restoration demonstration sites will be established.
 - Informational materials on composting will be developed.
 - 6 workshops and 6 tours will be held.
 - A slide show will be developed featuring the watershed and best management practices.
 - Newsletter articles and informational materials will be submitted to the local media and project participant's newsletters.
 - Collection of water quality monitoring data completed by local volunteers.
-
- Completion of the installation of 75% of all stream segments will have riparian buffers or filter strips installed, reducing 1t/a/y of soil loss.
 - Completion of 20 wetland creations and restorations, controlling 2,000 acres of associated sediments and nutrients
 - Installation of 2-3 animal waste facilities, protecting water quality from potential spills
 - 20 acres of targeted waterways,
 - 18,000 acres of nutrient and pest management planned
 - 6 grade stabilization structures, controlling approximately 1,200 acres of sediments and nutrients
 - 6 water and sediment control basins, controlling approximately 1,200 acres of sediments and nutrients
 - 18,000 acres of whole farm planning
 - 75 acres of pasture management/rotational grazing,
 - 1000 feet of stream bank stabilization, resulting in 19 tons sediment coming from stream bank erosion.
 - 45 acres of tree and shrub plantings
 - 45 acres of conservation cover/vegetative demonstration,
 - 200 acres of Timber stand Improvement and Prescribed Burn Implementation

Project Costs and Funding Sources:

Budget Category	Project Funding			
	Year 1	Year 2	Year 3	TOTAL
Personnel/ Fringe Benefits	\$50,512	\$53,030	\$56,211	\$159,753
Indirect Costs	\$11,224	\$11,660	\$12,366	\$ 35,250
Travel/Training	\$1500	\$1500	\$1500	\$ 4,500
Supplies	\$450	\$300	\$0.00	\$ 750
Contractual Services	\$2000	\$2000	\$2000	\$ 6,000
Inf/Ed.	\$1,500	\$1,500	\$1,500	\$ 3,500
Equipment	\$350	\$350	\$350	\$ 1,000
Financial Incentives and Cost-Share	\$14,125	\$13,125	\$17,750	\$ 45,000
TOTAL				\$ 255,753

PROJECT BUDGET FOR FY2000-ALLOCATED WPF AND SECTION 319 FUNDING - EXAMPLES

BUDGET FOR YEAR #: 1 2005

PROJECT NAME: Brushy Creek Lake Watershed Project

SWCD: Webster

PROJ. NO.:

Component	#, Acres or Other	Total Cost	Cost Share Rate	Sate Cost	EQUIP Cost	WHIP Cost	Trees Forever	CRP Cost	Webster SWCD Cost	Landowner Cost	Project Cost	Funding Source
Salary & Benefits*		\$51,000									\$50,512	319
DSC Indirect Costs**		\$11,750									\$11,224	319
Travel/Training		\$1,500									\$1,500	WPF
Supplies		\$250									\$450	319
Inform./Educ.		\$500					500		\$1800/12 signs		\$500	WPF
Contractual (DSC)***												
Contractual (SWCD)****		\$2,000									\$2,000	319
Equipment		\$350									\$350	WPF
Other												
Practices:												
Animal Waste Systems	1#	\$20,000	75%		50% \$ 11,000					\$5,500	\$5,500	WPF
Grade Stabilization Structs.	2#	\$20,000	75%		50% \$11,000					\$5,500	\$5,500	WPF
Wetlands	7#	\$35,000	90%							\$3,500	\$0	WPF
Water & Sed. Contr. Basins	3 #	\$7,500	75%	50%	25% 1875					\$1,875		WPF
Waterways	4 ac.	\$9,000	90%					90% \$8100		\$900	\$0	WPF
Waterways	3 ac.	\$6,700	75%	50% \$3,350						\$1,625	\$1,625	WPF
Streambank Stabilization	250	\$5,000	75%		50% \$2,500					\$1,250	\$1,250	WPF
Tree and Shrub Plantings	5 ac	\$500	75%				50% \$250.00			\$125	\$125	WPF
Forest Stand Improvement	50 ac	\$7,500	60%			60% \$4,500				\$3,000	\$0	
Prescribed Burn Implementaiton	50 ac	\$4,000	60%			60% \$2,400				\$1,600	\$0	
Vegetation Demonstration	5 ac	\$500	75%				50% \$250			\$125	\$125	
Nutrient and Pest Mngmt	6000	\$144,000	\$8/yr for 3yrs		\$144,000							
Conservation Buffers	500 ac	\$500	90%					4,500		\$500		
		\$327,550			\$ 188,375	\$ 6,900	\$ 1,000	\$ 12,600	\$ 1,800	\$25,500	WPF 16475	WPF
Totals		\$327,550								\$25,500	\$80,661	

Total WPF	\$16,475
Total 319	64,186
Total Other	213,675
Total Project	\$294,336

BUDGET FOR YEAR #: 2 2006

PROJECT NAME: Brushy Creek Lake Watershed Project

SWCD: Webster

PROJ. NO.:

Component	#, Acres or Other	Total Cost	Cost Share Rate	Sate Cost	EQIP Cost	WHIP Cost	Trees Forever	CRP Cost	Webster SWCD Cost	Landowner Cost	Project Cost	Funding Source
Salary & Benefits*		\$51,000									\$53,030	319
DSC Indirect Costs**		\$11,750									\$11,660	319
Travel/Training		\$1,500									\$1,500	WPF
Supplies		\$250									\$300	319
Inform./Educ.		\$1,500									\$1,500	WPF
Contractual (DSC)***												
Contractual (SWCD)****		\$2,000									\$2,000	319
Equipment		\$350									\$350	WPF
Other												
Practices:												
Animal Waste Systems	1#	\$20,000	75%		50% \$ 10,000					\$5,000	\$5,000	WPF
Grade Stabilization Structs.	2#	\$20,000	75%		50% \$10,000					\$5,000	\$5,000	WPF
Wetlands	7#	\$35,000	90%							\$3,500	\$0	WPF
Water & Sed. Contr. Basins	3 #	\$7,500	75%	50%	25% 1875					\$1,875		WPF
Waterways	4 ac.	\$9,000	90%					90% \$8100		\$900	\$0	WPF
Waterways	3 ac.	\$6,700	75%	50% \$3,350						\$1,625	\$1,625	WPF
Streambank Stabilization	250	\$5,000	75%		50% \$2,500					\$1,250	\$1,250	WPF
Tree and Shrub Plantings	5 ac	\$500	75%				50% \$250			\$125	\$125	WPF
Forest Stand Improvement	50 ac	\$7,500	60%			60% \$4,500				\$3,000	\$0	
Prescribed Burn Implementaiton	50 ac	\$4,000	60%			60% \$2,400				\$1,600	\$0	
Vegetation Demonstration	5 ac	\$500	75%				50% \$250			\$125	\$125	WPF
Nutrient and Pest Mngmt	6000	\$144,000	\$8/yr for 3yrs		\$144,000							
Conservation Buffers	500 ac	\$500	90%					4,500		\$500		
		\$184,050			168,375	6900	500	12600	1800	\$24,500	WPF 16475	
Totals		\$328,550								\$24,500	\$83,465	

Total WPF	\$16,475
Total 319	66,990
Total Other	214,675
Total Project	\$298,140

BUDGET FOR YEAR # 3 2007

PROJECT NAME: Brushy Creek Lake Watershed Project

SWCD: Webster

PROJ. NO.:

Component	#, Acres or Other	Total Cost	Cost Share Rate	Sate Cost	EQIP Cost	WHIP Cost	Trees Forever	CRP Cost	Webster SWCD Cost	Landowner Cost	Project Cost	Funding Source
Salary & Benefits*		\$51,000									\$56,211	319
DSC Indirect Costs**		\$11,750									\$12,366	319
Travel/Training		\$1,500							700		\$1,500	WPF
Supplies		\$250									\$0	319
Inform./Educ.		\$1,500									\$1,500	WPF
Contractual (DSC)***												
Contractual (SWCD)****		\$2,000									\$2,000	319
Equipment		\$350									\$350	WPF
Other												
Practices:												
Animal Waste Systems	0	\$33,300	75%		50% \$16650					\$8,325	\$8,325	WPF
Grade Stabilization Structs.	2#	\$20,000	75%		50% \$10100					\$5,050	\$5,050	WPF
Wetlands	7#	\$35,000	90%							\$3,500	\$0	WPF
Water & Sed. Contr. Basins	3 #	\$7,500	75%	50% \$3750	25% 1875					\$1,875		WPF
Waterways	4 ac.	\$9,000	90%					90% \$8100		\$900	\$0	WPF
Waterways	3 ac.	\$6,700	75%	50% \$3,350						\$1,625	\$1,625	WPF
Streambank Stabilization	500	\$10,000	75%		50% \$5000					\$2,500	\$2,500	WPF
Tree and Shrub Plantings	10 ac	\$1,000	75%				50% \$500			\$125	\$125	WPF
Forest Stand Improvement	100 ac	\$15,000	60%			60% \$9,000				\$3,000	\$0	
Prescribed Burn Implementaiton	100 ac	\$8,000	60%			60% \$4,800				\$1,600	\$0	
Vegetation Demonstration	10 ac	\$1,000	75%				50% \$500			\$125	\$125	WPF
		\$214,850		7100	\$ 33,625.00	\$ 13,800.00	\$ 1,000.00	\$8,100.00	\$ 700.00	\$28,625	WPF 21050	
Totals		\$214,850								\$28,625	\$91,677	

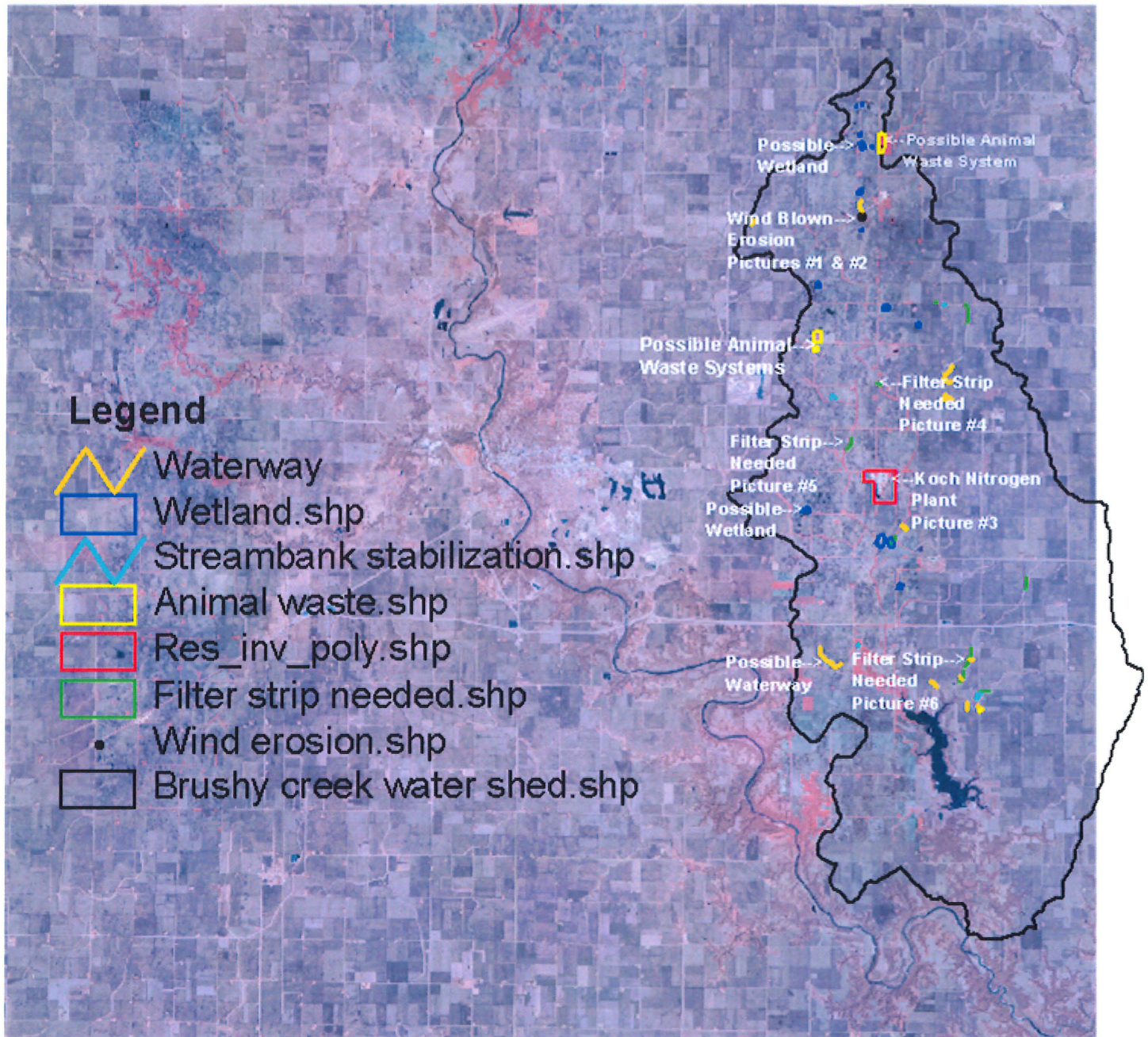
Total WPF	\$21,050
Total 319	70,577
Total Other	92,800
Total Project	\$184,427

Brushy Creek Watershed

Webster County Soil & Water Conservation District

Date: 05/14/2004

Webster County
Natural Resources Conservation Service
TJL



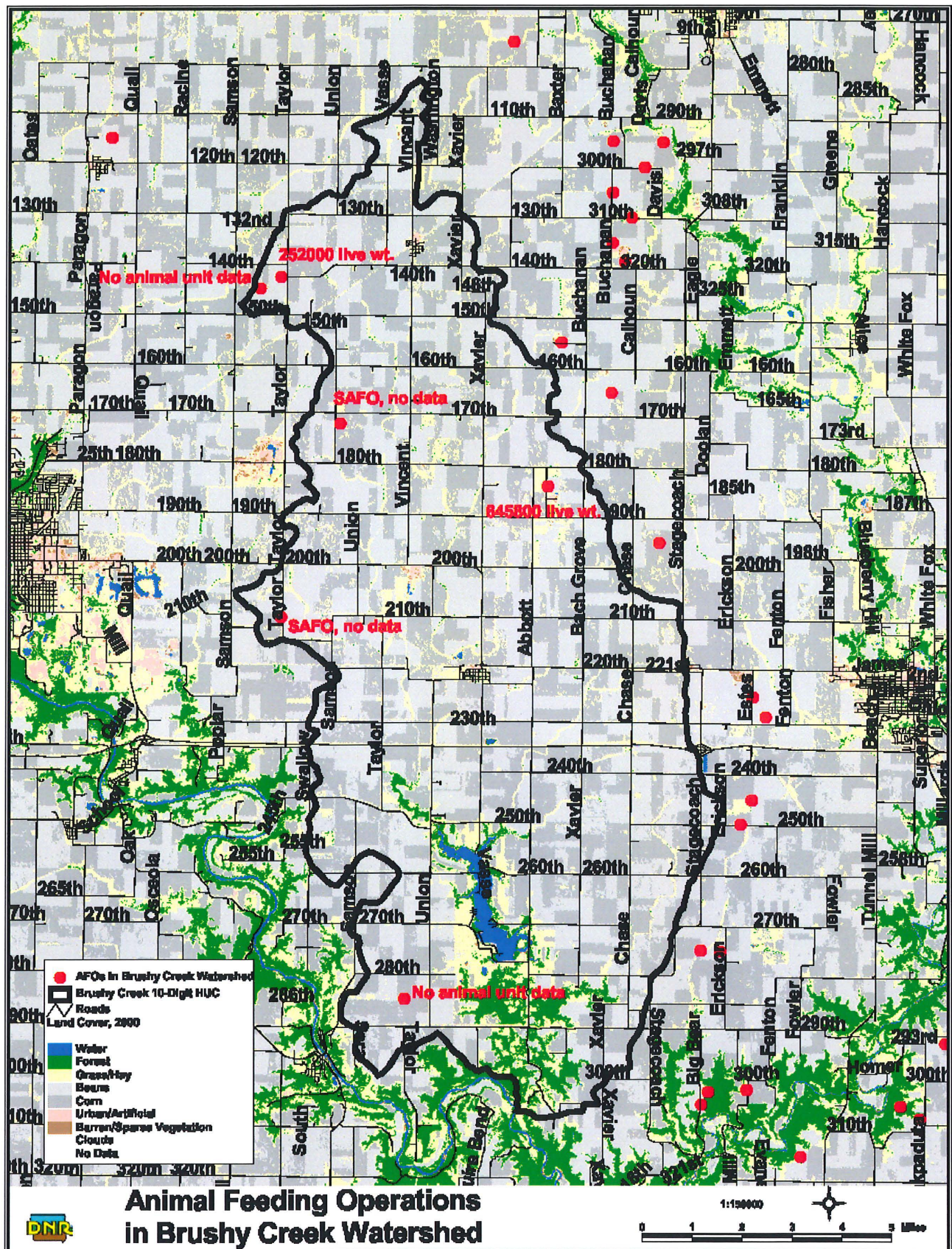
30000

0

30000

60000 Feet







Arrows mark the bank of the
road ditch.
Wind blown sediment has
filled the ditch, May 5, 2004

Picture #1



Picture #2



Picture #3
Koch Nitrogen Plant
centrally located in the
watershed.

Picture #4
A Drainage
Ditch in need of
a filter strip.





Picture #5. Drainage ditch in need of a filter strip. This is located in the northern part of the watershed.



Picture #6. Another drainage ditch in need of a filter strip.

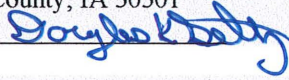


Picture #7. Possible Animal Waste System Site.



Picture #8. Another Possible Animal Waste System Site.

Iowa Special Project Proposal

Project Title: Brushy Creek Watershed Project
Group Submitting Application: Webster County SWCD
Contact Person: Douglas Seltz, Chair WCSWCD & Christine Taliga, NRCS
1200 ½ 3rd Ave NW
Webster County, IA 50501
Signature 
Tel. 515.573.4411
Fax. 515.573.5539
chris.taliga@ia.usda.gov
Date 5/20/04

Part I. Project Executive Summary:

Description of natural resource problem:

The Brushy Creek Watershed is located in the northeastern part of Webster County. The watershed is situated between Webster City and Fort Dodge, with the communities of Vincent and Duncombe located within the watershed. Brushy lake is located fifteen miles driving distance from Fort Dodge and Webster City. The Brushy Creek Recreational Area comprises approximately 3% of the watershed and serves an 11-county area within a 50-mile driving radius. The lake has a surface area of 690 acres and drains 57,000 acres.

Brushy Creek Lake is a relatively new state-owned lake, the construction of which was completed in 1998. The 690 acre lake was specifically created to address a shortage of recreational and fishing opportunities in this area. The 57,000 acre lake watershed is compromised mostly of level and intensively farmed cropland. It is currently considered one of the cleanest lakes in Iowa primarily because of its recent construction. Sediment and the associated nutrients and pesticides have not had time to build up in the storage area of the lake. Given the size of the watershed, long-term consideration needs to be given to sediment and nutrient delivery and the inevitable problems associated with such a large watershed to lake ratio.

As noted, the watershed is comprised almost entirely of cropland (87%). While relatively flat, the area is also extensively drained which creates the possibility of accelerated delivery of water borne contaminants. Nitrates and Phosphorous are especially a concern in most north central Iowa watersheds and there is no reason to believe that Brushy Creek is an exception.

The other major area of concern is the presence of 6 state identified animal feeding operations (AFOs) in the watershed, some within 2-3 miles of the lake. In this area of Iowa, the future addition of more units is always a possibility. The location of these facilities coupled with extensive subsurface drainage systems throughout the area creates a real likelihood of potential contamination of the lake from nutrients, pesticides, fecal matter, or a combination of all three. Agricultural manufacturing may also pose a potential risk to the watershed. An anhydrous ammonia manufacturing plant centrally located in the watershed may pose a direct threat to the lake in the event of an accident.

Given the purpose of the lake, the above-mentioned contamination could be both environmentally and economically devastating to the surrounding area. According to the Iowa DNR, Brushy Creek logs over 521,800 visitors a year with daily spending estimated to be \$13 per person for a total estimated annual expenditure of six million dollars. Using a conservative multiplier of 3 for economic impact, the economic impact of the recreation area is estimated at 18 million dollars. A manure spill or increases in nutrients by some other accidental means could cause both short and long term disruptions of fishing, swimming or boating which would reduce or eliminate the positive economic benefits noted above.

Brushy Creek Lake is not listed in the 303(d) list for the State of Iowa and the main objective of this watershed protection project will be to implement critical conservation practices as a precautionary measure to ensure Brushy Lake will remain off this list in the future.

Description of Proposed Project Activities, Schedule, Best Management Practices, and Budget

We are requesting funds for a three-year time period. Listed below are some of the major project activities we will accomplish during the project:

- Establish a Watershed Advisory Board consisting of local DNR staff, residents, landowners, conservation groups, local business, and representative from the local SWCD, etc.
- Implement an information and education program (including field days, informational meetings, educational programs, and signs that feature the watershed and demonstration sites, etc.).
- Establish demonstration sites on agricultural and industrial land within the watershed to feature best management practices.
- Provide cost-share incentives to assist with the cost of installing best management practices.
- Partner with extension and local businesses to establish demonstration sites that focus on proper nutrient and pest management for cropland and pastures.
- Partner with IDNR and Webster County conservation to establish demonstration sites that focus on invasive species control and woodland/oak savanna restoration techniques.
- Create a water quality monitoring program to be implemented by IOWATER trained volunteers.

As a component of the ongoing Watershed Development grant research a survey was sent to 350 landowners in the watershed soliciting input on perceived resource concerns and the need for implementing best management practices to date approximately 55 respondents

returned the survey to date expressing interest in implementing many of the following conservation practices. We anticipate the following quantities of best management practices will be installed over a period of three years:

Proposed Cost-Share Practices:

- 75% of all stream segments will have riparian buffers or filter strips installed, approximately 1,500 acres trapping sediments and reducing the delivery of nutrients to the lake.
- 21 wetlands targeted at priority areas such as sites adjacent to creeks, drainage ditches, and tile intakes, controlling 2,000 acres of associated sediments and nutrients
- 2-3 animal waste facilities
- 18 acres of targeted waterways, controlling approximately 2,000 acres of sediments and nutrients
- 18,000 acres of nutrient and pest management planned
- 6 grade stabilization structures, controlling approximately 1,200 acres of sediments and nutrients
- 6 water and sediment control basins, controlling approximately 1,200 acres of sediments and nutrients
- 18,000 acres of whole farm planning, promoting minimum till options, windbreaks, nutrient and pest management
- 75 acres of pasture management/rotational grazing
- 1000 feet of stream bank stabilization, resulting in preventing 19 tons sediment coming from stream bank erosion.
- 20 acres of tree and shrub plantings will help control wind erosion.
- 20 acres of conservation cover/vegetative demonstrations will target tile intake areas for maximum water quality benefit.
- 200 acres of Forest Stand Improvement utilizing invasive species eradication and prescribed burn implementation primarily for herbaceous under story restoration. This will increase water infiltration and reduce erosion over 200 acres.

Budget Information and Proposed Timeline:

The Koch nitrogen plant has indicated a willingness to seek matching funds for conservation systems implemented on the 200 acre plant land. Trees Forever has dedicated staff and approximately \$2,500.00 toward the implementation of conservation practices in the watershed. The Webster County Soil and Water Conservation District has pledged \$2,500.00 for staffing needs and supplies. Pheasants Forever has tentatively pledged \$3,000 toward wildlife habitat buffers. Partners will also help develop and enact educational programs. The local county work group task force, in charge of prioritizing federal program cost-share funds such as EQIP, WHIP, has already designated the Brushy Creek watershed area as a priority area, with a minimum of 50% cost-share funds covered for most of the conservation practices designated above, therefore Water Protection Funds (WPF) cost-share dollars could be utilized to add to these federal dollars to provide 75% to 85% cost-share incentives for most of these practices. CREP and CRP will also be utilized to the maximum extent possible to implement the conservation systems denoted above. The Iowa DNR private lands biologist has also indicated that he would be willing to help solicit contributions from local groups, such as Friends of Brushy Creek, to help match installation costs of some of the conservation practices. Webster County Conservation and Iowa State Extension service will also help develop and enact educational programs. We have requested 319 and WPF funds for staffing, travel and training budget for the project coordinator, information and education activities, and cost-share incentives to work in the upstream areas that drain into the lake.

Project Costs and Potential Funding Sources:

Type of Funding	Project Funding			
	Year 1	Year 2	Year 3	TOTAL
WPF/319 (c/s and staff support	\$80,661	\$83,465	\$91,627	\$ 255,753
EQIP (313, 410, 638, 584, 590&595)	\$188,375	\$168,375	\$177,625	\$ 534,375
EQIP Education	\$ 2,000	\$ 2,000		\$ 4,000
WHIP (666, 612, 327, 338, 644, 657)	\$6,900	\$6,900	\$13,800	\$ 27,600
WSWCD	\$1,800	\$	\$ 700	\$ 2,500
WCC	\$2000	\$2000	\$2000	\$ 6,000
Trees Forever	\$1,000	\$ 500	\$1,000	\$ 2,500
CRP	\$44,100	\$44,100	\$44,100	\$ 132,300
Webster County Pheasants Forever	\$ 1,000	\$ 1,000	\$ 1,000	\$ 3,000
Koch Nitrogen Plant	?	?	?	\$
Totals				\$ 368,028

Part II. Nine Resource Assessment Factors

Questions 1, 6 & 7. Participating Agencies and Organizations Spearheading the Project and Potential Funding Sources:

The Webster County Soil and Water Conservation District will have the responsibility for overall administration of the Brushy Creek Watershed Project. We have applied for a combination of Environmental Protection Agency's Section 319 and the Iowa Division of Soil Conservation's Water Protection Funds to help implement the project.

Significant contributions of time, labor, supplies, and equipment will be made by supporters from the local agencies, landowners, and businesses in the private sector. The Webster County Conservation has pledged \$6000 of in-kind contributions including staffing, supplies, and materials to establish test-plots with watershed producers and to help conduct 6 field days. The Webster County Conservation and Extension Service, and DNR Private Lands Biologist and Forester have agreed to assist with six educational programs for residents in the watershed.

DNR staff area has indicated a willingness to help promote the application of conservation tillage practices and nutrient and pest management practices on the approximately 1,200 acres of state-owned cropland within the watershed.

We will partner with Karen Hansen, Naturalist with Webster County Conservation and two schools to conduct water quality monitoring in the watershed. Karen Hansen has undergone training through IOWATER and will work with volunteers to collect samples and participate in public presentation of the data.

Trees Forever has committed staff and financial assistance of approximately \$2,500.00 to work with local stakeholders of a sub watershed of the Brushy Creek Lake to address water quality concerns. Through this effort the District will kick off the process of addressing the water quality concerns of the entire 57,000 acre watershed. Webster County Pheasants Forever has tentatively pledged \$1,000.00 per year of the project to help promote wildlife habitat buffers in the watershed.

The USDA Natural Resources Conservation Service will contribute office space, vehicles, equipment, informational material, and technical staff support. The Webster County Soil and Water Conservation District (WCSWCD) will contribute time, equipment, technical staff support, informational materials, and other funds to the project. The WCSWCD will also contribute \$2,500.00 towards the purchase educational materials and signage which will be used to more effectively communicate watershed management and education.

The following additional partners have also indicated a willingness assist with the implementation of the project:

Lanny Miller, IDNR Fisheries Biologist, Prairie Rivers RC&D, City of Duncombe, City of Vincent, Friends of Brushy Creek, Webster County Engineer, Webster County Board of Supervisors, Webster County Farm Service Agency, Hamilton County Soil and Water Conservation District, The Nature Conservancy, The Natural Heritage Foundation, Mike Suzik, Natural Resources Conservation Service, State Soil Scientist, and Ducks Unlimited.

With Brushy Creek Watershed as a Special Project designation we will propose an allocation of EQIP and WHIP funds as indicated above in Project Costs and Potential Funding Sources.

2. Resource Assessment Data:

As a result of the Brushy Creek Watershed Development grant efforts currently underway, district field staff has gathered field data in the winter of 2003 to assess tillage practices in the watershed. A sheet and rill erosion model predicted approximately 16,194 tons of sediment load delivered into the lake annually. The tillage survey conducted may not have accurately reflected the soil erosion rates, as residue levels after planting crops in the spring of 2004 may have been significantly lower than estimated for the purpose of this model. In the spring of 2004, intensive tillage practices were noted in the watershed and especially during periods of high winds as was exemplified by severe wind erosion noted this spring during two particular strong wind storms in April and May (see attached photo, page 2). Wind blown sediment may have the potential to also impact the sediment load the lake receives. Muck and Harps soils tend to be susceptible to wind erosion and approximately 6% of the watershed is compromised of these types of soils. Wind erosion, as may be seen in the referenced photo, may be a factor contributing to the overall sediment delivery of the lake, not included in the sediment delivery model. Also, wind erosion is a factor not considered in the RUSLE soil loss equation for Iowa. As a result of the combined factors of higher residue levels predicted during the tillage survey and the wind erosion potential, the attached Sheet and Rill erosion prediction model of an average of 1 ton/acre/year of soil loss may be a low prediction. A previous watershed analysis completed as part of a feasibility study conducted by Brice, Petrides Donohue Co. in 1988 estimated the average annual soil loss at 4 tons/acre/year.

Livestock information for Brushy Creek Lake Watershed:

As a result of the research conducted as a part of the Brushy Creek development grant 48 landowners with livestock were identified in the watershed. Hogs and Cattle comprise the 19 of the livestock operations in the watershed, 1 sheep operation, and 11 landowners with 5 or more horses, and one landowner with Lamas. The remainder of the landowners own recreational horses.

According to the Iowa Department of Natural Resources, there are six permitted livestock facilities in the watershed. To date these operations currently do not appear to be adversely impacting the lake. The planned wetland restoration projects will be targeted to be strategically placed within the watershed as potential mitigation measures in the event a manure spill would occur.

Soils

About 2% of the acres (1,120) in the watershed are highly erodible. The distribution of hydric soils in the Des Moines Lobe Surface in the Brushy Creek watershed indicate that nearly three-fourths of the upland areas (approximately 38,000) consist of hydric soils. Hydric soils are also located along flood terraces and tributary valleys of Brushy Creek and include wooded and emergent types (approximately 3%). The predominant soil associations are Storden-Hayden-Wadena and Webster-Clarion-Nicollet. These soil associations comprise 100% of the soils within the watershed and represent the nearly level to gently sloping soils formed in uplands on glacial till and gently sloping to very steep soils of the Brushy Creek valley.

3. Current Activities in the Watershed:

Another major effort to determine pollution loading for this watershed will be working with Webster County Conservation and IOWATER to develop a water monitoring program. Webster County Conservation is currently in the process of working with the Webster County SWCD to begin the implementation of such a program in the watershed. The District is also working closely with the Webster County Sanitarian to identify improperly functioning household septic systems in the watershed, educational outreach efforts are planned to identify such households in the watershed. The District is also currently in the process of utilizing the Gully Erosion Prediction model to calculate sediment loading from gully erosion in the watershed.

4 & 5. Natural Resources Conservation Plan & Identified Resource Concerns:

As a result of an advisory board meeting the locally identified priority resource concerns to be treated for the watershed are surface and ground water quality, related to excess sediment and nutrients, soil erosion related to ephemeral, sheet, and classic gully erosion, plant condition in pastureland, and inadequate stock water and waste storage for domestic animals. The first goal will be to develop an area-wide conservation plan, the second goal will be to promote ongoing education program with landowners, homeowners, developers, engineering firms on the planning, design, and implementation of best management practice systems and sound land use planning to reduce erosion and non-point source runoff in order to improve water quality. The third goal will be to administer and implement all activities and objectives in the project. The fourth goal will be to provide technical assistance to the above groups. The fifth goal will be to evaluate and measure the success of the project.

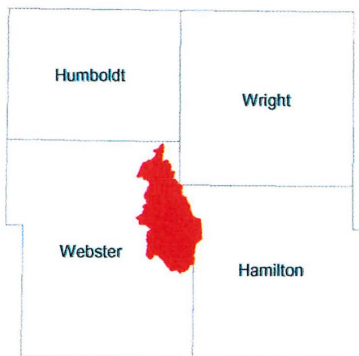
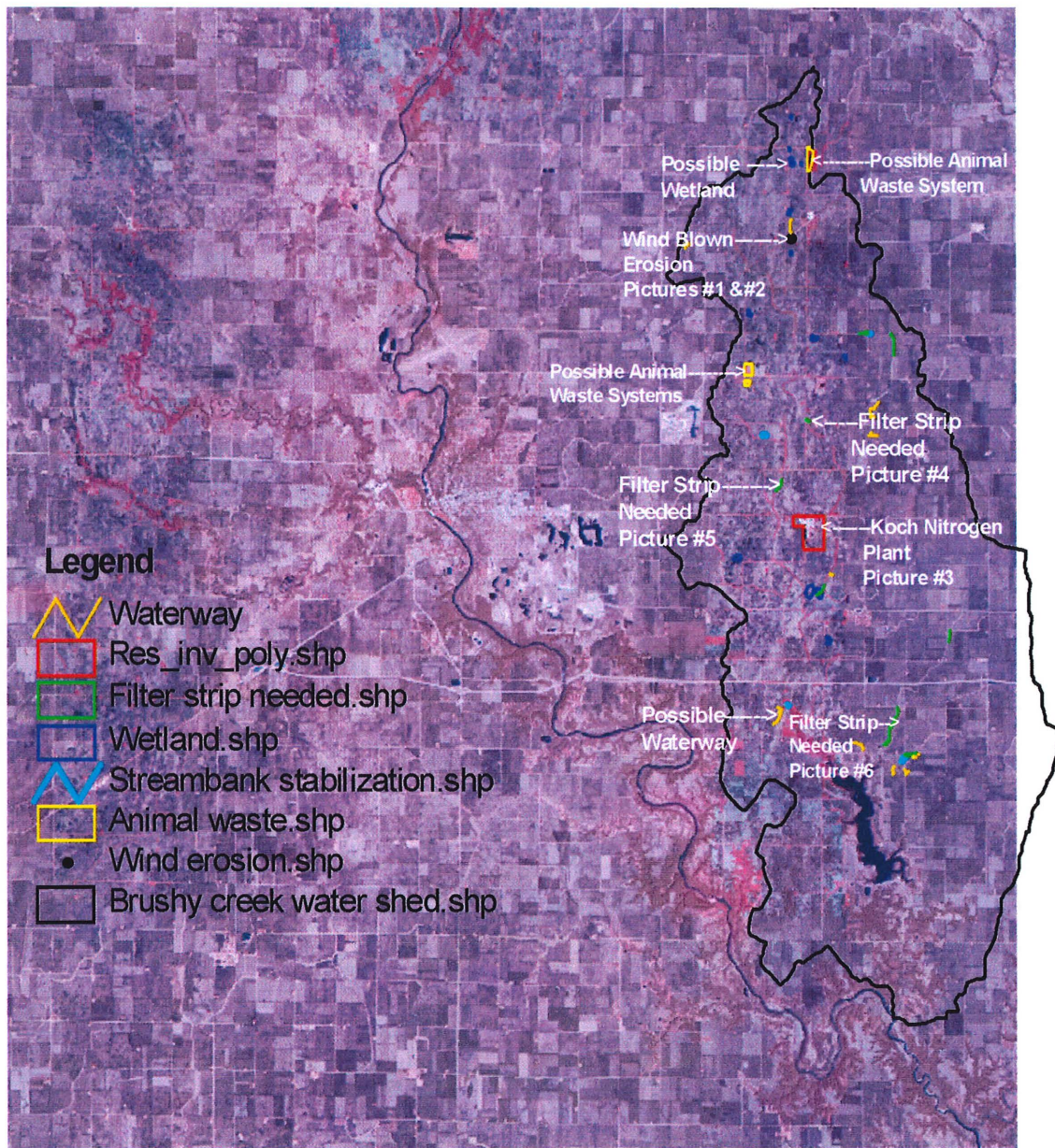
Listed below are some of the objectives of the project:

- Create a project brochure highlighting the watershed and discussing water quality needs and solutions.
- Promote the implementation of best management practices through information and education programs.
- Establish and work with demonstration sites to provide training on the planning, design, and implementation of best management practice systems and sound land use planning to improve water quality. Prominently promote BMP's with signage.
- Provide technical assistance on the planning, design, and implementation of best management practice systems and sound land use planning to improve water quality.
- Establish water quality monitoring program to be implemented by IOWATER trained volunteers.
- Measure and evaluate the success of the project through information and education activities, participation of the public, and installation of best management practices.
- Utilize GIS and GPS technologies to identify practice locations and load reductions.

8 & 9. Likelihood of Success and Evaluation Mechanisms:

As a component of the ongoing Watershed Development grant research a survey was sent to 350 landowners in the watershed soliciting input on perceived resource concerns and the need for implementing best management practices, to date, approximately 55 respondents returned the survey to date expressing interest in implementing many of the conservation practices planned for the watershed. A recently published newsletter highlighting the proposed Brushy Creek project has also resulted in nine EQIP applications within the watershed. The combination of landowner interest and project partners will greatly contribute to the success of the planned watershed efforts. We will be able to measure our success by the number of people, municipalities, organizations, and others who participate in the project and by the number and amounts of best management practices that are installed. We will account for environmental performance with the goal to reduce the sediment loads into the lake to 8,000 tons/acre annually. The implementation of BMP's and resulting sediment reductions will be utilized to account for load reductions. Before, during, and after photos will be taken to visually document watershed improvements. Another method of evaluation will be through the completion of quarterly and annual project reports and reviews. The reports into NRCS's PRS tracking system will also be a helpful evaluation tool as we proceed with activities throughout the year. We will utilize GIS to identify load reductions and practice locations utilizing GPS and GIS technologies.

Brushy Creek Watershed



IOWA STATE UNIVERSITY

Cooperative Extension

Webster County Extension Office
108 South 8th Street
Fort Dodge IA 50501-4680
515-576-2119
Fax: 515-576-6447
E-mail: xwebster@iastate.edu
URL: <http://www.extension.iastate.edu/Pages/webster>

May 12, 2004

Webster Co. Soil & Water Conservation District
1200 1/2 - 3rd Avenue NW
Fort Dodge, IA 50501

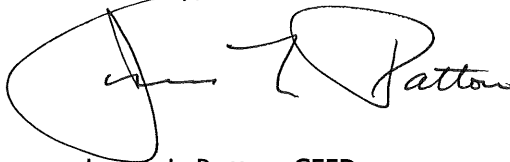
Dear Webster Co. Soil & Water Conservation District:

The Webster County Extension is committed to and strongly endorses the Brushy Creek Watershed water quality project application for EPA Section 319/Iowa Water Protection Funding. This proactive approach to conservation is necessary to preserve the long-term economic and environmental resources of the 57,000 acre watershed area. Promoting and implementing conservation practices within this watershed will protect the investment the state has undertaken and protect the soil, water, and natural resources for the area. We strongly support your efforts to solicit funds to ensure the protection of Brushy Lake.

Webster County Extension urges the state to fund this water quality protection project. Webster County Extension will play an active role in education and willing enlists expertise and staff from Iowa State University. We are committed to participate in this effort and plan to be represented on the Brushy Creek advisory board. With the planned information/education activities, water quality monitoring, and conservation practice implementation the Webster County Soil and Water Conservation District is poised to provide the interface with our local landowners and further results oriented conservation on the land.

We commend your efforts in soliciting additional partners and resources for this watershed initiative; feel free to contact our office: Webster County Extension, 108 South 8th Street, Fort Dodge, phone 515-576-2119 for any additional assistance with this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "James L. Patton". The signature is stylized with a large, sweeping initial "J" and a clear, legible name.

James L. Patton, CEED

WEBSTER COUNTY SOIL AND WATER CONSERVATION DISTRICT
1200 ½ 3rd Avenue NW
Fort Dodge, Iowa (515) 573-4411

May 12, 2004

Dear Webster County Soil and Water Conservation District:

The Webster County Conservation Board is committed to and strongly endorses the Brushy Creek Watershed water quality project application for EPA Section 319/Iowa Water Protection Funding. This proactive approach to conservation is necessary to preserve the long-term economic and environmental resources of the 57,000 acre watershed area. Promoting and implementing conservation practices within this watershed will protect the investment the state has undertaken and protect the soil, water, and natural resources for the area. We strongly support your efforts to solicit funds to ensure the protection of Brushy Lake.

The Webster County Conservation Board urges the state to fund this water quality protection project. We are committed to participate in this effort and plan to be represented on the Brushy Creek advisory board. With the planned information/education activities, water quality monitoring, and conservation practice implementation the Webster County Soil and Water Conservation District is poised to provide the interface with our local landowners and further results oriented conservation on the land.

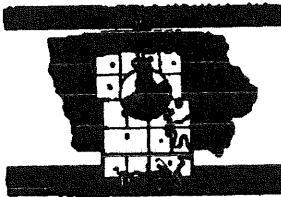
We commend your efforts in soliciting additional partners and resources for this watershed initiative; feel free to contact our office at 515-576-4258 for any additional assistance with this matter.

Sincerely,



Matt Cosgrove
Webster County Conservation Board director

Webster County Soil and Water Conservation District
Equal Opportunity Employer



Webster County Board of Supervisors
Fort Dodge, Iowa 50501

James A. Gill
Fort Dodge, Iowa

Greg Nolting
Fort Dodge, Iowa

Floyd A. Magnusson
Fort Dodge, Iowa

Eddie Peterson
Harcourt, Iowa

Phil Condon
Clare, Iowa

Fax # (515) 574-3714

Phone # (515) 573-7175

Email: supervisors@webstercountyia.org

May 12, 2004

Webster County Soil and Water Conservation District
1200 ½ 3rd Avenue Northwest
Fort Dodge, IA 50501

Dear Webster County Soil and Water Conservation District:

The Webster County Board of Supervisors acts as trustees for numerous drainage districts that are located with the Brushy Creek Watershed out letting into Brushy Lake. Because almost all of the approximate 57,000 acres is cropland and is extensively drained, the possibility of the delivery of water borne contaminants such as nitrates, anhydrous ammonia and phosphorous are a real concern. We are committed to and strongly endorse the Brushy Creek Watershed water quality project application for EPA Section 319/Iowa Water Protection Funding.

We commend you for your proactive approach to conservation, which is necessary to preserve the long-term economic and environmental resources of the 57,000-acre watershed area, as well as the investment the state and strongly support your efforts to solicit funds to ensure the protection of Brushy Lake. Without such an aggressive approach today, in years to come the environmental, economical and recreational benefits of Brushy Lake could be devastating.

Webster County Board of Supervisors strongly encourages the state to fund this water quality protection project. We are committed to participate in this effort and plan to be represented on the Brushy Creek advisory board. Thank you in advance for your consideration.

Respectfully submitted

WEBSTER COUNTY BOARD OF SUPERVISORS

Phil Condon Chairman

Greg Nolting Member

James A. Gill Member

Eddie Peterson Member

Floyd Magnusson Member

WEBSTER COUNTY SOIL AND WATER CONSERVATION DISTRICT
1200 ½ 3rd Avenue NW
Fort Dodge, Iowa (515) 573-4411

Date:

Dear Webster County Soil and Water Conservation District:

The (Your Organization) is committed to and strongly endorses the Brushy Creek Watershed water quality project application for EPA Section 319/Iowa Water Protection Funding. This proactive approach to conservation is necessary to preserve the long-term economic and environmental resources of the 57,000 acre watershed area. Promoting and implementing conservation practices within this watershed will protect the investment the state has undertaken and protect the soil, water, and natural resources for the area. We strongly support your efforts to solicit funds to ensure the protection of Brushy Lake.

(Our organization) urges the state to fund this water quality protection project. We are committed to participate in this effort and plan to be represented on the Brushy Creek advisory board. With the planned information/education activities, water quality monitoring, and conservation practice implementation the Webster County Soil and Water Conservation District is poised to provide the interface with our local landowners and further results oriented conservation on the land.

We commend your efforts in soliciting additional partners and resources for this watershed initiative; feel free to contact our office at _____ for any additional assistance with this matter.

Sincerely,

Name
Organization

Webster County Soil and Water Conservation District
Equal Opportunity Employer

WEBSTER COUNTY SOIL AND WATER CONSERVATION DISTRICT
1200 ½ 3rd Avenue NW
Fort Dodge, Iowa (515) 573-4411

FROM: Doug Seltz, Chair; Webster County Soil and Water Conservation District
Contact Person: Christine Taliga, Webster County District Conservationist

RE: Brushy Creek Watershed Preproposal

I. Description of Problem to be Addressed:

Brushy Creek Lake is a relatively new state-owned lake completed in 1998. The 690 acres lake was created specifically for fishing and recreation. The watershed is approximately 57,000 acres in size; with the land use comprised largely of relatively level and intensively farmed cropland. It is currently considered one of the cleanest lakes in Iowa primarily because of its recent construction. Sediment and the associated nutrients and pesticides have not had time to build up in the storage area of the lake. Given the size of the watershed, long-term consideration needs to be given to sediment and nutrient delivery and the inevitable problems associated with such a large watershed to lake ratio.

As noted in the description the watershed is almost all cropland. While relatively flat, the area is also extensively drained which creates the possibility of accelerated delivery of water borne contaminants. Nitrates and Phosphorous are especially a concern in most North Central Iowa watersheds and there is no reason to believe that Brushy Creek is an exception.

The other major area of concern is the presence of 6 state identified animal feeding operations (AFOs) in the watershed, some with in 2-3 miles, see map. In this area in Iowa, the future addition of more units is always a possibility. The location of these facilities coupled with extensive subsurface drainage systems throughout the area creates a real likelihood of potential contamination of the lake from nutrients, pesticides, fecal matter or a combination of all three. Agricultural manufacturing may also pose a potential risk to watershed. An anhydrous ammonia manufacturing plant centrally located in the watershed may pose a direct threat to the lake in the event of an accident.

Given the purpose of the lake, the above-mentioned contamination could be both environmentally and economically devastating to the surrounding area. According to the Iowa DNR, Brushy Creek logs over 521,800 visitors a year with daily spending estimated to be \$13 for a total estimated annual expenditure of six million dollars annually. Using a conservative multiplier of 3 for economic impact, the economic impact of the recreation area is 18 million dollars. A manure spill or increases in nutrients by some other accidental means could cause both short and long term disruptions of fishing, swimming or boating which would reduce or eliminate the positive economic benefits noted above.

Project Activities and Tentative Project Schedule

We are requesting funds for a three-year time period. Listed below are some of the major project activities we will accomplish during the project:

- Establish a Watershed Advisory Board consisting of local DNR staff, farmers, landowners, conservation groups, representative from the local SWCD, etc.
- Implement an information and education program (including field days, informational meetings, educational programs (develop brochures) lowater monitoring, etc.
- Establish demonstration sites on private and state owned land within the watershed to feature best management practices.
- Provide cost-share incentives to assist with the cost of installing best management practices.
- Partner with local businesses to establish demonstration sites that focus on proper nutrient management for Ag fields and rural homesteads.
- Create water quality monitoring program to be implemented with IOWATER trained volunteers.

III. Preliminary Budget Information:

Trees Forever, the Webster County SWCD, Webster County Board of Supervisors, Pheasants Forever, will contribute \$12,000.00 to the Brushy Creek Watershed Project. The Iowa DNR personnel with Brushy Creek have also indicated they will be willing to help solicit contributions from local groups and residents to help match the installation costs of conservation practices. EQIP funds will be utilized whenever possible to provide 50% of the available cost-share which would enable us to utilize 25% cost-share with WPF funds to make the installation of these conservation practices more attractive to landowners. We request 319 funds and Watershed Protection Funds (WPF) for staffing, travel and training budget for the project coordinator, information and education activities, and cost-share to work in the upstream areas that drain into the lake.

		Requested Funds
Personnel and Fringe Benefits for 3 years	(WPF)	\$ 146,692.00
Indirect Costs for Personnel	(WPF)	\$ 33,737.00
(Not included if district employee)		
Travel and Training for 3 years	(WPF)	\$ 4,500.00
Financial Cost-Share Incentives	(WPF)	\$ 65,000.00
Information and Education Activities	(319)	\$ 7,500.00

Proposed Cost-Share Practices:

Conservation Buffers (500 acres)
Erosion Control Matting
Grade Stabilization Structures (3 no.)
Grassed Waterways (12,000')
Nutrient and Pest Management (4000 ac.)
Total Resource Management Systems (whole farm plans) 4000 ac
Tree and Shrub Plantings
Vegetation Demonstrations
Brush Management
Prescribed Burn Implementation
Wetlands (3 sites, 100 ac.)
Stream bank stabilization (1,500')

IV Project Partners

The SWCD will work with:

- Prairie Rivers RC&D,
- IDNR,
- GSB,
- NRCS,
- Friends of Brushy Creek,
- Webster County Conservation,
- Pheasants Forever,
- Webster County Extension,
- Webster County Board of Supervisors,
- Koch Nitrogen Plant,
- USGS,
- Army Corps of Engineers
- IOWATER
- Trees Forever

IOWA WATER QUALITY/WATERSHED PROTECTION PROJECT APPLICATION

Application Number: _____

Date Received: _____

Project Title: Brushy Creek Lake Watershed Project
District Submitting Application: Webster County SWCD
Contact Person: Douglas Seltz, Chair
1200 ½ 3rd Ave NW
Webster County, IA 50501

Total Funding Requested for the Life of the Project: \$255,753

Project Executive Summary:

Description of Problem to be Addressed and Nonpoint Pollution Sources:

Brushy Lake is located in the southeastern part of Webster County five miles south of Duncombe. It is situated between Webster City, fifteen miles to the northeast, and, Fort Dodge, fifteen miles northwest and serves an 11-county area within a 50-mile driving distance. The lake has a surface area of 690 acres and drains 57,000 acres.

Brushy Creek Lake is a relatively new state-owned lake, the construction of which was completed in 1998. The 690 acre lake was specifically created to address a shortage of recreational and fishing opportunities in this area. The 57,000 acre lake watershed is compromised mostly of level and intensively farmed cropland. It is currently considered one of the cleanest lakes in Iowa primarily because of its recent construction. Sediment and the associated nutrients and pesticides have not had time to build up in the storage area of the lake. Given the size of the watershed, long-term consideration needs to be given to sediment and nutrient delivery and the inevitable problems associated with such a watershed to lake ratio.

As noted in the description the watershed is almost all cropland. While relatively flat, the area is also extensively drained which creates the possibility of accelerated delivery of water borne contaminants. Nitrates and Phosphorous are especially a concern in most North Central Iowa watersheds and there is no reason to believe that Brushy Creek is an exception.

The other major area of concern is the presence of 6 state identified animal feeding operations (AFOs) in the watershed, some within 2-3 miles of the lake. In this area of Iowa, the future addition of more units is always a possibility. The location of these facilities coupled with extensive subsurface drainage systems throughout the area creates a real likelihood of potential contamination of the lake from nutrients, pesticides, fecal matter, or a combination of all three. Agricultural manufacturing may also pose a potential risk to the watershed. An anhydrous ammonia manufacturing plant centrally located in the watershed may pose a direct threat to the lake in the event of an accident.

Given the purpose of the lake, the above-mentioned contamination could be both environmentally and economically devastating to the surrounding area. According to the Iowa DNR, Brushy Creek logs over 521,800 visitors a year with daily spending estimated to be \$13 per person for a total estimated annual expenditure of six million dollars. Using a conservative multiplier of 3 for economic impact, the economic impact of the recreation area is 18 million dollars. A manure spill or increases in nutrients by some other accidental means could cause both short and long term disruptions of fishing, swimming or boating which would reduce or eliminate the positive economic benefits noted above.

Description of Proposed Project Activities, Schedule, Best Management Practices, and Budget

We are requesting funds for a three-year time period. Listed below are some of the major project activities we will accomplish during the project:

- Establish a Watershed Advisory Board consisting of local DNR staff, residents, landowners, conservation groups, local business, and representative from the local SWCD, etc.
- Implement an information and education program (including field days, informational meetings, educational programs, and signs that feature the watershed and demonstration sites, etc.).
- Establish demonstration sites on agricultural and industrial land within the watershed to feature best management practices.
- Provide cost-share incentives to assist with the cost of installing best management practices.
- Partner with extension and local businesses to establish demonstration sites that focus on proper nutrient and pest management for cropland and pastures.
- Partner with IDNR and Webster County conservation to establish demonstration sites that focus on invasive species control and woodland/oak savanna restoration techniques.
- Create a water quality monitoring program to be implemented by IOWATER trained volunteers.

Proposed Cost-Share Practices:

- Animal Waste Livestock Facilities
- Conservation Buffers
- Grade Stabilization Structures
- Grass Waterways
- Conservation Cover
- Forest Stand Improvement
- Nutrient and Pest Management
- Rotational Grazing/Pasture Management
- Stream Bank Stabilization
- Total Resource Management (whole farm planning)
- Tree and Shrub Plantings
- Vegetation Demonstrations
- Wetland Restoration
- Prescribed Burn Implementation

Budget Information:

The Koch nitrogen plant has indicated a willingness to seek matching funds for innovative storm water conservation treatment systems. Trees Forever has indicated a willingness to provide \$2,000.00 toward the implementation of conservation practices in the watershed. The Webster County Soil and Water Conservation District has pledged \$2,500.00 for staffing needs and supplies. Partners will also help develop and enact educational programs. The local county work group task force, in charge of prioritizing federal program cost-share funds such as EQIP, WHIP, has already designated the Brushy Creek watershed area as a priority area, with a minimum of 50% cost-share funds covered for most of the conservation practices designated above, therefore Water Protection Funds (WPF) cost-share dollars could be utilized to add to these federal dollars to provide 75% to 85% cost-share incentives for most of these practices. CREP and CRP will also be utilized to the maximum extent possible to implement the conservation systems denoted above. The Iowa DNR park manager has also indicated that he would be willing to help solicit contributions from local groups, such as Friends of Brushy Creek, to help match installation costs of some of the conservation practices. Webster County Conservation and Iowa State Extension service will also help develop and enact educational programs. We request 319 and WPF for staffing, travel and training budget for the project coordinator, information and education activities, and cost-share incentives to work in the upstream areas that drain into the lake.

	Type of Funding	Requested Funds
Personnel and Fringe Benefits for 3 years	(WPF)	\$159,753
Indirect Costs	(WPF)	\$ 35,250
Travel and Training for 3 years	(WPF)	\$ 4,500
Financial Cost-Share Incentives	(WPF)	\$ 45,000
Contractual Agreement for 3 years	(319)	\$ 6,000
Information and Education Activities	(319)	\$ 4,500
Supplies	(319)/WPF	\$ 750
TOTAL		\$255,753

Description of Methods to Measure Progress and Accomplishments of Project:

We will use the following methods to measure progress during the project's life and its overall accomplishments:

- Monthly, quarterly, and annual reports
- Annual Review project meetings
- Feedback from Advisory Board
- Participation in field days, informational meetings, and educational programs
- Evaluations issued at educational programs
- Number of best management practices installed

This application has been reviewed and approved by a motion at the April 2004 meeting of the Webster County Soil and Water Conservation District Commissioners. Discussion and actions taken appear in the official minutes on file in the district office.

_____, District Chair

SECTION 319 NONPOINT SOURCE POLLUTION CONTROL PROGRAM
WATERSHED PROJECT FINAL REPORT

Brushy Creek Lake Water Quality Project
By
T.J. Lynn, Project Coordinator
Webster County Soil & Conservation District

June 30, 2010

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Grant # 094-1.06

EXECUTIVE SUMMARY

PROJECT TITLE: Brushy Creek Lake Water Quality Project.

PROJECT START DATE: July 25, 2005

PROJECT COMPLETION DATE: June 30, 2010

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	MATCH	\$847,946.99
	BUDGET REVISIONS	-
	TOTAL EXPENDITURES	\$981,267.32

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Part 1 – Executive Summary

The Brushy Creek Lake Water Quality Project began on July 28, 2005, with the objective of protecting the water quality of the recently constructed lake and concluded on June 30, 2010. The project provided some unique challenges faced on the flat and intensively farmed landscape of the Des Moines Lobe in north central Iowa. The vast systems of pattern tile and the drainage ditch networks that cover the watershed increase the potential and speed of which contaminants, such as nitrates, phosphates, and sediments, can reach the lake thus degrading the water quality. Efforts were made throughout the five year project to address as many of these concerns as possible.

The goals of the project were focused mainly around implementing Best Management Practices (BMP's) through the Conservation Reserve Program (CRP), Environmental Quality Incentives Program (EQIP), the use of 319 program dollars, and any other matching dollars that could be tied into the project. In total there were funds and technical support used from 17 different sources/partners to implement conservation practices in the watershed. Some goals were either not met or were determined to be not feasible after the project began and further on the ground assessments could be made by the project coordinator and other technical experts. The reasoning behind this is explained further in Part 3 of this document.

Efforts were made to reach and exceed as many of the original goals of the project as possible and along the way many of these were successful. The enrollment of new CRP filter strip acres combined high level of re-enrollment for expiring filter strip contracts has 87% of the eligible acres in place throughout the watershed. In addition the number of restored wetlands through the CRP exceeded the project goal and are playing an important part in filtering the water before it enters the tile systems and is delivered to the lake. There were also other CRP practices introduced that expanded the opportunities to enroll acres that were not eligible when the project started. This allowed the project coordinator to reach out to more producers and present them with conservation ideas that helped to address resource concerns that they had and to improve the effectiveness and profitability of their operations.

The EQIP practices that were implemented played an important and effective role in protecting the lake. Nutrient Management, Pest Management, and Strip Tillage enrolled through the program impacted many acres primarily in the southern portions of the watershed. Enrollment into this program was highest during the first and last years of the project. Much of this can be attributed to the change in priority practices through the EQIP and the amount of available funding to support these practices. The success in the final year of the project was focused around strip tillage and is a direct result of "Operation Strip Till" that was started by a locally led group who wanted to introduce this practice to the local landowners. The benefits of this program are being seen across Webster County and interest is growing in strip tillage as more and more producers see the environmental and economic benefits of this practice. It is anticipated that more acres will be converted to this form of tillage in the near future within the Brushy Creek Lake Watershed.

There were also efforts made by the project coordinator to explore all other opportunities that were not goals originally set for the project, but that had the potential to significantly impact the preservation of the lake. The most important and significant of these opportunities was the expansion and full restoration of the Miller Marsh Wildlife Area at the northern end of the watershed. This now 185 acre permanent conservation area is working to filter surface runoff from the northern most 800 acres of the watershed and is significantly impacting water quality downstream. In addition plans are currently underway to expand and restore the marsh by an additional 38 acres in the future. The lasting impact that this area will have on water quality will play an important part in the preservation of Brushy Creek Lake.

In total the conservation practices implemented during the five year project provided a sediment loading reduction of over 1,765 tons per year.

Part 2 – Introduction

The Brushy Creek State Recreational Area has been a popular place for recreational activities for many years and only increased in usage with the construction of the lake in 1998. The lake and surrounding 6,500 acre park provide many recreational opportunities for park visitors, including camping, horseback riding, swimming, fishing, hunting, and over 45 miles of trails. Data provided by the Iowa Lakes Valuation Project showed that between 2002 and 2005 the park seen an average of just under 145,000 visitors annually that generated over \$8 million. In addition the data showed that approximately 160 jobs were supported as a result that provided over \$2 million dollars on labor income during that same time period. The peak number of visitors during this time frame reached nearly 200,000 in 2004 and over doubled the statewide average visits.

The 690 acre Brushy Creek Lake is situated in the east central portion of Webster County between the cities of Webster City and Fort Dodge and is a tributary to the Des Moines River. Construction of the lake was completed in 1998 and it quickly became known for its fishing by both local and out of state anglers. Brushy Creek Lake is not currently, nor has it been, on the State of Iowa's 303d list as an impaired waterbody. According to "Iowa's Final 2008 Integrated Report" the lake is listed in Category 3b which means that there is insufficient data that exists to determine whether any designated uses are met, but at least one use is potentially impaired. The lake is listed on the Iowa DNR 305b assessment for Class A (primary body contact) and Class B(LW) (aquatic life of lakes and wetlands) according to 2004 assessment that determined both uses to be "fully supporting". Brushy Creek is also one of the Iowa DNR's Lakes Restoration Programs priority lakes.

The watershed to the lake is 56,917 acres which creates a watershed to lake ratio of 82 to 1 (HUC 8: 07100004). The southern part of the watershed, in which the Brushy Creek State Recreation Area is located, consists of small fields, timber, and brushy ravines close to the creek. This area has some relatively sharp topography changes and is where the majority of the Highly Erodible Lands (HEL) occurs in the watershed. The remaining 98% of the watershed is relatively flat and is considered Non-Highly Erodible Land (NHEL) of the Webster-Clarion-Nicollet soil association. This makes it nearly impossible to enforce compliance issues that are focused on by the farm programs payments. Only the producers who have chosen to participate in conservation programs, such as CRP and EQIP, are actively following a signed conservation plan.

The number of landowners and producers in the watershed changes on a continual basis due to land sales, willingness to pay higher cash rents, etc. and the last update completed by the project coordinator in 2008 showed that there were 94 landowners and 101 operators. The population centers in the watershed are the towns of Duncombe, population 456, and Vincent, population 158, along with a number of rural acreages.

The reduction of nitrate, phosphorus, and sediment delivery to the lake was the main focus of the project because it is these three contaminants that pose the greatest threat to the overall water quality of Brushy Creek Lake. As a result of the Brushy Creek Watershed Development grant efforts, both sheet and rill erosion and land cover/use maps were developed in 2004 that estimated a total of 1,585 tons of sediment was being delivered to the lake annually from the watershed. A land cover map developed at the same time showed the watershed to be at about 86% row crop agricultural production with this generally being a corn/soybean rotation. Sediment loss and delivery estimates were completed again in 2006 and 2008 by the project coordinator. The results of these surveys showed sediment delivery rates of 1,577 tons and 1,353 tons per year respectively. It is important to note that these figures do not reflect the estimated 550 tons of sediment being delivered to the lake by gully erosion annually. The 2008 land use assessment of the watershed found 82% of the land in row crop production with the majority of the land still in a corn/soybean rotation, but it was noted that there was a general trend towards more of a corn/corn/soybean rotation by some of the larger producers in the watershed. This can be attributed to higher corn prices and the need for additional corn production to support the ethanol industry in the area. Other uses included CRP land, public lands, the towns of Vincent and Duncombe, rural acreages, and several other uses. Given the flatness of the landscape, agricultural production and the extensive network of artificial drainage systems the time of delivery of contaminants to the lake is greatly increased.

Other factors were assessed that could potentially have negative impacts on the lake that were not related to row

crop production. Livestock production was assessed during the development grant phase prior to the project and found that the only significant concentrations in the watershed were two swine facilities. One of the operators had a Comprehensive Nutrient Management Plan (CNMP) developed and applied in 2010 that planned timing, placement, and amounts of manure being put on farm acres that had the potential to affect Brushy Creek Lake. The other facility had a plan in place, so no further action was taken with these two producers. The industrial waste of the Koch Nitrogen Plant, centrally located in the watershed, and the municipal waste sewage of the towns of Vincent and Duncombe were also looked at for their potential to adversely affect water quality. It was determined that there were no real issues to address regarding these sites. Weekly tests by the Iowa DNR showed no spikes in bacteria levels at the lake and water quality tests for nitrates by the project coordinator showed no significant spikes from inputs by the Koch Nitrogen Plant.

Part 3 - Project Goals, Objectives, & Activities

A.) Planned & Actual Milestones, Products & Completion Dates

There was a broad range of goals set for the project, some of which were met and others that were not reached for various reasons (See Table 1). In total there was a sediment loading reduction to the lake of 1,765 tons per year. A breakdown of sediment delivery reduction by year and practice can be seen in "Table 2". The paragraphs below are an explanation of why some of the goals were achieved during the life of the project.

As of December, 2009 there have been 7 grade stabilization structures and 4 water and sediment control basins constructed that have stopped an estimated total of 289 tons per year of sediment from reaching the lake. The number installed exceeded the project goal for grade stabilization and leaves the project short of the sediment control basin goal by two. During the first two years of the project priority was given to the active gullies that were identified as the most erosive by the local Iowa DNR staff and the approach of constructing one or two structures per year was taken. This system worked well with the available funding; however, it became apparent that this approach would not work to address the many active gullies in need of attention around the lake and that a different approach would need to be taken in order to provide the maximum water quality impact. It was during the fall of 2007 that all of the gullies around Brushy Creek Lake were assessed and a plan was put in place to address those that were most erosive based upon estimated soil loss. As a result of this action an additional grade stabilization structure and 13 water and sediment control basins have been surveyed and designed and are currently awaiting approval from the Iowa DNR Engineering staff before they go to public bid and ultimately construction. These 14 sites have a potential sediment loading reduction of an estimated 337 tons per year. In addition there are four other sites that are in further need of archeological investigations before any construction could take place. The sites have a potential sediment loading reduction of an estimated 125 tons per year.

Other practice goals were only partially met mainly due to a lack of interest by producers or by a lack of available program funding. These include the nutrient and pest management practices that were planned based largely on the availability of EQIP funds. Plans were written for 1,527.6 acres of nutrient management and 588.4 acres of pest management during the life of the project. Some of the nutrient management acres were implemented as a result of a CNMP that was written one of the swine operations located in the watershed. The priorities for the EQIP have changed and even though the Brushy Creek Lake Watershed has remained a priority area it has become increasingly harder to get these practices funded.

Grassed waterways were another practice that did not receive much interest from the producers in the watershed. During the project a total of 2.9 acres of new grassed waterways and one re-enrolled area were installed using CRP, Public Owned Lakes, and Watershed Protection Funds. The 18 acre goal was set quite high with this number based on general observations of need during the development grant phase of the project and no solid producer commitments. It is possible that there are this many acres to be found in the watershed, but opportunities were narrowed given the flatness of the terrain above the lake and producer commitment.

The 18,000 acres of whole farm planning was as a goal that was set with no real idea of where exactly these acres would come from or what they would be planned for. During the life of the project conservation plans were

written and signed on 10,924 acres (19% of watershed) for CRP, EQIP, CSP, conservation tillage/cropping rotations, and other practices. The lack of lands that are considered highly erodible in the watershed provides no enforcement of plans written for tillage/cropping operations and while the signed plans have conservation tillage/cropping rotations included these may or may not be followed by the producers. The planned practices were made based on observations during field visits prior to writing the plan for the producers.

A small amount of progress was made towards reaching the tree and shrub planting goal; however, many of the acreages in the watershed already have a sufficient windbreaks in place. There was 3.0 acres of windbreaks established during the life of the project.

The rest of the goals that had no progress made towards meeting them were determined to be infeasible or not needed in the watershed after the project was begun. There are only two large confinements in the watershed and they have sufficient animal waste facilities located on site. The other animals are scattered and generally consist of five to 15 animals and the actively pastured areas in the watershed are generally three acres or smaller in size and made the pasture management/rotational grazing practice infeasible to use.

The need for streambank stabilization is high in the areas directly above Brushy Creek Lake where the stream channel is meandering; however, much of this need is located on State of Iowa land. There are two sites that are privately owned and these sites were evaluated for soil loss and streambank erosion. The addition of 1,000 feet of streambank stabilization that was proposed in the grant would have had a minimal impact and didn't seem to be the best use of project dollars. Ideas have been explored on one of these sites in an attempt to find alternate practices that were more feasible and would impact a greater area at a lower cost to the project and landowner. This information is discussed in Part 3, Section D of this report.

There was one additional practice that had goals set, but was unattainable. The 200 acres of forest stand improvement planned for areas within the Brushy Creek State Recreation Area is a practice that is needed and would have vastly improved some of the timber ground that is directly adjacent to the lake; however, due to staff shortages and budget shortfalls the need for labor could not be met and therefore this practice was not given consideration after the project started.

B.) Evaluation of Goal Achievement & Relationship to the State NPS Management Plan

The Brushy Creek Lake Watershed Project worked to address and achieve the goals of the State's NPS Management Plan by implementing a variety of BMP's using funds from EPA 319, CRP, EQIP, and WPF. A watershed based approach was taken to implement these practices that are identified in Parts 3, 4, and 6 of this report. Some BMP's were used throughout the watershed, such as buffers and wetlands, while others were used to address specific water quality concerns. The implementation of the CNMP to address manure application from one of the swine facilities and the closure of the agricultural drainage well at Miller Marsh which worked to reduce nutrients, pesticides, and sediments that were contaminating the groundwater in the area are two examples of these site specific practices.

C.) Copy of all deliverables

Copies of all press releases, magazine articles, newsletters, etc. that are referred to in this report have been included with this report.

D.) Supplemental Information

There were additional practices pursued by the project coordinator that had the potential to impact water quality in Brushy Creek Lake significantly, but fell short of being constructed. The largest of these in both scope and cost was the potential retention pond that was proposed on the northeast side of the lake as an alternative to traditional streambank stabilization practices. The project coordinator was approached at the kick-off meeting by a landowner who was concerned that streambank erosion was causing problems on his property and in the lake. Further investigation of the site showed that there was over 6,000 feet of meandering stream running through the 35 acre pasture on his property and some of the banks were eroding considerably. The State Geologist with the Iowa NRCS was called in to complete a site assessment that determined a total soil loss of 386 tons per year from

the streambanks on this site with 347 tons per year of that soil reaching the lake. Additional work completed at the site included a full survey of the pasture and areas of the surrounding agricultural fields, survey upstream of all tile outlets and many agricultural fields around the drainage ditch, and survey/GPS of every pothole area in the 3,900 acre drainage area for depth and size. A significant amount of time was put into these efforts by local NRCS and SWCD staff to assist the project coordinator in gathering this information that was then sent to the Iowa NRCS Agricultural Engineer for analysis. He determined that the flow of water was too great to be captured and effectively treat the water before it left the site and based this decision on the current design standards and specifications that are approved for Iowa. Efforts were made by the project coordinator to get other engineers to take a look at the site, but many were unwilling to even look at the information and the price for private engineering was more than could be paid for using project funds. There has been a water depth logger in place since the spring of 2008 that has provided data every 30 minutes during this period. Periodic flow rates have also been measured and rainfall data recorded. The SWCD will continue to gather this data for future reference and use it in the event that a solution and funding source are found that will help the landowner to achieve his conservation goals.

One additional practice that was explored, but never constructed was a 4.3 acre grassed waterway near the southeast corner of the lake. This project began in 2007 and was cancelled the fall of 2009 shortly after construction had begun due to the fact that the landowner felt that the waterway was too wide. The plan was for a 90 foot grassed waterway that was 2,700 feet long, had a total drainage area of 650 acres, and would have provided for a sediment loading reduction of 61 tons per year. Nearly \$45,000 was obligated for this project from both POL and WSPF. After cancelling the contract the landowner did seed down a 30 foot area down the center of the channel to control some erosion that is occurring, but there are still many areas that are actively eroding outside of the channel that continue to negatively impact water quality in the lake.

Part 4 - Best Management Practices Developed and/or Revised

Many BMP's were developed and implemented throughout the five year project. As was noted earlier, many of these practices had specific goals set when the project was started while others were discovered and developed based on need and feasibility.

A.) Miller Marsh Wildlife Area

The expansion and restoration of the now 185 acre Miller Marsh Wildlife Area at the northern end of the watershed was one of the projects that came about in November of 2005 and is considered the centerpiece of the project. The original acquisition of Miller Marsh took place in 2003 when the Webster County Conservation Board (CCB) purchased and restored a 38.5 acre parcel of land through the Wetland Reserve Program (WRP). It had long been their goal to acquire ground in this part of the county to provide some much needed permanent wildlife habitat and after the restoration was completed they were looking for ways to acquire additional acres to expand on this small conservation area. The local SWCD/NRCS staff was contacted in late 2005 by the Iowa DOT about their need for wetland mitigation acres in Webster County as the expansion of U.S. Highway 20 was taking place. After discussing this with the Webster CCB a plan was put in place to contact the owners around Miller Marsh to determine interest in selling their land for this purpose. The project progressed and involved three different landowners with the acquisition of an additional 146.5 acres of land. The restoration included the replacement of nearly 4,000 feet of county main tile, shallow water excavation of 13 acres, construction of a 1,000 foot earthen dike, the closing of an ag drainage well, and seeding of the area to a mix of upland and aquatic plant species. The project worked to fully restore the wetlands in the original WRP site along with an additional 55 acres on the newly acquired portion of this area.

In total the project cost \$683,097 and received funding/technical support from 10 different sources. They include the NRCS, Webster County SWCD, EPA/Iowa DNR Section 319 funds, Iowa DOT, Webster CCB, Webster County Pheasants Forever, Pocahontas County Pheasants Forever, Iowa Department of Ag & Land Stewardship-Division of Soil Conservation Ag Well Closure Funds, Ducks Unlimited, and Whitetails Unlimited. This project worked to create and solidify working relationships with these groups and agencies that will only work to further conservation

progress in future projects.

The Miller Marsh project was also featured in several publications, including stories in the Fort Dodge Messenger on three different occasions, the Iowa NRCS "Current Developments" newsletter in the spring of 2007, Iowa DNR's "Working For Clean Water" publication in 2007 and an article in the national Pheasants Forever magazine. All of these did a good job of noting the importance of Miller Marsh and how it would affect the water quality downstream in Brushy Creek Lake.

B.) Structures

The installation of Grade Stabilization Structures (GSS) and Water & Sediment Control Basins (WASCB) has played an important role in protecting the lake. As was noted in Part 3, the need to control active gullies around the lake was a goal of the grant application that was submitted to the Iowa DNR. Based on conversations with the local park staff at Brushy Creek Lake during the development grant phase prior to the project the need for six GSS and six WASCB'S was determined to slow down significant soil loss that was occurring. Seven GSS and four WASCB's were constructed during the five year project that are stopping an estimated 289 tons of soil from reaching the lake on an annual basis. The project coordinator worked with the Iowa DNR staff to have the trail system incorporated into six of these structures which allowed the trail to be moved away from some of the more erosive soils that occur inside the timbered areas around Brushy Creek Lake.

C.) Grassed Waterways

There was construction completed on 2.9 acres of new grassed waterways and the re-enrollment of one at 0.8 acres during the five year project that provided for a sediment loading reduction of 28 tons per year. The need for this conservation practice is not significant in the watershed given the relatively flat landscape; however, there were areas that would have benefited greatly from this practice.

Part 5 – Monitoring Results

The project coordinator began water testing in March of 2006 at seven designated locations in the Brushy Creek Watershed (See Attachment 1). These sites were chosen so that the watershed was broken up equally allowing data to be gathered as the water moved down the main tributary towards the lake. Two of these monitoring sites were established to take readings from the other main tributaries to the lake that drain approximately 4,000 acres each. The testing started in the spring of 2006 shortly after the ditches became free of ice using IOWATER test strips and continued through the fall of 2006, focusing on nitrate and phosphorus levels. The data gathered was consistent with the general trend that would be expected in a watershed on the Des Moines lobe. The nitrates were higher in the spring as leaching from agricultural lands occurred and eventually went lower as the crops used up the fertilizer. The project coordinator felt that while the patterns were consistent the readings were not at the levels that would typically be expected because the IOWATER test strips are very open to interpretation by the user. Based on publications from Iowa State University about water quality testing, recent water testing by the Webster SWCD using lab analysis, and better water testing equipment it has been determined that the typical nitrate range through the spring and early summer averages between 12 and 18 mg/L. Samples collected and sent to the Iowa Hygienic Laboratory for analysis in the fall of 2006 confirmed that the test strips were giving very inaccurate values. So, in the spring of 2007 the Webster SWCD purchased a Hach Company water testing kit. This testing kit involved adding reagents to the water samples prior to testing them and did produce more accurate results. While the overall values were still showing lower than lower levels than that of a couple of samples tested against a lab analysis a pattern did develop to show the Hach test kit was consistently 6 mg/L lower than the lab results. This allowed for a better baseline of data to be developed and the nitrate levels entering the lake could be more accurately reflected.

Phosphorus levels during this same time period were typical of a north central Iowa watershed. Low flow periods seen lower levels and during high flow when there was more sediment moving through the ditches and streams it was observed that the phosphorus levels spiked.

While the BMP's and other conservation practices installed and implemented during the project are working to reduce the nitrate and phosphorus loading into the lake there is still a significant threat being posed. Over application of fertilizers and excessive tillage are still occurring and these will continue to pose a threat to the lake in the years to come.

Part 6 – Coordination Efforts

A.) Coordination from Other State Agencies & State Environmental Program Coordination

The Iowa Department of Agriculture & Land Stewardship-Division of Soil Conservation was a key and effective partner in the success of the project. Their contribution of funds through WPF, WSPF, and the agricultural well closure program were significant in the accomplishment of project goals.

The Iowa Department of Transportation proved to be a key partner in the successful implementation of Miller Marsh. Their technical and financial assistance of nearly \$510,000 for land acquisition and seed made this site the largest BMP implemented during the project. This in turn made other local funds available for the full restoration of the site and the closure of the agricultural drainage well on site.

B.) Federal Coordination

One of the strongest partnerships developed throughout this project was that of the Webster SWCD and the NRCS Field Office. Prior to and during the project the local staff worked with the SWCD and the project coordinator to gather data from the field using windshield surveys, field visits to identify conservation concerns, and by their general knowledge of the area from having worked and lived in this part of Webster County. They aided the project coordinator by providing technical support through survey and design of structures, implementing the federal conservation programs, and coordinating efforts with other local conservation groups and agencies. It is safe to say that if it were not for their willingness to take on tasks related to the Brushy Creek Lake Project efforts to protect the lake would not have been as successful.

C.) USDA Programs

The project was successful in using Federal Farm Programs dollars to install eight different types of conservation practices throughout the watershed. Three of these programs, the CRP, the EQIP, and the Conservation Stewardship Program (CSP), were used to accomplish this. Below is a description of how each of these programs was used to accomplish the project goals and objectives.

1.) CRP

The many miles of dredge ditch and the flat landscape that is covered with countless potholes presented an opportunity to implement CRP practices throughout the watershed. New CRP signup was highest at the beginning of the project and seen a sharp decrease as the project progressed. The decline can be attributed to higher than average corn and soybean prices and the encouragement by many to grow more corn to support ethanol production. A reversal in this trend and mind set are being noticed as input costs have caught up to commodity prices and questions about ethanol production in the area are still unanswered.

During the five year project a total of 161 acres of the CRP Farmable Wetlands Program (FWP) were enrolled with 60 acres of this comprising 23 restored wetlands. As is the case with many of these FWP's they are temporary/seasonal wetlands and were only restored to the extent allowed by the program rules. With many of these areas this meant manipulating a surface intake or blocking/replacing small perforated tile with non-perforated. These wetlands, along with the associated upland buffers, are important in aiding to filter the water of nitrates and phosphorus before it enters the tile systems that carry these contaminants downstream. Sheet and rill erosion is the most common form of erosion in the watershed with the typical tons/acre/year of erosion being somewhere between 1 and 2 tons, so the sediment load reduction affect that these FWP's provided was somewhat minimal at an estimated 26 tons/year.

Although the enrollment of new acres of CRP filter strips was a modest total of 33.8 acres the reenrollment of

expiring CRP contracts was high at 309 acres. These figures increased the total eligible filter strips in enrolled in the watershed to 87%, which is well above the project goal of 75% establishment. Contacts were made to the remaining landowners who had not yet enrolled their land in the CRP, but these were met with resistance and an unwillingness to participate. Many of these landowners felt that they could make more money cropping the marginal areas along the dredge ditches rather than seeding the areas down. As is the case throughout most of north central Iowa many of these marginal areas have surface intakes or surface inlets that drain the areas closest to the stream with no filtering of the water prior to entering the water course. The CRP areas that are in place are filtering the water adequately and provide an estimated sediment loading reduction of 1,354 tons annually.

Other CRP practices enrolled include windbreaks at 1.9 acres, grassed waterways at 2.2 acres, and upland wildlife habitat buffers at 10.1 acres. These practices provided a combined sediment loading reduction of 18.1 tons per year to Brushy Creek Lake.

The CRP proved to be a successful program in the Brushy Creek Lake watershed during the five year life of the project. In addition to the new acres enrolled there were a significant number of acres signed up in the three years prior to the project that are having an important impact on the water quality and adding to the overall quality of the lake.

2.) EQIP

The EQIP was another program that was successfully used to promote conservation in the watershed. The three practices that were applied using this program were Nutrient Management, Pest Management, and Strip Tillage. The EQIP was most used in the years leading up to project, as well as the first and last years, to promote these practices on a whole farm scale. The commissioners of the Webster SWCD realized the importance of Brushy Creek Lake both from a recreational and economical standpoint as they made the watershed a priority area thus allowing applications in this area to achieve higher ranking scores. The watershed has remained a priority area in the county, but changes to program rules and national level priorities moved the applications away from the nutrient and pest management practices in Webster County. One change that has kept some farmers from attempting to qualify for this program is the cap on the number of acres that can be enrolled by one producer at 320. The feeling amongst the producers is that they would like to sign up and be paid for their entire operation. The applications that were approved in the final year of the project were all based around strip tillage.

3.) CSP

The CSP was a program that was introduced to the watershed in the final year of the project. As the program administrators moved away from a selected watershed based approach to a continuous signup for all agricultural lands this presented an opportunity for landowners and producers in the Brushy Creek Lake Watershed to take advantage of another federal program that focuses on rewarding them for their good land stewardship practices. There were six producers that applied for and were accepted into the CSP on a total of 1,239 acres. Five of these producers incorporated strip tillage into their operations while the other managed an organic pasture area used to produce hay for livestock production. For many producers only small changes were needed in their operation to qualify for this program and as word has spread about the advantages of this program the interest has grown in the watershed. It is anticipated that more and more producers will attempt to take advantage of this program as new funding periods are announced. This program does present the opportunity to affect many aspects of the farming operations currently in place throughout the watershed, including the amount of tillage that is being done, nutrient placement and timing of application, and the number/amount of BMP's on the ground that will all have a lasting effect on Brushy Creek Lake.

D.) Accomplishments Of Agency Coordination Meetings

E.) Other Sources Of Funds

See "Table 3" for a review of sources of funding other than Section 319 dollars that were used to support the project.

Part 7 - Summary of Public Participation & Outreach Activities

Public participation and support varied during the project. There were a number of outreach methods used in an attempt to involve as many landowners, producers, and interested individuals as possible in the project.

In an initial attempt to pull individuals from the watershed into the project a public meeting was held in September of 2005. Prior to the meeting a news release was placed in the Fort Dodge Messenger that introduced the project and the planned meeting. This release was estimated reach approximately 15,000 households in Webster County and the surrounding areas. There was also a letter sent each landowner/producer/resident of the watershed personally inviting them to the meeting. The September 19, 2005, meeting had 24 people in attendance and was a lower than anticipated turn out.

A Level 1 IOWATER workshop was sponsored by the Webster SWCD in September of 2006, with the primary intent of this meeting being to introduce interested individuals to water quality issues and how they tie into projects, such as the one at Brushy Creek. A press release was put in the Fort Dodge Messenger prior to the meeting that reached an estimated 15,000 households and a mailing was sent that totaled 460 letters. These went to all of the landowners/producers/residents of the watershed, as well as the group participating in the Iowa State University Extension/Webster CCB sponsored Master Conservationist group. In addition, all of the local school districts received an e-mail about the workshop. There were 18 individuals who attended the workshop.

At the conclusion of the Miller Marsh Wildlife Area expansion and restoration project a field day was held to show the public what had been accomplished and was a chance to recognize local conservation groups and agencies who contributed time and funding to make the project a success. The day seen the attendance of just over 50 people and was covered by the Fort Dodge Messenger. The article reached the Messenger's circulation of approximately 15,000 people.

Other public outreach meetings included the kickoff event for "Operation Strip Till", which is a locally led project focused on educating producers and encouraging them to try strip tillage in their operations. This was an event co-sponsored by Iowa State University Extension, the Ann Smeltzer Charitable Trust, Webster CCB, Webster SWCD and the Iowa Learning Farm. Although this meeting was held on a demonstration farm outside of the watershed it provided an excellent area for producers to see a variety of conservation practices that were installed and to see firsthand how effective they were. Letters of invitation were sent to all producers in the Brushy Creek watershed. There were two subsequent meetings held in March of 2008 and September of 2009 to further promote this practice. These meetings were well attended and yielded interest in the program from producers in the watershed. Some signed up to have portions of their operations custom strip tilled so that they could evaluate and compare this practice to their current farming practices. Unfortunately the weather did not allow all of the producers to be reached and some lost interest in the program; however, there were over 400 acres of land enrolled in the EQIP for strip tillage payments in fiscal year 2010. The foundation for change seems to have been put in place across the watershed and throughout Webster County. It is anticipated that more producers will take advantage of this practice in the years to come.

The project coordinator also gave a presentation on the Brushy Creek Water Quality Project during a "Habitat Workshop" that was sponsored by Iowa State University Extension in February of 2008. There were 46 people in attendance. The presentation focused on accomplishments and goals of the project, as well as the identified resource concerns in the area.

An additional outreach effort was made by the project coordinator at a conservation field days that were held during every year of the project by the Naturalist for the Webster SWCD. Topics discussed during these days included water quality, wildlife, stewardship, and how all three are important to the preservation of the environment. These days were attended by 5th and 6th graders who were from Fort Dodge. In total the project coordinator talked to and helped to further the environmental education of nearly 470 students.

Outreach efforts were also made through the use of newsletters, practice specific mailings, and personal follow up

contacts. A newsletter was published along with the Webster SWCD annual report in each year from 2007 to 2009 that highlighted activities in the Brushy Creek Watershed for that particular year. These newsletters were sent county wide and reached an estimated 2,500 households each of those years. The project coordinator also used mailings about program availability or producer eligibility followed by a phone call in an attempt to increase the number of conservation practices in the watershed. All of these techniques did work. In some cases it simply brought up questions about the project while in others it led to on the ground conservation practices.

Part 8 - Aspects of the Project That Did Not Work Well

One aspect of the project that did not work well was the coordination of archeological reviews required to complete the building of the structures around Brushy Creek Lake. Construction of the first 10 GSS & WASCB structures was completed without any complications or holdups. The NRCS State Archeologist completed the reviews in Des Moines using the historical data that had been collected and archived. The initial 10 structures had no known cultural resource sites in the work areas and staff was on site to oversee construction and watch for any problems that may have developed once the construction began. This process was working fine until assistance was requested for the archeological review of the last site that was constructed. This request was made in September of 2006. The project was sent through a "Phase I Intensive Archeological Review" which was an understandable process since there was a known cultural resource site close to the proposed work area. The problem that was encountered was the time frame from which the request was made to review the site and when construction was completed. As was noted the request was made in late 2006 and it took until July of 2009 to approve and construct this simple 190 foot long WASCB.

The same problem was encountered with the slow archeological review process as the project coordinator moved forward with the 14 structures that are being proposed to address gully erosion concerns. The survey and design of these areas was completed in the fall of 2007 and spring of 2008. A "Phase I" archeological review was initiated by the Iowa DNR Lakes Restoration Program staff in September of 2008 and it took until February of 2010 to receive the completed report. It was the goal and intention of the project coordinator to have these structures built in fiscal year 2010, but due to the hold ups with the archeological process this was not completed and would appear to reflect badly on the success of the overall project.

It is the feeling of the project coordinator that this issue needs to be discussed and a more streamlined, time specific process needs to be developed to ensure that the project continues to move forward as scheduled. Although it appears that construction of these sites will take place during fiscal year 2011, it is hard to accept the fact that the field office level work was completed in a timely manner only to have the project held up for nearly three years by processes that are required to be completed outside of the local office.

Part 9 - Future Activity Recommendations

The Brushy Creek Lake Water Quality Project is set to end on June 30, 2010. The project is currently in the fifth year and was granted a one year extension for fiscal year 2010. There are several projects that have been identified as needed to add to the overall success of the project, but have not been able to be completed due to several factors.

The first activity that needs to be completed is the construction of 14 proposed structures on Iowa DNR lands around the lake that have active gullies contributing sediment directly to the lake. These structures are vital to the long term preservation of the water quality in Brushy Creek Lake. The process of identifying and evaluating the gully sites around Brushy Creek began in the fall of 2007. Based on the assessment 52 gullies were evaluated with 16 of those sites determined to have active gully erosion occurring that was negatively impacting the lake at a combined gully and sheet/rill erosion estimate of 428 tons per year. The survey and design work for these structures was completed during the winter and spring of 2008 by SWCD and NRCS staff. Site location maps and work area locations were provided to the Iowa DNR Lakes Restoration Program (LRP) staff during the summer of

2008 and a bid proposal for archeological review was requested by LRP staff on August 29, 2008. The SWCD is currently estimating the cost of installing these structures at \$70,854.21. All of the cost estimates had a 10% miscellaneous expense added to them and 10% more was added to the total estimate to cover any unknowns that may occur during construction. This still leaves enough 319 funds to cover 75% (\$53,140.66) of the cost and it is anticipated that the Iowa DNR Lakes Restoration staff is set to fund the remaining 25% (\$17,713.55). This total includes 14 structures with 13 of these being Water & Sediment Control Basins and the other will be a Grade Stabilization Structure.

In total the Project Coordinator has invested all or part of 75 working days to get these sites surveyed and designed.

The archeological review revealed that there were no archeological sites found within the designated construction areas with the exception of "Site 7". It was agreed that the recommendation of the reviewer would be followed and this site would not be included in the current phase of the project so that progress could continue without delay on the rest of the sites. Instead this area will have additional reviews completed to determine the extent of this archeological site and two additional structure locations on the west side of the lake that were recently acquired by the Iowa DNR will be reviewed at the same time. The two additional sites would provide a sediment loading reduction of 77 tons per year. After talking with Iowa DNR Lakes Restoration staff it was agreed to proceed with this plan and seek cost share only if it was felt that the archeological review and construction could be completed before the end of the project in June of 2011. Further engineering review of "Site 13 East" will also be required and this structure will be left off the initial bid letting and added at a later date. This site is located in the north equestrian campground and presents a challenge because of the size of the drainage area in relation to the amount of available storage. A grade stabilization structure would work on the site; however, its location in the campground and proximity to a playground area could present risks to the campers, especially children. A better alternative will need to be found before work proceeds on this site.

The remaining 35 gullies that were assessed were determined to have little or no active gully erosion occurring at this time. This could change in the future as land uses are changed in the park. Many of these sites currently have the upland portion of the drainage area seeded to native prairie or hay/alfalfa; however, the fields are often rotated back into row crop production periodically. If this was to happen it would be necessary for an evaluation of these sites again to determine the extent of erosion, if any, begins to occur. An evaluation of these sites is recommended every few years regardless of the land use to determine soil loss into the lake.

The SWCD and WCCB were contacted in January of 2010 about the Iowa DOT's need for additional mitigation acres in Webster County. An area on the northeast side of Miller Marsh will be focused on for purchase and development of these acres. The SWCD and NRCS will continue to work with the conservation partners in the area to further develop the Miller Marsh Wildlife Area.

Webster County Soil and Water Conservation District

Protect our Soil and Preserve our Water

Fort Dodge, IA 50501 1200 ½ 3rd Ave. NW Phone: (515) 573-4411 Fax: (515) 573-5539

Commissioners:

Douglas Seltz, Chairman
David Stein, Vice Chairman
Perry Black, Treasurer
Gary Hammitt
Danny Hansen

Staff:

Denis Schulte, District Conservationist;
Kevin Barkley, Soil Conservation Technician;
T. J. Lynn, Brushy Creek Watershed Coordinator;
Jackie Fevold, State Secretary
Tracy Anderson, District Soil Conservation Technician
Ashley Gramza, DNR Americorps



2008- Challenges and Opportunities

Chairman's Comments

By Douglas K Seltz

"Operation Strip-Till" kicked off in Webster County this past year. The intent of this program is to allow operators to try strip-till in their operation and compare it to their normal practices without incurring the costs of purchasing the machinery. Two strip-till machines were purchased and meetings were held to introduce this program to the operators in Webster and surrounding counties. The first meeting was held on March 17 with 74 people in attendance and over 2,650 acres signed up for strip-till. A second meeting held in conjunction with the Ann Smeltzer Charitable Trust at their ISU Learning Farm near Otho. There were 96 operators that attended that event and it was a good way for everyone to see a first-hand demonstration of what these machines do. Cost share is available through the Environmental Quality Incentives Program (EQIP) that offers a five year contract. In addition, if you are in the Brushy Creek Watershed an additional \$10 per acre incentive is available to give strip-till a try. Anyone interested in strip-till on their farm should stop in and ask about the EQIP incentives soon or if you are interested in having a portion of your farm strip-tilled in the fall of 2009 so that you can compare the results, please contact the office at (515) 573-4411 ext. 3

Report of Webster Soil & Water Conservation District

FY 2008 District Funds

Jacque Johanson, District Treasurer

1M BUDGET

RECEIPTS

1 M Allocation	\$ 2,100.00
Supplemental	24.81
Total Allocation	\$ 2,124.81

EXPENDITURES

Commissioner Expense	\$ 918.74
NACD	775.00
CDI Dues	725.00
Office Expenses	57.18
Total Expenses	\$ 2,475.92
Balance	(-351.11)

WSPF Waterway	\$ 9,000.00
WSPF-WSCB	\$11,250.00
WSPF Streambank	\$ 7,250.00

3 M BUDGET

Allocation	\$ 41,569.05
Supplemental	1,157.00
	\$ 42,726.05

Obligated	\$ 42,726.05
Unobligated	--0-

PUBLIC OWNED FUNDS

Allocation	\$ 93,557.51
Supplemental	8,901.00
	\$102,458.51

Obligated	\$102,458.51
Balance	-0-

REAP PRACTICES

Allocation FY08	\$ 15,953.59
Obligated	\$ 9,560.04
Unobligated	\$ 6,393.55

REAP FORESTRY

Allocation FY08	\$ 3,818.50
Unobligated	\$ 3,818.50

WS - 319

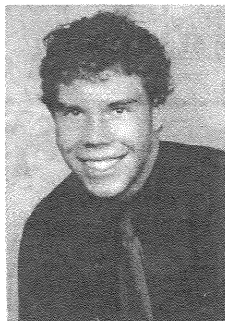
Allocation	\$119,966.00
Obligated	6,110.40
Unobligated	\$113,855.56



Commissioners Highlights

By Jackie Fevold
District Secretary

Profits from the District tree sale provide funds for staffing and the finances to provide scholarships, ribbons, and award monetary prizes for winners in the various District programs.



Eric Frederickson

- Awarded a \$500.00 scholarship to Eric Frederickson who is going into an agricultural field at college.
- Provide funds to employee Tracy Anderson as a District employee to promote conservation filter strips, buffers, and farmable wetlands.
- Fund a part-time/volunteer employee with wages and transportation.
- Employ T.J. Lynn as a 319 coordinator for Brushy Creek.
- Pay the registration fee of \$200.00 for the Webster County 4-H State Fair Queen Kristine Lawler to go to the state fair which includes the sash and crown to wear.
- Presented a watch to the Webster County 4-H King Logan Brinkman. King, Queen, and runner-ups were presented framed certificates.
- Each year the District promotes the soil and water conservation poster contest for K-12 students.

2008 Poster Contest Winners

K-1 grade Derek Girard -1st
 Brian Pearson -2nd

- The District presents all participants with ribbons-1st place winners received \$25.00, 2nd place received \$20.00, 3rd place received \$10.00.

2-3 grade Sydnee Waggoner -1st

- First place winners in each division advance to the regional level. Sydnee Waggoner and Scott Skophammer received \$35.00 for 1st place at the regional level.

4-6 grade Zach Larson- 1st
 Connor Hokinson -2nd

7- 9 grade Tyler Kennedy-1st
 Tiffany Kinnetz-2nd

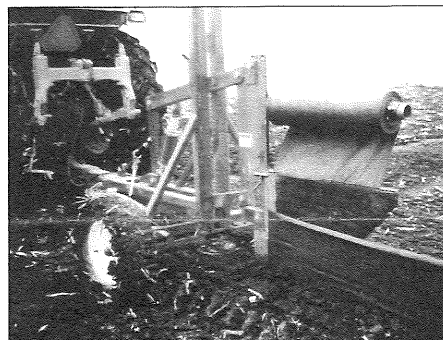
- Art Instructors from Cooper, Northwest Webster, Manson, and Fort Dodge High School each received \$50.00 art supply certificates for having a first place poster winner from their school.

10-12 grade Scott Skophammer-1st
 Kaitie Duszynski-2nd
 Saran Fiebiger-3rd

- The District partners with the Kiwanis Club, City of Fort Dodge, Webster County Conservation, and the Phil Fox Chapter of Izaak Walton to provide a tree to every 5th grader in Webster County for Arbor Day. This year they chose the Pin Cherry.
- Purchased a Strip Till Unit. Held Operation Strip Till informational meeting in March followed by a field day in August at the Smeltzer Learning Farm to show how Strip Till can save money. Farmers can contract with the District, and they will provide tractor and strip till unit so farmers can see the results on their farm before making a major investment..
- Work with ISU Extension and Webster County Conservation Board to provide education material and funding for various programs and tours.

Fabric Machine

The Webster County Soil and Water Conservation District has a fabric check machine that can be rented by anyone. If you are constructing a new waterway or have an area where erosion is occurring, installing fabric checks may be your answer. It reduces gully erosion giving the seeding a chance to become established. The machine can be rented with or without the purchase of the fabric.



2008 Proves To Be A Good Year For The Brushy Creek Watershed Project

By T.J. Lynn

Brushy Creek Watershed Project Coordinator

The SWCD staff has been busy over the past eight months or so since our last newsletter was sent out. The water quality grant focusing on Brushy Creek Lake has entered the fourth year now and is currently set to end on June 30 of this year; however, the staff is working on gathering information that should justify extending the project out for an additional year. Progress has been made in the Brushy Creek Watershed that is showing positive impacts on water quality. Recent figures released by the Iowa DNR Watershed Improvement Section in their "FFY 2008 Load Reduction Summary" show that of the 42 projects statewide, the Brushy Creek Project ranked in the top 5 for sediment, phosphorus, and nitrogen loading reductions.

The restoration of Miller Marsh was an important accomplishment for the project this year. The expansion of Highway 20 by the Iowa DOT across Webster County created the need for wetland mitigation and Miller Marsh proved to be the ideal site. The total cost of the project was approximately \$775,000 with the funding coming from many partners, including \$15,500 provided through the Brushy Creek Lake water quality grant. The restoration included the shallow excavation of 13 acres to increase the wetland size, the construction of a new berm for water control, and the replacement of the old county main with 3,500 feet of 18" dual wall non-perforated tile. Several smaller tiles that ran through the area were also replaced with non-perforated tile. The final steps will be to close the ag drainage well on site then seed the area. Miller Marsh should fill with water this spring and lead to improved water quality in Brushy Creek, while providing some much needed habitat for local wildlife and migratory birds.

Another focus this past year was the need to control the gullies around the lake. These gullies are adding sediment to the lake and have been accelerated with the heavy rains and high runoff experienced over the past few years. To help control these gullies one Water & Sediment Control Basin was installed in July that reduced the sediment loading into the lake by 51 tons annually. The SWCD and NRCS staff also spent a significant amount of time last spring surveying and designing 17 basins around Brushy Creek Lake. The installation of these basins will stop an estimated 400 tons of soil from entering the lake on an annual basis and construction is currently scheduled for fall.

There has been 22 acres of new enrollment into the CRP Farmable Wetlands Program this year that will hold an estimated 13 tons/acre/year in place. All but one of the expiring contracts was re-enrolled for another 10 years. These 18 acres will stop 105 tons of sediment from reaching the lake annually. Thank you to the landowners and operators who kept these practices in place. They are one of the most basic and most effective practices that can be installed for soil conservation.

As always added incentives and cost share are available for practices installed in the Brushy Creek Lake Watershed. **This includes a \$10 per acre payment to try strip-till on your farm.** If you have any questions about the project or a request for assistance on your land, please call the SWCD office at (515) 573-4411 ext. 3

Did You Know Badger Lake Is In The Top 25% For Lake Use In Iowa?

By T. J. Lynn

Badger Lake Development Grant Coordinator

According to the Iowa Lakes Valuation Project from 2002, Badger Lake ranked 4th out of 13 north central Iowa lakes and 33rd out of 133 lakes in the state for the number of trips made by visitors. That places Badger Lake in the top 25% in Iowa for use and helps contribute to the estimated \$9.7 million dollar impact that Webster County trails, park, and open spaces add to the local economy every year (ISU study, 2007).

Badger Lake is very important to Webster County, but faces many concerns when it comes to water quality. The lake itself is 45 acres, has a 12,572 acre drainage area, and has experienced a high rate of sediment and nutrient delivery since it was constructed. Assessments have been completed that estimate 353 tons of soil is delivered to the lake from land in the watershed annually. An additional 341 tons of soil is lost and delivered to the lake from the stream banks above the lake. Water samples taken in the watershed for the past year have shown elevated levels of nitrogen and phosphorus.

The Webster County SWCD has spent the past year working through a grant to complete the land assessments, water analysis, and the identification of areas that could be treated to address the resource concerns affecting the lake. We will continue to gather information through this summer and use it to apply for another grant in the spring of 2010. The next grant will supply funds that are used to pay for the installation of conservation practices to address the resource concerns of the lake.

CRP Rental Rate Now Pays Up To \$230 Per Acre Per Year

By Tracy Anderson
District CRP Specialist

The rental rate payments for land enrolled into the Conservation Reserve Program (CRP) have increased as of October 1st, 2008. This means that enrolling land into CRP could earn you up to \$230 per acre per year on practices, such as filter strips, wetlands, and grassed waterways. The annual rental payments for CRP practices are based upon the three most predominant soils in the area you want to enroll with contract lengths of 10 or 15 years. Cost share incentives cover up to 90% of the seeding and restoration costs. If you think you may be interested in any of these conservation practices on your land, please feel free to contact the office at (515) 573-4411 ext.3 to determine eligibility and rental rate estimates.

Mid-Contract Management Workshop Slated for Tuesday, March 3rd

By Ashley Gramza
Americorps Private Lands Wildlife Specialist

In preparation for all of the required mid-contract management that will be completed in the Spring, the Webster County NRCS will be hosting a mid-contract management workshop at the Heun Shelter at Kennedy Park on Tuesday, March 3rd from 10-3 PM. The morning session (from 10-12) will focus on MCM options, techniques, and recommendations for CRP contracts. The afternoon session (from 1-3) will focus on prescribed burns covering fire equipment, firebreak construction, ignition techniques, and where to get fire weather forecasts. This workshop is targeted for landowners or tenants required to complete mid-contract management on properties in Webster County in 2009 or 2010. Coffee and rolls will be provided, and the doors open at 9:30. You may attend one or both of these workshops. Please RSVP to the NRCS Office at 515-573-4411 by FEBRUARY 26th so that we can bring your aerial photos to the workshop. As a reminder, all CRP properties must complete mid-contract management between years 4-6 of a 10 year contract. Approved activities include, disking, disking and interseeding, burning, or burning and interseeding. Mid-contract management is important for controlling woody vegetation, increasing the plant community structure and diversity, and providing high quality wildlife habitat. If you plan on burning, a burn plan must be on file at the FSA office. For additional questions regarding burn plans or other mid-contract management techniques contact me at 515-573-4411 Ext 107.

Landowners Responsibilities

By Kevin Barkley
Soil Conservation Technician

Every year this county cost shares numerous types of practices with monies from many different sources. There are state, federal, and watershed funds available to build or install certain types of practices. The Natural Resource Conservation Service or NRCS is responsible for ensuring that these monies are spent on set practices and that those practices are installed to meet certain specifications. The NRCS does not hire the contractor or if needed fire the contractor. The NRCS staff oversees the construction to ensure that our specifications are being met. The NRCS also checks the projects for safety concerns, to ensure that our cultural resources are being preserved, and to certify that the entire project meets the standard. The NRCS is NOT the landowner's representative or the contractor's foreman or representative.

The landowner is responsible for:

- Making the planning decisions.
- Decides on the type of structure.

- Hires a contractor.
- Acquires the permits and easements.
- Follows federal, state and local laws.
- Satisfies archeological and wetland regulations.
- Pays the contractor after certification by the NRCS.

The Contractor is responsible for:

- Contacting Iowa One Call.
- Supervises construction
- Purchases specified materials.
- Follows plan drawings and Specs.
- Verifies compliance with standards.
- Insure safety.
- Trains employees.

The NRCS is responsible for:

- Surveying and designing the project.
- Developing a conservation plan.
- Reviewing the standards and plans with the landowner.
- Informing others of safety concerns.
- Ensuring that the components and entire practice meet the standard.
- Protection of cultural resources.

After construction is finished and the job is seeded then the NRCS will process the paper to allocate the cost share funds that were set aside. The landowner should check with the NRCS to make sure that all of the contractor's responsibilities are met before they pay. The landowner needs to remember that with any project there is a maintenance agreement that is signed that states that the practice will be maintained as built for a certain number of years. Waterways need to be mowed and may need silt removed terraces may need silt removed for around the intakes. Intakes may need dirt added around the edges. If interested in installing a conservation practice please contact the NRCS at 515-573-4411. Make sure that you sign up for cost share and have a design before any practices are started.

Low Interest Loan Available for Conservation Practices

By Jackie Fevold
District Secretary

The Iowa Department of Agriculture and Land Stewardship has a low interest loan available through the Local Water Protection Program with 3% interest available for landowners implementing permanent conservation practices on their land. Producers can use this loan in conjunction with EQIP, State Cost-share, and CRP funds to help finance needed conservation practices. The loan can be used for terraces, waste storage structure, water and sediment control basins, grassed waterways pasture and hay land planting, and grade stabilization structures.

Highlights of the fund include ...

- Funds are not based on financial need.
- The LWPP will provide loans from \$5,000 to \$50,000 for up to 100% of the project costs.
- There are no limits to the number of loans a landowner may receive.
- Loan terms up to 10 years with an interest rate of no more than 3%.
- A linked deposit loan structure allows landowners to work with their personal lender.
- Applications are accepted by the Webster Soil and Water Conservation Districts.
- Livestock water quality projects under \$10,000 with 1000 animal units or less are eligible under the LWPP.

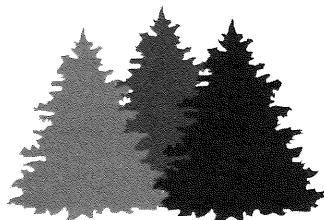
For further program details you contact the Webster Soil and Water Conservation District 515-573-4411 or Tony Toigo with the Division of Soil Conservation at tony.toigo@idals.state.ia.us or by phone at 515 281-6148.

2009 Tree Price List
WEBSTER COUNTY SOIL & WATER CONSERVATION DISTRICT
 1200 1/2 3RD AVE NW FORT DODGE, IA 50501

TERMS: NO GUARANTEE ON TREES! Payment of 50% of the cost at the time of order with full payment on orders of less than \$20.00. DEADLINE FOR ORDERING TREES IS MARCH 1, 2009. Trees will arrive early April. You will be contacted for pickup.

Check must accompany your order, Payable to: **WEBSTER SWCD**

Quantity		Size	Price/EA	Total
Deciduous Trees – (Bare Root) Sold in lots of 10 only.				
_____ 1.	RED OAK – Moderate growth	3-4'	2.50	_____
_____ 2.	PIN OAK – Slow growth	2-3'	2.00	_____
_____ 3.	SWAMP WHITE OAK – Slow growth	2-3'	2.00	_____
_____ 4.	SILVER MAPLE – Fast growth	4-5'	2.00	_____
_____ 5.	HACKBERRY – Moderate growth	2-3'	2.00	_____
Shrubs – (Bare Root) Sold in lots of 25 only.				
_____ 6.	AMERICAN HAZELNUT	2-3'	2.00	_____
_____ 7.	AMERICAN CRANBERRY – Height 8'	2-3'	2.00	_____
_____ 8.	NANNYBERRY – Height 8'	2-3'	2.00	_____
_____ 9.	ELDERBERRY – Height 8'	2-3'	2.00	_____
_____ 10.	COMMON NINEBARK – Height 8'	2-3'	2.00	_____
_____ 11.	AMERICAN PLUM – Height 8'	2-3'	2.00	_____
_____ 12.	NANKING CHERRY – Height 8'	2-3'	1.50	_____
_____ 13.	AMUR MAPLE – Height 12'	2-3'	1.50	_____
_____ 14.	REDOSIER DOGWOOD – Height 8'	2-3'	1.25	_____
_____ 15.	COMMON PURPLE LILAC – Height 12'	2-3'	1.25	_____
CONIFERS – (Evergreen) Minimum of 5 for each variety – Potted				
_____ 16.	RED CEDAR	15"-18"- 1 gal.	10.00	_____
_____ 17.	NORWAY SPRUCE – Height 60'	18"-24"- 2 gal.	15.00	_____
_____ 18.	WHITE PINE – Height 60'	18"-24"- 2 gal.	15.00	_____
_____ 19.	BLACK HILLS SPRUCE – Height 40'	18"-24"- 2 gal.	15.00	_____
_____ 20.	COLORADO SPRUCE – Height 40'	18"-24"- 2 gal.	15.00	_____
_____ 21.	WHITE SPRUCE – Height 40'	18"-24"- 2 gal.	15.00	_____



TOTAL ORDER	_____
6.5% SALES TAX	_____
TOTAL DUE	_____
PAID	_____
BALANCE DUE	_____

NAME _____

ADDRESS _____

CITY/STATE/ZIP _____

PHONE _____

Webster SWCD
1200 ½ 3rd Ave NW
Fort Dodge, IA 50501

To current resident, or:

NON PROFIT ORG
U.S. POSTAGE PAID
Permit NO. 999
FORT DODGE, IA 50501

Information Needed for each DSC Watershed Project

1. Project Name	Brushy Creek Lake Watershed Project
2. Project purpose	Lake Protection
3. Lead SWCD	Webster County
4. Other SWCD's included	-
5. Project goals	To reduce sediment and nutrient delivery to the lake.
6. Watershed size in acres	56,930
7. Year started	July, 2005
8. Primary problems to address	Sediment and nutrient delivery to the lake.
9. DSC dollars contributed	54,738.42
10. Partner dollars contributed	791,859.16 (Includes 319, POL, EQIP, and other contributions, but does not include CRP)
11. Landowner \$ contributed	7,172.09 (Does not include CRP costs)
12. Contact person	T.J. Lynn
13. Contact person phone	(515) 573-4411 ext. 3
14. Partners- for financial and technical help	Natural Resources Conservation Service, Webster County Conservation, local Iowa DNR, Webster County Pheasants Forever, Ducks Unlimited, Whitetails Unlimited, Iowa Department of Transportation
15. Briefly describe a human interest or historical significance component	The Webster SWCD worked with the County Conservation Board and five other partners that provided technical and financial resources to expand the Miller Marsh Wildlife area to a 185 acre upland/wetland complex that will work to clean the sediment and nitrates out of the water. This site will also serve as an important recreational resource and provide some much needed habitat in the northeastern corner of the county. This project has gained a significant amount of attention for the project through newspaper stories, magazine articles, and local partner publications and events.

See page two to add practices applied and amounts

Project Name: Brushy Creek Lake Water Quality Project

Practices applied in the project to date

[illegible]



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

Bill Northey, Secretary of Agriculture

TO: All Watershed/Water Quality Projects

FROM: Jim Gillespie, Field Services Bureau Chief
IDALS – Division of Soil Conservation (DSC)

DATE: March 26, 2008

RE: DNR/DSC Contract Changes

The following information is being distributed to provide clarification with regard to the changes that have occurred in the contracts developed between DNR and DSC. Please review this information carefully and if you have questions contact Mike Franklin at 515-281-6145 or Mike.Franklin@iowaagriculture.gov.

- The DNR/DSC agreements are now being developed to cover the entire time period of the Section 319 grant award and for the full amount of funding available. This allows for only one contract to be developed between DNR and DSC to cover the entire time line shown in original project application and for the total amount of the Section 319 grant awarded. Unless the project is extended or another grant is applied for and awarded to the same project, this will be the only DNR/DSC agreement you will receive.
- All funding sources will operate on the same budget time frame. WPF, WSPF, and Section 319 (whichever is applicable) will provide funding from July 1 to June 30 of each year. This will allow projects to synchronize reporting periods as well as supply funding at the same time each year no matter what the funding source. You will need to adjust the project reporting schedules and workplan to reflect this change. **Workplans and budgets will still be due to DSC by May 1st of each year unless otherwise indicated.**
- Workplans and budgets for each year of the contract should be kept with the contract as they represent the approved items for each funding period covered under the agreement.
- **Monthly reports will now consist of only a copy of the Administrative Spreadsheet.** There will be no narrative document. **These are to be submitted electronically as email attachments.** These monthly financial reports are still to be submitted by the 15th of the month that follows the reporting period.
- **Quarterly reports will be submitted utilizing the current format but will also be submitted electronically.** These reports will still be due by the 15th of the month that follows the end of the quarterly reporting period.
- **Annual reports will be due by August 1st of each year** and will include the items listed in the DNR-DSC contract as well as any other information that the project may be instructed to include (Please refer to the project reporting guidance or discuss this with the Regional Project Coordinator for the project area.). **These reports will also be submitted electronically.**
- **All reports are to be submitted to the following people:** Mike Franklin, the Field Representative for the District, the Regional Coordinator for the District, and the DNR Project Officer for the District. Kyle Ament and Rachel Glaza are the DNR staff serving as Project Officers. Kyle will serve in this capacity for Section 319 projects in all Districts in the area covered by Regional Coordinator, Jeff Tisl and for those Districts north of Interstate 80 covered by Bob Waters. Rachel will cover the Districts in Vince Sitzmann's area as well as those Districts south of Interstate 80 in Bob Water's area. A map illustrating each of the Project Officer's areas of responsibility has been included as another attachment with this document. The contact information for those shown above are as follows:



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

Bill Northey, Secretary of Agriculture

Mike Franklin at Mike.Franklin@iowaagriculture.gov
Cathie Graves at Cathie.Graves@iowaagriculture.gov
Paul Valin at Paul.Valin@iowaagriculture.gov
David Strom at David.Strom@iowaagriculture.gov
Vince Sitzmann at Vince.Sitzmann@iowaagriculture.gov
Jeff Tisl at Jeff.Tisl@iowaagriculture.gov
Bob Waters at Bob.Waters@iowaagriculture.gov
Rachel Glaza at Rachel.Glaza@iowa.dnr.gov
Kyle Ament at Kyle.Ament@iowa.dnr.gov

- **All project reports are to be accompanied by a cover page signed by the preparer and the District Chair.** This document should be scanned into the computer in the field office and electronically submitted along with the report. In the event that the District does not have access to a scanner, these documents may be faxed or sent via hard copy mail to DSC. If you are sending cover pages via hard copy mail, please notify Mike Franklin at DSC via email.
- Reports and attachments such as maps which may be too large to submit electronically should be submitted via hard copy mail until projects are further notified. 3 copies of these should be submitted and you should notify Mike Franklin at DSC that these documents are being submitted in this format. This notification should be done via email. DNR and DSC are working together to address the situation with the larger documents and projects will be notified once a solution has been determined.
- Any additional project information such as news articles, brochures, newsletters, or other project related items are to be included with the quarterly reports. They should be scanned into the computer in the field and then sent electronically with the report if possible. If the item is too large to be sent electronically or if you cannot scan it for whatever reason, you may send hard copies of it to DSC. Please submit 3 copies of each item and notify Mike Franklin via email that you are submitting them via hard copy mail but you are encouraged to use the scanner and email as much as possible with all items.
- **Annual Review Meeting will be moved up to May and June based on the project agreement between the District and DSC** which states that the annual review will be held prior to the end of the appropriate fiscal year (all funding periods now end June 30th).
- Final Reports are due to DSC at least 45 days prior to the ending date of the DNR-DSC contract shown on the front of the that document. If your project has multiple Section 319 grants providing funding to it, you will need to work closely with the Regional Coordinator for the area in determining the date for the submittal of the Final Report. If you have any questions with regard to this matter, please ask. The submittal for these reports via an electronic format will be addressed at later date once DNR and DSC have come to a decision with regard to this.
- Unless an extension is approved for a project, or other arrangements have been made, the project will need to be completed by the ending date shown on the DSC-DNR contract. Again, if the project is funded through multiple grants please make sure to work with the Regional Coordinator to verify the final report requirements and timeline.
- All signage installed as part of the project funded through a Section 319 grant will conspicuously show both the DNR and EPA logos on them. This same requirement applies to the IDALS-DSC logo if the Division supplies any funding or support of any kind to the project. Copies of these logos will be supplied to the projects **for this use and this use only**. Any other use of the logos must be cleared with the appropriate agency prior to their use on any type of display or use within a publication.
- **All changes to the reporting requirements outlined in this guidance will take affect starting with the April 2008 monthly report.**

DNR-DSC Contract Changes:

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- Quarterly reports will be submitted utilizing the current format but will also be submitted electronically. These reports will still be due by the 15th of the month that follows the end of the quarterly reporting period.
4th Qtr. Report due w/ annual report (includes in annual report)
- Annual reports will be due by August 1st of each year and will include the items listed in the DNR-DSC contract as well as any other information that the project may be instructed to include (Please refer to the project reporting guidance or discuss this with the Regional Project Coordinator for the project area.). These reports will also be submitted electronically.
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Rachel Glaza at Rachel.Glaza@iowa.dnr.gov

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- Annual Review Meetings will be moved up to May and June based on the project agreement between the District and DSC which states that the annual review will be held prior to the end of the appropriate fiscal year (all funding periods now end June 30th). These meeting will be an "Administrative Review" of the project for the partners during which concerns and issues will be discussed along with plans for the future of the project. Projects are encouraged to hold an additional "Public Review Meeting" which would serve as an Information/Education component of the project to highlight successes and encourage participation. This Public Review could be held on the same day as the Administrative Review but at a different time or on another day as determined appropriate by the project.
- Final Reports are due to DSC at least 45 days prior to the ending date of the DNR-DSC contract shown of the front of the that document. If your project has multiple Section 319 grants providing funding to it, you will need to work closely with the Regional Coordinator for the area in determining the date for the submittal of the Final Report. If you have any questions with regard to this matter, please ask. The submittal for these reports via an electronic format will be addressed at later date once DNR and DSC have come to a decision with regard to this.
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Iowa Lakes Valuation Project

[Find a lake of interest here](#)[Map of Iowa](#)[Alphabetical list of lakes](#)[Alphabetical list of counties](#)

Brushy Creek Lake

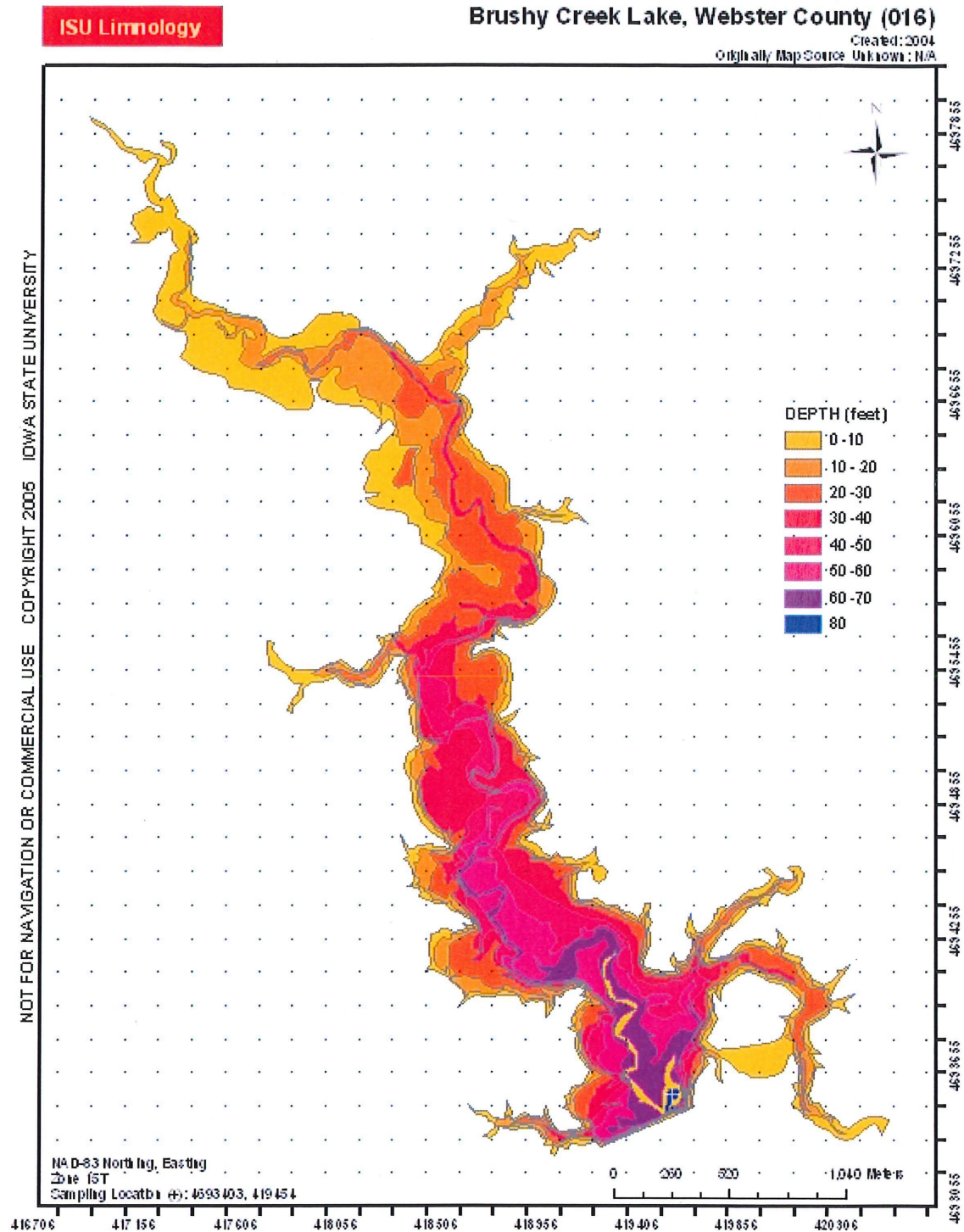
[General Overview](#)[Usage & Resources](#)[Water Quality](#)

Total Estimated Iowa Household Trip Data:

	Single Day 2002	Multi Day 2002	Total 2002
Trips	134,498	5,186	139,684
Regional (NC IA) Rank (of 13)	2	6	2
Total Iowa Rank (of 133)	16	52	19

Brushy Creek Lake DNR sites:

[IowaDNR Fish and Fishing](#)[Brushy Creek State Recreation Area](#)



You're Invited...



Miller Marsh Dedication & Open House

Please join the Webster County Conservation Board & Staff in celebration of the newly expanded Miller Marsh Wildlife Area!!

Project Overview

Acknowledgement of Partners

Site Visit/Hayride Tour

Lunch

Date: Friday, September 19th

Time: 10:00 a.m. - 12:30 p.m.

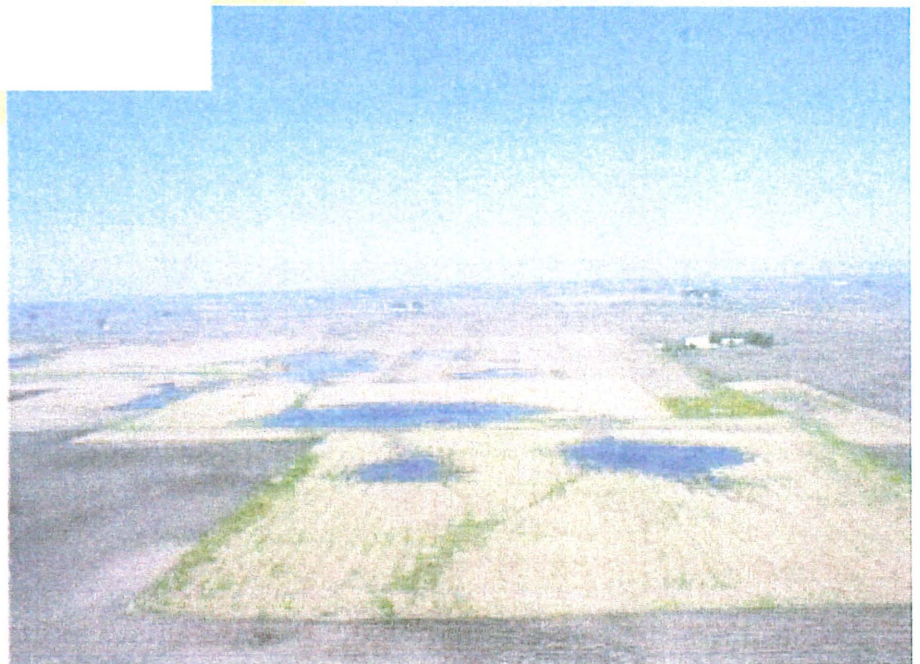
**Place: Bob Heun Shelter,
Kennedy Park**



Please RSVP by Sept. 17th
515-576-4258

or

conservation@webstercountyyia.org





HICKENBOTTOM, INC.



2074 HEMLOCK AVE. • FAIRFIELD, IOWA 52556

641-472-4786 • 1-800-443-7879 • FAX 641-472-4419

Badger

Dawinter logger = \$495

Bar. Press. logger = \$247.50

Data Shuttle = \$107.50

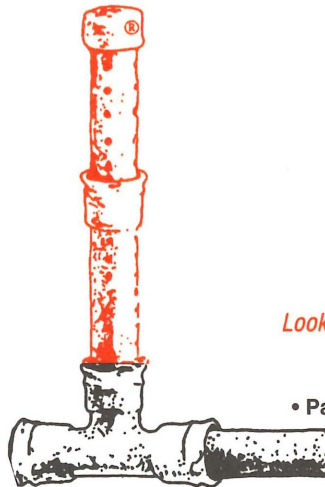
Hoboware AC = \$47.50

Flow Probe = \$365

\$1,262.50



Logger Rent



Brushy

Wagner logger = \$495

Bar. Press. logger = \$247.50

Extra logger = \$495

Data Shuttle = \$107.50

Hoboware AC = \$47.50

Flow Probe = \$365

\$1,757.50

(Paid \$750 in '08)

\$1,007.50

→ Pay \$500 now

Request to move

\$ for Spring Payment

Look for the bright orange inlet - Hickenbottom's Trademark

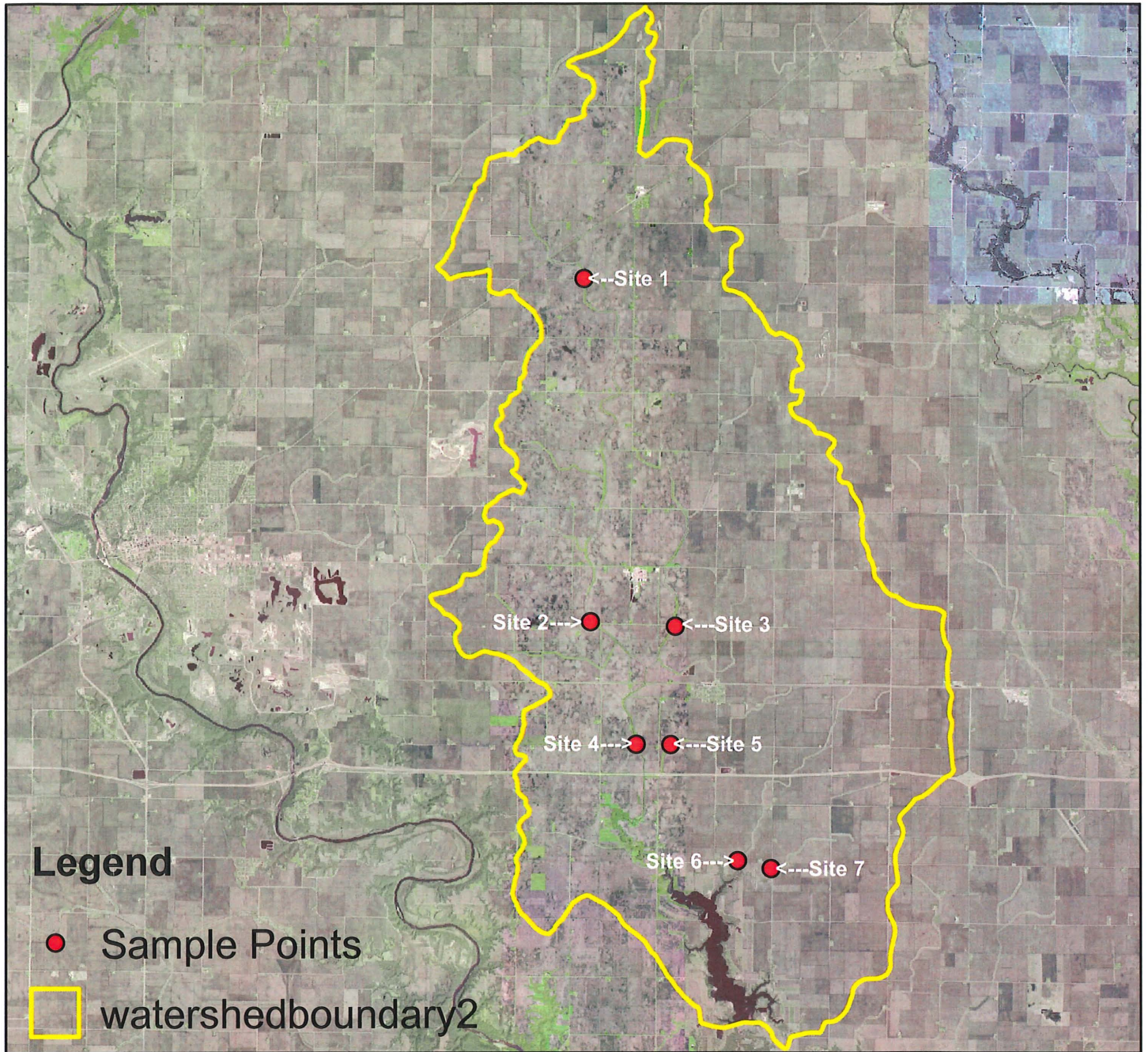
Culverts & Outlets

APPLICATIONS

- Parallel Terrace Outlets • Low-Spot Surface Inlets
- Catch Basins • Infiltration Inlet Riser

Water Sample Sites

Agency:



7,250 0 7,250 14,500 21,750 29,000
Feet



Site	Date Sampled	pH	Dissolved Oxygen mg/L	Nitrite-N mg/L	Nitrate-N mg/L	Phosphate mg/L
#1	3/2/2006	7	8	0.15	2	0
	5/8/2006	9	12	0.15	5	0.1
	5/10/2006	8	8	0.15	5	0.4
	6/7/2006	9	12	0.15	5	0.1
	Lab Analysis			0.05	18	
	8/14/2006	7	3	0.3	5	2
	10/23/2006	8	10	0.15	2	0.2
	12/6/2006	7	10	0	5	0.1
	Lab Analysis			0.05	11	
#2	3/3/2006	7	8	0.15	5	0
	5/8/2006	9	10	0.15	5	0.1
	5/10/2006	9	8	0.15	5	0.3
	6/7/2006	9	10	0	5	0.1
	Lab Analysis			0.05	19	
	8/14/2006	9	6	0.15	2	1
	10/23/2006	9	12	0	5	0.1
	12/6/2006	6	8	0	5	0.1
	Lab Analysis			0.05	16	
#3	3/3/2006	8	10	0.15	5	0
	5/8/2006	9	10	0.15	5	0.1
	5/10/2006	9	6	0	10	0.6
	6/7/2006	9	8	0	5	0.1
	Lab Analysis			0.05	16	
	8/14/2006	8	6	0.15	5	0.6
	10/23/2006	8	10	0	2	0
	12/6/2006	7	8	0	5	0.1
	Lab Analysis			0.05	14	
#4	3/3/2006	8	10	0.15	5	0
	5/8/2006	9	10	0.15	5	0.1
	5/10/2006	8	8	0.15	5	0.3
	6/7/2006	9	10	0	10	0.1
	Lab Analysis			0.05	20	
	7/26/2006			0.15	4	
	Lab Analysis			0.05	4.4	
	8/14/2006	9	8	0.15	5	0.4
	10/23/2006	8	12	0	5	0.1
	12/6/2006	7	8	0	5	0.1
	Lab Analysis			0.05	16	
#5	3/3/2006	7	12	0.15	5	0
	5/8/2006	9	12	0.15	5	0.1
	5/10/2006	9	12	0.15	5	0
	6/7/2006	9	8	0.15	5	0.1
	Lab Analysis			0.05	20	

7/26/2006			0	0	
Lab Analysis			0.05	<0.05	
8/14/2006	8	4	0.15	5	0.4
10/23/2006	7	8	0	5	0.1
12/6/2006	6	8	0	5	0.1
Lab Analysis			0.05	19	

#6	3/3/2006	7	12	0.15	5	0
	5/8/2006	9	12	0.15	5	0.1
	5/10/2006	9	10	0.15	10	0
	6/7/2006	9	8	0	10	0.2
	Lab Analysis			0.05	18	
	7/26/2006			0.15	2	
	Lab Analysis			0.05	0.4	
	8/14/2006	9	8	0.15	5	0.1
	10/23/2006	8	10	0	2	0
	12/6/2006	7	8	0	5	0
	Lab Analysis			0.05	19	

#7	3/3/2006	7	12	0.15	5	0
	5/8/2006	9	12	0.15	5	0.1
	5/10/2006	9	10	0	5	0.1
	6/7/2006	9	10	0.15	5	0.2
	Lab Analysis			0.05	16	
	7/26/2006			0	0	
	Lab Analysis			0.05	<0.05	
	8/14/2006	9	10	0.15	2	0.4
	10/23/2006	8	10	0	5	0
	Lab Analysis			0.05	14	

All Data

Lab Analysis

Test Date	Site #1	Site #2	Site#3	Site #4	Site #5	Site #6	Site #7
6/8/2006	18	19	16	20	20	18	16
12/6/2006	11	16	14	16	19	19	14
3/28/2007	12	16	18	17	17	13	17
5/16/2007	17	18	19	19	18	20	16
Average	14.5	17.3	16.8	18	18.5	17.5	15.8

Test Kit Analysis

Test Date	Site #1	Site #2	Site#3	Site #4	Site #5	Site #6	Site #7
6/8/2006	5	5	5	10	5	10	5
12/6/2006	5	5	5	5	5	5	
3/28/2007	9	10	10	6	11	11	10
5/16/2007	11	6	13	18	17	12	11
Average	7.5	6.5	8.3	9.8	9.5	9.5	8.7

Comparison

Before Hach Kit

Lab Analysis

Test Date	Site #1	Site #2	Site#3	Site #4	Site #5	Site #6	Site #7
6/8/2006	18	19	16	20	20	18	16
12/6/2006	11	16	14	16	19	19	14
Average	14.5	17.5	15	18	19.5	18.5	15

Total Average 16.9

Test Kit Analysis

Test Date	Site #1	Site #2	Site#3	Site #4	Site #5	Site #6	Site #7
6/8/2006	5	5	5	10	5	10	5
12/6/2006	5	5	5	5	5	5	
Average	5	5	5	7.5	5	7.5	5

Total Average 5.7

After Hach Kit

Lab Analysis

Test Date	Site #1	Site #2	Site#3	Site #4	Site #5	Site #6	Site #7
3/28/2007	12	16	18	17	17	13	17
5/16/2007	17	18	19	19	18	20	16
Average	14.5	17	18.5	18	17.5	16.5	16.5

Total Average 16.9

Test Kit Analysis

Test Date	Site #1	Site #2	Site#3	Site #4	Site #5	Site #6	Site #7
3/28/2007	9	10	10	6	11	11	10
5/16/2007	11	6	13	18	17	12	11
Average	10	8	11.5	12	14	11.5	10.5

Total Average 11.1

Iowa State University - John Downing
 253 Bessey Hall - 1020
 Ames, IA 50011
 Attn: Debbie Hurley

Statement

Statement #: Webster County SWCD -003
 Date: November 7, 2008
 Customer ID: BW

Bill To: T.J. Lynn
 Webster County SWCD
 1200 1/2 3rd Ave. NW
 Fort Dodge, IA 50501
 515-573-4411
 FAX 515-573-5539

Date	Type	Description	Number of samples	Amount Per Sample	Total per Sample	Balance
9/15/08	E. coli	Brushy Creek Lake	8	\$ 8.00	\$ 64.00	64.00
					Total	64.00

REMITTANCE	
Customer Name:	Webster County SWCD
Customer ID:	BW
Statement #:	Webster County SWCD -003
Date:	November 7, 2008
Amount Due:	\$64.00

Collection Date	Collection Time	Reported Sample ID	Reported Sample Description	Bacterial Analyte	MPN/100mL Undiluted Sample	Lower Undiluted Sample	Upper Undiluted Sample	Bacterial Analyte	MPN/100mL Undiluted Sample	Lower Undiluted Sample	Upper Undiluted Sample
9/15/2008	11:05	BC #1	Brushy Creek Lake #1	Coliforms	> 2419.6	1439.5	infini.e	E. coli	193.5	130.4	279.5
9/15/2008		BC #1	Brushy Creek Lake #1								
9/15/2008		BC #1	Brushy Creek Lake #1								
9/15/2008	11:20	BC #2	Brushy Creek Lake #2	Coliforms	> 2419.6	1439.5	infini.e	E. coli	387.3	245.9	567
9/15/2008		BC #2	Brushy Creek Lake #2								
9/15/2008		BC #2	Brushy Creek Lake #2								
9/15/2008	11:25	BC #3	Brushy Creek Lake #3	Coliforms	> 2419.6	1439.5	infini.e	E. coli	78.9	56.3	108.8
9/15/2008		BC #3	Brushy Creek Lake #3	Coliforms	> 2419.6	1439.5	infini.e	E. coli	96	68.4	131.7
9/15/2008		BC #3	Brushy Creek Lake #3								
9/15/2008	12:50	BC #4	Brushy Creek Lake #4	Coliforms	> 2419.6	1439.5	infini.e	E. coli	24.3	15.4	37.1
9/15/2008		BC #4	Brushy Creek Lake #4								
9/15/2008		BC #4	Brushy Creek Lake #4								
9/15/2008	11:30	BC #5	Brushy Creek Lake #5	Coliforms	> 2419.6	1439.5	infini.e	E. coli	410.6	260.6	618.9
9/15/2008		BC #5	Brushy Creek Lake #5								
9/15/2008		BC #5	Brushy Creek Lake #5								
9/15/2008	12:45	BC #6	Brushy Creek Lake #6	Coliforms	> 2419.6	1439.5	infini.e	E. coli	77.6	55.3	104.5
9/15/2008		BC #6	Brushy Creek Lake #6								
9/15/2008		BC #6	Brushy Creek Lake #6								
9/15/2008	11:45	BC #7	Brushy Creek Lake #7	Coliforms	> 2419.6	1439.5	infini.e	E. coli	238.2	165.2	340.8
9/15/2008		BC #7	Brushy Creek Lake #7								
9/15/2008		BC #7	Brushy Creek Lake #7								
9/15/2008	11:50	BC #8	Brushy Creek Lake #8	Coliforms	> 2419.6	1439.5	infini.e	E. coli	214.2	152.7	294.4
9/15/2008		BC #8	Brushy Creek Lake #8								
9/15/2008		BC #8	Brushy Creek Lake #8								

8 samples
E. coli 88

Chain of Custody Record

Iowa State University

Limnology Laboratory

150 Bessey Hall, Ames, IA 50010

(515) 294-7373

Report To: Name: T.J. Lynn Address: 1200 1/2 3rd Ave NW Fort Dodge, IA 50501 Phone: (515) 573-4411 ext. 3 Fax: PO#: (515) 573-5539									
Permit #	WWTP	Frequency	Project or Subject Reference			Samplers (signature):			
Sample ID	Sample Description	Collected		Analysis Requested	Grab/Comp.	No. of Cont.	Cont. Type	Preservative	
		Date	Time						
BC #1	Brushy Creek Site #1	9/15/08	11:05 am	E. coli					
BC #2	Brushy Creek Site #2	✓	11:20	E. coli					
BC #3	Brushy Creek Site #3		11:25	E. coli					
BC #4	Brushy Creek Site #4		12:50 pm	E. coli					
BC #5	Brushy Creek Site #5		11:30 am	E. coli					
BC #6	Brushy Creek Site #6		12:45 pm	E. coli					
BC #7	Brushy Creek Site #7		11:45 am	E. coli					
BC #8	Brushy Creek Site #8		11:50 am	E. coli					

Relinquished By:	Date/Time:	Field Parameters: pH: _____ Temperature: _____ Flow: _____ GPD Field Limits: Type of Flow: pH: _____ Temperature: _____	
Received By:	Date/Time:		
Relinquished By:	Date/Time:		
Received at Lab By:	Date/Time:		



Iowa Conservation Memo 08-14 (email)

United States
Department of
Agriculture

Farm and Foreign
Agricultural
Services

Farm Service
Agency

Iowa State
FSA Office
10500 Buena
Vista Court
Des Moines, IA
50322-3782

(515) 254-1540

FAX:
(515) 254-1573

May 14, 2008

Reply to: Conservation

TO: All Iowa USDA Service Centers
FROM: Derryl McLaren, State Executive Director
SUBJECT: SAFE Q & A's, #1

Q1. There are minimum size requirements of the habitat block for enrollment in each of the SAFE projects; is there a maximum size requirement authorized for enrollment?

A1. The habitat block does not have a maximum; however individual practice size requirements are provided in Iowa Exhibit 9 and are the same as those of the corresponding practice. For example, practice CP38B Shallow Water Area has a limit of 10 acres per tract.

Q2. Is the 25% incentive to restore hydrology authorized for CP38B Wetland Restoration and Wetland Restoration, Non-floodplain for SAFE?

A2. No.

Q3. Can a producer offer acres that expired from CRP 9-30-07 for SAFE before June 1 with an effective date of November 1 and crop it for 2008?

A3. Yes.

Q4. Can a producer offer acres that expired from CRP 9-30-07 for SAFE in August 2008 with a November 1 start date if the acreage was cropped in 2008?

A4. Under current eligibility provisions, this offer would be eligible dependent upon acres being available from the State allocation for the SAFE project.

Q5. Does the adjacent grassland/wetland complex that can be used in conjunction with SAFE acres to meet the minimum size requirement for Gaining Ground for Wildlife SAFE and Grand River Grassland have to be a native grass seeding?

A5. No, the only acres required to be seeded to native grasses are the acres enrolled in SAFE.

Q6. Does a habitat block of existing timber qualify as a grassland/wetland complex to be used in conjunction with SAFE acres to meet the minimum size requirement for Gaining Ground for Wildlife SAFE and Grand River Grassland?

A6. No. The existing timber would not be considered a grassland/wetland complex.

Q7. Existing woodlands adjacent to SAFE acres may be used to meet the 5 acre minimum size requirement. Are these existing woodlands required to be the same tree species as those being planned for the SAFE acres?

A7. No.

Q8. What is the practice length for SAFE practices?

A8. 10 to 15 years. This will be included in a future Iowa Amendment.

Q9. According to Iowa Exhibit 9, certain practices may be “stacked” against existing CRP practices to create larger blocks of habitat if both treat different resource concerns and by stacking the practices it makes the area more beneficial to wildlife. Can an existing CP33 be stacked against a CP38E Rare and Declining Habitat in the Gaining Ground for Wildlife SAFE since they appear to both treat the same resource concern?

A9. Yes. The CP33 would be targeting quail and upland birds where as the SAFE practice would be targeting pheasants, dickcissel, bobolink, and eastern meadowlarks. The SAFE habitat will also benefit grassland/wetland mammals, reptiles, insects, and amphibians as well as improve water quality and reduce erosion.

Q10. The District Forester will write the plans for the CP38C (CP3A and CP31), but what about the CP38E (CP4D)?

A10. FS will write the plan on the tree/shrub component because it will be specific as to the forestry requirements for SAFE and NRCS will write the plan for the grass seeding component.

Q11. What can be offered as a CP10? Same question for a field seeded to alfalfa.

A11. Expiring or expired native grasses. The alfalfa would need to be converted to natives to be eligible.

Q12. Do crops need to be removed from acres prior to the effective date of the CRP-1?

A12. Yes, the same as for other continuous CRP enrollments.

Q13. On expiring general CRP, do we use CP38E (CP2) or (CP10) as the corresponding practice?

A13. Load CP38E-2 if it is being converted to natives or CP38E-10 if the cover is existing natives. Since this is "expiring" CRP it would be eligible for c/s and PIP if applicable.

Q14. Iowa Amendment 23, Iowa Exhibit 9, states on page 50 that the practice shall not exceed 10 acres per tract and has an example of 3 separate shallow water areas on one tract totaling 6 acres. The example doesn't state these areas are stacked against any other grassland/wetland. Page 51 states the habitat blocks must be a minimum of 10 acres per tract. Is this a contradiction?

A14. Iowa Exhibit 9 will be amended to remove the examples for the CP38B Shallow Water Area because they do not apply to SAFE practices.

Q15. If a CP4D practice did not get SIP when offered as a CP4D, does it receive SIP when offered as CP38E and has never been in CRP?

A15. Yes.

Q16. CRP expires and producer crops the area for 1 year. Can these acres be offered for SAFE and receive SIP and PIP?

A16. Yes.

Q17. Iowa Exhibit 9 states that periodic management activities are required to be performed. What are the options for MCM?

A17. Iowa Exhibit 3 will be amended to include MCM for SAFE practices in the near future. Activities will be the same as for the current corresponding CRP practice.

Q18. Iowa Exhibit 9 states that plantings must be protected from destructive fire. Does this mean no burning for MCM?

A18. No. The term “destructive fire” is standard language in 2-CRP Exhibit 9 for practices in addition to SAFE.

Q19. Iowa Exhibit 9 states there is an exception for managed haying and grazing. Can SAFE practices be hayed and grazed?

A19. Yes, applicable practices CP2, CP4B, CP4D, and CP10 according to 2-CRP subparagraph 292 A, are eligible.

Q20. Can a producer terminate a REX contract and enroll the acres in SAFE?

A20. No. There would be no resource concern in this situation.

Q21. Is CRP considered eligible cropping history for SAFE?

A21. Yes, the same cropping history rules apply as for enrollment into general or continuous CRP.

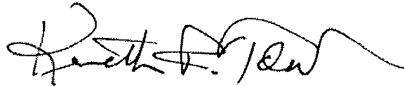
Q22. Are “conserving use” acres considered as eligible for cropping history for SAFE?

A22. Any land previously enrolled in CRP where the grass cover continues to be maintained as though enrolled in CRP, according to 2-CRP subparagraph 97 A.



Iowa Department of Agriculture and Land Stewardship
Bill Northey - Secretary of Agriculture

TO: All Soil and Water Conservation District

FROM: Kenneth R. Tow, Director 
Division of Soil Conservation

DATE: January 22, 2007

RE: Watershed Protection Fund (WSPF) and Section 319 Fund Public/Competitive Bidding Process Guidance

This message is being distributed by IDALS-DSC to all Soil and Water Conservation Districts to provide guidance relative to the "Public/Competitive Bidding" process. During the 2006 legislative session several changes were made in the thresholds and procedures to be utilized in relation to those applications or improvements (practices) that are required to use the Public/Competitive Bidding process. However, all code sections that needed to be modified were not addressed and further changes are being sought in the 2007 session.

Therefore, the following guidance is to be utilized by SWCDs relative to this process until further notice.

- The funding sources currently affected by this guidance remain the same as those previously required to use the public bidding procedure for applications with a total estimated cost in excess of \$25,000.00. These funding sources are the Watershed Protection Fund (WSPF) and Section 319.
- Any single application (IP-1) that obligates financial assistance from **WSPF and/or Section 319** in an amount in **excess of \$25,000** will be required to go through the bidding process. This means, for example, that if the total estimated cost of an application is in excess of **\$50,000.00** and the cost share percentage associated with the it is **50%** (WSPF/319 financial assistance in an amount in excess of \$25,000.00) , then the application would need to go through the bidding process or if the total estimated cost of an application is in excess of **\$33,333.33** and the cost share percentage associated with it is **75%** (WSPF/319 financial assistance in an amount in excess of \$25,000.00), then the application would be required to go through the bidding process.

As further clarification and additional changes are made to the legislation referenced in the first paragraph, IDALS-DSC will distribute updated guidance with regard to this matter. Until such time, the above stated guidance is to be followed.



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

PATTY JUDGE
SECRETARY OF AGRICULTURE

TO: All Water Quality Projects

FROM: Jim Gillespie, Field Services Bureau Chief
IDALS – Division of Soil Conservation (DSC)
Ubbo Agena, DNR Nonpoint Source Program Coordinator
Iowa Department of Natural Resources

A handwritten signature in black ink, reading "Jim Gillespie".

A handwritten signature in black ink, reading "Ubbo Agena".

DATE: December 13, 2005

RE: Public Bidding Requirements

This memo is being distributed to all projects being administrated under a contract between a SWCD and IDALS/DSC. This includes projects that are receiving financial assistance through the Water Protection Fund (WPF), Watershed Protection Fund (WSPF), and/or IDNR Section 319 Fund. It is very important that all those involved in the project read this document carefully and follow the guidance given within it.

Guidance has been received by DSC with regard to public bidding requirements for practices being funded in part or solely through funds from the IDNR Section 319 program. **Those practices that are being funded in any amount with IDNR Section 319 funds and have an estimated TOTAL PRACTICE COST OF \$25,000.00 or more are required to go through the public bidding process. This is the same guidance that applies to practices being funded with WPF and/or WSPF financial assistance.**

Project Coordinators need make sure this guidance is followed for all practices receiving any funds in any combination from WPF, WSPF, and/or Section 319. Those projects that need the public bidding documents should contact Mike Franklin IDALS/DSC for an electronic copy of them. If you have any questions with regard to whether a practice is required to go through the public bidding process, please contact your respective Field Representative or Regional Coordinator.

Brushy Creek

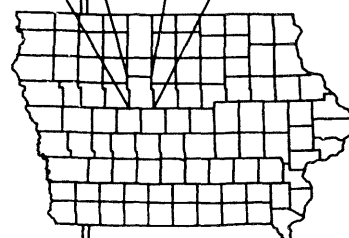
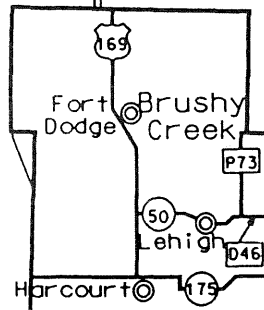
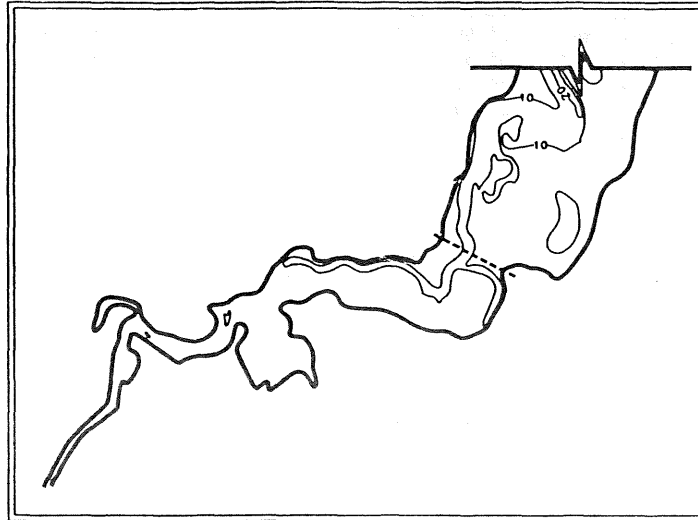
WEBSTER COUNTY

LEGEND

POOL ELEVATION: 1055'

-  BOAT RAMP
-  10 FT. CONTOUR LINE
-  SILT SILL
-  CREEK CHANNEL
-  FISHING JETTY
-  UNIVERSALLY ACCESSIBLE FISHING PIER
-  BEACH
- 690 ACRES

INSET OF NORTHERN SECTION



TO P73

SEE INSET

TO P73

NORTH
EQUESTRIAN
CAMPGROUND

MAIN
ENTRANCE

TO P73

TAYLOR'S
ISLAND

NON-
EQUESTRIAN
CAMPGROUND

FAMILY
CABINS

SCALE
0 1,250 FT.



Brushy Creek

WEBSTER COUNTY

LEGEND

POOL ELEVATION: 1055'

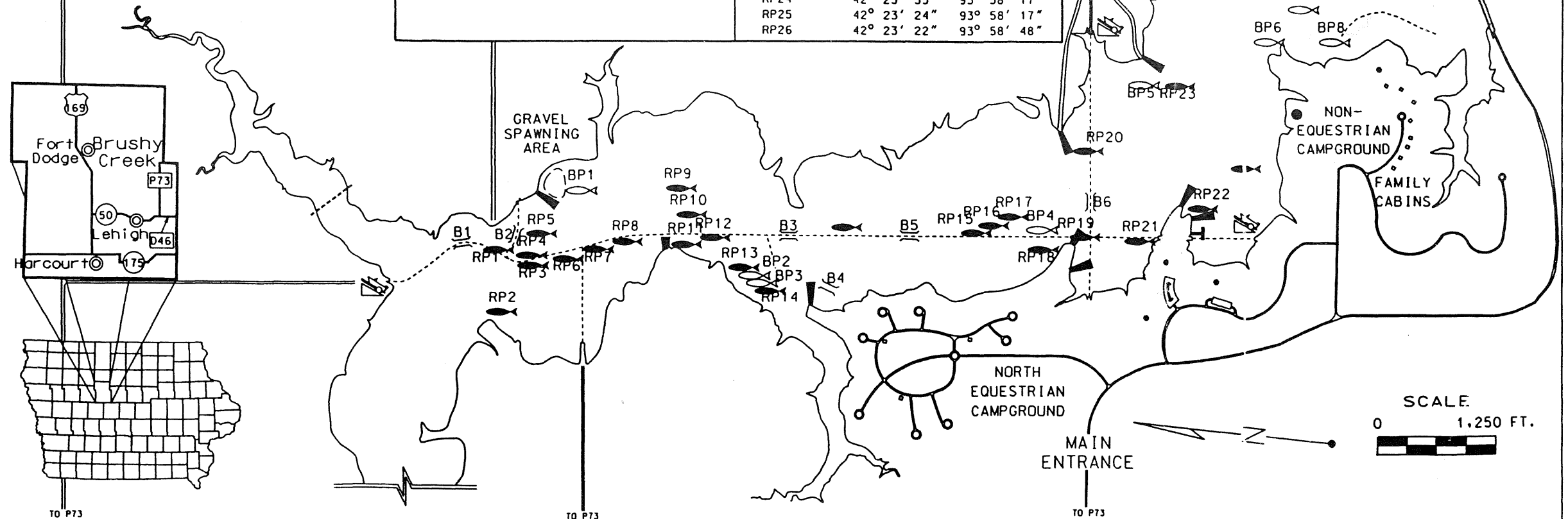
- BOAT RAMP
- FISHING JETTY
- BRIDGE
- SUBMERGED ROAD BED
- SILT SILL
- UNIVERSALLY ACCESSIBLE FISHING PIER
- ROCK PILE
- BRUSH / LOG PILE
- BEACH

FEATURE LOCATIONS

BRIDGES	LATITUDE	LONGITUDE
B1	42° 24' 59"	93° 59' 29"
B2	42° 24' 54"	93° 59' 29"
B3	42° 24' 25"	93° 59' 27"
B4	42° 24' 21"	93° 59' 34"
B5	42° 24' 13"	93° 59' 27"
B6	42° 23' 54"	93° 59' 23"

BRUSH PILES	LATITUDE	LONGITUDE
BP1	42° 24' 48"	93° 59' 20"
BP2	42° 24' 29"	93° 59' 32"
BP3	42° 23' 59"	93° 59' 33"
BP4 (LOG PILE)	42° 23' 59"	93° 59' 25"
BP5	42° 23' 49"	93° 59' 06"
BP6	42° 23' 35"	93° 58' 58"
BP7	42° 23' 32"	93° 58' 54"
BP8	42° 23' 28"	93° 58' 59"
BP9	42° 23' 23"	93° 58' 42"

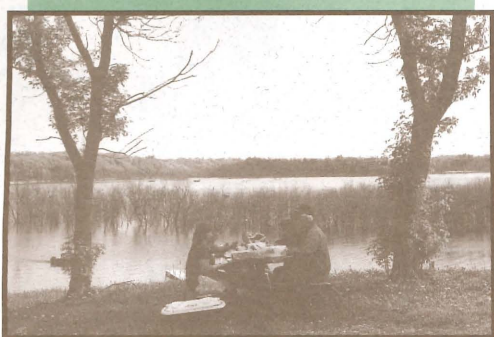
ROCK PILES	LATITUDE	LONGITUDE
RP1	42° 24' 56"	93° 59' 29"
RP2	42° 24' 55"	93° 59' 37"
RP3	42° 24' 53"	93° 59' 31"
RP4	42° 24' 54"	93° 59' 29"
RP5	42° 24' 52"	93° 59' 26"
RP6	42° 24' 49"	93° 59' 30"
RP7	42° 24' 45"	93° 59' 29"
RP8	42° 24' 42"	93° 59' 27"
RP9	42° 24' 35"	93° 59' 21"
RP10	42° 24' 36"	93° 59' 25"
RP11	42° 24' 38"	93° 59' 28"
RP12	42° 24' 34"	93° 59' 27"
RP13	42° 24' 30"	93° 59' 31"
RP14	42° 24' 28"	93° 59' 34"
RP15	42° 24' 06"	93° 59' 24"
RP16	42° 24' 04"	93° 59' 24"
RP17	42° 24' 01"	93° 59' 26"
RP18	42° 23' 58"	93° 59' 28"
RP19	42° 23' 55"	93° 59' 27"
RP20	42° 23' 56"	93° 59' 14"
RP21	42° 23' 47"	93° 59' 27"
RP22	42° 23' 42"	93° 59' 22"
RP23	42° 23' 47"	93° 59' 04"
RP24	42° 23' 35"	93° 58' 17"
RP25	42° 23' 24"	93° 58' 17"
RP26	42° 23' 22"	93° 58' 48"



SCALE
0 1,250 FT.

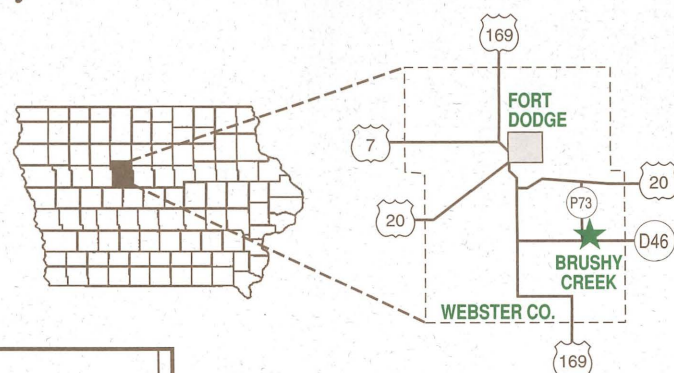
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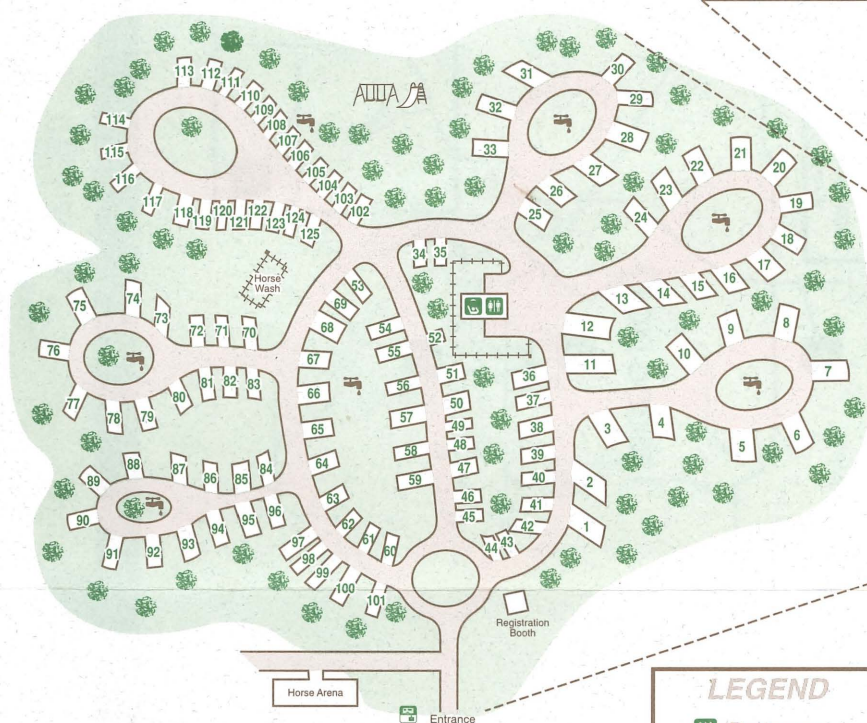
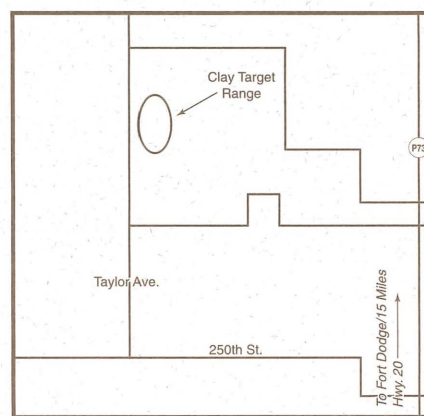
EMERGENCY 911

Weather Information
K-97 (96.9 on FM Dial)



Area Attractions

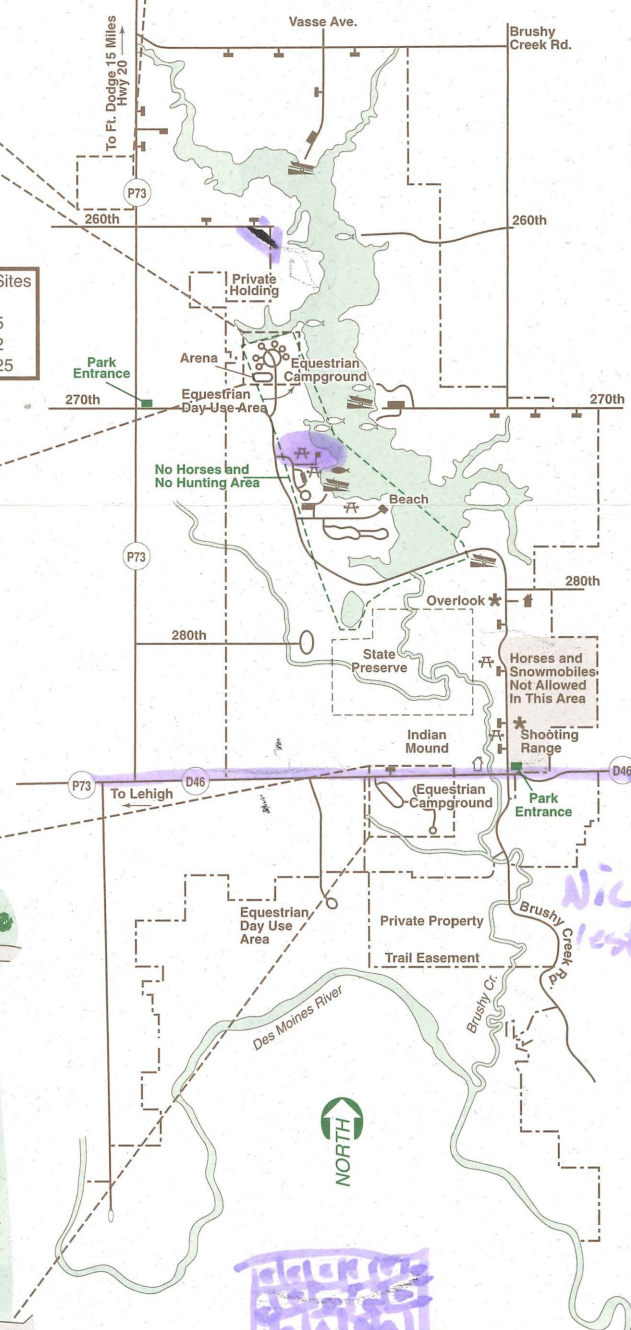
- Fort Museum & Frontier Village
- Webster County Courthouse
- Dolliver Memorial Art Park
- Blanden Memorial Art Museum
- Scenic Dragoon Trail
- Grotto of Redemption



Electric Sites
1-12
25-35
50-52
102-125



Sites
1-62 (50 Amp Electric)
63-70 (50 Amp Full Hook-Up)



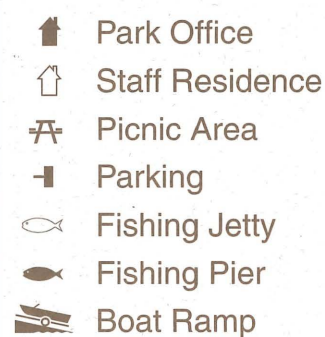
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- Do not leave pets unattended.
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- Only registered campers are permitted in area after 10:30 PM.
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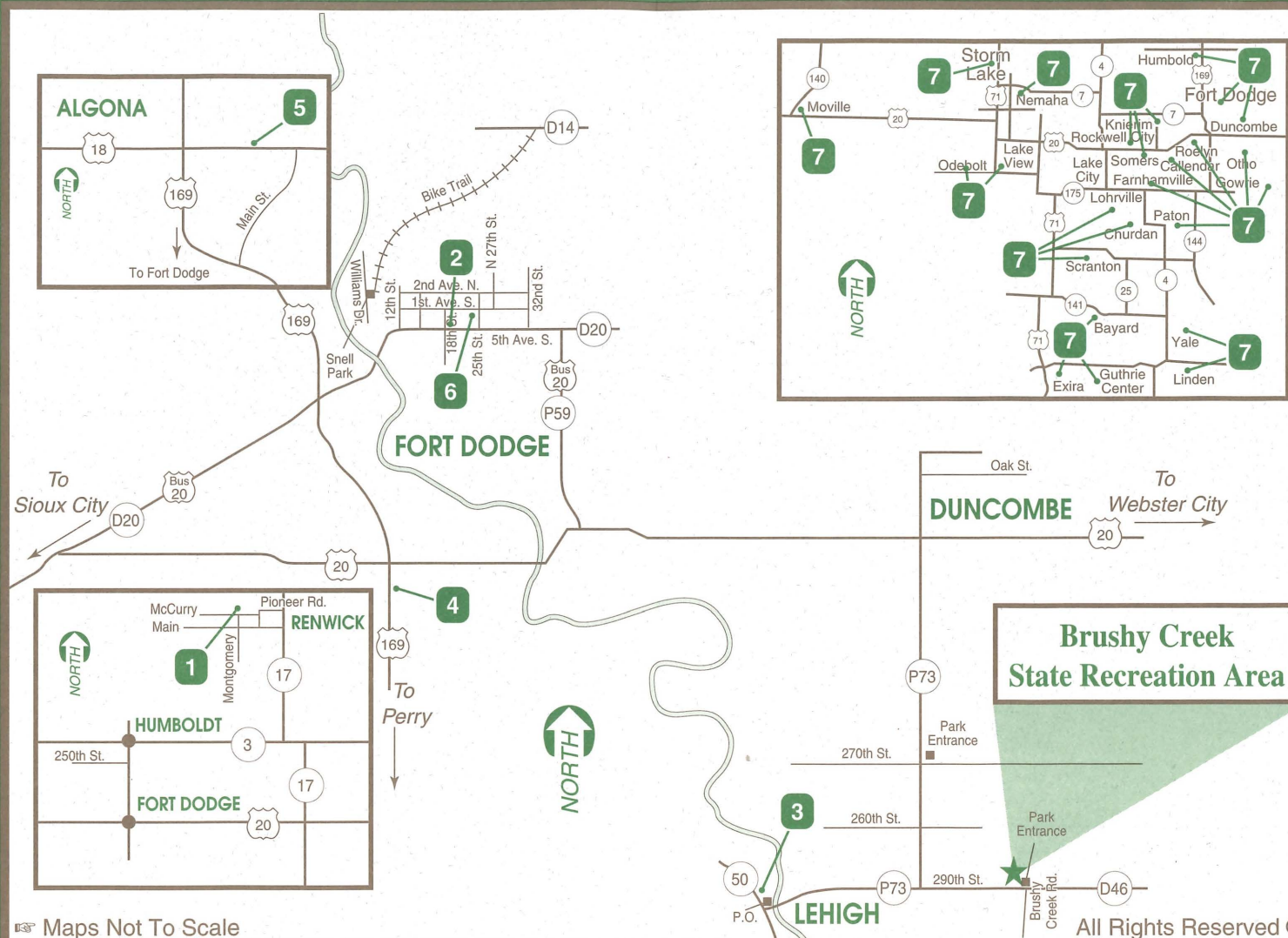
2

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BRUSHY CREEK STATE RECREATION AREA

Brushy Creek is one of the largest outdoor recreation areas in Iowa. Its 4,200 acres of fields, woodland, and stream valley offer year-round outdoor recreation opportunities in a beautiful setting.

At present, few developed outdoor recreation facilities are present at Brushy Creek. Yet, the area is very popular for a variety of outdoor recreation pursuits. Brushy Creek has become a popular destination for trail enthusiasts. Equestrians enjoy riding through its many miles of bridle trails. In the winter, snowmobile enthusiasts and cross-country skiers enjoy the challenge which faces them on the area. Hikers enjoy walking the many miles of trail which traverse grasslands, woodland, and stream valley terrain.

CAMPING AND PICNICKING

Camping is a popular pursuit at Brushy Creek. A major campground has been developed for both equestrian and non-equestrian camping. The 110 site campground features paved roadways, gravel pads, hitch rails and 10 electrical sites. At present, no modern shower or rest room facilities are present in the equestrian campground, although water is available. Camping permits are obtained through self-registration at the campground.

The nonequestrian camper also has the opportunity for camping in a beautiful site located along scenic Brushy Creek in the southeast corner of the park. This area is also available for picnicking.

HUNTING

Hunting is one of the most popular activities at Brushy Creek. Every year, hunters pursue a variety of game species ranging from pheasants, quail, rabbits and squirrels to white-tailed deer and wild turkeys. A number of designated parking areas are located throughout Brushy Creek to provide convenient access to the hunter.

FISHING

Fishing is also a popular activity at Brushy Creek. The creek provides not only scenic beauty but also a challenge to the angler with smallmouth bass and panfish favorite catches.

NEIGHBORING TOWNS

Lehigh is located five miles southwest on D46.

Duncombe is located five miles north on P73.

Ft. Dodge is located approximately 15 miles northwest of Brushy Creek.

STATE PARK USER PERMIT

At Brushy Creek, Park User Permits are required only in designated locations. These are: the main campground and the picnic/non-equestrian campground in the southeast corner of the area. Annual permits are available at the park office. Daily permits are available at posted locations in the park.

All funds raised through the sale of user permits are deposited in a trust fund to be utilized solely for the renovation and replacement of state park facilities.

EQUAL RECREATIONAL OPPORTUNITIES

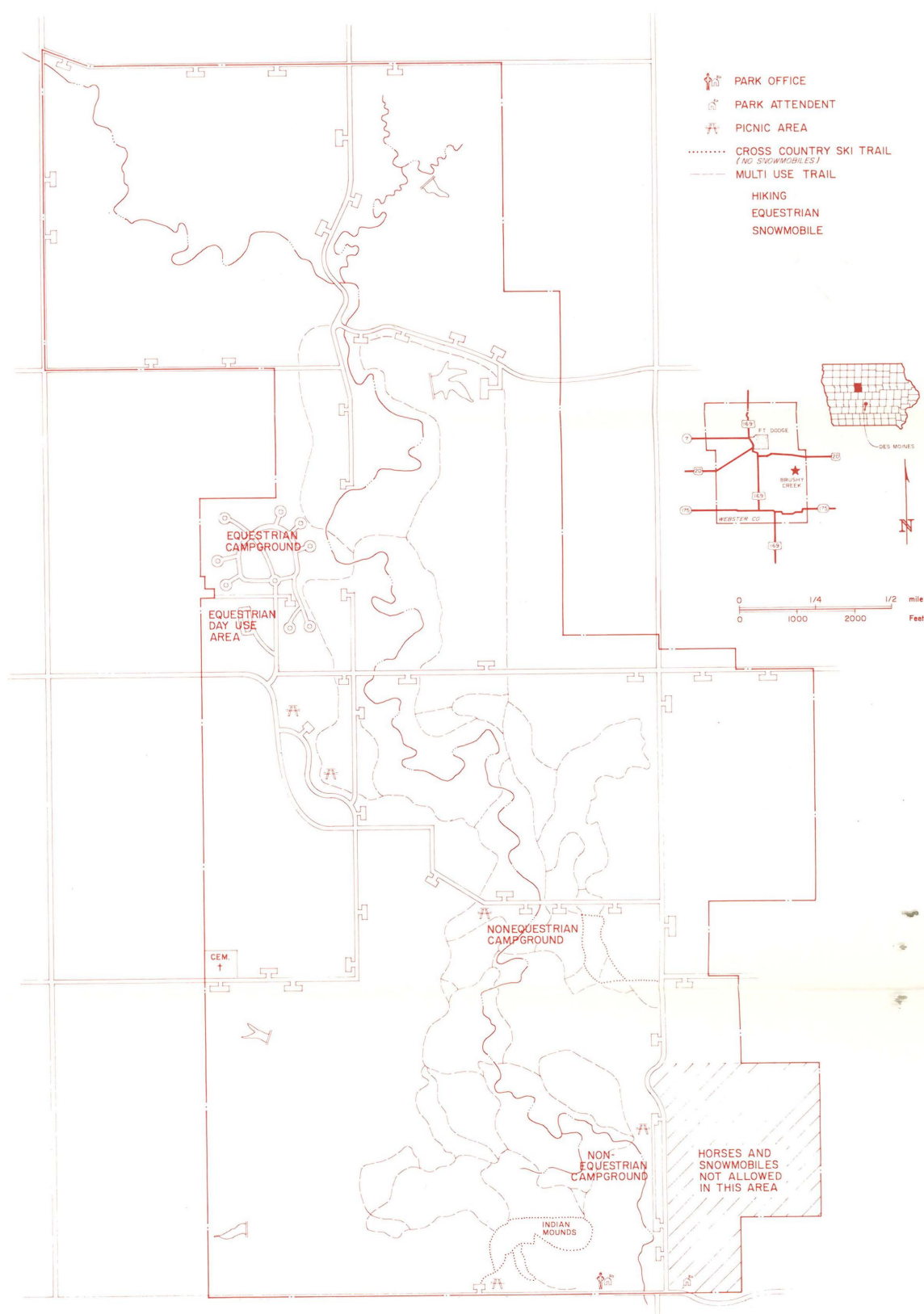
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**Iowa Department of Natural Resources
Wallace State Office Building
Des Moines, Iowa 50319-0034**

BRUSHY CREEK STATE RECREATION AREA



**R.R. 1, Box 150
Lehigh, Ia 50557
Telephone 515/359-2501**





A Division of the Iowa Department of Cultural Affairs

March 15, 2010

In reference to R & C#: 100294136

Ms. Leah Medley
United States Environmental Protection Agency
Region 7
901 North 5th Street
Kansas City, Kansas 66101

RE: EPA – WEBSTER COUNTY – BRUSHY CREEK STATE PARK – WATERSHED IMPROVEMENT PROJECT
– INSTALL EROSION CONTROL STRUCTURES – PHASE I ARCHAEOLOGICAL SURVEY [CAS-846]

Dear Ms. Medley,

We have received your February 22, 2010 letter and the attached report entitled *Archaeological Investigations for a Proposed Watershed Improvement Project, Brushy Creek State Park, Webster County, Iowa [CAS-846]* prepared by Mr. Jonathan R. Sellars and Leslie A. Ambrosino of Consulting Archaeological Services, Creston, Iowa for the Iowa Department of Natural Resources. We make the following comments and recommendations based upon the results of this investigation and in accordance with Section 106 of the National Historic Preservation Act of 1966 (16 U.S.C. 470 *et seq.*) and its implementing regulations 36 CFR Part 800 (revised, effective August 5, 2004).

Preliminary records review revealed the presence of one archaeological site (13WB164) within the project area of potential effects at Area 7. Another site (13WB171) is plotted on the *I-Sites Archaeological Sites and Surveys Database* near Area 8. However, it is indicated that the exact boundaries of this site are unknown. The negative results from survey of area 8 seem to demonstrate that the boundaries of 13WB171 do not extend into the project area. The present survey identified three new sites designated 13WB578, 13WB579, and 13WB580. All are described as dispersed, low density lithic scatters of unknown prehistoric cultural affiliation. The consulting archaeologist has recommended that these sites be considered ineligible for listing in the National Register of Historic Places citing poor integrity and limited research potential. We agree with this assessment.

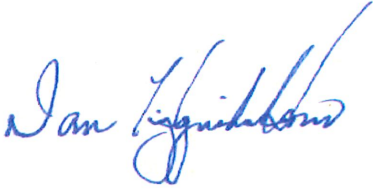
You indicate in your cover letter that the EPA is not yet prepared to provide a determination of effects for this undertaking owing to questions surrounding the presence of site 13WB164 in Area 7 which was determined eligible for listing in the National Register of Historic Places by the Keeper in 1981. Given the reported cultural affiliation (Late Woodland), the inclusion of 'bone' in the early artifact inventory, and the site's position on the landscape, we recognize the potential sensitivities and agree that caution before proceeding with the undertaking is in order.

The EPA has proposed that the activities in other areas be allowed to proceed as planned and that Area 7 be avoided until additional information is presented that would support an agency determination of effect regarding 13WB164. While programs for phased identification and review of historic properties are permitted that would allow a project to proceed before consultation has concluded (36 CFR Part 800.4(b)(2)), they must be operationalized under a programmatic agreement executed by the federal agency, SHPO, and project proponents, and Advisory Council on Historic Preservation.

If this undertaking is time-sensitive, a more expedient approach might be for the EPA in consultation with the DNR to eliminate the Area 7 project from the scope of this undertaking and pursue it as a separate federal action under a separate environmental review. Once a clean separation has been made, consultation could conclude and work in the other project areas could begin. Consultation for Area 7 would then resume along a separate line as a distinct undertaking.

We look forward to resuming consultation on this project. Please keep us informed on how your agency and project proponents decide to proceed. Until then we will retain this file in our active holdings and take no further action. If you have any questions I can be reached at (515) 281-8744 or by email at Daniel.higginbottom@iowa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dan Higginbottom". The signature is fluid and cursive, with the first name "Dan" written in a larger, more prominent script than the last name "Higginbottom".

Daniel K. Higginbottom, Archaeologist
Iowa State Historic Preservation Office

Cc: George Antoniou, Iowa Department of Natural Resources
Jonathan R. Sellars, Principal Investigator, Consulting Archaeological Services



A Division of the Iowa Department of Cultural Affairs

April 9, 2010

In reference to R & C#: 100294136

Ms. Leah Medley
United States Environmental Protection Agency
Region 7
901 North 5th Street
Kansas City, Kansas 66101

RE: EPA – WEBSTER COUNTY – BRUSHY CREEK STATE PARK – WATERSHED IMPROVEMENT PROJECT
– INSTALL EROSION CONTROL STRUCTURES – PHASE I ARCHAEOLOGICAL SURVEY [CAS-846] –
ADDITIONAL INFORMATION

Dear Ms. Medley,

We have received your March 20, 2010 letter in which you note the EPA and Iowa Department of Natural Resource's intention to remove the development planned for Area 7 from the currently proposed Brushy Creek Watershed Improvement Project (Undertaking) owing to outstanding archaeological concerns (13WB164) within that area and that if found to be feasible, project activities at Area 7 will be reconsidered at a later date under a separate environmental review. This course of action enables the EPA and DNR to move forward with review of federally funded activities in the remaining 12 areas.

In our March 15, 2010 letter, we agreed with the consulting archaeologist's assessment that newly discovered sites 13WB578, 13WB579, and 13WB580 are not eligible for listing in the National Register of Historic Places. Background research also revealed that sites 13WB171, 13WB183, 13WB288, and 13WB300 had been previously evaluated as ineligible.

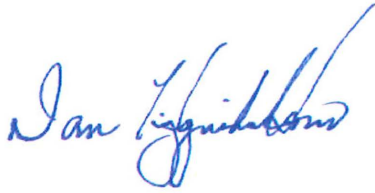
According to the Phase I archaeological survey report, the following unevaluated sites are located in close proximity to the indicated work areas: Area 2, 13WB245, 13WB257; Area 3, 13WB161, 13WB289; Area 4, 13WB172; Area 8, 13WB166, 13WB167, 13WB169; Area 9, 13WB180; Area 11, 13WB174; Area 12, 13WB186; and Area 13, 13WB298. In some instances, sites are located at relatively safe distances while in other cases site and project boundaries are adjacent, which raises some concern.

Therefore, we recommend that the following measures be enacted to avoid unintentional effects upon the unevaluated sites whose boundaries lie within 100 feet of project boundaries. With the assistance of the consulting archaeologist, the project proponents shall establish an exclusion zone surrounding each site. This zone shall include a 50 foot buffer surrounding the site boundaries. Temporary fencing shall be erected along the perimeter of the exclusion zone on all sides facing construction in order to prevent accidental encroachment. Unfenced portions of the exclusion zone perimeter (i.e. those sections not facing construction) shall be clearly identified by flagged lath. Project contractors and subcontractors shall be notified of these 'environmentally sensitive areas' and prohibited from entering them under any circumstance. If anything is discovered during construction in areas outside of the designated exclusion zone, all activity in the area shall cease, the site shall be secured, and the DNR and SHPO will be notified of the discovery. The DNR, SHPO, and EPA shall attend to the post-review discovery in accordance to procedures outlined at 36CFR Part 800.13.

Our office is prepared to concur with the EPA's determination of 'no adverse effects' provided that the above-listed measures are implemented. Be advised that we have made these **comments** and **recommendations** according to our responsibility defined by Federal law pertaining to the Section 106 process. The responsible agency does not have to follow our **comments** and **recommendations** to comply with the Section 106 process. It remains the agency's decision on whether or not to provide additional information to our office or whether or not to proceed with the project without the concurrence of this office.

We look forward to receiving and reviewing your agency's determination and its position regarding the conditions of our concurrence. Until then, I can be reached at (515) 281-8744 or by email at Daniel.higginbottom@iowa.gov if you have any questions or require further assistance in this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dan Higginbottom". The signature is fluid and cursive, with a large initial "D" and "H".

Daniel K. Higginbottom, Archaeologist
Iowa State Historic Preservation Office

Cc: George Antoniou, Iowa Department of Natural Resources
Jonathan R. Sellars, Principal Investigator, Consulting Archaeological Services.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

SEP 15 2008

Mr. Daniel K. Higginbottom, Archaeologist
State Historical Society of Iowa
Iowa Historical Building
600 East Locust
Des Moines, Iowa 50319-0290

Re: Brushy Creek Terrace Project, Webster County, IA

Dear Mr. Higginbottom:

The Iowa Department of Natural Resources (IDNR) receives Environmental Protection Agency (EPA) funding under the Federal Clean Water Act (CWA) to execute the Section 319, Nonpoint Source Pollution Program in the state of Iowa. The federal grant to IDNR provides that the grantee will consult and assist EPA in complying with the Section 106 of the National Historic Preservation Act (NHPA). IDNR in turn grants Section 319 funds to the local project sponsors for nonpoint source pollution control.

The IDNR Nonpoint Source Program awarded \$255,000 in Section 319 funds to the Webster County Soil and Water Conservation District (SWCD) to implement this EPA approved workplan for projects on state parks land. This award is to be used to improve and protect water quality in the Brushy Creek watershed by reducing sediment and nutrient inputs to the creek through the application of Best Management Practices (BMPs). Iowa's Brushy Creek Lake is a man-made lake that was completed in 1998. This is currently one of the cleanest lakes in Iowa because nutrients, pesticides and sediment have not had time to build up in the storage area of the lake. The Webster SWCD is being proactive in reducing the amount of pollutants that will enter the lake given the size of the watershed and that the land use is almost all crop land. One of the BMPs chosen for implementation in the workplan is the installation of a terrace near the east boat ramp identified in the attached Cultural Resource Investigation.

EPA reviewed the cultural resource report entitled "Phase I Intensive Archaeological Investigation of the Proposed DNR East Boar Ramp Project, Brushy Creek State Park, Section 27, T88N-R27W, Webster County, Iowa". This report was conducted by the University of Iowa, Office of the State Archaeologist in Iowa City. This investigation shows and EPA Region 7 accepts the finding that "no archaeological resources were identified in the area of potential effects (APE) and no further investigation is recommended." Despite the findings, there are historical sites near the APE, as close as 40m, and IDNR will be responsible for ensuring those sites are avoided during construction of the terrace.

05878 09/23/08 AM 12:00





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

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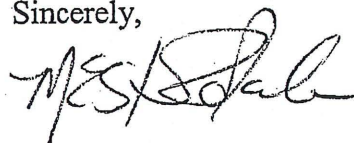
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05878 09/23/08 AM 12:00



If you have any questions or comments regarding this review, please contact me at (913) 551-7936, or Suzanne Hall, of my staff, at (913) 551-7560.

Sincerely,

A handwritten signature in dark ink, appearing to read 'M. E. Stockdale', written in a cursive style.

Margaret E. Stockdale

Chief

Watershed Planning and Implementation Branch

Enclosure: Phase I Intensive Archaeological Investigation

cc: Mr. Allen Bonini, IDNR

TA Hours for FY 2009 IDALS Agreement

Request by Area:

Area 2 hours/funds required: 320 hours @ \$40 hour = \$12,800
Area 4 hours/funds required: 1480 hours @ \$40 hour = \$59,200
Area 5 hours/funds required: 2200 hours @ \$40 hour = \$88,000
4000 hours @ \$40 hour = \$160,000

Request by structure:

410 – survey 36 structures
410 – design/draft 41 structures
410 – construction inspection 15 structures

Rock chute wetlands – design/draft 2 structures
Concrete risers – design/draft 2 structures

Hours/Costs by Area

Area 2 – 320 hours, \$12,800

Webster County – Brushy Creek – Total 320 hours
4 – 410 design/draft @40 hours each, 160 hours
4 – 410 construction inspection @40 hours each, 160 hours

Area 4 – 1480 hours, \$59,200

Harrison County – Elk Creek – Total 400 hours
4 – 410 survey @40 hours each, 160 hours
4 – 410 design/draft @40 hours each, 160 hours
2 – 410 construction inspection @40 hours each, 80 hours

Shelby County – Prairie Rose – Total 240 hours
2 – rock chute wetland design/draft @60 hours each, 120 hours
2 – concrete risers design/draft @60 hours each, 120 hours

Adair County – North Thompson – Total 40 hours
1 – 410 construction inspection @40 hours each, 40 hours

Ringgold County – East Fork – Total 600 hours
5 – 410 survey @40 hours each, 200 hours
5 – 410 design/draft @40 hours each, 200 hours
5 – 410 construction inspection @40 hours each, 200 hours

Madison County – Badger Creek – Total 40 hours
1 – 410 construction inspection @40 hours each, 40 hours

Clarke County – Whitebreast – Total 160 hours
1 – 410 survey @40 hours each, 40 hours
1 – 410 design/draft @40 hours each, 40 hours
2 – 410 construction inspection @40 hours each, 80 hours

Area 5 – 2200 hours, \$88,000

Davis, Appanoose, Van Buren Counties – Fox River – Total 1200

15 – 410 survey @40 hours each, 600 hours

15 – 410 design/draft @40 hours each, 600 hours

Davis County – Lake Wapello – Total 640 hours

8 – 410 survey @40 hours each, 320 hours

8 – 410 design/draft @40 hours each, 320 hours

Henry, Des Moines County – Lake Geode – Total 240 hours

3 – 410 survey @40 hours each, 120 hours

3 – 410 design/survey @40 hours each, 120 hours

Wapello County – Buckeye Creek – Total 120 hours

1 – 410 (TR-60) design/draft @120 hours each, 120 hours



STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

December 22, 2008

George Antoniou
Iowa Department of Natural Resources
502 E 9th St.
Des Moines, IA 50319-0034

RE: Environmental Review for Natural Resources
Water/sediment control basins and grade stabilization structures
Brushy Creek State Recreation Area
Webster County
Section 21, 22, 27, 28, 34, 35, Township 88N, Range 27W

Dear Mr. Antoniou:

Thank you for inviting our comments on the impact of the above referenced project. We have searched our records of the project area and found no site-specific records of rare species or significant natural communities that would be impacted by this project. However, our data are not the result of thorough field surveys. If listed species or rare communities are found during the planning or construction phases, additional studies and/or mitigation may be required.

This letter is a record of review for protected species, rare natural communities, state lands and waters in the project area, including review by personnel representing state parks, preserves, recreation areas, fisheries and wildlife but does not include any potential comment from the Environmental Services Division of this Department. This letter does not constitute a permit and before proceeding with this project, permits may be needed from this Department or from other state or federal agencies.

Any construction activity that bares the soil of an area greater than or equal to 1 acre including clearing, grading or excavation may require a storm water discharge permit from the Department. Construction activities may include the temporary or permanent storage of dredge material. For more information regarding this matter, please contact Ruth Rosdail at (515) 281-6782.

The Department administers regulations that pertain to fugitive dust IAW Iowa Administrative Code 567-23.3(2)"c". All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of property during construction, alteration, repairing or demolishing of buildings, bridges or other vertical structures or haul roads. All questions regarding fugitive dust regulations should be addressed to Jim McGraw at (515) 242-5167.

If you have questions about this letter or require further information, please contact me at (515) 281-8967.

Sincerely,

A handwritten signature in cursive script, appearing to read "Inga Foster".

Inga Foster
Environmental Specialist
Conservation and Recreation Division

FILE COPY: Inga Foster
Tracking Number: 2988



STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

December 12, 2008

Inga Foster
Conservation and Recreation Division
Iowa Department of Natural Resources
Des Moines, IA 50319

Re: Environmental Review – Brushy Creek State Park

Dear Ms. Foster,

I am requesting an environmental review be conducted for proposed project sites within Brushy Creek State Park (Webster County, UTM, Zone 15, NAD83, E419452, N4693385).

We propose construction of ten (10) water/sediment control basins and four (4) grade stabilization structures within the park boundary (see attached Fig.1 and Fig.2). Specific on-site locations and design features can be obtained by contacting T.J. Lynn, Brushy Creek Watershed Project Coordinator at (515) 573-4411

The goal of constructing sediment and grade-stabilization structures within the Brushy Creek Lake watershed is to reduce sediment delivery to the lake and improve water quality. These proposed projects are part of an on-going lake watershed restoration effort. Structures will be located in ditches with significant active head-cutting with soil erosion that results in water with diminished quality being delivered to the lake. Typical ditch depth is 5 to 10 feet, with several sites that approach 15 feet in depth. Approximate area of disturbance will be less than ½ acre in size per sediment basin and less than 2 acres in size per water impoundment.

If approved, construction is scheduled for spring-summer of 2009. If you have any questions or need additional information, please let me know.

Sincerely,

A handwritten signature in black ink, appearing to read "George Antoniou", written over a horizontal line.

George Antoniou
Lake Restoration Program
Email: george.antoniou@dnr.iowa.gov
Office: 515-281-8042

Figure 1. Aerial photo with proposed locations of Brushy Creek Lake construction sites.

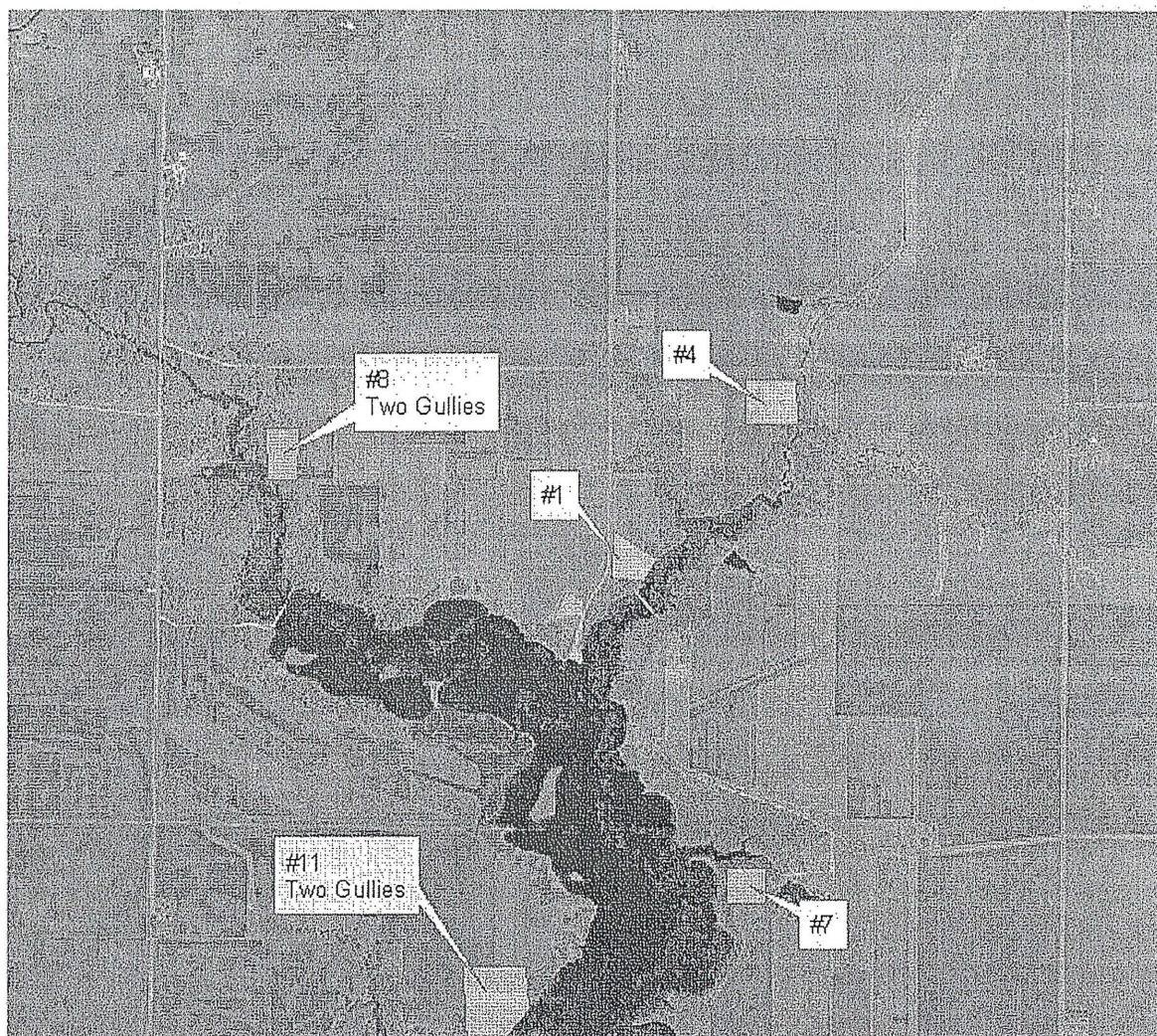
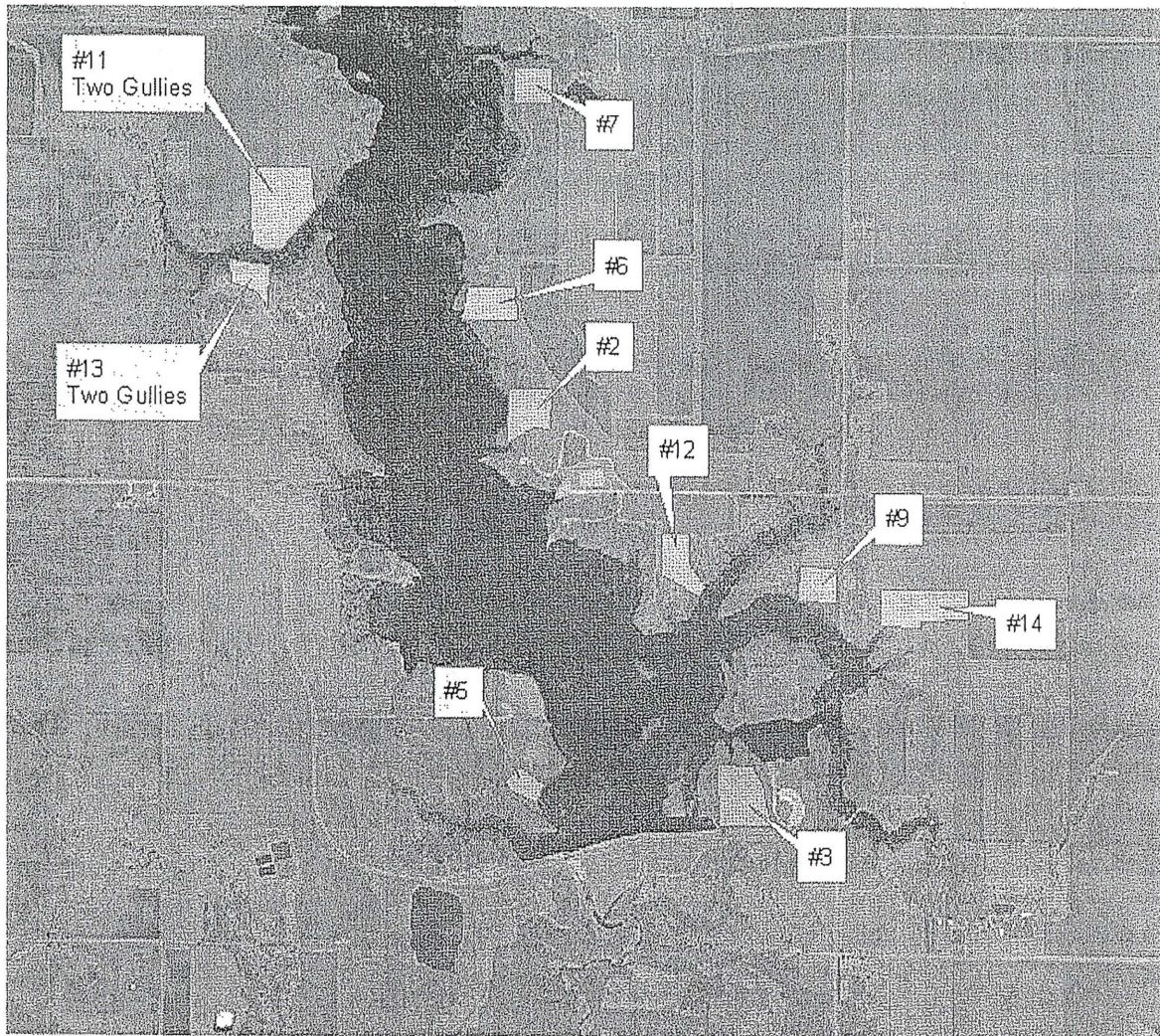


Fig 2. Aerial photo with proposed locations of Brushy Creek Lake construction sites.



Lynn, Thomas - Fort Dodge, IA

From: Mcghee, Mike [DNR] [Mike.Mcghee@dnr.iowa.gov]
Sent: Friday, April 11, 2008 3:19 PM
To: Lynn, Thomas - Fort Dodge, IA
Cc: Antoniou, George [DNR]; VanFosson, Greg [DNR]; Miller, Lannie [DNR]
Subject: RE: Brushy Creek Lake

We could fund up to \$50,000 for our cost-share portion of construction of structures around the lake utilizing lake restoration funding.

Mike McGhee
Lakes and Rivers Project Coordinator
Iowa Department of Natural Resources
Wallace State Office Bldg.
email: mike.mcghee@dnr.iowa.gov
phone: 515-281-6281

-----Original Message-----

From: Lynn, Thomas - Fort Dodge, IA [mailto:Thomas.Lynn@ia.nacdnet.net]
Sent: Friday, April 11, 2008 2:40 PM
To: Mcghee, Mike [DNR]
Subject: Brushy Creek Lake

Mike,

We met with Bob Waters yesterday morning and we were discussing future practices to be installed through our 319/WPF project for Brushy Creek Lake. One of our goals for FY 2009 is to install 15 water & sediment control basins and a grade stabilization structure around the lake to control head cuts and ravines. We would like to do a 75% 319/25% Lakes Restoration money to fund these projects and would like to know what the chances of receiving funding for this through the Lakes money would be. We are estimating that the 25% of the project would be somewhere in the \$45,000 to \$50,000 range.

Thank you for the help,

T.J. Lynn
Brushy Creek Watershed Project Coordinator
1200 1/2 3rd Ave NW
Fort Dodge, IA 50501
(515) 573-4411

Project Updates: Phase I Cultural Resource Surveys, Proposed Water Quality Improvement Projects, Brushy Creek State Park, Webster county; Lake MacBride, Johnson county, Iowa.

As of March 16, 2009, the status of the above referenced Phase I water quality improvement projects was as follows:

Brushy Creek State Park, Webster county:

Pre-field Investigations: Complete

Field Investigations: In Progress

Laboratory Analysis: In Progress

Report Preparation: In Progress

Comments: Field investigations for the Brushy Creek project were delayed as a result of Winter weather conditions, which prevailed within the project area from late November, 2008 until March, 2009. Under Iowa Archaeological Guidelines, archaeological field investigations were not permitted under the Winter weather conditions. Adverse weather conditions are no longer a problem for the study, and fieldwork is again under way at the project areas.

As the DNR was previously informed, there are a number of previously recorded archaeological sites on lands that border, or fall in close proximity to, several of the project areas. For the present investigations, several of the previously reported archaeological sites have been relocated and evaluated. To date, none of the investigated archaeological sites appear to contain *in situ* cultural remains that extend into the proposed DNR improvement areas. In addition to the previously reported sites, two newly identified archaeological sites have been identified within the project areas. Neither of the newly encountered sites appears to meet requirements for NRHP nomination. We plan to recommend that no further investigations be required at these sites. It should be stressed that the Brushy Creek field investigations are still underway. There are numerous previously reported archaeological sites within a close proximity to the project area lands. It is anticipated that more cultural materials will be identified by the remaining field studies.

Field investigations at Brushy Creek are currently in progress. Laboratory analysis and project completion reports are also in progress. Lab work and report preparation for project areas investigated during 2008 have been completed. This should allow for expedited completion of the final project report. The Brushy Creek project has been assigned a high priority by CAS; field investigations should be completed in the near future.

Lake MacBride, Johnson county:

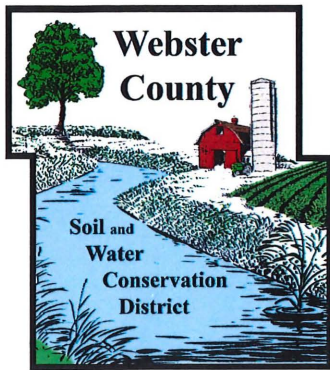
Pre-field Investigations: Complete

Field Investigations: Nearing Completion

Laboratory Analysis: Nearing Completion

Report Preparation: In Progress

Preliminary Results: Field investigations for the Lake MacBride project were also delayed as a result of Winter weather conditions. However, the majority of the Lake MacBride field investigations have been completed. Remaining field studies should require approximately one week of field time. Many of the investigated project area tracts at Lake MacBride were found to consist of sloping upland settings that had been subjected to prior erosion and other impacts. These prior impacts have likely contributed to poor preservation of archaeological materials. Of the four sites encountered to date, none appear to meet requirements for NRHP nomination.



WEBSTER COUNTY
Soil and Water Conservation District
1200 3rd Ave NW Suite #1
Fort Dodge, IA 50501-2221
Phone: (515) 573-4411 ext 101

December 16, 2009

Steve Hopkins
Nonpoint Source Program
Watershed Improvement Section
Iowa Department of Natural Resources
502 E. 9th St.
Des Moines, IA 50319

George Antoniou
Lakes Restoration Program
Iowa Department of Natural Resources
502 E. 9th St.
Des Moines, IA 50319

Steve and George,

This letter is being sent to you inquiring about the status of the archeological site investigations at Brushy Creek State Park that were contracted through the IDNR Lakes Restoration Program. As part of the current Brushy Creek Lake 319 Water Quality Project the staff at the SWCD has been working on assessment, survey, and design of 18 Water & Sediment Control Basins and/or Grade Stabilization Structures around the lake.

The process of assessing, surveying, and designing these sites was started in November of 2007. A total of 52 gully sites were identified around the lake and focus was given to the 18 most erosive sites (each estimated at 5 tons per year or more of soil loss). The 18 structures being proposed will stop an estimated 462 tons of soil from being delivered to Brushy Creek Lake each year.

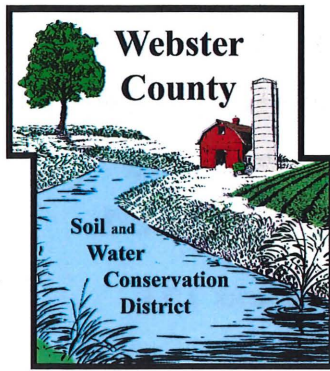
The survey and design phase of the project was completed in the spring and summer of 2008. In total the project coordinator has committed all or part of 75 working days completing the tasks required to have these sites ready for construction. Many of these days, especially during the survey process, required assistance from other SWCD and NRCS field office staff.

As is required when constructing practices the SWCD submitted these sites for archeological investigations. An agreement with Consulting Archeological Services of Creston was signed in September of 2008 to complete the reviews. Since that time we have received four updates on the progress of the archeological site checks. We understand that the consulting firm was involved in other projects during the fall of 2008 and that a long winter season prevented the field work portion of the contract from being fulfilled. Both of the updates from March and

(Over)

Protect our Soil and Preserve Our Water

Equal Opportunity Employer



July of 2009 stated that work was in progress and the September, 2009 update stated that a final report would be completed by the end of the month. We received an update from the project coordinator during our November meeting that no report had been submitted. The slow progress raised a few concerns on our part.

We are currently in the final year of the Brushy Creek Lake Water Quality Project and would like see construction completed by the end of the project on June 30, 2010. We have several concerns about being able to complete the work by this deadline if the archeological report is not completed as soon as possible. The SWCD staff will need time to redesign structures to avoid cultural resources if they are located within the currently designed areas and after that we understand the bid letting process takes approximately three months to complete. Given the current time frame this puts the start of construction at or about April 1, 2010. The other concern is if the project is delayed any further that there will not be project staff in place to oversee the construction of these practices.

The Commissioner's of the Webster County SWCD are seeking an update from you on the progress of the archeological site investigations. We look forward to having this review completed soon so that we can move forward with the construction of practices that will prove vital in preserving the water quality in Brushy Creek Lake for many years to come.

Sincerely,

The Commissioners of the Webster County SWCD
Doug Seltz, Chair

Protect our Soil and Preserve Our Water

Equal Opportunity Employer

**SECOND FY2008 SUPPLEMENT TO THE
PROJECT AGREEMENT**

AGREEMENT NUMBER: 094-1.06

BETWEEN THE

**IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
DIVISION OF SOIL CONSERVATION**

AND THE

WEBSTER SOIL AND WATER CONSERVATION DISTRICT

AND THE

**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

This supplement is entered into by the Iowa Department of Agriculture and Land Stewardship - Division of Soil Conservation, hereinafter referred to as the Division; the Webster Soil and Water Conservation District, hereinafter referred to as the District; and the United States Department of Agriculture - Natural Resources Conservation Service, hereinafter referred to as the Service.

- I. Relative to the Brushy Creek Lake Watershed Project (Webster Soil and Water Conservation District)
- II. Purpose of the Supplement

This supplement extends Section 319 financial assistance to the District for year 3 (FY2008) activities of the Brushy Creek Lake Watershed Project. The Division agrees to provide \$119,966.00 in Section 319 financial assistance for year 3 activities. For the purpose of maintaining the District's Section 319 project ledger, \$119,966.00 will be the beginning balance.

The District will submit a financial status report to the Division by August 1, 2008 to account for all FY2008 Section 319 expenditures and show balances. The Division will recall FY2008 project Section 319 funds that are not spent by June 30, 2008.

Section 319-funded items* eligible for cost-share incentives and/or reimbursement

1)Grade Stabilization Structure	(2 @ NTE 75% c/s total w/POL c/s)	\$119,966.00
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TOTAL		\$119,966.00
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** The District may not make changes in Section 319 allocations among line items without prior authorization from the Division. In addition, the District may not deviate by more than 10% within individual line items without prior approval from both the Division and DNR. The Division will recall Section 319 funds from FY2008 that are not spent by June 30, 2008.

III. Contract Administration

Non-Appropriation: Notwithstanding anything in this Agreement to the contrary, and subject to the limitations, conditions and procedures set forth below, IDALS shall have the right to terminate this agreement without penalty by giving thirty (30) days written notice to the contracting party as a result of any of the following: (1) the legislature or governor fail to appropriate funds sufficient to allow IDALS to operate as required and to fulfill its obligations under this agreement; (2) if funds are de-appropriated or not allocated; (3) if IDALS authorization to operate is withdrawn or there is a material alteration in the programs administered by IDALS; and (4) if IDALS duties are substantially modified. In the event of termination of this Agreement due to non-appropriation, the exclusive, sole, and complete remedy of the contracting party shall be payment for services completed prior to termination.

Indemnification: The District agrees to indemnify and hold harmless the State of Iowa and the Division, its officers, employees and agents appointed and elected, and volunteers, from: any and all costs, expenses, losses, claims, damages, liabilities, settlements and judgments, including reasonable value of the time spent by the Attorney General's Office, and the costs and expenses and reasonable attorneys' fees of other counsel required to defend the State of Iowa or the Division.

Independent District: The District, its employees, agents and any other subcontractors performing under this contract are not employees or agents of the Division of Department. Neither the District nor its employees shall be considered employees of the Division of Department for federal or state tax purposes. The Department will not withhold taxes on behalf of the District (unless required by law).

Compliance with the Law: The District, its employees, agents, and subcontractors shall comply with all applicable federal, state, and local laws, rules, ordinances, regulations and orders when performing the services under this Contract, including without limitation, all laws applicable to the prevention of discrimination in employment and the use of targeted small businesses as subcontractors or suppliers. The District, its employees, agents and subcontractors shall also comply with all federal, state and local laws regarding business permits and licenses that may be required to carry out the work performed under this Contract. In addition, the District shall undertake as a public contract any work project with an estimated total public cost of \$25,000.00 or more as provided in the Iowa Code chapters 73A and 573. The local contracting organization shall designate a Contracting Officer and shall establish procedures to manage the Contract, approve bills for payment, and review proposed change orders or amendments to the Contract.

IV. Effective Date of this Supplement

This supplement takes effect 10/1/2007 and remains in effect until 6/30/2008 or the Project agreement is terminated. The supplement shall be considered accepted by the District unless the Division is notified by the District within ten (10) working days of receipt of the supplement.

Approved:

10/31/07
Date



Kenneth R. Tow, Director
Division of Soil Conservation
Iowa Department of Agriculture and Land Stewardship



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

Bill Northey, Secretary of Agriculture

November 1, 2007

Douglas Seltz, Chair
Webster SWCD
1200 ½ - 3rd Ave. NW
Fort Dodge, IA 50501

Dear Douglas:

Attached with this message is one fully executed copy of the second FY2008 supplement to the project agreement between the IDALS/DSC, the Webster Soil and Water Conservation District and the USDA/NRCS with respect to the Brushy Creek Lake Watershed Project. As this is a supplement to the previously signed project agreement, no action is required on the part of the Districts. Please make a copy of the attached supplement for the District's records.

The Section 319 practice funding included in the attached supplement has been entered into FARMS.

The District will also be receiving a copy of the fully executed DNR/DSC agreement for its records. This document will be arriving in hard copy form by mail and the District will note that there have been significant changes made within this document. Additionally, the District will notice a change in the time period the attached supplement covers (October 1, 2007 – June 30, 2008). All changes to the DNR/DSC agreement, along with any additional project administration changes, will be outlined in a DSC memo distributed to the District. The District should carefully review all of the documents referenced in this message.

If you have any questions, please contact this office.

Sincerely,

A handwritten signature in black ink that reads "James E. Gillespie".

James E. Gillespie, Field Services Bureau Chief
IDALS - Division of Soil Conservation

JEG:maf

Enclosure

Cc: Thomas Lynn; David Strom; Bob Waters

**SECOND FY2008 SUPPLEMENT TO THE
PROJECT AGREEMENT**

AGREEMENT NUMBER: 094-1.06

BETWEEN THE

**IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
DIVISION OF SOIL CONSERVATION**

AND THE

WEBSTER SOIL AND WATER CONSERVATION DISTRICT

AND THE

**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

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TOTAL		\$119,966.00
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** The District may not make changes in Section 319 allocations among line items without prior authorization from the Division. In addition, the District may not deviate by more than 10% within individual line items without prior approval from both the Division and DNR. The Division will recall Section 319 funds from FY2008 that are not spent by June 30, 2008.

III. Contract Administration

Non-Appropriation: Notwithstanding anything in this Agreement to the contrary, and subject to the limitations, conditions and procedures set forth below, IDALS shall have the right to terminate this agreement without penalty by giving thirty (30) days written notice to the contracting party as a result of any of the following: (1) the legislature or governor fail to appropriate funds sufficient to allow IDALS to operate as required and to fulfill its obligations under this agreement; (2) if funds are de-appropriated or not allocated; (3) if IDALS authorization to operate is withdrawn or there is a material alteration in the programs administered by IDALS; and (4) if IDALS duties are substantially modified. In the event of termination of this Agreement due to non-appropriation, the exclusive, sole, and complete remedy of the contracting party shall be payment for services completed prior to termination.

Indemnification: The District agrees to indemnify and hold harmless the State of Iowa and the Division, its officers, employees and agents appointed and elected, and volunteers, from: any and all costs, expenses, losses, claims, damages, liabilities, settlements and judgments, including reasonable value of the time spent by the Attorney General's Office, and the costs and expenses and reasonable attorneys' fees of other counsel required to defend the State of Iowa or the Division.

Independent District: The District, its employees, agents and any other subcontractors performing under this contract are not employees or agents of the Division of Department. Neither the District nor its employees shall be considered employees of the Division of Department for federal or state tax purposes. The Department will not withhold taxes on behalf of the District (unless required by law).

Compliance with the Law: The District, its employees, agents, and subcontractors shall comply with all applicable federal, state, and local laws, rules, ordinances, regulations and orders when performing the services under this Contract, including without limitation, all laws applicable to the prevention of discrimination in employment and the use of targeted small businesses as subcontractors or suppliers. The District, its employees, agents and subcontractors shall also comply with all federal, state and local laws regarding business permits and licenses that may be required to carry out the work performed under this Contract. In addition, the District shall undertake as a public contract any work project with an estimated total public cost of \$25,000.00 or more as provided in the Iowa Code chapters 73A and 573. The local contracting organization shall designate a Contracting Officer and shall establish procedures to manage the Contract, approve bills for payment, and review proposed change orders or amendments to the Contract.

IV. Effective Date of this Supplement

This supplement takes effect 10/1/2007 and remains in effect until 6/30/2008 or the Project agreement is terminated. The supplement shall be considered accepted by the District unless the Division is notified by the District within ten (10) working days of receipt of the supplement.

Approved:

10/31/07

Date



Kenneth R. Tow, Director
Division of Soil Conservation
Iowa Department of Agriculture and Land Stewardship



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

Bill Northey, Secretary of Agriculture

July 17, 2007

Douglas Seltz, Chair
Webster SWCD
1200 ½ - 3rd Ave. NW
Fort Dodge, IA 50501

Dear Douglas:

Attached with this message is one fully executed copy of the first FY2008 supplement to the project agreement between the IDALS/DSC, the Webster Soil and Water Conservation District and the USDA/NRCS with respect to the Brushy Creek Lake Watershed Project. As this is a supplement to the previously signed project agreement, no action is required on the part of the Districts. Please make a copy of the attached supplement for the District's records.

The WSPF practice funding included in the attached supplement has been entered into FARMS. The WPF non-practice funding is not included in FARMS at this time. Therefore, claims and advance requests for non-practice items should follow the procedure currently utilized.

Additional BMP funding from Section 319 will be made available once the FFY2008 DNR-DSC contract is executed. This will take place after the end of the FFY on September 30, 2007.

If you have any questions, please contact this office.

Sincerely,

A handwritten signature in black ink that reads "James E. Gillespie".

James E. Gillespie, Field Services Bureau Chief
IDALS - Division of Soil Conservation

JEG:maf

Enclosure

Cc: Thomas Lynn; David Strom; Bob Waters

**FIRST FY2008 SUPPLEMENT TO THE
PROJECT AGREEMENT**

AGREEMENT NUMBER: 094-1.06

BETWEEN THE

**IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
DIVISION OF SOIL CONSERVATION**

AND THE

WEBSTER SOIL AND WATER CONSERVATION DISTRICT

AND THE

**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

This supplement is entered into by the Iowa Department of Agriculture and Land Stewardship - Division of Soil Conservation, hereinafter referred to as the Division; the Webster Soil and Water Conservation District, hereinafter referred to as the District; and the United States Department of Agriculture - Natural Resources Conservation Service, hereinafter referred to as the Service.

- I. Relative to the Brushy Creek Lake Watershed Project (Webster Soil and Water Conservation District)
- II. Purpose of the Supplement

The Division has recalled \$0.00 of unspent FY2007 Watershed Protection Fund project funds from the District on June 30, 2007. The District's FY2007 WSPF ledger balance is now \$0.00.

This supplement extends Watershed Protection Fund (WSPF) and Water Protection Fund (WPF) financial assistance to the District for year 3 (FY2008) activities of the Brushy Creek Lake Watershed Project. The Division agrees to provide \$27,500.00 in WSPF financial assistance and \$47,125.00 in WPF financial assistance for year 3 activities. For the purpose of maintaining the District's WSPF project ledger, \$27,500.00 will be the beginning balance. For the purpose of maintaining the District's WPF project ledger, \$47,125.00 will be the beginning balance. This WPF allocation includes \$42,825.00 for 1 FTE District Coordinator "Salary/Benefits" for the period of October 1, 2007 thru June 30, 2008 and \$1,500.00 for "Travel Training" for the period of October 1, 2007 thru June 30, 2008.

The Division will make advance "Salary/Benefits/Travel" payments as requested by the District. The advance "Salary/Benefits" payment for the first funding period will be \$14,275.00 and the advance "Travel Training" payment will be \$500.00 for a total "Salary/Benefits/Travel" payment of \$14,775.00. The advance "Salary/Benefits" payment for the subsequent quarterly funding periods will be \$14,275.00 and the advance "Travel Training" payment will be \$500.00 for a total "Salary/Benefits/Travel" payment of \$14,775.00. The initial period advance payment and estimated subsequent quarterly advance payments are shown below:

For October 1, 2007 through December 31, 2007	\$14,775.00
For January 1, 2008 through March 31, 2008	\$14,775.00
For April 1, 2008 through June 30, 2008	\$14,775.00
TOTAL	\$44,325.00

The District will submit requests for the advance "Salary/Benefits/Travel" payments needed for the initial quarterly period and for the following periods electronically to the Accounting Bureau (to Rita Bartlett) at least 30 days prior to the beginning of the appropriate quarter. The amount to be requested will be based upon the projected residual from prior payments plus the additional funds required for the maximum projected "Salary/Benefits/Travel" expenses incurred during the reporting periods and show balances.

The District will submit a financial status report to the Division by July 20, 2008 to account for all SFY2008 WPF expenditures and show balances. **All WPF fund advances that have been made to the District that are not spent by June 30, 2008 will be returned to the Division in the form of a check made out to "Treasurer State of Iowa" along with notification as to the project name and the line item for which the funds are be returned.** The Division will recall SFY2008 project WPF funds that are not spent by June 30, 2008.

WPF-funded items* eligible for cost-share incentives and/or reimbursement are:**

1) Information/Education	(Oct 07 - June 08)	\$2,000.00
2) Supplies	(Oct 07 - June 08)	\$700.00
3) Equipment	(Oct 07 - June 08)	\$100.00
TOTAL		\$2,800.00

***** The District may not make changes in WPF allocations among conservation practices without prior authorization from the Division. The Division will recall WPF funds from FY2008 that are not spent by June 30, 2008.**

WSPF-funded items eligible for cost-share incentives and/or reimbursement are:**

1) Grassed Waterway	(3 Ac @ 50% c/s WSPF + 25% c/s IFIP NTE 75% total)	\$5,000.00
2) Streambank Stabilization	(500 ft @ NTE 75% c/s)	\$11,250.00
3) Water and Sediment Control Basin	(3 @ NTE 75% c/s)	\$11,250.00
TOTAL		\$27,500.00

**** The District may not make changes in WSPF allocations among conservation practices without prior authorization from the Division. The Division will recall WSPF funds from FY2008 that are not spent by June 30, 2008.**

III. Contract Administration

Non-Appropriation: Notwithstanding anything in this Agreement to the contrary, and subject to the limitations, conditions and procedures set forth below, IDALS shall have the right to terminate this agreement without penalty by giving thirty (30) days written notice to the contracting party as a result of any of the following: (1) the legislature or governor fail to appropriate funds sufficient to allow IDALS to operate as required and to fulfill its obligations under this agreement; (2) if funds are de-appropriated or not allocated; (3) if IDALS authorization to operate is withdrawn or there is a material alteration in the programs administered by IDALS; and (4) if IDALS duties are substantially modified. In the event of termination of this Agreement due to non-appropriation, the exclusive, sole, and complete remedy of the contracting party shall be payment for services completed prior to termination.

Indemnification: The District agrees to indemnify and hold harmless the State of Iowa and the Division, its officers, employees and agents appointed and elected, and volunteers, from: any and all costs, expenses, losses, claims, damages, liabilities, settlements and judgments, including reasonable value of the time spent by the Attorney General's Office, and the costs and expenses and reasonable attorneys' fees of other counsel required to defend the State of Iowa or the Division.

Independent District: The District, its employees, agents and any other subcontractors performing under this contract are not employees or agents of the Division of Department. Neither the District nor its employees shall be considered employees of the Division of Department for federal or state tax purposes. The Department will not withhold taxes on behalf of the District (unless required by law).

Compliance with the Law: The District, its employees, agents, and subcontractors shall comply with all applicable federal, state, and local laws, rules, ordinances, regulations and orders when performing the services under this Contract, including without limitation, all laws applicable to the prevention of discrimination in employment and the use of targeted small businesses as subcontractors or suppliers. The District, its employees, agents and subcontractors shall also comply with all federal, state and local laws regarding business permits and licenses that may be required to carry out the work performed under this Contract. In addition, the District shall undertake as a public contract any work project with an estimated total public cost of \$25,000.00 or more as provided in the Iowa Code chapters 73A and 573. The local contracting organization shall designate a Contracting Officer and shall establish procedures to manage the Contract, approve bills for payment, and review proposed change orders or amendments to the Contract.

IV. Effective Date of this Supplement

This supplement takes effect 7/1/2007 and remains in effect until 6/30/2008 or the Project agreement is terminated. The supplement shall be considered accepted by the District unless the Division is notified by the District within ten (10) working days of receipt of the supplement.

Approved:

07/16/2007
Date



Kenneth R. Tow, Director
Division of Soil Conservation
Iowa Department of Agriculture and Land Stewardship

Brushy Creek Lake Project

The project is currently set to end on June 30, 2009; however, the Webster County SWCD would like to see the project extended for an additional year to accomplish work that has been started, but cannot be finished in this time frame. The SWCD feels that the extension is critical for the protection of the lake and for the overall success of the project. The only funding needed would be for administrative costs and not for any practice funding at this time.

There are 16 sites around the lake that have been identified as having excessive gully erosion that is negatively impacting the lake. These sites were estimated to have 353 tons per year of erosion through the completion a gully assessment in the fall of 2007. Additional work was done using the Sediment Delivery Calculator and found that the numbers from both assessments are very similar.

*Jon Sellars, Consulting Archeological Services, has initiated the archeological reviews of these sites, but in an e-mail dated January 15th he indicated that additional time will be needed this spring to complete the work.

*At the end of the archeological reviews there will possibly be the need for some redesign and moving of structures to avoid hitting known cultural resources. With these unknowns and the bid letting process it unlikely that construction will begin before late summer or fall.

*We are currently estimating the cost of putting these practices on the ground between \$90,000 and \$105,000. These costs will most likely change if structures have to be moved to avoid cultural resources. It may also be beneficial to update these costs to more accurately reflect what the contractors are charging. There are currently enough 319 funds to cover 75% of the cost and we have talked to the Lakes Restoration staff about covering the other 25%.

Future Activities:

1.) We are continuing to work on a large grade stabilization structure on the northeast side of the lake. We have collected a full year's worth of water flow and depth at this site and will take it to an engineer this spring or summer to determine if the project is feasible. An extension would allow us to gather another year's worth of data that would be beneficial for design work. If the project will work funding sources will be determined at a later date.

2.) We would also like more time to evaluate options for the main tributary to the lake. There have been many ideas brought up, but we need an engineer to evaluate the sight to see what, if any, options are available.

3.) The Webster County Conservation Board has been contacted about additional mitigation around the Miller Marsh area. There is a possibility that this area may be expanded in the future and would be a good way to improve water quality in the watershed.

4.) Federal Programs: We will continue to push CRP and EQIP in the watershed. There are 23 CRP filter strip contracts set to expire at the end of FY 2009 on approximately 100 acres. These represent a sediment loading reduction of over 330 tons/year to the lake. An extension will allow us to work with these landowners, as well as work with others to enroll new acres.



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

Bill Northey, Secretary of Agriculture

October 31, 2007

Douglas Seltz, Chair
Webster Soil and Water Conservation District
1200 ½ - 3rd Ave. NW
Fort Dodge, IA 50501

Dear Douglas:

This letter serves to modify the first SFY2008 supplement to the project agreement between the IDALS/DSC, the Webster Soil and Water Conservation District and the USDA/NRCS with respect to the Brushy Creek Lake Watershed Project.

Based upon a request from the District, DSC authorizes the transfer of SFY2008 Watershed Protection Fund (WSPF) financial assistance (50% c/s WSPF + 25% c/s IFIP; NTE 75% c/s total) from the line item "Streambank Stabilization" to the line item "Grassed Waterway". This transfer will result in the following allocation balances for SFY2008: Streambank Stabilization - \$7,250.00; Grassed Waterway - \$9,000.00. The transfer of these funds has been made within the appropriate project FARMS accounts.

If you have any questions, please contact this office.

Sincerely,

A handwritten signature in black ink that reads "James E. Gillespie".

James E. Gillespie, Field Services Bureau Chief
IDALS - Division of Soil Conservation

JEG:maf

Cc: Thomas Lynn; David Strom; Bob Waters

Brushy Creek Info

FFY 2006

PLAN OF OPERATIONS

Brushy Creek Lake **Watershed Project**

Federal Fiscal Year 2005-2006

July 1, 2005- September 30, 2005

Table Of Contents:

I. Project Administration

Goals:

- A. Hire a project coordinator.
- B. Prepare and submit monthly, quarterly, annual, and annual review progress reports.
- C. Obtain needed training for project coordinator.

II. Project Management

Goals:

- A. Manage the project to maintain quality control and to maximize communication with and involvement of, local advisors and state and local staff of participating agencies.

III. Information and Education

Goals:

- A. Hold at least three tours/meetings/workshops/activities to further community education on natural resource management issues.
- B. Work with media to inform the public regarding the Brushy Creek Lake Watershed Project.
- C. Begin planning the methodology and establish at least five demonstration sites on agricultural and urban land within the watershed that will feature conservation practices.

IV. Water Quality Practices

Goals:

- A. Promote and install conservation practices and other techniques.

V. Measures of Success

Goals:

- A. Make an assessment of erosion/sediment delivery reductions from the implementation of BMPs in the watershed.
- B. Identify a numeric value of stakeholders reached based on information and education activities.

Comments

I. Project Administration

Goals:

A. Hire a project coordinator.

1. Work with DSC, IDNR, and SWCD to complete the necessary activities to hire a Project Coordinator by July.

Responsible person:	Start:	End:	%Completion:
DSC, IDNR, SWCD	7/05	8/05	(% completed)

Remarks:

B. Prepare and submit monthly, quarterly, annual, and annual review progress reports.

ACTION ITEMS

1. Have monthly and quarterly reports prepared for the monthly commissioners meeting and sent to DSC by the 15th of the following month.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	7/05	9/06	(% completed)

Remarks:

Monthly Report Check off

Month	July 05	Aug. 05	Sep. 05	Oct. 05	Nov. 05	Dec. 05
Date Submitted						

Month	Jan. 06	Feb. 06	Mar. 06	Apr. 06	May. 06	June 06
Date Submitted						

Month	July 06	Aug. 06	Sep. 06			
Date Submitted						

Quarterly Report Check off

Quarter	July-Sep. 05	Oct.-Dec. 05	Jan.-Mar. 06	Apr.-June 06
Date Submitted				

Quarter	July-Sep. 06			
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Date Submitted				
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2. Prepare annual report and submit to DSC by October 15, of 2005 and 2006.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	9/05	10/05	(% completed)
	9/06	10/06	

Remarks:

3. Schedule, prepare materials, and conduct the annual review.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	9/05	9/05	(% completed)
	9/06	9/06	

Remarks:

C. Obtain needed training for project coordinator.

ACTION ITEMS

1. Schedule needed training for the Project Coordinator with DNR, DSC, and the District.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	7/05	9/06	(% completed)

Remarks:

II. Project Management

Goals:

A. Manage the project to maintain quality control and to maximize communication with, and involvement of, local advisors and state and local staff of participating agencies.

ACTION ITEMS

1. Report monthly progress to SWCD Commissioners.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	7/05	9/06	(% completed)

Remarks:

2. Schedule quarterly meetings with the Brushy Creek Advisory Committee to seek direction for project activities, provide updates on activities, and gather feedback.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	7/05	9/06	(% completed)

Remarks:

3. Work with partner agencies and develop new partnerships that will promote the success of the project.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	7/05	9/06	(% completed)

Remarks:

III. Information and Education

Goals:

- A. Hold at least three tours/meetings/workshops/activities to further community education on natural resource management issues.

ACTION ITEMS

1. Host one meeting for all landowners/residents of the watershed to introduce the public to the project and its goals.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	7/05	8/05	(% completed)

Remarks:

2. Host one workshop on septic systems targeting rural residents of the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, County Health Department	7/05	9/05	(% completed)

Remarks:

3. Hold two workshops on IOWATER and water quality with 50 landowners/school groups in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, County Conservation	7/05	9/06	(% completed)

Remarks:

4. Hold two field days to demonstrate cropland test plots that have been established in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, W. Co. Extension, IDNR staff, County Conservation	7/05	9/06	(% completed)

Remarks:

B. Work with media to inform public regarding the Brushy Creek Lake Watershed Project.

ACTION ITEMS

1. Submit 4 press releases to the local media and other conservation resource outlets.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD	7/05	9/06	(% completed)

Remarks:

2. Send one biannual newsletter mailing to all watershed residents pertaining to activities and practices available.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD DNR, County Conservation	7/05	9/06	(% completed)

Remarks:

3. Develop a project brochure highlighting activities in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, DNR	7/05	9/05	(% completed)

Remarks:

C. Begin planning the methodology and establishing at least five demonstration sites on agricultural and urban land within the watershed that will feature conservation practices and other techniques.

1. Continue to work with local landowners and other conservation organizations to develop signage on selected sites in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD	7/05	9/06	(% completed)

Remarks:

2. Work with local landowners and other conservation organizations to establish three test plots on cropland for demonstration purposes.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD	7/05	9/06	(% completed)

Remarks:

3. Work to get two acres of erosion control matting installed for demonstration in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD	10/05	9/06	(% completed)

Remarks:

4. Work to install two mulching/composting demonstrations in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD	10/05	9/06	(% completed)

Remarks:

5. Work to install five acres of vegetative demonstrations in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD	10/05	9/06	(% completed)

Remarks:

IV. Water Quality Practices

Goals:

A. Promote and install conservation practices and other techniques.

1. Work to install 100 acres of conservation buffers in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

2. Work to install one animal waste facility in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

3. Work to install seven acres of grassed waterways in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

4. Work to apply 6,000 acres of nutrient and pest management in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

5. Work to develop 750 acres of whole farm conservation plans in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

6. Work to install two grade stabilization structures in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)

SWCD, Office Staff
Remarks:

7. Work to install four water and sediment control basins in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			

Remarks:

8. Work to install 50 acres of pasture management/rotational grazing in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			

Remarks:

9. Work to install 250 feet of stream bank stabilization in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			

Remarks:

10. Work to install and restore seven wetlands in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			

Remarks:

11. Work to install 250 feet of streambank stabilization in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			

Remarks:

12. Work to install five acres of new tree and shrub plantings in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			

Remarks:

13. Work to get 50 acres of forest stand improvement implemented in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)

SWCD, Office Staff
Remarks:

14. Work to get 50 acres of prescribed burn implementation in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			

Remarks:

V. Measures of Success

Goals:

A. Make an assessment of erosion/sediment delivery reductions from the implementation of BMPs in the watershed.

ACTION ITEMS

1. Calculate applicable load reductions for BMPs implemented in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)

Remarks:

B. Identify a numeric value of stakeholders reached based on information and education activities.

ACTION ITEMS

1. Estimate the number of people reached by each I & E activity including news releases and brochures and attendance at each workshop/tour/activity.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	7/05	9/06	(% completed)

Remarks:



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

Bill Northey, Secretary of Agriculture

April 7, 2008

Douglas Seltz, Chair
Webster SWCD
1200 ½ - 3rd Ave. NW
Fort Dodge, IA 50501

Dear Douglas:

This letter is being distributed to explain the reasons why a copy of the FY08 DNR-DSC agreement relative to the Brushy Creek Lake Watershed Project has not yet been sent to the District. As was discussed in a memo sent out from DSC, the format of the DNR-DSC agreement has changed from previous years. Starting with FY08, these agreements are being written for the total amount of the grant available and for the entire time period of the project based on the approved grant application. In order to accomplish this for the existing projects such as this one, DNR needs to be able to verify the amount left within the grant. As this project has been issued an extension for the use of \$15,500.00 in FY07 Section 319 funds until June 30, 2008, the verification of the grant balance available as of the close of FY07 is not possible at this time. Once all claims associated with the extended FY07 funds have been received and processed, the amount left in the DNR grant can be determined and a copy of the DNR-DSC agreement will be distributed to the District.

Based on information supplied by DNR, the District should know that as of October 1, 2007 the project had funds available through one Section 319 grant. The FY04 grant balance shows \$170,927.08 available. This amount includes the \$15,500 in extended FY07 funds as well as any FY08 allocation already made to the project. Any claims associated with either the extension or the FY08 Section 319 allocation would need to be subtracted from this amount in order to determine the Section 319 funding balance available to the project. The District should also know that the DNR-DSC agreement is dated to expire on June 30, 2009 with the final project report being due 45 days prior to this date.

If you have any questions with regard to this matter, please contact your Regional Project Coordinator, Field Representative or Mike Franklin.

Sincerely,

James E. Gillespie, Field Services Bureau Chief
IDALS - Division of Soil Conservation

JEG:maf

Cc: Thomas Lynn; David Strom; Bob Waters

319 Plan of Operations FFY 2007

Brushy Creek Lake Watershed Project

Administrative

- Have monthly and quarterly reports prepared for the monthly commissioner's meeting and sent to DSC by the 15th of the following month.
- Prepare the annual report according to the Section 319 Reporting Guidance and submit it to DSC by October 15, 2007
- Schedule, prepare materials, and conduct the annual review.

Information/Education

- Develop and mail a news letter for the Brushy Creek Lake watershed that highlights projects and practices that have been completed, as well as announcing upcoming events.
- Submit four press releases or interviews to the local media and other conservation resource outlets to highlight and announce activities in the watershed.
- Hold at least three tours/meetings/workshops/field days to further community education on natural resource management issues.

Water Quality Practices

- Utilize 319 funds to cost share conservation practices in the watershed, including:
 - Three water and sediment control basins
 - Two grade stabilization structures
 - Three acres of waterways
 - 6000 feet of stream bank stabilization
 - 300 acres of strip-till/no-till
 - Three wetland restorations
 - Five acres of vegetation demonstration
 - Five acres of tree and shrub plantings
- Work with CRP to implement conservation practices in the watershed, including:
 - 250 acres filter strips and buffers
 - Four acres of waterways
 - Seven wetlands
- Work with EQIP to implement structural and farming practices in the watershed, including:
 - One animal waste system
 - 1,000 acres of nutrient and pest management

Assessment and Evaluation

- Calculate applicable load reductions for BMP's implemented in the Brushy Creek Lake watershed using the Sediment Delivery Calculator.
- Continue to take water samples with IOWATER testing equipment at selected sites in the watershed.
- Estimate the number of people reached by each I & E activity including news releases, brochures, and attendance at each workshop/tour/activity.

PROJECT BUDGET FOR FFY2007- SECTION 319 FUNDING

BUDGET FOR YEAR # 2 [FFY2007]

PROJECT NAME: Brushy Creek Lake Watershed Project

SWCD: Webster

PROJ. NO.: 319 094-1.06

Component	Number, Acres or Other Units	Total Cost	Cost Share Rate	State Cost	EQIP Cost	WHIP Cost	POL	Trees Forever	CRP Cost	Webster SWCD Cost	Landowner Cost	319 Project Cost	319 Funding
Salary & Benefits*		\$64,000										\$64,000	319
DSC Indirect Costs**													
Travel/Training		\$3,000										\$3,000	319
Supplies		\$700										\$700	319
Inform./Educ.		\$3,000						\$500		\$1800/12 signs		\$3,000	319
Contractual (DSC)***													
Contractual (SWCD)****													
Equipment		\$500										\$500	319
Other													
Practices:													
Animal Waste Systems	1	\$22,000	75%		50% \$11,000						\$5,500	\$5,500	319
Grade Stabilization Structures	2	\$22,000	75%				50% \$11,000				\$5,500		
Wetlands	7	\$35,000	90%								\$3,500		
Water & Sediment Control Basins	3	\$15,000	75%	50% \$7,500							\$3,750	\$3,750	319
Grassed Waterways (CRP)	4 ac.	\$9,000	90%						90% \$8,100		\$900		
Grassed Waterways (State C/S)	3 ac.	\$6,700	75%	50% \$3,350							\$1,675	\$1,675	319
Streambank Stabilization	600 ft.	\$6,000	75%								\$1,500	\$1,500	319
Tree and Shrub Plantings	5 ac.	\$500	75%					50% \$250			\$125	\$125	319
Vegetation Demonstration	5 ac.	\$500	75%					50% \$250			\$125	\$125	319
Nutrient and Pest Management	1,000 ac.	\$24,000	\$8/yr for 3 yrs.		\$24,000								
Strip Till/No Till	300 ac.	\$3,000	\$10 ac.									\$3,000	319
CRP Filter Strips and Buffers	250 ac.	\$2,250	90%						\$2,025		\$225		
Wetland Restoration (Non-CRP)	3	\$10,000	100%									\$10,000	319
				\$10,850	\$35,000		\$11,000	\$500	\$10,125	\$1,800			
Totals		\$227,150									\$22,800	\$96,875	

* Get information to enter from your field representative

** DSC use only

*** DSC use only (DSC directly-administered contract with NRCS or ISU)

**** SWCD directly-administered contract - describe in footnote; e.g., water monitoring - Luther College. This money would be used to reimburse the district for the use of their employee to GPS wetlands and do other work to help the Project Coordinator.

***** Indicate new practices (not included in previous agreements) with (+)

Total WPF	\$0
Total 319	96,875
Total Other	2,300
Total Project	\$99,175

Report of Accomplishments FFY 2005 & 2006

Practices:	Projected	Completed
Animal Waste Systems	1	0
Grade Stabilization Structures	2	0
Wetlands (CRP Farmable Wetlands Program)	7	10
Water & Sediment Control Basins	4	3
Grassed Waterways	7 ac.	2 ac.
Streambank Stabilization	250 ft.	0
Tree & Shrub Plantings	5 ac.	0
Forest Stand Improvements	50 ac.	0
Prescribed Burn Implementation	50 ac.	0
Vegetation Demonstration	5 ac.	0
Nutrient & Pest Management	6,000 ac.	634.2 ac. Nutrient, 439.1 ac. Pest
CRP Filter Strips & Buffers	100 ac.	161.2 ac. (Includes FWP Buffers)
EQIP Residue Management (Strip-Till)		484.8 ac.

I & E

Hold tours/meetings/workshops	All landowner meeting on September 19th, 2005 IOWATER presentation at this meeting. 24 landowners/residents attended
Submit press releases to media	One submitted September 2, 2005 regarding All landowner meeting. It also listed all of the practices that would be utilized with the project.
Develop a project brochure	Developed by DNR and I received copies in February.

Took IOWATER samples at seven sites in the watershed in early March.

Working with the County Conservation Board to enroll approximately 140 acres into one of the Federal Programs that is at the northern end of the Brushy Creek watershed.

Webster County Soil & Water Conservation District
1200 ½ 3rd Avenue NW
Fort Dodge, IA 50501
(515) 573-4411 (515) 573-5539
T.J. Lynn, Project Coordinator
Thomas.Lynn@ia.nacdn.net

Brushy Creek Lake Watershed Project

Cathie Graves
IDALS-DSC
Wallace State Office Building
Des Moines, IA 50319-0034

RE: **Addendum to:** Request to Add Non-CRP Wetland Restoration and Strip Till/No Till to the List of Eligible Practices for Project Funding.

April 25, 2005

Dear Cathie,

The Webster County SWCD is requesting that Non-CRP Wetland Restoration and Strip-Till/No-Till be added as new practices in the project.

We are currently working with the Webster County Conservation Board in an attempt to get approximately 140 acres of land under permanent protection. This area is located at the northern end of the Brushy Creek Lake watershed and has one of the two remaining Ag Drainage Wells in Webster County on site. We are proposing to use \$10,000 of 319 funds to help cover the cost of the wetland restoration on this site, including closing the Ag Drain Well and any other tile work that would be needed in the area. The surface drainage to this area is over 550 acres and by closing this well we would be protecting an area that could have a potentially negative impact on the Lake's water quality.

We have also had a lot of applications through EQIP for Strip-Till/ No-Till; however, not all of these requests are being funded. We are proposing to use \$3,000 of 319 money to fund those applications that do not rank high enough for EQIP. We would fund 300 acres at a one time payment of \$10 per acre. We feel that by doing this we will be promoting a conservation tillage practice that is important to the long term health of Brushy Creek Lake.

Sincerely,

T.J. Lynn
Project Coordinator

Section 319 Project Work Plan

Administrative

Monthly Report

Month required	Oct. 2006	Nov. 2006	Dec. 2006	Jan. 2007	Feb. 2007	Mar. 2007
Date Submitted						

Month required	Apr. 2007	May 2007	June 2007	July 2007	Aug. 2007	Sep. 2007
Date Submitted						

Quarterly Report

Quarter required	Oct.-Dec. 2006	Jan.-Mar 2007	Apr.-June 2007	July-Sep. 2007
Date Submitted				

Annual Report (if applicable)

Month required – Date submitted -

FFY07 Work Plan and Budget (if applicable)

Month required – Date submitted -

Annual Review Meeting

Month required – Date submitted -

Draft Final Report (if applicable)

Month required – Date submitted -

Final Report (if applicable)

Month required – Date submitted -

Comprehensive Interim Report

Month required – Date submitted -

Information/education

1st qtr
2nd qtr
3rd qtr
4th qtr

Assessment and evaluation

1st qtr
2nd qtr
3rd qtr
4th qtr

Practices

1st qtr
2nd qtr
3rd qtr
4th qtr

Misc.

1st qtr
2nd qtr
3rd qtr
4th qtr



STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

IOWA DEPARTMENT OF NATURAL RESOURCES

MEMO

To: All Project Coordinators of Watershed Projects That Receive **Section 319** Funding
From: Jim Gillespie, Field Services Bureau Chief
IDALS -Division of Soil Conservation
Steve Hopkins, Nonpoint Source Program Coordinator
Iowa Department of Natural Resources
Date: October 2, 2007
Subject: Information Needs for Annual EPA Reporting

To all Project Coordinators of watershed projects **that receive Section 319 funding** (for staffing and/or BMP installation):

EPA requires Iowa DNR to submit load reductions on an annual basis for sediment, nitrogen and phosphorus for each watershed project funded by Section 319. In addition, we also need to provide EPA information about the amount of wetlands restored, wetlands created, streambank and shoreline protection and stream channel stabilization installed annually.

This message serves as a reminder to those watershed projects that receive Section 319 funding, that load reductions for sediment, and information about BMP installations noted above, must be **provided by October 31, 2007. We need you to provide the following information:**

1. Please ensure your Sediment Delivery Calculator is up-to-date with all BMP installations during FFY 2007 (October 1, 2006 – September 30, 2007) and that the correct certification date has been entered for all BMPs. Once complete, **e-mail the Sediment Delivery Calculator data file** (C:/SDC/SDCalc_v2003_DATA.mdb) to Adam Kiel at adam.kiel@dnr.iowa.gov. The DNR will then query your data file and extract all BMPs for FY 2007, these reductions will then be reported to EPA.
2. Please also provide the following information, as applicable to your watershed project:
 - The number and acres of “Wetlands Restored” (actual wetland acres, not acres draining to the wetland) **during FFY2007**,
 - The number and acres of “Wetlands Created” (actual wetland acres, not acres draining to the wetland) **during FFY2007**,
 - The number of feet of “Streambank Stabilized” **during FFY2007**,

- The number of feet of “Shoreline Protection” **during FFY2007**,
- The number of feet of “Stream Channel Stabilization” **during FFY2007**.

Please verify that all numbers are correct and that BMPs reported are only those that were actually INSTALLED. It may help if you check with Mike Franklin at DSC to double check numbers and fiscal years for BMPs installed with WPF, WSPF and/or 319 funding.

Based on the information you provide, DNR will calculate sediment, phosphorus and nitrogen loading reductions for watershed projects, as applicable. DNR will provide this information directly to EPA.

If you have any questions regarding the Sediment Delivery Calculator, please contact your Regional Coordinator or Adam Kiel. If you have any other questions about this memo, please feel free to contact Steve Hopkins at stephen.hopkins@dnr.iowa.gov or at 515/281-6402. Thank you for your assistance with this.

NPSMP Goal Checklist

Project Name Brushy Creek

FFY 2007

	Yes	No
Is the focus of your project a (choose one)		
Lake	☒	☐
Coldwater Stream	☐	☐
Warmwater Stream	☐	☐
Groundwater Source	☐	☐
Construction site or Urban issues	☐	☐
Does your project include volunteer monitoring?	☒	☐
Does your project address an impaired waterbody?	☐	☒
Does your project include activities to address nutrient management issues?	☒	☐
Does your project include activities to address animal waste issues?	☐	☐
Does your project include activities to address urban or construction site issues?	☐	☒
Does your project include activities to address on-site wastewater (septic systems)...	☐	☐
Does your project include activities to address riparian buffers and/or wetlands?	☒	☐
Does your project include activities to address source water or drinking water?	☐	☐
• "Streambank stabilized" during FFY2007 = _____ feet; • "Stream channel stabilization" installed during FFY2007 = _____ feet; • Number of "wetlands restored" during FFY2007 = _____; • Acres of "wetlands restored" (actual wetland pool acres, not acres draining to wetland) during FFY2007 = _____ acres; • Number of "wetlands created" during FFY2007 = _____; • Acres of "wetlands created" (actual wetland pool acres) during FFY2007 = _____ acres; • Number of feet of "shoreline protection" (lakeshore) installed during FFY2007 = _____ feet		

Example Table:

Grant Application Goals/POO Goals and Actual Accomplishments for FFY2007

BMP Type or Activity	Original Project Goals for the Year (from grant application)	Goals for the Year (from FFY2007 POO)	Actual Project Accomplishments In FFY2007
Newsletter development	Quarterly (4/year)	4/year	2
Field Days	3/year	3/year	1
Terraces	10,000 feet	10,000 feet	8,000 feet
Grade Stabilization Structures	6	7*	7
Grassed Waterways	10 acres	8 acres**	5 acres
Etc.			

Note: Justification and approval must be obtained from project sponsors and funding agencies if changes in goals are proposed (see examples below):

*Permission to increase the annual goal for grade stabilization structures was received at the 4/15/07 SWCD commissioners meeting. The increase was justified because we found a bad gully located near the stream that was contributing a high sediment load. DNR and DSC approved the goal change in a memo dated 4/21/07.

**Permission to decrease this annual goal was received at the 4/15/07 SWCD commissioners meeting. The decrease was justified because we ran the sediment delivery calculator on some proposed BMP sites and found grade stabilization structures would reduce sediment delivery more effectively than grassed waterways in a high priority area of the watershed, so we increased the grade stabilization goal and decreased the waterway goal. DNR and DSC approved the goal change in a memo dated 4/21/07.

NPSMP Goal Checklist

Project Name Brushy Creek Lake Watershed

FFY 2007

	Yes	No
Is the focus of your project a (choose one)		
Lake	☒	☐
Coldwater Stream	☐	☐
Warmwater Stream	☐	☐
Groundwater Source	☐	☐
Construction site or Urban issues	☐	☐
Does your project include volunteer monitoring?	☒	☐
Does your project address an impaired waterbody?	☐	☒
Does your project include activities to address nutrient management issues?	☒	☐
Does your project include activities to address animal waste issues?	☒	☐
Does your project include activities to address urban or construction site issues?	☐	☒
Does your project include activities to address on-site wastewater (septic systems)...	☒	☐
Does your project include activities to address riparian buffers and/or wetlands?	☒	☐
Does your project include activities to address source water or drinking water?	☒	☐

- "Streambank stabilized" **during FFY2007** = 0 feet;
- "Stream channel stabilization" installed **during FFY2007** = 0 feet;
- Number of "wetlands restored" **during FFY2007** = 3;
- Acres of "wetlands restored" (actual wetland pool acres, not acres draining to wetland) **during FFY2007** = 47.7 acres;
- Number of "wetlands created" **during FFY2007** = 1;
- Acres of "wetlands created" (actual wetland pool acres) **during FFY2007** = 13 acres;
- Number of feet of "shoreline protection" (lakeshore) installed **during FFY2007** = 0 feet

Sediment Calculator

Management Practices

• Miller Marsh	8
• Warren Snell	3
• Merlin Koester	2
• Calvin Hoover Farm Tr.	1

Sediment Control Structures

• William Bethel (POL 4)	5
• Miller Marsh	37
• ASM Farms (POL 5)	176
• William Bethel (POL 3)	6

Buffers

• John Daniel	<u>4</u>
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Request For Extension

Plan of Work SFY 2010 Brushy Creek Lake Watershed Project

Administrative

- Have monthly and quarterly reports prepared for the monthly commissioner's meeting and sent to DSC by the 15th of the following month.
- Prepare the annual report according to the Section 319/WPF Projects Reporting Guidance and submit it to DSC by July 15, 2010
- Schedule, prepare materials, and conduct the annual review.
- Prepare the final report for the project according to the Section 319/WPF Projects Reporting Guidance.

Information/Education

- Develop and mail a newsletter for the Brushy Creek Lake watershed that highlights projects and practices that have been completed, as well as announcing upcoming events.
- Submit three press releases or interviews to the local media and other conservation resource outlets to highlight and announce activities in the watershed.

Water Quality Practices

- Utilize 319 funds to cost share conservation practices in the watershed, including:
 - Fifteen water and sediment control basins
 - Two grade stabilization structure
 - Three grassed waterways
- Work with CRP to implement conservation practices in the watershed, including:
 - Re-enrollment of 97.6 acres of filter strips and buffers representing a 336 tons/year loading reduction.

Assessment and Evaluation

- Monitor and assess stream velocity and depth for the northeast tributary of Brushy Creek Lake. Multiple years of data are needed for structure design by the engineers that would cover over 6,000 feet of eroding streambank. The average sediment delivery from these streambanks to the lake has been estimated at 347 tons per year.
- Calculate applicable load reductions for BMP's implemented in the Brushy Creek Lake watershed using the Sediment Delivery Calculator.
- Estimate the number of people reached by each I & E activities.

**FIRST FY2007 SUPPLEMENT TO THE
PROJECT AGREEMENT**

AGREEMENT NUMBER: 094-1.06

BETWEEN THE

**IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
DIVISION OF SOIL CONSERVATION**

AND THE

WEBSTER SOIL AND WATER CONSERVATION DISTRICT

AND THE

**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

This supplement is entered into by the Iowa Department of Agriculture and Land Stewardship - Division of Soil Conservation, hereinafter referred to as the Division; the Webster Soil and Water Conservation District, hereinafter referred to as the District; and the United States Department of Agriculture - Natural Resources Conservation Service, hereinafter referred to as the Service.

- I. Relative to the Brushy Creek Lake Watershed Project (Webster Soil and Water Conservation District)
- II. Purpose of the Supplement

This supplement extends Section 319 financial assistance to the District for year 2 (FY2007) activities of the Brushy Creek Lake Watershed Project. The Division agrees to provide \$90,175.00 in Section 319 financial assistance for year 2 activities. For the purpose of maintaining the District's Section 319 project ledger, \$90,175.00 will be the beginning balance. This allocation includes \$54,300.00 (\$13,575.00/qtr.) for "Salary/Benefits" and \$3,000.00 (\$750.00/qtr.) for "Travel Training" for 1 FTE District Employee.

The Division will make advance "Salary/Benefits/Travel" payments as requested by the District. The advance "Salary/Benefits/Travel" payment for the initial quarterly funding period will be \$14,325.00. The initial period advance payment and estimated subsequent quarterly advance payments are shown below:

For October 1, 2006 through December 31, 2006	\$14,325.00
For January 1, 2007 through March 31, 2007	\$14,325.00
For April 1, 2007 through June 30, 2007	\$14,325.00
July 1, 2007 through September 30, 2007	\$14,325.00
TOTAL	\$57,300.00

The District will submit requests for the advance "Salary/Benefits/Travel" payments needed for the initial quarterly period and for the following periods electronically to the Accounting Bureau at least 30 days prior to the beginning of the appropriate quarter. The amount to be requested will be based upon the projected residual from prior payments plus the additional funds required for the maximum projected "Salary/Benefits/Travel" expenses incurred during the reporting periods and show balances.

The District will submit a financial status report to the Division by October 20, 2007 to account for all FFY2007 Section 319 expenditures and show balances. The Division will recall FFY2007 project Section 319 funds that are not spent by September 30, 2007.

Section 319-funded items* eligible for cost-share incentives and/or reimbursement

1) Equipment		\$500.00
2) Grassed Waterway	(3 Ac @ 25% c/s 319 + 50% c/s EQIP/IFIP NTE 75% c/s total)	\$1,675.00
3) Information/Education		\$3,000.00
4) No-Till/Strip-Till	(300 Ac @ \$10/Ac)	\$3,000.00
5) Streambank Stabilization	(600 ft @ NTE 75% c/s)	\$4,500.00
6) Supplies		\$700.00
7) Tree Planting	(5 Ac @ 25% c/s 319 + 50% c/s Trees Forever NTE 75% c/s total)	\$125.00
8) Vegetation Demonstration	(5 Ac @ 25% c/s 319 + 50% c/s Trees Forever NTE 75% c/s total)	\$125.00
9) Water and Sediment Control Basin	(3 @ 25% c/s 319 + 50% c/s EQIP/IFIP NTE 75% total)	\$3,750.00
10) Wetland or Basin	(See Footnote in DNR/DSC Contract for funds use)	\$15,500.00
TOTAL		\$32,875.00

*The District may deviate by 10% within the individual line items above without prior approval of the Division and DNR, but total Section 319 expenditures must not exceed \$32,875.00.

The District agrees to comply with certain requirements imposed upon the Division by the Iowa Department of Natural Resources Agreement Number 07-7144-02 with the Division (copy to be provided). These include the actions, activities, and products and the timing of their performance of submission as required by the Division by ARTICLE II – STATEMENT OF PURPOSE, ARTICLE III – STATEMENT OF WORK, ARTICLE IV – REPORTS AND PRODUCTS, ARTICLE VI – TIME OF PERFORMANCE, ARTICLE VII – ADDITIONAL SPECIAL CONDITIONS, ARTICLE VIII – CONDITIONS OF PAYMENT, AND ARTICLE IX – CONTRACT PAYMENT SCHEDULE of the agreement SPECIAL CONDITIONS.

III. Contract Administration

Non-Appropriation: Notwithstanding anything in this Agreement to the contrary, and subject to the limitations, conditions and procedures set forth below, IDALS shall have the right to terminate this agreement without penalty by giving thirty (30) days written notice to the contracting party as a result of any of the following: (1) the legislature or governor fail to appropriate funds sufficient to allow IDALS to operate as required and to fulfill its obligations under this agreement; (2) if funds are de-appropriated or not allocated; (3) if IDALS authorization to operate is withdrawn or there is a material alteration in the programs administered by IDALS; and (4) if IDALS duties are substantially modified. In the event of termination of this Agreement due to non-appropriation, the exclusive, sole, and complete remedy of the contracting party shall be payment for services completed prior to termination.

Indemnification: The District agrees to indemnify and hold harmless the State of Iowa and the Division, its officers, employees and agents appointed and elected, and volunteers, from: any and all costs, expenses, losses, claims, damages, liabilities, settlements and judgments, including reasonable value of the time spent by the Attorney General's Office, and the costs and expenses and reasonable attorneys' fees of other counsel required to defend the State of Iowa or the Division.

Independent District: The District, its employees, agents and any other subcontractors performing under this contract are not employees or agents of the Division of Department. Neither the District nor its employees shall be considered employees of the Division of Department for federal or state tax purposes. The Department will not withhold taxes on behalf of the District (unless required by law).



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

PATTY JUDGE
SECRETARY OF AGRICULTURE

September 28, 2006

Douglas Seltz, Chair
Webster SWCD
1200 1/2 - 3rd Ave. NW
Fort Dodge, IA 50501

Dear Douglas:

Enclosed for the District's use is a copy of the fully executed FY 2007 DSC/DNR agreement with regard to the Brushy Creek Lake Watershed Project. Please review this document carefully.

If you have any questions, please contact this office.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Gillespie".

James E. Gillespie, Field Services Bureau Chief
IDALS - Division of Soil Conservation

JEG:maf

Enclosures

Cc: Tom Lynn

IOWA DEPARTMENT OF NATURAL RESOURCES
AGREEMENT NUMBER 07-7144-02
with
DIVISION OF SOIL CONSERVATION
IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP

Agreement Title: Brushy Creek Lake Watershed Project

Agreement Amount: \$90,175

Time of Performance: October 1, 2006 to October 31, 2007

Division of Soil Conservation
Project Officer: James Gillespie

Department of Natural Resources
Project Officer: Ubbo Agena

Submit Original Invoice and two copies to:

Shirley Christofferson
Department of Natural Resources
Henry A. Wallace Building
Des Moines, IA 50319-0034
ATTN: Budget and Grants Bureau

Issue Payment to:

Division of Soil Conservation
Iowa Department of Agriculture & Land Stewardship
Henry A. Wallace Building
Des Moines, IA 50319
ATTN: Dan Kuhlman
Federal Employer ID # 42-6004522

The Division of Soil Conservation, Department of Agriculture and Land Stewardship agrees to deliver all supplies and perform all services set forth in the attached Special Conditions for the consideration stated herein. The rights and obligations of the parties to this agreement shall be subject to and governed by the Special Conditions and General Conditions. To the extent of any inconsistency between the Special Conditions or the General Conditions and any specifications or other contents which are made a part of this agreement, by reference or otherwise, the Special Conditions and the General Conditions shall control. To the extent of any inconsistency between the Special Conditions and the General Conditions, the Special Conditions shall control. This agreement contains 9 articles.

IN WITNESS THEREOF, the parties hereto have executed this agreement on the day and year last specified below.

DEPARTMENT OF AGRICULTURE AND
LAND STEWARDSHIP

By: 
Mary Jane Olney, Director
Administrative Services Division

Date: 9-25-06

DEPARTMENT OF NATURAL RESOURCES

By: 
Liz Christiansen, Deputy Director

Date: 09-29-06

This agreement was approved, as required by Subsection 455B.105(6) of the Code of Iowa, by the Environmental Protection Commission on March 21, 2005.

SPECIAL CONDITIONS

ARTICLE I - IDENTIFICATION OF PARTIES

This agreement is entered into by and between the Iowa Department of Natural Resources (hereinafter referred to as Department or DNR) and the Division of Soil Conservation, Iowa Department of Agriculture and Land Stewardship (hereinafter referred to as Contractor or DSC).

ARTICLE II - STATEMENT OF PURPOSE

This agreement is entered into for the purpose of supporting the FY07 activities of a multi-year project to protect and improve the water quality of Brushy Creek Lake. Brushy Creek Lake was constructed in 1998, and is currently considered by many as one of the cleanest lakes in the state from a water quality standpoint. However, due to the predominance of cropland in the watershed and the flat topography requiring extensive drainage systems, the lake is vulnerable to accelerated delivery of sediment, nutrients and bacteria. This project will protect the lake from future water quality impacts through the implementation of BMPs to include: animal waste structures, grade stabilization structures, wetlands, water and sediment control structures, streambank stabilization, tree and shrub plantings, etc. In addition, a comprehensive information/education program will be conducted to include field days, meetings, signs, demonstration sites, etc.

Project activities will be carried out by a project coordinator hired for this project and assigned to the Webster Soil and Water Conservation District. This project and the activities scheduled to be conducted during FY07 are generally described in the Plan of Operations, Brushy Creek Lake Watershed Project, Fiscal Year 2007, which is attached as Appendix A of this contract.

ARTICLE III - STATEMENT OF WORK

- 3.1 By November 15, 2006, DSC shall submit to DNR a final Plan of Work for carrying out the FFY2007 activities of the Brushy Creek Lake Watershed Project.
- 3.2 During the period beginning October 1, 2006, and ending September 30, 2007, DSC shall carry out the project activities identified in the final FFY2007 Plan of Operations, which will be developed under Article 3.1 of this contract.
- 3.3 By November 15, 2006, and within 15 days of the end of every month thereafter, DSC shall submit to DNR a narrative report describing the work activities conducted under this agreement during the preceding one month period, as well as copies of pertinent public information materials developed and news articles published during the preceding month.

A financial report shall be included in each monthly report. This report shall summarize the expenses incurred during the month, identify the funding programs used to pay these expenses, and list the amounts incurred by each funding program.

- 3.4 By January 15, 2007, and on a quarterly basis thereafter (April 15, 2007; July 15, 2007; and October 15, 2007) DSC shall submit to DNR a report of the progress made in the preceding quarter toward completion of action items included in the FY2007 Plan of Operations, using the Plan of Operations format.
- 3.5 By May 1, 2007, DSC shall submit to DNR the FFY08 Plan of Operations and budget.

3.6 By October 15, 2007, DSC shall submit to DNR an annual report which:

- describes all work activities carried out as part of the project during the period October 1, 2006 through September 30, 2007;
- discusses progress made toward achieving the overall project purposes, as given in Article II (Statement of Purpose);
- provides summaries of and evaluates (as appropriate) water quality monitoring data collected under the project; and
- identifies the total documented project costs incurred during the project period October 1, 2006, through September 30, 2007, the funding programs used to pay these costs, and the amounts paid by each funding program.

ARTICLE IV - REPORTS AND PRODUCTS

- | | | |
|-----|----------------------------|---|
| 4.1 | Final POO and Budget | Due November 15, 2006 |
| 4.2 | Monthly Activities Reports | Due November 15, 2006 and on the 15th of each month thereafter |
| 4.3 | Quarterly Reports | Due January 15, 2006, and on a quarterly basis thereafter (April 15, 2007; July 15, 2007; and October 15, 2007) |
| 4.4 | FFY08 POO and budget | Due May 1, 2007 |
| 4.5 | Annual Project Report | Due October 15, 2007 |

ARTICLE V - DESIGNATION OF OFFICIALS

- 5.1 Department – The Deputy Director of the Department is the official authorized to execute any changes in terms, conditions, or amounts specified in this agreement. Ubbo Agena is designated to negotiate, on behalf of the Department, and subject to the approval of the Deputy Director, any changes to this agreement.
- 5.2 DSC - James Gillespie, Field Services Bureau Chief, is the DSC official authorized to execute any changes in the terms, conditions or amounts specified in this agreement on behalf of DSC.

ARTICLE VI - TIME OF PERFORMANCE

The performance of DSC is to commence by October 1, 2006. The performance required herein shall be completed by October 31, 2007.

ARTICLE VII - ADDITIONAL SPECIAL CONDITIONS

- 7.1 DSC shall place one of the following statements as applicable on the cover page of all nonfinancial reports prepared under this agreement. The statements will not be necessary on quarterly or annual project activities reports submitted to DNR as required by this agreement, provided such reports are not also being used for public information purposes.

"The publication of this document has been funded in part by the Iowa Department of Natural Resources through a grant from the U.S. Environmental Protection Agency under the Federal Nonpoint Source Management Program (Section 319 of the Clean Water Act)."

"The publication of this document has been funded in part by the Division of Soil Conservation, Iowa Department of Agriculture & Land Stewardship, and by the Iowa Department of Natural Resources through a grant from the U.S. Environmental Protection Agency under the Federal Nonpoint Source Management Program (Section 319 of the Clean Water Act)."

- 7.2 DSC shall submit to DNR an original unbound copy of all non-financial documents or reports prepared under this agreement.
- 7.3 All information generated by the terms and conditions of this agreement shall become the property of the State of Iowa.
- 7.4 DNR shall review and comment on all products and subsequent revisions of these products submitted by DSC within fifteen (15) working days of the date of their receipt. Failure to comply within the allotted time constitutes approval by the Department.

ARTICLE VIII - CONDITIONS OF PAYMENT

- 8.1 This agreement is entered into on a cost reimbursable, stated maximum basis. DSC shall be reimbursed according to the reimbursement schedule and up to the contract maximum listed in Article IX.
- 8.2 Upon final signature of the contract, and as needed thereafter, DSC may request advance payment of the eligible expenses of the project. The frequency with which pre-payment requests are submitted and the amount of each request shall be determined by DSC, based on the need to pay these costs as they are incurred and on the pre-payment policies of the Department of Revenue and Finance.

At the end of the contract period, any advance payments in excess of the actual amounts expended shall be returned to DNR.
- 8.3 For each payment due under this contract, DSC shall submit a Contractor's invoice. No claim shall be allowed by the Department of Revenue and Finance when such claim is presented after the lapse of three months from its accrual. (Section 421.38, Code of Iowa, 1997, special provisions of law excepting).
- 8.4 DNR shall not process payment for items of work or service which, in the determination of DNR, do not meet the specification of Article III of the Special Conditions. If the item of work or service is resubmitted by a date agreed to by DNR and DSC through an amendment to this agreement and is determined by the Deputy Director of DNR to be satisfactorily completed according to the specifications of Article III (Special Conditions), payment shall be processed.
- 8.5 DNR shall have the option of terminating this agreement for cause within the meaning of Section 6.1 of the General Conditions if DSC submits any items of work or service more than ten (10) working days after the due date.
- 8.6 The Deputy Director of DNR may waive the application of Article VIII (8.5) of the Special Conditions for any or all items of work or service specified in Article III of the Special Conditions.

ARTICLE IX - CONTRACT PAYMENT SCHEDULE

9.1 Contract Budget, FY2007

<u>Items</u>	<u>Budget Amount</u>
Salary/benefits	\$54,300
Travel/training	3,000
Supplies	700
Equipment	500
I&E	3,000
Financial Incentives	
Wetlands***	15,500
Water and Sediment Control Basins * (3)	3,750
Grassed Waterways * (3 ac)	1,675
Streambank Stabilization (600 ft @ 75% c/s)	4,500
Tree and Shrub Planting** (5 ac)	125
Vegetation Demonstration** (5 ac)	125
Strip Till/No Till (\$10/ac)	<u>3,000</u>
Subtotal Financial Incentives	28,675
Total	\$90,175

note - *25% cost-share 319; 25 % cost-share landowner; 50% cost-share EQIP/IFIP

 **25% cost-share 319, 25% cost-share landowner, 50% cost-share Trees Forever

 *** Miller Marsh addition - if funds from the Ag Drainage Well Closure program are available, such will be used in lieu of Section 319 - contributions from IDOT wetland mitigation will be used to supplement this project and should be included in reports

9.2 Contract Payment Schedule

<u>Date</u>	<u>Payment Amounts</u>
October 1, 2006 to September 30, 2007	Advance payments, (salary, benefits) as requested by DSC
November 15, 2006	Eligible Expenses: October 2006
December 15, 2006	Eligible Expenses: November 2006
January 15, 2007	Eligible Expenses: December 2006
February 15, 2007	Eligible Expenses: January 2007
March 15, 2007	Eligible Expenses: February 2007
April 15, 2007	Eligible Expenses: March 2007
May 15, 2007	Eligible Expenses: April 2007
June 15, 2007	Eligible Expenses: May 2007
July 15, 2007	Eligible Expenses: June 2007
August 15, 2007	Eligible Expenses: July 2007
September 15, 2007	Eligible Expenses: August 2007
October 15, 2007	Eligible Expenses: September 2007

Note: Total contract payment not to exceed \$90,175 as stated in Article 9.1. Reimbursement will be for actual expenses incurred. The contractor may deviate by 10% within the major line items without prior approval from the Department.

GENERAL CONDITIONS

Section 1.0 Entire Agreement

This agreement constitutes the entire agreement between the Department and the Contractor with respect to the subject matter hereof, and the Contractor acknowledges that it is entering into the contract solely on the basis of the terms and conditions herein contained and not in reliance on any representation, statement, inducement or promise, whether oral or written, not contained herein.

Section 2.0 Amendment

In order to be valid, any amendment of this contract, or change in the conditions or terms of this contract must be in writing and signed by officials designated in Article V of this contract.

Section 3.0 Availability of Funds

If funds anticipated for the continued fulfillment of this contract are at any time not forthcoming or insufficient, either through the failure of the Federal Government or of the State of Iowa to appropriate funds, funding from a federal source is reduced or discontinued for any reason or discontinuance or material alteration of the program under which funds were provided, the Department shall have the right to terminate this contract without penalty in accordance with Section 6.1 of the General Conditions by giving not less than thirty (30) days written notice documenting the lack of funding.

Section 4.0 Records and Audit

- 4.1 The Contractor agrees to maintain books, documents and other records pertaining to all costs and expenses incurred and revenues acquired during this contract in accordance with generally accepted accounting principles and practices consistently applied.
- 4.2 The Contractor shall also maintain the financial information and data used in the preparation or support of the cost submission for this contract.
- 4.3 The Director of the Department or any duly authorized audit representative thereof shall have access for the purpose of audit and examination of any books, documents, papers and records of the Contractor which are pertinent at all reasonable times during the period of retention provided for in paragraphs 4.4, 4.5, and 4.6 below and shall have the right to make copies or to excerpt or make other transcriptions thereof. Access to records is not limited to the required retention periods. The Department or its representatives shall have access to records at any reasonable time for as long as the records are maintained.
- 4.4 All records in the possession of the Contractor pertaining to this contract shall be retained by the Contractor for a period of three (3) years beginning with the date upon which the final payment under this contract is issued. Records for non-expendable property acquired under this contract shall be retained for a three-year period after the final disposition of the property.
- 4.5 Records relating to any litigation or claim arising out of the performance of this contract, or costs or expenses of this contract to which exception has been taken as a result of inspection or audit shall be retained by the Contractor until such litigation, claim, or exception has been finally settled or until the three-year period has expired, whichever occurs later.

- 4.6 The Contractor, in maintaining project expenditure accounts, records and reports, shall make any necessary adjustments resulting from any administrative reviews and audits by the United States or by the State of Iowa or by the Contractor.
- 4.7 The Contractor shall insure that an independent audit is conducted on this contract. The audit shall be in accordance with generally accepted standards and with established procedures and guidelines of the Auditor of the State of Iowa. The State of Iowa Single Audit fulfills the requirement for an independent audit.
- 4.8 The Contractor will provide a copy of the audit performed under Article 4.7 to the Department within sixty (60) days of its receipt by the Contractor.
- 4.9 Funding for this contract is made available under Catalog of Federal Domestic Assistance No.66.460.

Section 5.0 Allowable Costs

Allowable costs are specified under the approved budget presented in the Special Conditions of this contract. Allowable costs in contracts with public or non-public agencies are subject to the cost principles defined in Office of Management and Budget Circular A-87 as amended.

Section 6.0 Termination of Contract

- 6.1 Termination for cause. The Department may terminate this contract in whole or in part, at any time before the date of completion, whenever it is determined that the Contractor has failed to comply with the condition of the contract or if funds totaling the amount specified in Article IX of the Special Conditions are not available to the Department. Before any termination, the Director shall provide the Contractor an opportunity for consultation. The Department shall notify the Contractor in writing of any termination. The notice shall state the reasons for the termination. The Contractor must stop work immediately upon notification of termination. The Department will not provide any reimbursement for new commitments after the notice of termination. Payments made to Contractor or recoveries by the Department under contracts terminated for cause shall be in accordance with the legal rights and liabilities of the parties.
- 6.2 Termination for convenience. The Department or the Contractor may terminate the contract in whole, or in part, when both parties agree that the continuation of the project would not produce beneficial results commensurate with the future expenditure of funds. The two parties shall agree upon the termination conditions, including the effective date, and, in the case of partial obligations, for the terminated portion after the effective date, and shall cancel as many outstanding obligations as possible. The Department shall allow full credit to the Contractor for the Department's share of the noncancelable obligations, properly incurred by the Contractor prior to termination. The termination agreement must be in writing and signed by the officials designated in Article V of the Special Conditions.
- 6.3 Rights in uncompleted products. In the event the contract is terminated, all finished or unfinished documents, data, reports or other materials prepared by the Contractor under this contract shall, at the option of the Department, become the Department's property and the Contractor shall be entitled to receive just and equitable compensation for any satisfactory work completed on such documents and other materials.

Section 7.0 Equal Employment Opportunity

- 7.1 The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, religion, sex, national origin, age, or mental or physical disability. The Contractor will take affirmative

action to ensure that applicants are employed and that employees are treated during employment without regard to their race, creed, color, religion, sex, national origin, age or mental or physical disability except where mental or physical disability relates to a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor's business. Such action shall include, but not be limited to, the following: employment; upgrading; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other form of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth provisions of the nondiscrimination clause.

- 7.2 The Contractor will in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, religion, sex, national origin, age, or mental or physical disability except where mental or physical ability is a bona fide occupation qualification reasonably necessary to the normal operation of the Contractor's business.
- 7.3 The Contractor will comply with all relevant provisions of the Iowa Civil Rights Act of 1965 as amended, Iowa Executive Order 15 of 1973, Chapter 19B, Code of Iowa, Federal Executive Order 11246 of 1965 as amended by Federal Executive Order 11376 of 1967 and Title VI of the Civil Rights Act of 1964 as amended. The Contractor will furnish all information and reports requested by the State of Iowa or required by, or pursuant to, the rules and regulations thereof and will permit access to payroll and employment records by the State of Iowa for purposes of investigation to ascertain compliance with such rules, regulations or requests, or with this nondiscrimination clause.
- 7.4 In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the aforesaid rules, regulations or requests, this contract may be canceled, terminated or suspended in whole or in part. In addition, the State of Iowa may take such further action, and such other sanctions may be imposed and remedies invoked, as provided by the Iowa Civil Rights Act of 1965 as amended, Chapter 601A, Code of Iowa, or as otherwise provided by law.
- 7.5 The Contractor will include the provisions of paragraphs 7.1 through 7.4 hereof in every subcontract, unless specifically exempted by approval of the State of Iowa, so that such provisions will be binding on each subcontract. The Contractor will take such action with respect to any subcontract as the State of Iowa may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the State of Iowa, the Contractor may request the State of Iowa to enter into such litigation to protect the interests of the State of Iowa.

Section 8.0 Indemnification

The Contractor shall be responsible and agrees to pay for any and all claims for wrongful death, personal injury, or property damage incurred by reason of the negligence of the Contractor or its employees arising from activities under this agreement to the full extent permitted by Chapter 669, Code of Iowa, which is the exclusive remedy for processing of tort claims against the State of Iowa.

Section 9.0 Compliance with Laws

The Contractor agrees that over the duration of and as a condition of the Contractor's duty to perform under the terms of this contract, that it will be in compliance with all applicable laws and regulations of the state and federal government, including, but not limited to Equal Employment Opportunity provisions, Occupational Health and Safety Act, records retention, audit requirements, allowable costs, and 40 CFR.

The Contractor certifies that it is not on EPA's List of Violating Facilities as listed in 40 CFR Part 15 and that it has not been debarred, suspended, or otherwise excluded from receiving federal funds by any agency of the U.S. government.

Section 10.0 Debarment and Suspension

- 10.1 The Contractor hereby certifies that to the best of its knowledge and belief that it and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any federal department or Agency.
- 10.2 The Contractor acknowledges that doing business with any party appearing on the nonprocurement portion of the "List of Parties Excluded from Federal Procurement Programs" may result in disallowance of costs under this agreement and may also result in suspension or debarment.

Section 11.0 Minority and Women's Business Utilization

The contractor agrees to include the six affirmative steps in 40 CFR 31.36(e) in any solicitation documents for subcontracting supplies and services under this agreement to assure that minority and women's businesses are used when possible. The contractor will submit EPA Form 5700-52A to DNR to report the utilization of such businesses.

319 Plan of Operations FFY 2007
Brushy Creek Lake Watershed Project

RECEIVED

APR 27 2008

Administrative

- Have monthly and quarterly reports prepared for the monthly commissioner's meeting and sent to DSC by the 15th of the following month.
- Prepare the annual report according to the Section 319 Reporting Guidance and submit it to DSC by October 15, 2007
- Schedule, prepare materials, and conduct the annual review.

Information/Education

- Develop and mail a news letter for the Brushy Creek Lake watershed that highlights projects and practices that have been completed, as well as announcing upcoming events.
- Submit four press releases or interviews to the local media and other conservation resource outlets to highlight and announce activities in the watershed.
- Hold at least three tours/meetings/workshops/field days to further community education on natural resource management issues.

Water Quality Practices

- Utilize 319 funds to cost share conservation practices in the watershed, including:
 - Three water and sediment control basins
 - Two grade stabilization structures
 - Three acres of waterways
 - 6000 feet of stream bank stabilization
 - 300 acres of strip-till/no-till
 - Three wetland restorations
 - Five acres of vegetation demonstration
 - Five acres of tree and shrub plantings
- Work with CRP to implement conservation practices in the watershed, including:
 - 250 acres filter strips and buffers
 - Four acres of waterways
 - Seven wetlands
- Work with EQIP to implement structural and farming practices in the watershed, including:
 - One animal waste system
 - 1,000 acres of nutrient and pest management

Assessment and Evaluation

- Calculate applicable load reductions for BMP's implemented in the Brushy Creek Lake watershed using the Sediment Delivery Calculator.
- Continue to take water samples with IOWATER testing equipment at selected sites in the watershed.
- Estimate the number of people reached by each I & E activity including news releases, brochures, and attendance at each workshop/tour/activity.

Report of Accomplishments FFY 2005 & 2006

Practices:	Projected	Completed
Animal Waste Systems	1	0
Grade Stabilization Structures	2	0
Wetlands (CRP Farmable Wetlands Program)	7	10
Water & Sediment Control Basins	4	3
Grassed Waterways	7 ac.	2 ac.
Streambank Stabilization	250 ft.	0
Tree & Shrub Plantings	5 ac.	0
Forest Stand Improvements	50 ac.	0
Prescribed Burn Implementation	50 ac.	0
Vegetation Demonstration	5 ac.	0
Nutrient & Pest Management	6,000 ac.	634.2 ac. Nutrient, 439.1 ac. Pest
CRP Filter Strips & Buffers	100 ac.	161.2 ac. (Includes FWP Buffers)
EQIP Residue Management (Strip-Till)		484.8 ac.

I & E

Hold tours/meetings/workshops All landowner meeting on September 19th, 2005 IOWATER presentation at this meeting. 24 landowners/residents attended

Submit press releases to media One submitted September 2, 2005 regarding All landowner meeting. It also listed all of the practices that would be utilized with the project.

Develop a project brochure Developed by DNR and I received copies in February.

Took IOWATER samples at seven sites in the watershed in early March.

Working with the County Conservation Board to enroll approximately 140 acres into one of the Federal Programs that is at the northern end of the Brushy Creek watershed.



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

Bill Northey, Secretary of Agriculture

June 25, 2010

Douglas Seltz, Chair
Webster SWCD
1200 ½ - 3rd Ave. NW
Fort Dodge, IA 50501

Dear Douglas:

This letter serves to provide information with regard to the project time extension request submitted by the District relative to the Brushy Creek Lake Watershed Project.

Upon review of the proposal, it has been determined that the project will be awarded a time extension until June 30, 2011. The expiration date of the current DNR-DSC Section 319 grant contract will be amended to coincide with the June 30, 2011 date as well. FY2011 funding will be based upon the work plan and budget submitted as part of the extension request as well as the availability of funds. The District will be required to submit the final project report addendum 45 days prior to the June 30, 2011 DNR-DSC contract expiration date. With this in mind, project activities should be completed and claims submitted in a timely manner prior to this date so that they can be accounted for within the addendum. FY2011 funding will be distributed to the project as soon as possible after July 1, 2010.

If you have any questions, please contact this office.

Sincerely,

A handwritten signature in black ink that reads "James E. Gillespie".

James E. Gillespie, Field Services Bureau Chief
IDALS - Division of Soil Conservation

JEG:maf

Cc: Thomas Lynn; David Strom; Bob Waters; Adam Kiel; Kyle Ament

IOWA DEPARTMENT OF NATURAL RESOURCES

**Amendment Number 3 to
CONTRACT NUMBER – 08-7144-02**

AGREEMENT TITLE: Brushy Creek Lake Watershed Project

Between

**IOWA DEPARTMENT OF NATURAL RESOURCES
And
IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP**

Purpose. The parties have entered into this Contract Amendment to extend the time of performance for an additional year and decrease the agreement amount. This amendment will allow for the installation of BMPs on state owned land.

This amendment modifies the contract as follows:

Agreement Amount: ~~\$ 170,927~~
\$ 106,443

Time of Performance: ~~October 1, 2007 to June 30, 2010~~
October 1, 2007 to June 30, 2011

All other terms and conditions of the contract shall remain the same and in force.

IN WITNESS THEREOF, the parties hereto have executed this Contract Amendment on the day and year last specified below.

DEPARTMENT OF NATURAL RESOURCES

By: 
Patricia L. Boddy, Deputy Director

Date: June 23, 2010

**DEPARTMENT OF AGRICULTURE AND
LAND STEWARDSHIP**

By: 
Karey Claghorn, Deputy Secretary of Agriculture

Date: 6-18-10

Fed Tax I.D. Number: 42-600452

Request For Extension

2010 Brushy Creek Lake Water Quality Project Report

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

Reporting Period:

Date Report Prepared:

Reporting Individual: T.J. Lynn

Preparer's Signature:

SWCD Chairperson's Signature:

Administrative

- Have monthly and quarterly reports prepared for the monthly commissioner's meeting and sent to DSC by the 15th of the following month.
- Prepare the annual report according to the Section 319/WPF Projects Reporting Guidance and submit it to DSC by July 15, 2009
- Schedule, prepare materials, and conduct the annual review.
- Prepare the final report for the project according to the Section 319/WPF Projects Reporting Guidance.

Administrative Activities Conducted:

Monthly Report

Month required	July 2009	Aug. 2009	Oct. 2009	Nov. 2009
Date Submitted				

Month required	Jan. 2010	Feb. 2010	Apr. 2010	May 2010
Date Submitted				

Quarterly Report

Quarter required	July-Sept. 2009	Oct.-Dec 2009	Jan.-Mar. 2010
Date Submitted			

Annual Report

Month required – July 15, 2010
Date submitted -

FY11 Work Plan and Budget (if applicable)

Month required – May 1, 2010
Date submitted -

Annual Review Meeting

Month required – May, 2010
Date submitted -

Draft Final Report (if applicable)

Month required –
Date submitted -

Final Report (if applicable)

Month required – August 1, 2010
Date submitted -

Comprehensive Interim Report (if applicable)

Month required – Date submitted -

Information/Education

- Develop and mail a newsletter for the Brushy Creek Lake watershed that highlights projects and practices that have been completed, as well as announcing upcoming events.
- Submit three press releases or interviews to the local media and other conservation resource outlets to highlight and announce activities in the watershed.

Information/Education Activities Conducted:

1st qtr:
2nd qtr:
3rd qtr:
4th qtr:

Assessment and Evaluation

- Monitor and assess stream velocity and depth for the northeast tributary of Brushy Creek Lake. Multiple years of data are needed for structure design by the engineers that would cover over 6,000 feet of eroding streambank.
- Calculate applicable load reductions for BMP's implemented in the Brushy Creek Lake watershed using the Sediment Delivery Calculator.
- Estimate the number of people reached by each I & E activities.

Assessment and Evaluation Activities Conducted:

1st qtr:
2nd qtr:
3rd qtr:
4th qtr:

Miscellaneous Activities

-

Miscellaneous Activities Conducted:

1st qtr:
2nd qtr:
3rd qtr:
4th qtr:

Practices:

	Number, Acres or other units	Total cost	Cost Share rate	Landowner Cost	Project Cost	319, WPF, WSPF	Other Source	Other Source ID
Practices:								
Grade Stabilization Structures	2	\$20,000	75%	\$0	\$15,000	\$15,000	\$5,000	Lakes Restoration
Water & Sediment Control Basins	15	\$71,200	75%	\$0	\$53,400	\$53,400	\$17,800	Lakes Restoration
Grassed Waterways	3	\$13,500	75%	\$3,375	\$10,125	\$10,125		

Practice Activities Conducted:

1st qtr:
2nd qtr:
3rd qtr:
4th qtr:

Brushy Creek Lake Project Summary of Accomplishments

Practices:	Project Goal	Completed
Filter Strips/Riparian Buffers (New)	75% of eligible acres installed	88% of eligible installed (934.2 Acres)
Filter Strips/Riparian Buffers (Re-enrolled)	-----	229.5 Acres
Wetlands	21 FWP's Restored	23 Restored (59.7 Acres Wetland) (99.2 Acres Buffer)
Wetlands Restoration/Creation (Miller Marsh)	-----	55.0 Acres
Upland Restoration (Miller Marsh)		91.5 Acres
Animal Waste Facilities	2 to 3	0
Grassed Waterways	18 Acres	1.5 Acres
Grassed Waterways (Re-enrolled)	-----	0.8 Acres
Nutrient Management	18,000 Acres	1,372.8 Acres
Pest Management	18,000 Acres	588.4 Acres
Grade Stabilization Structures	6	6
Water & Sediment Control Basins	6	4
Whole Farm Planning	18,000 Acres	7957.8 Acres
Pasture Management/Rotational Grazing	75 Acres	0
Streambank Stabilization	1,000 Feet	0
Tree And Shrub Plantings	20 Acres	2.7 Acres
Conservation Cover/Vegetative Demonstrations	20 Acres	0
Forest Stand Improvement	200 Acres	0
Upland Field Borders	-----	10.1 Acres
Strip Till	-----	437.3 Acres

RECEIVED
JUL 01 2010
IDALS-DSC

**FIRST FY2011 SUPPLEMENT TO THE
PROJECT AGREEMENT
AGREEMENT NUMBER: 094-1.06
BETWEEN THE
IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
DIVISION OF SOIL CONSERVATION
AND THE
WEBSTER SOIL AND WATER CONSERVATION DISTRICT
AND THE
UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

This supplement is entered into by the Iowa Department of Agriculture and Land Stewardship - Division of Soil Conservation, hereinafter referred to as the Division; the Webster Soil and Water Conservation District, hereinafter referred to as the District; and the United States Department of Agriculture - Natural Resources Conservation Service, hereinafter referred to as the Service.

- I. Relative to the Brushy Creek Lake Watershed Project (Webster Soil and Water Conservation District)
- II. Purpose of the

This supplement extends Section 319 financial assistance to the District for year 6 (FY2011) activities of the Brushy Creek Lake Watershed Project. The Division agrees to provide \$31,600.00 in Section 319 financial assistance for year 6 activities. For the purpose of maintaining the District's Section 319 project ledger, \$31,600.00 will be the beginning balance. This Section 319 allocation includes \$30,000.00 for 1 FT District Employee "Salary/Benefits" and \$500.00 for "Travel Training".

The Division will make advance "Salary/Benefits" and "Travel Training" payments as requested by the District. The breakdown of these advance payments is shown below:

Time Period	Salary/Benefits	Travel Training	Total
07/01/10 – 09/30/10	\$7,500.00	\$125.00	\$7,625.00
10/01/10 – 12/31/10	\$7,500.00	\$125.00	\$7,625.00
01/01/11 – 03/31/11	\$7,500.00	\$125.00	\$7,625.00
04/01/11 – 06/30/11	\$7,500.00	\$125.00	\$7,625.00
Total	\$30,000.00	\$500.00	\$30,500.00

The District should submit requests for the Section 319 advance "Salary/Benefits/Travel" payments needed for each quarterly period via an email message to the Accounting Bureau (to Dan Kuhlman) at least 30 days prior to the beginning of the appropriate quarter. The amount to be requested will be based upon the projected residual from prior payments plus the additional funds required for the maximum projected "Salary/Benefits/Travel" expenses incurred during the reporting periods and show balances.

All fund advances that have been made to the District that are not spent by June 30, 2011 will be returned to the Division in the form of a check made out to "Treasurer State of Iowa" along with notification as to the project name and the line item for which the funds are being returned.

The District agrees to comply with certain requirements imposed upon the Division by the Iowa Department of Natural Resources Agreement Number 08-7144-02 with the Division. These include the actions, activities, and products and the timing of their performance of submission as required by the Division by Section 2 – STATEMENT OF PURPOSE, Section 3 – DURATION OF CONTRACT, Section 5 – STATEMENT OF WORK, Section 6 – MONITORING AND REVIEW, Section 7 – COMPENSATION, and Section 8 – REQUIREMENTS FOR PUBLICATIONS OF MATERIALS of the agreement SPECIAL CONDITIONS

The District will submit a financial status report to the Division by August 1, 2011 to account for all FY2011 Section 319 expenditures and show balances. The Division will recall FY2011 project Section 319 funds that are unobligated by June 30, 2011.

Section 319-funded items* eligible for cost-share incentives and/or reimbursement

1) Information/Education	\$1,000.00
2) Supplies	\$100.00
TOTAL	\$1,100.00

** The District may not make changes in Section 319 allocations among line items without prior authorization from the Division. In addition, the District may not deviate by more than 10% within individual line items without prior approval from both the Division and DNR. The Division will recall Section 319 funds from FY2011 that are unobligated by June 30, 2011.

III. Effective Date of this Supplement

This supplement takes effect 7/1/2010, or upon signature of all parties, and remains in effect until 6/30/2011 or the project agreement is terminated.

Approved:

6-29-2010
Date

Douglas K. Selby
Chairperson
Webster Soil and Water Conservation District

7-6-10
Date

Karey Claghorn
Karey Claghorn, Deputy Secretary of Agriculture
Division of Soil Conservation
Iowa Department of Agriculture and Land Stewardship



IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

PATTY JUDGE
SECRETARY OF AGRICULTURE

June 23, 2005

Douglas Seltz, Chair
Webster SWCD
1200 ½ - 3rd Ave. NW
Fort Dodge, IA 50501

Dear Douglas:

Enclosed are four copies of the initial project agreement (FY2006) between the IDALS/DSC, the Webster Soil and Water Conservation District, and the USDA/NRCS with respect to the Brushy Creek Lake Watershed Project (Webster SWCD - DSC Project #094-1.06). Also included for the District's files is a copy of the agreement between IDNR and IDALS/DSC with regard to this project.

Please discuss this initial agreement at your next commissioners' meeting. Approval of the agreement will require a motion and the action must appear in the official minutes of the meeting. After you have signed and dated all copies, return them to the Division of Soil Conservation. One fully executed copy will be returned to the district for your files.

If you have any questions, please contact this office.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ken Tow", is written over the word "Sincerely,".

Kenneth R. Tow, Director
IDALS - Division of Soil Conservation

KRT: maf
Enclosures

January - March 2011 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

Reporting Period: January 1 – March 31, 2011

Date Report Prepared: April 15, 2011

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



February 2011 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **February 1, 2011 to February 28, 2011**

Date Report Prepared: **March 15, 2011**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:



SWCD Chairperson's Signature:



October - December 2010 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

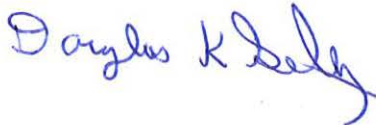
Reporting Period: October 1 – December 31, 2010

Date Report Prepared: January 15, 2010

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



July - September 2010 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

Reporting Period: July 1 – September 30, 2010

Date Report Prepared: October 15, 2010

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



Brushy Creek Lake Water Quality Project

319 094-1.06

Annual Report of Goals and Accomplishments

Prepared By



T.J. Lynn

Brushy Creek Lake Project Coordinator

SWCD Chairperson's Signature:



For The Time Period of July 1, 2009 to June 30, 2010

**Date Prepared
August 1, 2010**

May 2010 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **May 1, 2010 to May 31, 2010**

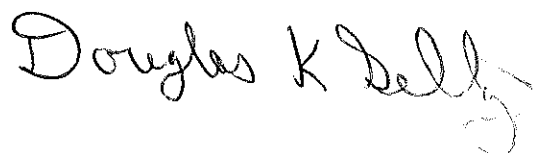
Date Report Prepared: **May 31, 2010**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", with a horizontal line extending to the right.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Bell", with a stylized flourish at the end.

April 2010 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **April 1, 2010 to April 30, 2010**

Date Report Prepared: **April 30, 2010**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink that reads "T. J. Lynn".

SWCD Chairperson's Signature:

A handwritten signature in blue ink that reads "Douglas K Bely".

JANUARY - MARCH 2010 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

Reporting Period: January 1 – March 31, 2010

Date Report Prepared: April 15, 2010

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



February 2010 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **February 1, 2010 to February 28, 2010**

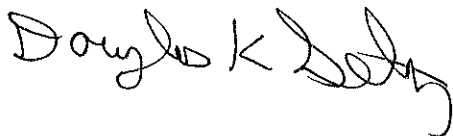
Date Report Prepared: **February 28, 2010**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", written over a horizontal line.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. DeLong", written in a cursive style.

January 2010 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **January 1, 2010 to January 31, 2010**

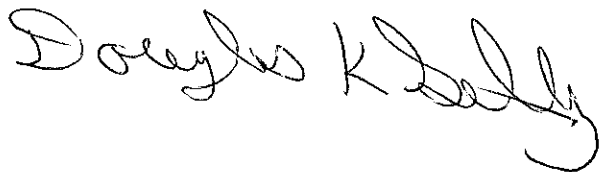
Date Report Prepared: **January 31, 2010**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:



SWCD Chairperson's Signature:



October - December 2009 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

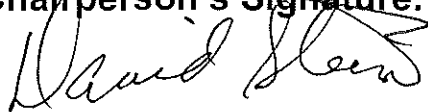
Reporting Period: October 1 – December 31, 2009

Date Report Prepared: January 15, 2010

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



November 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **November 1, 2009 to November 30, 2009**

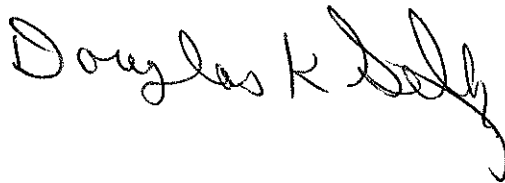
Date Report Prepared: **November 30, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", with a long horizontal flourish extending to the right.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Kelly", written in a cursive style.

October 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

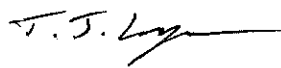
Soil and Water Conservation District: **Webster**

Reporting Period: **October 1, 2009 to October 31, 2009**

Date Report Prepared: **October 31, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:



SWCD Chairperson's Signature:



July - September 2009 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

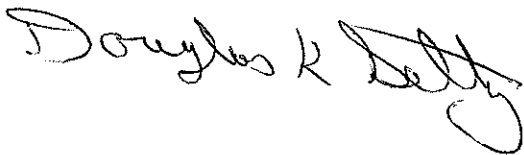
Reporting Period: July 1 – September 30, 2009

Date Report Prepared: October 15, 2009

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



August 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **August 1, 2009 to August 31, 2009**

Date Report Prepared: **August 31, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:



SWCD Chairperson's Signature:



July 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **July 1, 2009 to July 31, 2009**

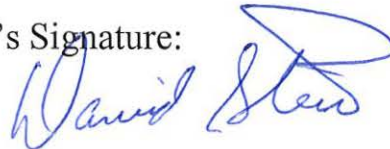
Date Report Prepared: **July 31, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:



SWCD Chairperson's Signature:



August 2010 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **August 1, 2010 to August 31, 2010**

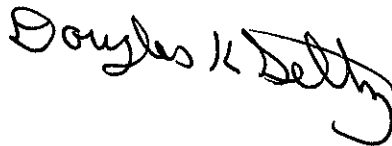
Date Report Prepared: **August 31, 2010**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", written over a horizontal line.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Deltz", written in a cursive style.

July 2010 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

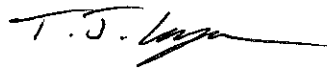
Soil and Water Conservation District: **Webster**

Reporting Period: **July 1, 2010 to July 31, 2010**

Date Report Prepared: **July 31, 2010**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", with a stylized flourish at the end.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Lely", written in a cursive style.

June 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **June 1, 2009 to June 30, 2009**

Date Report Prepared: **June 30, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:



SWCD Chairperson's Signature:



April - June 2009 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

Reporting Period: April 1 – June 30, 2009

Date Report Prepared: June 30, 2009

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



Brushy Creek Lake Water Quality Project

319 094-1.06

Annual Report of Goals and Accomplishments

Prepared By

T.J. Lynn

T.J. Lynn

Brushy Creek Lake Project Coordinator

SWCD Chairperson's Signature:

David Steen

For The Time Period of October 1, 2008 to June 30, 2009

**Date Prepared
August 1, 2009**

May 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

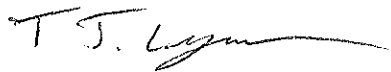
Soil and Water Conservation District: **Webster**

Reporting Period: **May 1, 2009 to May 30, 2009**

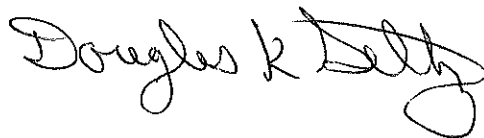
Date Report Prepared: **May 30, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", written over a horizontal line.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Bell", written in a cursive style.

April 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **April 1, 2009 to April 30, 2009**

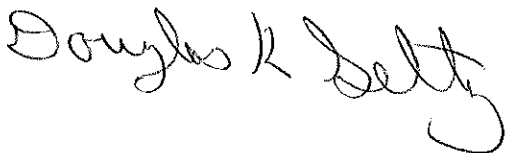
Date Report Prepared: **April 30, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", with a horizontal line extending to the right.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas R. Selty", written in a cursive style.

January- March 2009 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

Reporting Period: January 1 – March 31, 2009

Date Report Prepared: March 31, 2009

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



February 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **February 1, 2009 to February 18, 2009**

Date Report Prepared: **March 15, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:



SWCD Chairperson's Signature:



January 2009 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **January 1, 2009 to January 31, 2009**

Date Report Prepared: **February 15, 2009**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", written over a horizontal line.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Loh", written in a cursive style.

December 2008 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **November 25, 2008 to January 1, 2008**

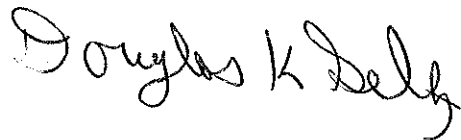
Date Report Prepared: **January 15, 2008**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", with a horizontal line extending to the right.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Delby", written in a cursive style.

**October- December 2008 WATER QUALITY
PROJECT QUARTERLY REPORT**

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

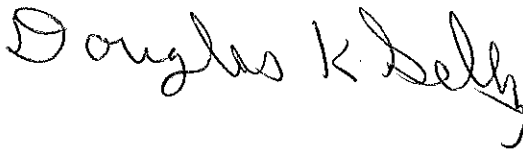
Reporting Period: October 1 – December 31, 2008

Date Report Prepared: January 15, 2008

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



November 2008 Water Quality Project Monthly Report

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 094-1.06

Soil and Water Conservation District: Webster

Reporting Period: October 28, 2008 to November 24, 2008

Date Report Prepared: December 15, 2008

Reporting Individual: T. J. Lynn

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", with a horizontal line extending to the right.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. DeLay", written in a cursive style.

October 2008 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **September 23, 2008 to October 27, 2008**

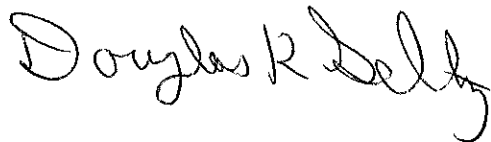
Date Report Prepared: **November 15, 2008**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", written over a horizontal line.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas R. Selby", written in a cursive style.

September 2008 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **319 094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **August 27, 2008 to September 23, 2008**

Date Report Prepared: **October 15, 2008**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:



SWCD Chairperson's Signature:



July - September 2008 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

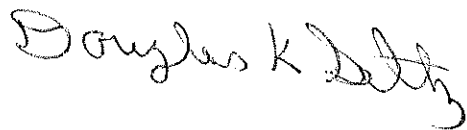
Reporting Period: July 1 – September 30, 2008

Date Report Prepared: October 15, 2008

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



August 2008 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **319 094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **July 29, 2008 to August 26, 2008**

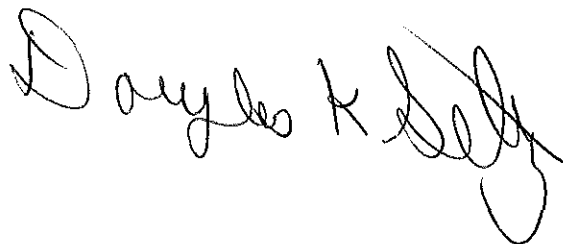
Date Report Prepared: **September 15, 2008**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", written over a horizontal line.

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Selby", written in a cursive style.

Brushy Creek Lake Water Quality Project

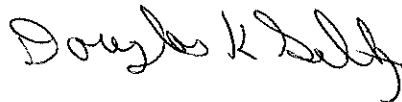
319 094-1.06

Annual Report of Goals and Accomplishments

Prepared By

**T.J. Lynn
Brushy Creek Lake Project Coordinator**

SWCD Chairperson's Signature:

A handwritten signature in black ink, appearing to read "Douglas K. Self". The signature is written in a cursive, flowing style.

For The Time Period of October 1, 2007 to June 30, 2008

**Date Prepared
August 1, 2008**

APRIL - JUNE 2008 WATER QUALITY PROJECT QUARTERLY REPORT

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 319 094-1.06

Soil and Water Conservation District: Webster

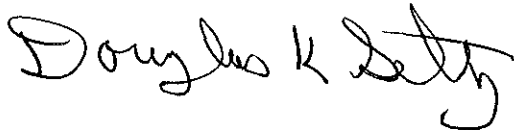
Reporting Period: April 1 - June 30, 2008

Date Report Prepared: August 1, 2008

Reporting Individual: T.J. Lynn

Preparer's Signature: 

SWCD Chairperson's Signature:



July 2008 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **319 094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **June 23, 2008 to July 28, 2008**

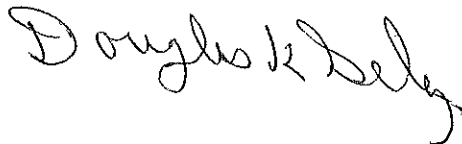
Date Report Prepared: **August 15, 2008**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in cursive script, appearing to read "T. J. Lynn", written in black ink.

SWCD Chairperson's Signature:

A handwritten signature in cursive script, appearing to read "Douglas K. Selby", written in black ink.

June 2008 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **May 27, 2008 to June 30, 2008**

Date Report Prepared: **June 15, 2008**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", written over a horizontal line.

SWCD Chairperson's Signature:

A handwritten signature in purple ink, appearing to read "Douglas K. Lally", written in a cursive style.

May 2008 Water Quality Project Monthly Report

Project Name: **Brushy Creek Lake Water Quality Project**

Project Number: **094-1.06**

Soil and Water Conservation District: **Webster**

Reporting Period: **April 30, 2008 to May 26, 2008**

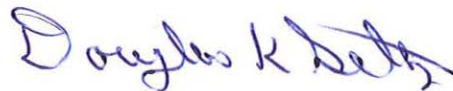
Date Report Prepared: **June 15, 2008**

Reporting Individual: **T. J. Lynn**

Preparer's Signature:

A handwritten signature in black ink, appearing to read "T. J. Lynn", written over a horizontal line.

SWCD Chairperson's Signature:

A handwritten signature in blue ink, appearing to read "Douglas K. Smith", written in a cursive style.

April 2008 Water Quality Project Monthly Report

Project Name: Brushy Creek Lake Water Quality Project

Project Number: 094-1.06

Soil and Water Conservation District: Webster

Reporting Period: March 25, 2008 to April 29, 2008

Date Report Prepared: May 15, 2008

Reporting Individual: T. J. Lynn

Preparer's Signature:

A handwritten signature in cursive script, appearing to read "T. J. Lynn", written in black ink.

SWCD Chairperson's Signature:

A handwritten signature in cursive script, appearing to read "Douglas K. Bell", written in black ink.

IOWA DEPARTMENT OF NATURAL RESOURCES

AGREEMENT NUMBER 06-7144-02

with

DIVISION OF SOIL CONSERVATION
IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP

Agreement Title: Brushy Creek Lake Watershed Project

Agreement Amount: \$98,900

Time of Performance: July 1, 2005 to
October 31, 2006

Division of Soil Conservation
Project Officer: James Gillespie

Department of Natural Resources
Project Officer: Ubbo Agena

Submit Original Invoice and two copies to:

Shirley Christofferson
Department of Natural Resources
Henry A. Wallace Building
Des Moines, IA 50319-0034
ATTN: Budget and Grants Bureau

Issue Payment to:

Division of Soil Conservation
Iowa Department of Agriculture & Land Stewardship
Henry A. Wallace Building
Des Moines, IA 50319
ATTN: Dan Kuhlman
Federal Employer ID # 42-6004522

The Division of Soil Conservation, Department of Agriculture and Land Stewardship agrees to deliver all supplies and perform all services set forth in the attached Special Conditions for the consideration stated herein. The rights and obligations of the parties to this agreement shall be subject to and governed by the Special Conditions and General Conditions. To the extent of any inconsistency between the Special Conditions or the General Conditions and any specifications or other contents which are made a part of this agreement, by reference or otherwise, the Special Conditions and the General Conditions shall control. To the extent of any inconsistency between the Special Conditions and the General Conditions, the Special Conditions shall control. This agreement contains 9 articles.

IN WITNESS THEREOF, the parties hereto have executed this agreement on the day and year last specified below.

ADMINISTRATIVE SERVICES DIVISION

By: Mary Jane Olney
Mary Jane Olney, Director

Date: 06-13-05

DEPARTMENT OF NATURAL RESOURCES

By: Liz Christiansen
Liz Christiansen, Deputy Director

Date: 06-17-05

This agreement was approved, as required by Subsection 455B.105(6) of the Code of Iowa, by the Environmental Protection Commission on March 21, 2005.

SPECIAL CONDITIONS

ARTICLE I - IDENTIFICATION OF PARTIES

This agreement is entered into by and between the Iowa Department of Natural Resources (hereinafter referred to as Department or DNR) and the Division of Soil Conservation, Iowa Department of Agriculture and Land Stewardship (hereinafter referred to as Contractor or DSC).

ARTICLE II - STATEMENT OF PURPOSE

This agreement is entered into for the purpose of supporting the FY06 activities of a multi-year project to protect and improve the water quality of Brushy Creek Lake. Brushy Creek Lake was constructed in 1998, and is currently considered by many as one of the cleanest lakes in the state from a water quality standpoint. However, due to the predominance of cropland in the watershed and the flat topography requiring extensive drainage systems, the lake is vulnerable to accelerated delivery of sediment, nutrients and bacteria. This project will protect the lake from future water quality impacts through the implementation of BMPs to include: animal waste structures, grade stabilization structures, wetlands, water and sediment control structures, streambank stabilization, tree and shrub plantings, etc. In addition, a comprehensive information/education program will be conducted to include field days, meetings, signs, demonstration sites, etc. .

Project activities will be carried out by a project coordinator hired for this project and assigned to the Webster Soil and Water Conservation District. This project and the activities scheduled to be conducted during FY06 are generally described in the draft Plan of Operations, Brushy Creek Lake Watershed Project, Fiscal Year 2006, which is attached as Appendix A of this contract.

ARTICLE III - STATEMENT OF WORK

3.1 By August 15, 2005, DSC shall submit to DNR a final Plan of Operations for carrying out the FY2006 activities of the Brushy Creek Watershed Project.

3.2 During the period beginning July 1, 2005, and ending September 30, 2006, DSC shall carry out the project activities identified in the final FY2006 Plan of Operations, which will be developed under Article 3.1 of this contract.

3.3 By August 15, 2005, and within 15 days of the end of every month thereafter, DSC shall submit to DNR a narrative report describing the work activities conducted under this agreement during the preceding one month period, as well as copies of pertinent public information materials developed and news articles published during the preceding month.

A financial report shall be included in each monthly report. This report shall summarize the expenses incurred during the month, identify the funding programs used to pay these expenses, and list the amounts incurred by each funding program.

3.4 By October 15, 2005, and on a quarterly basis thereafter (January 15, 2006, April 15, 2006; July 15, 2006; and October 15, 2006) DSC shall submit to DNR a report of the progress made in the preceding quarter toward completion of action items included in the FY2006 Plan of Operations, using the Plan of Operations format.

- 3.5 By May 20, 2006, DSC shall submit to DNR the FFY07 Plan of Operations and budget
- 3.6 By October 15, 2006, DSC shall submit to DNR an annual report which:
- describes all work activities carried out as part of the project during the period July 1, 2005 through September 30, 2006;
 - discusses progress made toward achieving the overall project purposes, as given in Article II (Statement of Purpose);
 - provides summaries of and evaluates (as appropriate) water quality monitoring data collected under the project; and
 - identifies the total documented project costs incurred during the project period July 1, 2005, through September 30, 2006, the funding programs used to pay these costs, and the amounts paid by each funding program.

ARTICLE IV - REPORTS AND PRODUCTS

- | | | |
|-----|----------------------------|---|
| 4.1 | Final Plan of Operations | Due August 15, 2005 |
| 4.2 | Monthly Activities Reports | Due August 15, 2005 and on the 15th of each month thereafter |
| 4.3 | Quarterly Reports | Due October 15, 2005, and on a quarterly basis thereafter (January 15, 2006; April 15, 2006; July 15, 2006; and October 15, 2006) |
| 4.4 | FFY07 POO and budget | Due May 20, 2006 |
| 4.5 | Annual Project Report | Due October 15, 2006 |

ARTICLE V - DESIGNATION OF OFFICIALS

- 5.1 Department – The Deputy Director of the Department is the official authorized to execute any changes in terms, conditions, or amounts specified in this agreement. Ubbo Agena is designated to negotiate, on behalf of the Department, and subject to the approval of the Deputy Director, any changes to this agreement.
- 5.2 DSC - James Gillespie, Field Services Bureau Chief, is the DSC official authorized to execute any changes in the terms, conditions or amounts specified in this agreement on behalf of DSC.

ARTICLE VI - TIME OF PERFORMANCE

The performance of DSC is to commence by July 1, 2005. The performance required herein shall be completed by October 31, 2006.

ARTICLE VII - ADDITIONAL SPECIAL CONDITIONS

- 7.1 DSC shall place one of the following statements as applicable on the cover page of all nonfinancial reports prepared under this agreement. The statements will not be necessary on quarterly or annual project activities reports submitted to DNR as required by this agreement, provided such reports are not also being used for public information purposes.
- "The publication of this document has been funded in part by the Iowa Department of Natural Resources through a grant from the U.S. Environmental Protection Agency under the Federal Nonpoint Source Management Program (Section 319 of the Clean Water Act)."
- "The publication of this document has been funded in part by the Division of Soil Conservation, Iowa Department of Agriculture & Land Stewardship, and by the Iowa Department of Natural Resources through a grant from the U.S. Environmental Protection Agency under the Federal Nonpoint Source Management Program (Section 319 of the Clean Water Act)."
- 7.2 DSC shall submit to DNR an original unbound copy of all non-financial documents or reports prepared under this agreement.
- 7.3 All information generated by the terms and conditions of this agreement shall become the property of the State of Iowa.
- 7.4 DNR shall review and comment on all products and subsequent revisions of these products submitted by DSC within fifteen (15) working days of the date of their receipt. Failure to comply within the allotted time constitutes approval by the Department.

ARTICLE VIII - CONDITIONS OF PAYMENT

- 8.1 This agreement is entered into on a cost reimbursable, stated maximum basis. DSC shall be reimbursed according to the reimbursement schedule and up to the contract maximum listed in Article IX.
- 8.2 Upon final signature of the contract, and as needed thereafter, DSC may request advance payment of the eligible expenses of the project. The frequency with which pre-payment requests are submitted and the amount of each request shall be determined by DSC, based on the need to pay these costs as they are incurred and on the pre-payment policies of the Department of Revenue and Finance.
- At the end of the contract period, any advance payments in excess of the actual amounts expended shall be returned to DNR.
- 8.3 For each payment due under this contract, DSC shall submit a Contractor's invoice. No claim shall be allowed by the Department of Revenue and Finance when such claim is presented after the lapse of three months from its accrual. (Section 421.38, Code of Iowa, 1997, special provisions of law excepting).
- 8.4 DNR shall not process payment for items of work or service which, in the determination of DNR, do not meet the specification of Article III of the Special Conditions. If the item of work or service is resubmitted by a date agreed to by DNR and DSC through an amendment to this agreement and is determined by the Deputy Director of DNR to be satisfactorily completed according to the specifications of Article III (Special Conditions), payment shall be processed.

- 8.5 DNR shall have the option of terminating this agreement for cause within the meaning of Section 6.1 of the General Conditions if DSC submits any items of work or service more than ten (10) working days after the due date.
- 8.6 The Deputy Director of DNR may waive the application of Article VIII (8.5) of the Special Conditions for any or all items of work or service specified in Article III of the Special Conditions.

ARTICLE IX - CONTRACT PAYMENT SCHEDULE

9.1 Contract Budget, FY2006

<u>Items</u>	<u>Budget Amount</u>
Salary/benefits.....	\$64,000
DSC Indirect Costs.....	14,700
Travel/training.....	2,000
Supplies.....	600
Equipment.....	175
I&E.....	250
Financial Incentives	
Animal waste structure* (1).....	5,500
Grade Stabilization Structure* (2).....	5,500
Water and Sediment Control Basins * (4).....	1,875
Grassed Waterways* (3 ac).....	1,675
Streambank Stabilization* (250 ft).....	1,250
Tree and Shrub Planting** (5 ac).....	1,250
Vegetation Demonstration*** (5 ac).....	125
Subtotal Financial Incentives.....	17,175
Total.....	\$98,900

note - *25% cost-share 319; 25 % cost-share landowner; 50% cost-share EQIP/IFIP

**62.5% cost-share 319, 25% cost-share landowner, 12.5% cost-share Trees Forever

*** 25% cost-share 319, 25% cost-share landowner, 50% cost-share Trees Forever

9.2 Contract Payment Schedule

<u>Date</u>	<u>Payment Amounts</u>
July 1, 2005 to September 30, 2006	Advance payments, (salary, benefits) as requested by DSC
August 15, 2005	Eligible Expenses: July 2005
September 15, 2005	Eligible Expenses: August 2005
October 15, 2005	Eligible Expenses: September 2005
November 15, 2005	Eligible Expenses: October 2005
December 15, 2005	Eligible Expenses: November 2005
January 15, 2006	Eligible Expenses: December 2005
February 15, 2006	Eligible Expenses: January 2006
March 15, 2006	Eligible Expenses: February 2006

March 15, 2006
April 15, 2006
May 15, 2006
June 15, 2006
July 15, 2006
August 15, 2006
September 15, 2006
October 15, 2006

Eligible Expenses: February 2006
Eligible Expenses: March 2006
Eligible Expenses: April 2006
Eligible Expenses: May 2006
Eligible Expenses: June 2006
Eligible Expenses: July 2006
Eligible Expenses: August 2006
Eligible Expenses: September 2006

Note: Total contract payment not to exceed \$98,900 as stated in Article 9.1. Reimbursement will be for actual expenses incurred. The contractor may deviate by 10% within the major line items without prior approval from the Department.

GENERAL CONDITIONS

Section 1.0 Entire Agreement

This agreement constitutes the entire agreement between the Department and the Contractor with respect to the subject matter hereof, and the Contractor acknowledges that it is entering into the contract solely on the basis of the terms and conditions herein contained and not in reliance on any representation, statement, inducement or promise, whether oral or written, not contained herein.

Section 2.0 Amendment

In order to be valid, any amendment of this contract, or change in the conditions or terms of this contract must be in writing and signed by officials designated in Article V of this contract.

Section 3.0 Availability of Funds

If funds anticipated for the continued fulfillment of this contract are at any time not forthcoming or insufficient, either through the failure of the Federal Government or of the State of Iowa to appropriate funds, funding from a federal source is reduced or discontinued for any reason or discontinuance or material alteration of the program under which funds were provided, the Department shall have the right to terminate this contract without penalty in accordance with Section 6.1 of the General Conditions by giving not less than thirty (30) days written notice documenting the lack of funding.

Section 4.0 Records and Audit

- 4.1 The Contractor agrees to maintain books, documents and other records pertaining to all costs and expenses incurred and revenues acquired during this contract in accordance with generally accepted accounting principles and practices consistently applied.
- 4.2 The Contractor shall also maintain the financial information and data used in the preparation or support of the cost submission for this contract.
- 4.3 The Director of the Department or any duly authorized audit representative thereof shall have access for the purpose of audit and examination of any books, documents, papers and records of the Contractor which are pertinent at all reasonable times during the period of retention provided for in paragraphs 4.4, 4.5, and 4.6 below and shall have the right to make copies or to excerpt or make other transcriptions thereof. Access to records is

not limited to the required retention periods. The Department or its representatives shall have access to records at any reasonable time for as long as the records are maintained.

- 4.4 All records in the possession of the Contractor pertaining to this contract shall be retained by the Contractor for a period of three (3) years beginning with the date upon which the final payment under this contract is issued. Records for non-expendable property acquired under this contract shall be retained for a three-year period after the final disposition of the property.
- 4.5 Records relating to any litigation or claim arising out of the performance of this contract, or costs or expenses of this contract to which exception has been taken as a result of inspection or audit shall be retained by the Contractor until such litigation, claim, or exception has been finally settled or until the three-year period has expired, whichever occurs later.
- 4.6 The Contractor, in maintaining project expenditure accounts, records and reports, shall make any necessary adjustments resulting from any administrative reviews and audits by the United States or by the State of Iowa or by the Contractor.
- 4.7 The Contractor shall insure that an independent audit is conducted on this contract. The audit shall be in accordance with generally accepted standards and with established procedures and guidelines of the Auditor of the State of Iowa. The State of Iowa Single Audit fulfills the requirement for an independent audit.
- 4.8 The Contractor will provide a copy of the audit performed under Article 4.7 to the Department within sixty (60) days of its receipt by the Contractor.
- 4.9 Funding for this contract is made available under Catalog of Federal Domestic Assistance No.66.460.

Section 5.0 Allowable Costs

Allowable costs are specified under the approved budget presented in the Special Conditions of this contract. Allowable costs in contracts with public or non-public agencies are subject to the cost principles defined in Office of Management and Budget Circular A-87 as amended.

Section 6.0 Termination of Contract

- 6.1 Termination for cause. The Department may terminate this contract in whole or in part, at any time before the date of completion, whenever it is determined that the Contractor has failed to comply with the condition of the contract or if funds totaling the amount specified in Article IX of the Special Conditions are not available to the Department. Before any termination, the Director shall provide the Contractor an opportunity for consultation. The Department shall notify the Contractor in writing of any termination. The notice shall state the reasons for the termination. The Contractor must stop work immediately upon notification of termination. The Department will not provide any reimbursement for new commitments after the notice of termination. Payments made to Contractor or recoveries by the Department under contracts terminated for cause shall be in accordance with the legal rights and liabilities of the parties.
- 6.2 Termination for convenience. The Department or the Contractor may terminate the contract in whole, or in part, when both parties agree that the continuation of the project would not produce beneficial results commensurate with the future expenditure of funds. The two parties shall agree upon the termination conditions, including the effective date, and, in the case of partial obligations, for the terminated portion after the effective date, and shall cancel as many outstanding obligations as possible. The Department shall allow full credit to the Contractor for

the Department's share of the noncancelable obligations, properly incurred by the Contractor prior to termination. The termination agreement must be in writing and signed by the officials designated in Article V of the Special Conditions.

- 6.3 Rights in uncompleted products. In the event the contract is terminated, all finished or unfinished documents, data, reports or other materials prepared by the Contractor under this contract shall, at the option of the Department, become the Department's property and the Contractor shall be entitled to receive just and equitable compensation for any satisfactory work completed on such documents and other materials.

Section 7.0 Equal Employment Opportunity

- 7.1 The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, religion, sex, national origin, age, or mental or physical disability. The Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, creed, color, religion, sex, national origin, age or mental or physical disability except where mental or physical disability relates to a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor's business. Such action shall include, but not be limited to, the following: employment; upgrading; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other form of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth provisions of the nondiscrimination clause.
- 7.2 The Contractor will in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, religion, sex, national origin, age, or mental or physical disability except where mental or physical ability is a bona fide occupation qualification reasonably necessary to the normal operation of the Contractor's business.
- 7.3 The Contractor will comply with all relevant provisions of the Iowa Civil Rights Act of 1965 as amended, Iowa Executive Order 15 of 1973, Chapter 19B, Code of Iowa, Federal Executive Order 11246 of 1965 as amended by Federal Executive Order 11376 of 1967 and Title VI of the Civil Rights Act of 1964 as amended. The Contractor will furnish all information and reports requested by the State of Iowa or required by, or pursuant to, the rules and regulations thereof and will permit access to payroll and employment records by the State of Iowa for purposes of investigation to ascertain compliance with such rules, regulations or requests, or with this nondiscrimination clause.
- 7.4 In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the aforesaid rules, regulations or requests, this contract may be canceled, terminated or suspended in whole or in part. In addition, the State of Iowa may take such further action, and such other sanctions may be imposed and remedies invoked, as provided by the Iowa Civil Rights Act of 1965 as amended, Chapter 601A, Code of Iowa, or as otherwise provided by law.
- 7.5 The Contractor will include the provisions of paragraphs 7.1 through 7.4 hereof in every subcontract, unless specifically exempted by approval of the State of Iowa, so that such provisions will be binding on each subcontract. The Contractor will take such action with respect to any subcontract as the State of Iowa may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the State of Iowa, the Contractor may request the State of Iowa to enter into such litigation to protect the interests of the State of Iowa.

Section 8.0 Indemnification

The Contractor shall be responsible and agrees to pay for any and all claims for wrongful death, personal injury, or property damage incurred by reason of the negligence of the Contractor or its employees arising from activities under this agreement to the full extent permitted by Chapter 669, Code of Iowa, which is the exclusive remedy for processing of tort claims against the State of Iowa.

Section 9.0 Compliance with Laws

The Contractor agrees that over the duration of and as a condition of the Contractor's duty to perform under the terms of this contract, that it will be in compliance with all applicable laws and regulations of the state and federal government, including, but not limited to Equal Employment Opportunity provisions, Occupational Health and Safety Act, records retention, audit requirements, allowable costs, and 40 CFR.

The Contractor certifies that it is not on EPA's List of Violating Facilities as listed in 40 CFR Part 15 and that it has not been debarred, suspended, or otherwise excluded from receiving federal funds by any agency of the U.S. government.

Section 10.0 Debarment and Suspension

- 10.1 The Contractor hereby certifies that to the best of its knowledge and belief that it and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any federal department or Agency.
- 10.2 The Contractor acknowledges that doing business with any party appearing on the nonprocurement portion of the "List of Parties Excluded from Federal Procurement Programs" may result in disallowance of costs under this agreement and may also result in suspension or debarment.

Section 11.0 Minority and Women's Business Utilization

The contractor agrees to include the six affirmative steps in 40 CFR 31.36(e) in any solicitation documents for subcontracting supplies and services under this agreement to assure that minority and women's businesses are used when possible. The contractor will submit EPA Form 5700-52A to DNR to report the utilization of such businesses.

Appendix A

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PLAN OF OPERATIONS

Brushy Creek Lake Watershed Project

Federal Fiscal Year 2005-2006
July 1, 2005- September 30, 2005

Table Of Contents:

I. Project Administration

Goals:

- A. Hire a project coordinator.
- B. Prepare and submit monthly, quarterly, annual, and annual review progress reports.
- C. Obtain needed training for project coordinator.

II. Project Management

Goals:

- A. Manage the project to maintain quality control and to maximize communication with and involvement of, local advisors and state and local staff of participating agencies.

III. Information and Education

Goals:

- A. Hold at least three tours/meetings/workshops/activities to further community education on natural resource management issues.
- B. Work with media to inform the public regarding the Brushy Creek Lake Watershed Project.
- C. Begin planning the methodology and establish at least five demonstration sites on agricultural and urban land within the watershed that will feature conservation practices.

IV. Water Quality Practices

Goals:

- A. Promote and install conservation practices and other techniques.

V. Measures of Success

Goals:

- A. Make an assessment of erosion/sediment delivery reductions from the implementation of BMPs in the watershed.
- B. Identify a numeric value of stakeholders reached based on information and education activities.

Comments

I. Project Administration

Goals:

A. Hire a project coordinator.

1. Work with DSC, IDNR, and SWCD to complete the necessary activities to hire a Project Coordinator by July.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
DSC, IDNR, SWCD	7/05	8/05	(% completed)

Remarks:

B. Prepare and submit monthly, quarterly, annual, and annual review progress reports.

ACTION ITEMS

1. Have monthly and quarterly reports prepared for the monthly commissioners meeting and sent to DSC by the 15th of the following month.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	7/05	9/06	(% completed)

Remarks:

Monthly Report Check off

Month	July 05	Aug. 05	Sep. 05	Oct. 05	Nov. 05	Dec. 05
Date Submitted						

Month	Jan. 06	Feb. 06	Mar. 06	Apr. 06	May. 06	June 06
Date Submitted						

Month	July 06	Aug. 06	Sep. 06			
Date Submitted						

Quarterly Report Check off

Quarter	July-Sep. 05	Oct.-Dec. 05	Jan.-Mar. 06	Apr.-June 06
Date Submitted				
Quarter	July-Sep. 06			
Date Submitted				

2. Prepare annual report and submit to DSC by October 15, of 2005 and 2006.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	9/05	10/05	(% completed)
	9/06	10/06	

Remarks:

3. Schedule, prepare materials, and conduct the annual review.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	9/05	9/05	(% completed)
	9/06	9/06	

Remarks:

C. Obtain needed training for project coordinator.

ACTION ITEMS

1. Schedule needed training for the Project Coordinator with DNR, DSC, and the District.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	7/05	9/06	(% completed)

Remarks:

II. Project Management

Goals:

A. Manage the project to maintain quality control and to maximize communication with, and involvement of, local advisors and state and local staff of participating agencies.

ACTION ITEMS

1. Report monthly progress to SWCD Commissioners.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	7/05	9/06	(% completed)

Remarks:

2. Schedule quarterly meetings with the Brushy Creek Advisory Committee to seek direction for project activities, provide updates on activities, and gather feedback.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	7/05	9/06	(% completed)

Remarks:

3. Work with partner agencies and develop new partnerships that will promote the success of the project.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	7/05	9/06	(% completed)

Remarks:

III. Information and Education

Goals:

- A. Hold at least three tours/meetings/workshops/activities to further community education on natural resource management issues.**

ACTION ITEMS

1. Host one meeting for all landowners/residents of the watershed to introduce the public to the project and its goals.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	7/05	8/05	(% completed)

Remarks:

2. Host one workshop on septic systems targeting rural residents of the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, County Health Department	7/05	9/05	(% completed)

Remarks:

3. Hold two workshops on IOWATER and water quality with 50 landowners/school groups in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, County Conservation	7/05	9/06	(% completed)

Remarks:

4. Hold two field days to demonstrate cropland test plots that have been established in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, W. Co. Extension, IDNR staff, County Conservation	7/05	9/06	(% completed)

Remarks:

B. Work with media to inform public regarding the Brushy Creek Lake Watershed Project.

ACTION ITEMS

1. Submit 4 press releases to the local media and other conservation resource outlets.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD	7/05	9/06	(% completed)

Remarks:

2. Send one biannual newsletter mailing to all watershed residents pertaining to activities and practices available.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, SWCD DNR, County Conservation	7/05	9/06	(% completed)

Remarks:

3. Develop a project brochure highlighting activities in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator, DNR	7/05	9/05	(% completed)

Remarks:

C. Begin planning the methodology and establishing at least five demonstration sites on agricultural and urban land within the watershed that will feature conservation practices and other techniques.

1. Continue to work with local landowners and other conservation organizations to develop signage on selected sites in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	7/05	9/06	(% completed)

Remarks:

2. Work with local landowners and other conservation organizations to establish three test plots on cropland for demonstration purposes.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	7/05	9/06	(% completed)

Remarks:

3. Work to get two acres of erosion control matting installed for demonstration in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	10/05	9/06	(% completed)

Remarks:

4. Work to install two mulching/composting demonstrations in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	10/05	9/06	(% completed)

Remarks:

5. Work to install five acres of vegetative demonstrations in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator, SWCD	10/05	9/06	(% completed)

Remarks:

IV. Water Quality Practices

Goals:

A. Promote and install conservation practices and other techniques.

1. Work to install 100 acres of conservation buffers in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

2. Work to install one animal waste facility in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

3. Work to install seven acres of grassed waterways in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

4. Work to apply 6,000 acres of nutrient and pest management in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

5. Work to develop 750 acres of whole farm conservation plans in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

6. Work to install two grade stabilization structures in the watershed.

<u>Responsible person:</u>	<u>Start:</u>	<u>End:</u>	<u>%Completion:</u>
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

7. Work to install four water and sediment control basins in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

8. Work to install 50 acres of pasture management/rotational grazing in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

9. Work to install 250 feet of stream bank stabilization in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

10. Work to install and restore seven wetlands in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

11. Work to install 250 feet of streambank stabilization in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

12. Work to install five acres of new tree and shrub plantings in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

13. Work to get 50 acres of forest stand improvement implemented in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

14. Work to get 50 acres of prescribed burn implementation in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)
SWCD, Office Staff			
Remarks:			

V. Measures of Success

Goals:

A. Make an assessment of erosion/sediment delivery reductions from the implementation of BMPs in the watershed.

ACTION ITEMS

1. Calculate applicable load reductions for BMPs implemented in the watershed.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	10/05	9/06	(% completed)

Remarks:

B. Identify a numeric value of stakeholders reached based on information and education activities.

ACTION ITEMS

1. Estimate the number of people reached by each I & E activity including news releases and brochures and attendance at each workshop/tour/activity.

Responsible person:	Start:	End:	%Completion:
Project Coordinator	7/05	9/06	(% completed)

Remarks:

Brushy Creek Lake Watershed Development Grant Final Report

Date Received:

Project Title: Brushy Creek Lake Watershed Development Grant
District Submitting Application: Webster County SWCD
Contact Person: Douglas Seltz, Chair Christine Taliga, District Conservationist
1200 ½ 3rd Ave NW
Webster County, IA 50501

The Brushy Creek Lake Watershed Development Grant was funded in 2003 to complete assessments for the state-owned Brushy Lake watershed in Webster County, Iowa. The purpose of this grant was to assess these potential problems for the watershed with respect to water quality and to lay the basis for a comprehensive watershed protection plan. Assessments completed included compiling watershed characteristics (included location of drainage district boundaries, tile locations and outlets), landowner/operator directory, landowner/operator survey, compilation of historical data, GIS assessments including land cover, sediment delivery, and potential sheet/rill erosion. All funds provided by the development grant have been utilized for a technical assistant's salary. The assistant was employed from October 2003 through August 31, 2004, for 793.4 hours at \$ 11/hr plus employer's taxes. Webster County SWCD fulfilled all financial obligations for mailing materials.

The Watershed Development Grant efforts resulted in the following findings:

To compile the watershed characteristics tillage practices and residue levels were field inventoried in fall of 2003 and spring of 2004, (see photo, attachment #1). Iowa DNR utilized the data gathered by the technical assistant to develop a sheet and rill erosion model which predicted approximately 16,194 tons of sediment load delivered into the lake annually (see map, attachment 2). The tillage survey conducted in the fall of 2003 may not have accurately reflected the modeled soil erosion rates however, as residue levels after planting crops in the spring of 2004 may have been significantly lower than were originally estimated in the fall for the purpose of this model. In the spring of 2004, intensive tillage practices were noted in the watershed. As a result, during periods of high winds in the spring of 2004, severe wind erosion was noted in several areas of the watershed (see photos, attachment 3). Wind blown sediment may have the potential to also impact the sediment load the lake receives. Muck and Harps soils tend to be susceptible to wind erosion and approximately 6% of the watershed is compromised of these types of soils. Wind erosion, as may be seen in the referenced photo, may be a factor contributing to the overall sediment delivery of the lake, not included in the sediment delivery model. Also, wind erosion is a factor not considered in the RUSLE soil loss equation for Iowa. As a result of the combined factors of higher residue levels predicted during the fall tillage survey and the wind erosion potential, the attached Sheet and Rill erosion prediction model of an average of 1 ton/acre/year of soil loss may be a low prediction. A previous watershed analysis completed as part of a feasibility study conducted by Brice, Petrides Donohue Co. in 1988 estimated the average annual soil loss at 4 tons/acre/year.

Iowa DNR calculated the following land cover distributions for Brushy Lake Watershed based on fall of 2003 and spring of 2004 field observations. Agricultural operations comprise the majority of the land use activities in the watershed.

The table listed below provides information on land uses within the Brushy Creek Lake Watershed.¹

Land use	Acres	Percent of Total Area
Cropland	48,847	86.0%
Conservation Reserve Program	1,205 acres (Sign-up 14-present)	2.1%
Pasture/Grass	614	1.0%
Roads	1,760	3.0%
Forest/Shrub/Brush/Grass	149	0.2%
Farmstead/Urban/Commercial	1,254	2.2%
Lagoon	2	0%
Park/State Land (Pasture/Forest/Crop)	2311	4.1%
Water/River Corridor	774	1.4%
Total	56,916	100

About 2% of the acres (1,120) in the watershed are highly erodible². The distribution of hydric soils in the Des Moines Lobe Surface in the Brushy Creek watershed indicate that nearly three-fourths of the upland areas (approximately 38,000²) consist of hydric soils. Hydric soils are also located along flood terraces and tributary valleys of Brushy Creek and include wooded and emergent types (approximately 3%²). The predominant soil associations are Storden-Hayden-Wadena and Webster-Clarion-Nicollet. These soil associations comprise 100% of the soils within the watershed and represent the nearly level to gently sloping soils formed in uplands on glacial till and gently sloping to very steep soils of the Brushy Creek valley.

Average precipitation in the Brushy Creek Watershed area is approximately 30 inches per year. In an average season, about 40 inches of snow falls on Webster County. The average frost-free growing season is 152 days. The average frost-free growing season is 155 days.³

The Des Moines Lobe is the main landform region that can be found in the Brushy Creek Watershed area. The landscape of the Des Moines Lobe surface is nearly level and represents the deposits left by the last glacial advance into Iowa 12,000 to 14,000 years ago. This area is included within the prairie pothole region of North America which includes a vast area stretching from western Canada to southwestern Minnesota to north central Iowa. The Des Moines Lobe consists of moderate sediments over glacial drifts, which has resulted in mostly level ground moraines with well-connected semi-closed depressional drainage systems in the uplands, and the steep slopes of the river valleys in the floodplains.

According to land survey notes recorded by the General Land Office from the mid-1800's, the majority of the watershed consisted of prairie and marshes with the well-wooded Des Moines River Valley. "The Des Moines River Valley ... the sides of the valley are steep and well wooded from top to bottom. After ascending the sharp slope, however, the climber finds himself at once on the level prairie where often for miles he can see the stream as it flows through its V-shaped valley"⁴. Oak Savanna openings were especially prevalent along the lower, more heavily dissected reaches of Brushy Creek (Smith⁵). Settlement of Webster County began about 1850 and with settlement the native vegetation was severely changed. Most of the prairie was converted to cropland, often requiring drainage tiles to remove excess soil moisture. Lowland prairies were too wet to crop and were utilized

¹ "Brushy Creek Watershed Assessment: Webster County SWCD, GIS data compiled from District field staff by IDNR." May 2004.

² Personal Communication with Area Soil Scientist, DNR GIS data.

³ "Environmental Impact Statement. Brushy Creek State Recreation Area." September 21, 1992.

⁴ Geology of Webster County, Geological Survey, 1901.

⁵ Smith, Daryl. Veg. Inventory Analysis of Brushy Creek State Rec. Area, 1981.

for grazing. The Oak Savanna areas were also used for grazing although smaller areas were cleared for cropland. The forest areas were logged and selectively used for timbered pastures resulting in a forest community with invasive tree and shrub species, drastically shading the understory of the forest floor significantly contributing to the present day erosion of the wooded valleys of the watershed. With the decline of fire many of the savanna areas became more densely populated with trees and in some instances were converted to forest.

Nearly all the farmers in the watershed participate in the USDA farm program, about 12% of which are required that there be a conservation plan on file. The results of the watershed assessment indicate that approximately one quarter of the farmers in the watershed already incorporate some sort of conservation tillage program into their farming operations, although may not have a current conservation plan. With some waterways and buffers already in place this project will target the remaining 37,000 acres to implement whole farm conservation plans.

According to the Farm Service Agency, the majority of the farmers follow a corn-bean rotation. Approximately, 90% of the cropland in the watershed is in a corn-bean cropping pattern. The remaining 10% of the farmers incorporate oats and meadow into the rotations for forage purposes, (see map, attachment #4).

According to the Iowa Department of Natural Resources, there are six permitted livestock facilities in the watershed, (see map, attachment #5). To date these operations currently do not appear to be adversely impacting the lake. The planned wetland restoration projects will be targeted to be strategically placed within the watershed as potential mitigation measures in the event a manure spill would occur.

As a result of the research conducted as a part of the Brushy Creek development grant 48 landowners with livestock were identified in the watershed. Hogs and Cattle comprise the 19 of the livestock operations in the watershed, 1 sheep operation, and 11 landowners with 5 or more horses, and one landowner with Llamas. The remainder of the landowners own recreational horses, (see photo, attachment #6).

The industrial waste of the Koch Nitrogen plant and the municipal waste sewage of the towns of Vincent and Duncombe may have the potential to adversely affect the water quality of the lake. However, at this time, there does not appear to be a water quality issue for the lake based on compliance with current state regulations, (see photos, attachment #7).

An advisory group comprised of land owners, operators, and conservation professionals located in the watershed has been formed as a result of this project. The advisory group strongly recommended submitting non-point source pollution prevention grants to provide funds to help protect the water quality of the Brushy Lake. As a result, an Iowa Water Quality/ Watershed Protection Project grant application was submitted to the Iowa Department of Agriculture and Land Stewardship to install demonstration best management practices in the Brushy Creek Lake Watershed and complete an information/education program with local landowners and operators. A Trees Forever VIEW planning grant was submitted and funded for the fall of 2004, and a Farm Bureau Non-Point Source Pollution Information/Education grant was submitted. Funding of demonstration practices along with the information/education outreach was determined to be critical action factor by the advisory board.

Thank you for the opportunity to gather the assessment data and develop the foundation of a watershed protection plan.

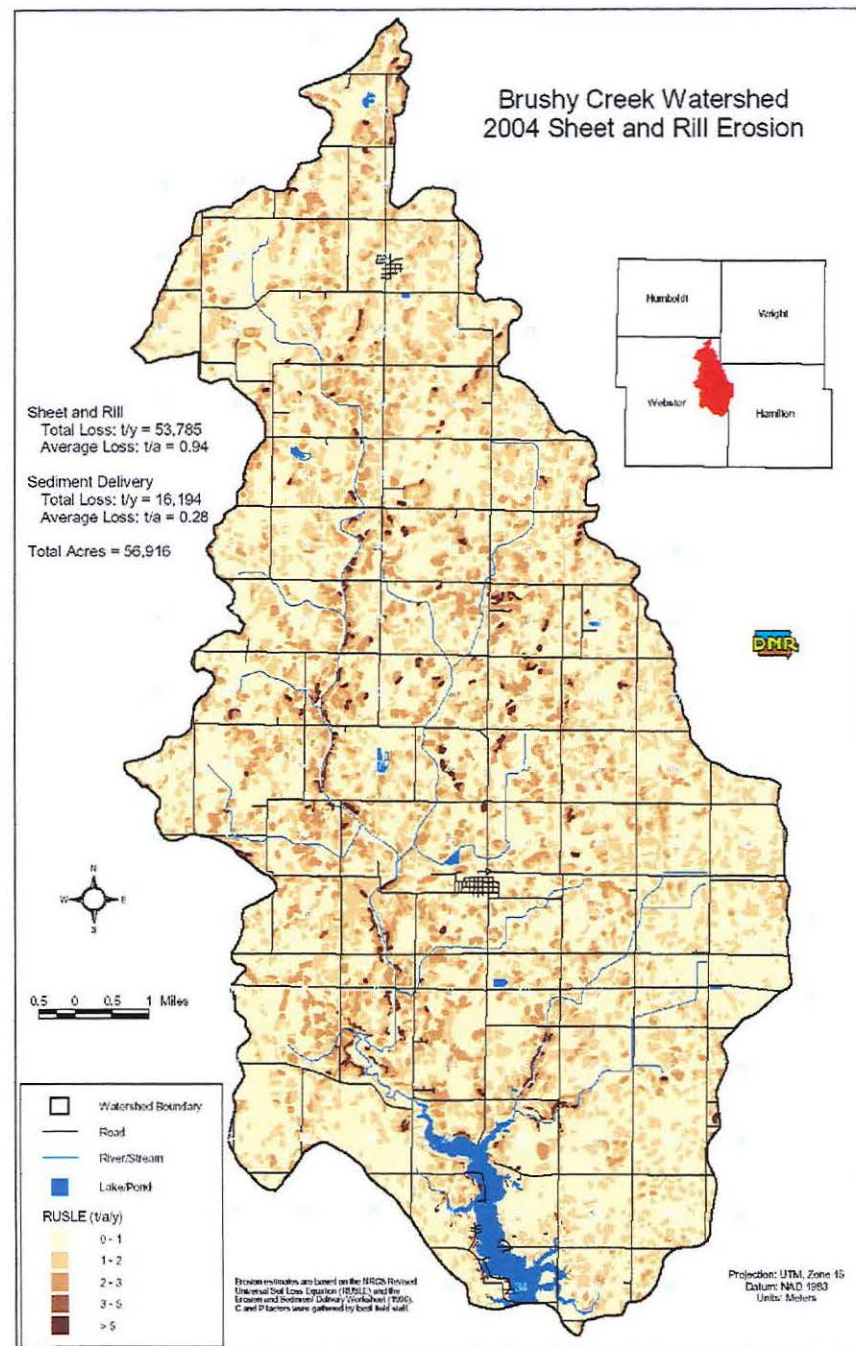
Respectfully submitted,

TJ Lynn, Technical Assistant for the Brushy Creek Lake Watershed Project

Attachments



These pictures show two of the more common tillage/farming operations in the watershed. On the left is a picture of a harvested soybean field that has had fall anhydrous applied into standing soybean stubble with tilled field borders. This practice was widely used by the producers. On the right is a picture of a harvested corn field that has been v-ripped to leave approximately 30% residue on the ground. This is by far the most common tillage practice on corn ground in the watershed. Each field in the watershed was inventoried late last fall and early this spring. Tillage practices and residue levels were recorded and the resulting crop and practice factors were sent to the DNR for evaluation and computation.

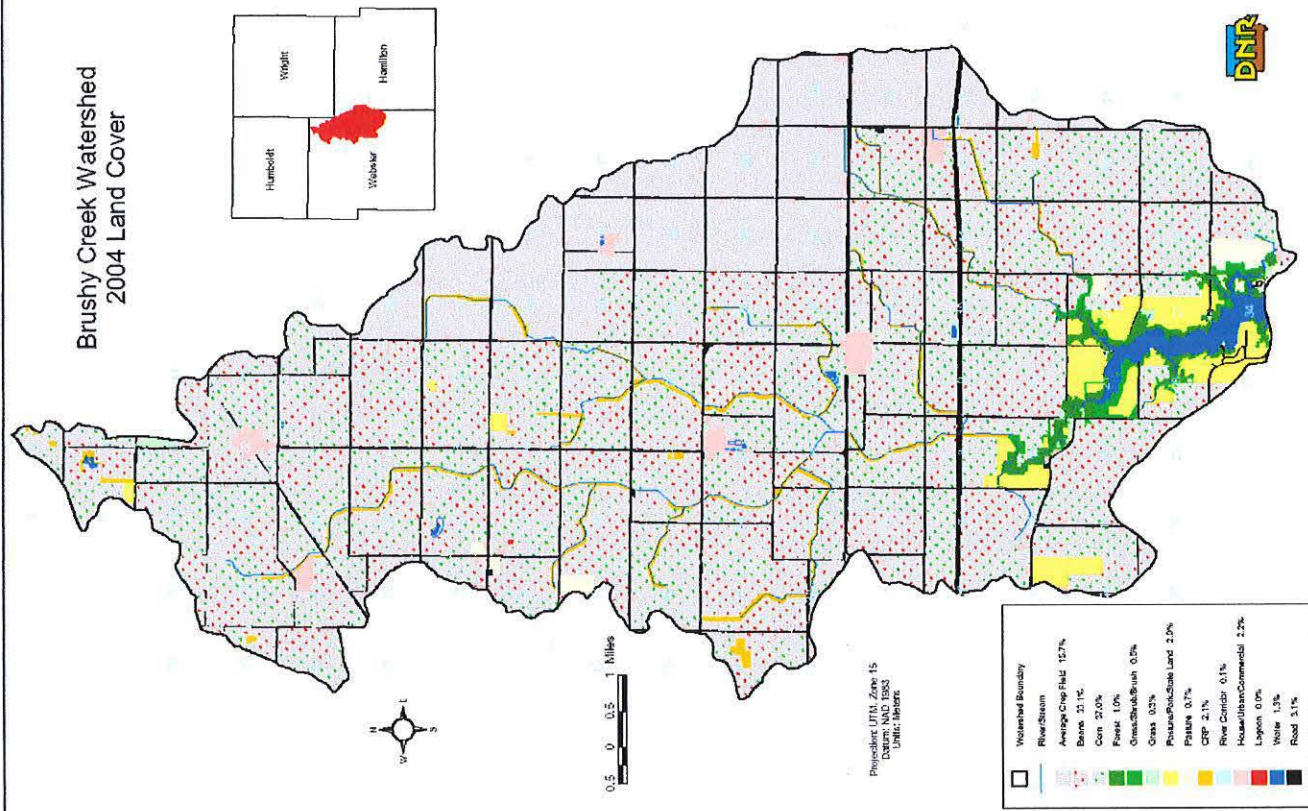


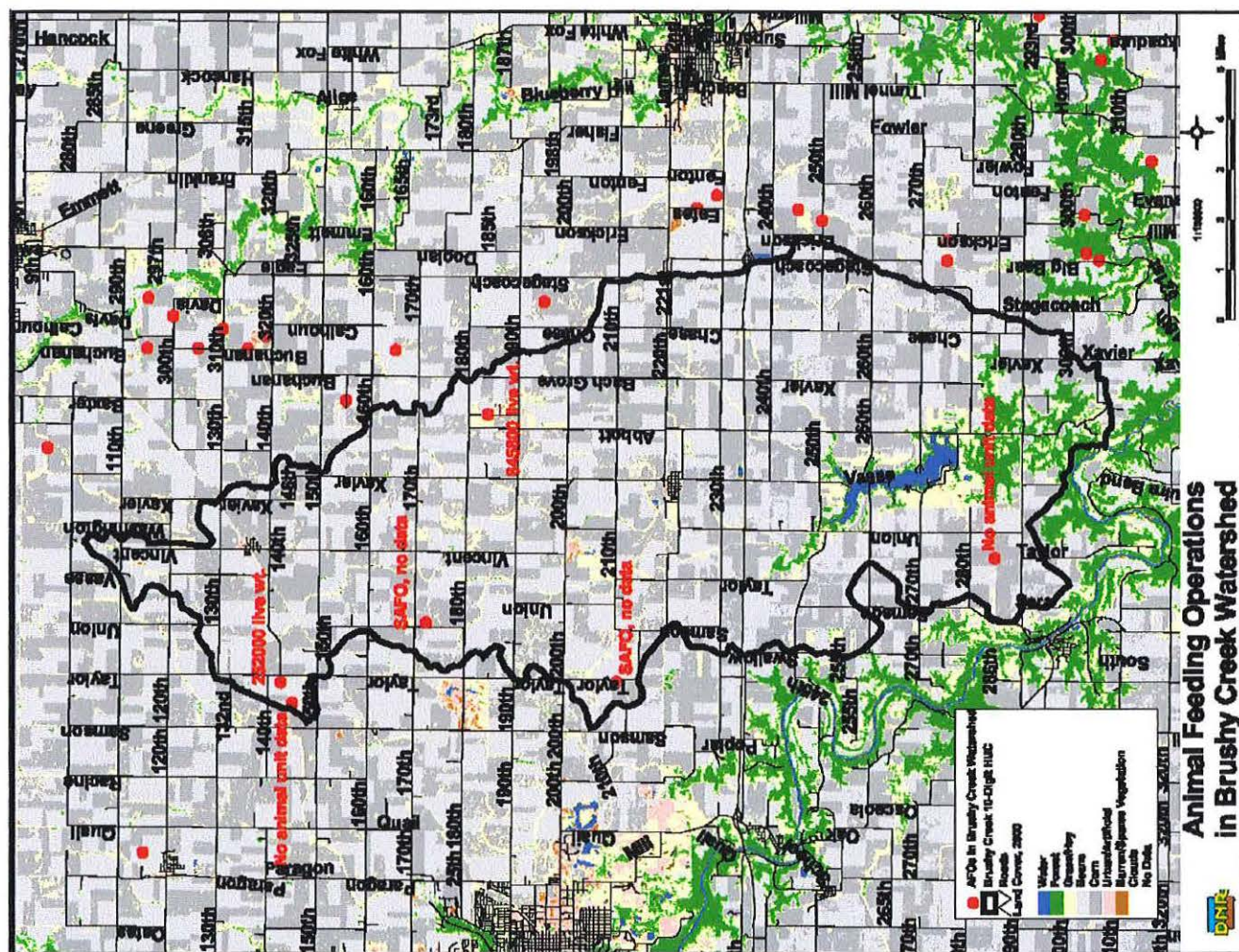


The pictures above show the result of the wind blown sediment from April, 2004. There were several areas identified throughout the watershed with this type of erosion. We estimate that this was either due to lack of residue left after fall tillage or that these fields had been cultivated at least twice in the spring of 2004, which significantly reduced the residue covering the ground prior to the wind events. The wind blown sediment was especially a problem in the potholes with muck soil types that had standing water from snow melt, had then dried up, and been cultivated a couple of times to incorporate chemicals and prepare the seed bed prior to planting.



Brushy Creek Watershed 2004 Land Cover







These areas show some of the animal operations in the watershed. A list of these target areas was compiled in February. We estimated that there are about 2,700 hogs, 800 cattle, and 140 horses that make up most of the 3,800 estimated animals in the watershed. The two cattle operations shown are fairly sizable and pose a potential risk to the lake. The hog operation shown above sits in Hamilton County and is directly West of the lake. We estimated 1,500 hogs on this 4 building site.



The Koch Nitrogen Plant is centrally located in the Watershed. They have shown significant interest in implementing conservation practices that would slow damages in the event of an accident or spill at the plant.



Both the picture above and below show drainage ditches in the Northern part of the watershed that are in need of a filter strips. A list of target areas, including these areas, was compiled in early April of this year. There are a few more ditches that are still in need of filters in the watershed.



The Districts Brushy Creek Planning Grant

The Webster County Soil and Water Conservation District solicited a Watershed-planning grant for the Brushy Creek Watershed, to:

- assess the water quality threats to the lake
- organize a strong local effort to protect water quality and protect our investment in a local resource
- promote conservation practices to protect and enhance water quality
- develop a plan for prevention measures to minimize any adverse impacts on the lake

Grant funds were obtained Sept of 2003 and planning grant will be completed June 30th 2004.

Name	Address	City	State	Zip	O/R	Township	Section
Airline Snell						Fremont	7
Arthur Johnson						Fremont	29
Bruce Youngclas etal						Fremont	31
Donald Christopherson	2667 Sampson Ave.	Duncombe	IA	50532	R	Fremont	19, 30
Donald Secker						Fremont	6
Ethel Whisler						Fremont	6
Helen Nelson etal	1108 Park St. Webster City, IA 50595					Fremont	32
Hugh Flaherty etux	1309 N. 13th St. F. D.					Fremont	31
Johnson LE						Fremont	30
Joseph Johnson						Fremont	20, 29, 30
Koestner, Inc.						Fremont	17
Land O' Lakes, Inc.						Fremont	18
Lila Koestner						Fremont	17
Lloyd Nelson						Fremont	30
Lucille Wagner						Fremont	17
Mae Johnson						Fremont	20
Marilyn Murrone						Fremont	29
Mary Helen Severson						Fremont	29, 32
Merlin Christopherson						Fremont	31
O'Connor Farm Co.						Fremont	18
Orval Christopherson						Fremont	20
Orval Johnson etux	1139 200th St. Webster City, IA 50595					Fremont	20
R. Christopherson						Fremont	20
Ralph Wagner						Fremont	17, 19
Richard Riley etux						Fremont	18
Rose Wagner	625 Railroad - Kam 50132					Fremont	6
Ruth Christopherson						Fremont	19
Stark Ag. Inc.						Fremont	19, 31
Thomas Chelesvig	1699 210th St Webster City, IA 50595					Fremont	30
W. Snell	2104 Ferguson Rd. Webster City, IA 50595					Fremont	7
Whycary, Inc.						Fremont	19
Willard Nelson						Fremont	30
Youngclass Farms						Fremont	32

Add these addresses

Extension, Jim Patton

Webster Co cons. Karen Hansen (Malt Co. 1001 Ave)

Friends of Brushy - (guy from Webster + guy from Ft. Dodge (Dr.))

DNR Chad Keltchen / Amber
Steve Bell

Lanny Miller

Kock Nitrogen plant
2 residence that came to our previous mtg.



IOWA FARM BUREAU FEDERATION

Region 9: Calhoun, Humboldt, Pocahontas, Webster, Wright Counties

Terry Seehusen
Regional Manager
1803 Elmhurst Avenue
Humboldt, IA 50548
Res. (515) 332-4856
Cell (515) 368-0592

Rick Robinson

515 225 5432

RECEIVED

JUL 19 2004

July 16, 2004

Webster County ISU Extension
Attn: Jim Patton
108 South 8th Street
Fort Dodge, IA 50501

Jim:

I believe the enclosed brochure for "Nonpoint Source Pollution Information & Education County Grant Program" has a much better chance of being accepted for the Webster County Soil & Water Conservation District project for Brushy Creek verses the Challenge Grant application.

The five grants to be awarded are for \$2500.00 each. Deadline for the applications is September 7, 2004 with the winners to be announces before October 1.

It is my estimate that the Brushy Creek project being proposed by the County Soil and Water Conservation District would have a good chance of earning the grant should they decide to submit an application.

Please feel free to contact me if there are any more questions.

Sincerely,

Terry Seehusen
Farm Bureau Regional Manager

July 14, 1901

My dear Mr. Brewster
I have just received
your letter of the 10th inst.
and am glad to hear of
your interest in the
subject.

Yours truly,

I have been thinking of writing you for some time
about the subject of the "Brewster's Blackbird"
and the "Brewster's Blackbird" and the "Brewster's
Blackbird" and the "Brewster's Blackbird" and the
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Blackbird" and the "Brewster's Blackbird" and the
"Brewster's Blackbird" and the "Brewster's Blackbird".

Yours truly,

Very truly,
John G. Thompson



Iowa Farm Bureau Challenge Grant Program – 2004 Application
Learn. Grow. Prosper.

Qualifications:

- Iowa Farm Bureau may contribute up to 33% of the cost for a project. County Farm Bureaus and other contributors must fund at least 67%.
- Funds are offered *only* to educational projects; must not be political in nature, require purchase of tickets or be used to pay salaries.
- Upon Challenge Grant approval, the organization will have one year to complete and submit a final report and project follow-up.
- Projects must be approved by the county Farm Bureau prior to consideration. Should multiple counties be involved with a project, only one application should be submitted (county approval letter may be co-signed by all). Return completed application to county Farm Bureau.
- Should you need additional space for important project details, please attach a separate sheet – either typed or handwritten on lined paper.

(space for county office label)

Organization name: Webster County Soil and Water Conservation District
Organization's purpose: To Preserve the Soil and Protect the Water

Name of project: Improve Water Quality with the utilization of Pest and Nutrient Management Site of project: Brushy Creek Watershed

Contact name: Webster County Soil and Water Conservation District, Christine Taliga, District Conservationist

Email: chris.taliga@ia.usda.gov

Address: 1200 1/2 3rd Street NW City/state/zip: Fort Dodge, Iowa 50501

Phone(h): 573-4113 Phone(w): 573-4411 Fax: 573-5539

Project start date: October 1, 2004 End date: September 30, 2005 Grant requested: \$2,500.00 (\$5000 maximum)

Project objectives and
how Challenge Grant
funds would help
achieve them:

The main objective of this project is to emphasize water quality and the conservation management practices available to help farmers protect water quality in the Brushy Creek Watershed. Brushy Creek Lake is a relatively new state-owned lake, the construction of which was completed in 1998. The 690 acre lake was specifically created to address a shortage of recreational and fishing opportunities in this area. The 57,000 acre lake watershed is compromised mostly of level and intensively farmed cropland. It is currently considered one of the cleanest lakes in Iowa primarily because of its recent construction. Sediment and the associated nutrients and pesticides have not had time to build up in the storage area of the lake. Given the size of the watershed, long-term consideration needs to be given to sediment and nutrient delivery and the inevitable problems associated with such a large watershed to lake ratio.

The Brushy Creek Watershed has been established as a priority area by the Webster County Soil and Water Conservation District (WSWCD) to keep Brushy Lake off of the states 303(d) list of impaired water bodies. To this aim the District proposes to utilize Farm Bureau grant funds to organize educational outreach efforts to local farmers regarding nutrient and pest management practices and benefits. To facilitate this effort we will initiate five demonstration sites with test plots evaluating nutrient management, water quality, and pest control (timing, varying nutrient amounts, crop scouting, and application methods will be demonstrated). Also included will be conservation tillage practices such as strip-till and possibly no-till and ridge-till, the utilization of buffers, and other conservation practices. Signage funded by this grant will highlight water quality practices on the land. Information from the plots will be utilized in two educational workshops and two district newsletters to motivate voluntary and proactive participation in the implementation of nutrient and pest management conservation practices, all land owners will be invited to participate in these workshops. The workshops will be in the field and hands-on regarding the development and monitoring of nutrient management and pest management practices and the resulting benefits to the environment and economic benefits to the farmers. In order to implement this project WSWCD staff will work closely with the locally lead Brushy Creek Watershed Advisory Group, NRCS, ISU Extension, Webster County Conservation, and Pheasants Forever. As a result of this project, slide presentations will be conducted for local groups such as Farm Bureau, Rotary Clubs, Pheasants Forever, Friends of Brushy Lake, ICCA Ag Programs, and others by request.

Project budget
(specific elements the
grant would fund and
dollar amount applying
to each):

2 Newsletters \$ 1,000.00 Conservation Signs (5) with partner logos \$500.00
Meeting Materials info. & Ed \$500.00 Nutrient Test \$ 500.00 \$

Other contributions
(including goods,
additional grants,
estimated value of
volunteer services
and other in-kind
donations):

Who	What	Where	When	Why	How much
SWCD	Staff	Brushy Creek Watershed	10/1/04 to 9/30/05		\$ 1,000.00
Extension	Staff	Brushy Creek Watershed	10/1/04 to 9/30/05		\$ 500.00
NRCS	Staff	Brushy Creek Watershed	10/1/04 to 9/30/05		\$ 500.00
WCCB	Staff & Volunteers	Brushy Creek Watershed	10/1/04 to 9/30/05		\$ 500.00
Pheasants Forever	Funds		Pending		\$ 1,000.00

Total contributions (excluding Challenge Grant): \$3,500.00 Contact signature: [Signature] Date: July 12, 2004

The Iowa Farm Bureau Nonpoint Source Pollution & Education County Grant Program calls for people and organizations to work together. Program guidelines are flexible to encourage creativity and designed to foster participation by both Farm Bureau members and other citizens.

**Look inside for
all the details**

Prioritization Criteria for County Grant Program Selection

- Degree of innovation to project area.
- Potential for continuation/spin-off.
- Potential for attracting local sources of support.
- Relationship to priority NPS information and education needs.
- Strength of NPS information and education component.
- Target audience.
- Cost effectiveness.
- Quality and appropriateness of evaluation methods.



For more information, contact:
Rick Robinson, Iowa Farm Bureau
Director, Environmental Affairs
5400 University Avenue
West Des Moines, IA 50266
515-225-5432
515-225-5419 (fax)
rrobinson@iowafarmbureau.org
www.ifbf.org

Nonpoint Source Pollution Information & Education County Grant Program

A program designed to seek out and support innovative, local, citizen-initiated projects that provide materials and programs to persons about nonpoint source pollution.

Brought to you by:



IOWA FARM BUREAU

Nonpoint Source Pollution Information & Education County Grant Program



Nonpoint source pollution (NPS) comes from many sources and is harder to control than point source pollution. NPS pollution may include excess farm and lawn nutrients, uncontrolled stormwater runoff from construction sites, forestry operations and animal manure. From farmlands to suburban lawns, people use land in ways that can cause nonpoint source pollution.

You are invited to apply for one of five \$2,500 grants from the Iowa Farm Bureau Nonpoint Source Pollution Information & Education County Grant Program. The deadline for application is Sept. 7, 2004.

Goals & Objectives

The goals and objectives of the program are: to identify and support innovative, locally responsive, citizen-initiated projects that inform and educate farmers and citizens about the causes of and potential solutions to agricultural and urban nonpoint source (NPS) pollution; to promote voluntary, proactive approaches to NPS pollution challenges; and to facilitate the development of local watershed partnerships.

Program Scope

County Farm Bureaus and other organizations can submit applications for one- or two-year local NPS pollution information and education projects. Five grants are limited to \$2,500 each.

Project Participants

County Farm Bureaus are encouraged to work with other local organizations, such as commodity groups, agribusiness, civic groups, and environmental, conservation and wildlife groups. These groups may also approach a county Farm Bureau and seek its support for a project.

Description of NPS Problems

NPS problems that may be addressed by applicants include sediments from farm fields and construction sites, farm and urban fertilizer and pesticide runoff, and proper farm manure handling and storage techniques.

Example activities might include:

- Water quality monitoring/TMDL efforts
- Development of brochures, reports or videos
- Promotion of BMPs
- Development and/or use of classroom curricula
- Development of education/information activities that support watershed partnerships
- Use of Farm*A*Syst materials

Eligibility

County Farm Bureaus and other organizations are eligible to receive county grant funds and are invited to submit competitive grant proposals. County Farm Bureaus must have an identified role in the proposal.

Proposals

Proposals from county Farm Bureaus and other organizations should include a standard application format with narrative (included in the Application Checklist). Narratives should be concisely written in no more than four pages. Five \$2,500 grants will be distributed to successful applicants as reimbursements for expenditures outlined in their approved work plan.

TUE
Sept.
7

The deadline for county grant award applications is

Sept. 7, 2004

Announcement and notification of successful award applicants should be completed by

Oct. 1, 2004

For an "Application Checklist" call 515-225-5432, send an e-mail request to robinson@ifbf.org or visit Iowa Farm Bureau online at www.iowafarmbureau.com

Iowa Special Project Proposal

Project Title: Brushy Creek Watershed Project
Group Submitting Application: Webster County SWCD
Contact Person: Douglas Seltz, Chair WCSWCD & Christine Taliga, NRCS
1200 ½ 3rd Ave NW
Webster County, IA 50501
Signature 
Tel. 515.573.4411
Fax. 515.573.5539
chris.taliga@ia.usda.gov
Date 5/20/04

Part I. Project Executive Summary:

Description of natural resource problem:

The Brushy Creek Watershed is located in the northeastern part of Webster County. The watershed is situated between Webster City and Fort Dodge, with the communities of Vincent and Duncombe located within the watershed. Brushy lake is located fifteen miles driving distance from Fort Dodge and Webster City. The Brushy Creek Recreational Area comprises approximately 3% of the watershed and serves an 11-county area within a 50-mile driving radius. The lake has a surface area of 690 acres and drains 57,000 acres.

Brushy Creek Lake is a relatively new state-owned lake, the construction of which was completed in 1998. The 690 acre lake was specifically created to address a shortage of recreational and fishing opportunities in this area. The 57,000 acre lake watershed is compromised mostly of level and intensively farmed cropland. It is currently considered one of the cleanest lakes in Iowa primarily because of its recent construction. Sediment and the associated nutrients and pesticides have not had time to build up in the storage area of the lake. Given the size of the watershed, long-term consideration needs to be given to sediment and nutrient delivery and the inevitable problems associated with such a large watershed to lake ratio.

As noted, the watershed is comprised almost entirely of cropland (87%). While relatively flat, the area is also extensively drained which creates the possibility of accelerated delivery of water borne contaminants. Nitrates and Phosphorous are especially a concern in most north central Iowa watersheds and there is no reason to believe that Brushy Creek is an exception.

The other major area of concern is the presence of 6 state identified animal feeding operations (AFOs) in the watershed, some within 2-3 miles of the lake. In this area of Iowa, the future addition of more units is always a possibility. The location of these facilities coupled with extensive subsurface drainage systems throughout the area creates a real likelihood of potential contamination of the lake from nutrients, pesticides, fecal matter, or a combination of all three. Agricultural manufacturing may also pose a potential risk to the watershed. An anhydrous ammonia manufacturing plant centrally located in the watershed may pose a direct threat to the lake in the event of an accident.

Given the purpose of the lake, the above-mentioned contamination could be both environmentally and economically devastating to the surrounding area. According to the Iowa DNR, Brushy Creek logs over 521,800 visitors a year with daily spending estimated to be \$13 per person for a total estimated annual expenditure of six million dollars. Using a conservative multiplier of 3 for economic impact, the economic impact of the recreation area is estimated at 18 million dollars. A manure spill or increases in nutrients by some other accidental means could cause both short and long term disruptions of fishing, swimming or boating which would reduce or eliminate the positive economic benefits noted above.

Brushy Creek Lake is not listed in the 303(d) list for the State of Iowa and the main objective of this watershed protection project will be to implement critical conservation practices as a precautionary measure to ensure Brushy Lake will remain off this list in the future.

Description of Proposed Project Activities, Schedule, Best Management Practices, and Budget

We are requesting funds for a three-year time period. Listed below are some of the major project activities we will accomplish during the project:

- Establish a Watershed Advisory Board consisting of local DNR staff, residents, landowners, conservation groups, local business, and representative from the local SWCD, etc.
- Implement an information and education program (including field days, informational meetings, educational programs, and signs that feature the watershed and demonstration sites, etc.).
- Establish demonstration sites on agricultural and industrial land within the watershed to feature best management practices.
- Provide cost-share incentives to assist with the cost of installing best management practices.
- Partner with extension and local businesses to establish demonstration sites that focus on proper nutrient and pest management for cropland and pastures.
- Partner with IDNR and Webster County conservation to establish demonstration sites that focus on invasive species control and woodland/oak savanna restoration techniques.
- Create a water quality monitoring program to be implemented by IOWATER trained volunteers.

As a component of the ongoing Watershed Development grant research a survey was sent to 350 landowners in the watershed soliciting input on perceived resource concerns and the need for implementing best management practices to date approximately 55 respondents

returned the survey to date expressing interest in implementing many of the following conservation practices. We anticipate the following quantities of best management practices will be installed over a period of three years:

Proposed Cost-Share Practices:

- 75% of all stream segments will have riparian buffers or filter strips installed, approximately 1,500 acres trapping sediments and reducing the delivery of nutrients to the lake.
- 21 wetlands targeted at priority areas such as sites adjacent to creeks, drainage ditches, and tile intakes, controlling 2,000 acres of associated sediments and nutrients
- 2-3 animal waste facilities
- 18 acres of targeted waterways, controlling approximately 2,000 acres of sediments and nutrients
- 18,000 acres of nutrient and pest management planned
- 6 grade stabilization structures, controlling approximately 1,200 acres of sediments and nutrients
- 6 water and sediment control basins, controlling approximately 1,200 acres of sediments and nutrients
- 18,000 acres of whole farm planning, promoting minimum till options, windbreaks, nutrient and pest management
- 75 acres of pasture management/rotational grazing
- 1000 feet of stream bank stabilization, resulting in preventing 19 tons sediment coming from stream bank erosion.
- 20 acres of tree and shrub plantings will help control wind erosion.
- 20 acres of conservation cover/vegetative demonstrations will target tile intake areas for maximum water quality benefit.
- 200 acres of Forest Stand Improvement utilizing invasive species eradication and prescribed burn implementation primarily for herbaceous under story restoration. This will increase water infiltration and reduce erosion over 200 acres.

Budget Information and Proposed Timeline:

The Koch nitrogen plant has indicated a willingness to seek matching funds for conservation systems implemented on the 200 acre plant land. Trees Forever has dedicated staff and approximately \$2,500.00 toward the implementation of conservation practices in the watershed. The Webster County Soil and Water Conservation District has pledged \$2,500.00 for staffing needs and supplies. Pheasants Forever has tentatively pledged \$3,000 toward wildlife habitat buffers. Partners will also help develop and enact educational programs. The local county work group task force, in charge of prioritizing federal program cost-share funds such as EQIP, WHIP, has already designated the Brushy Creek watershed area as a priority area, with a minimum of 50% cost-share funds covered for most of the conservation practices designated above, therefore Water Protection Funds (WPF) cost-share dollars could be utilized to add to these federal dollars to provide 75% to 85% cost-share incentives for most of these practices. CREP and CRP will also be utilized to the maximum extent possible to implement the conservation systems denoted above. The Iowa DNR private lands biologist has also indicated that he would be willing to help solicit contributions from local groups, such as Friends of Brushy Creek, to help match installation costs of some of the conservation practices. Webster County Conservation and Iowa State Extension service will also help develop and enact educational programs. We have requested 319 and WPF funds for staffing, travel and training budget for the project coordinator, information and education activities, and cost-share incentives to work in the upstream areas that drain into the lake.

Project Costs and Potential Funding Sources:

Type of Funding	Project Funding			
	Year 1	Year 2	Year 3	TOTAL
WPF/319 (c/s and staff support	\$80,661	\$83,465	\$91,627	\$ 255,753
EQIP (313, 410, 638, 584, 590&595)	\$188,375	\$168,375	\$177,625	\$ 534,375
EQIP Education	\$ 2,000	\$ 2,000		\$ 4,000
WHIP (666, 612, 327, 338, 644, 657)	\$6,900	\$6,900	\$13,800	\$ 27,600
WSWCD	\$1,800	\$	\$ 700	\$ 2,500
WCC	\$2000	\$2000	\$2000	\$ 6,000
Trees Forever	\$1,000	\$ 500	\$1,000	\$ 2,500
CRP	\$44,100	\$44,100	\$44,100	\$ 132,300
Webster County Pheasants Forever	\$ 1,000	\$ 1,000	\$ 1,000	\$ 3,000
Koch Nitrogen Plant	?	?	?	\$
Totals				\$ 368,028

Part II. Nine Resource Assessment Factors

Questions 1, 6 & 7. Participating Agencies and Organizations Spearheading the Project and Potential Funding Sources:

The Webster County Soil and Water Conservation District will have the responsibility for overall administration of the Brushy Creek Watershed Project. We have applied for a combination of Environmental Protection Agency's Section 319 and the Iowa Division of Soil Conservation's Water Protection Funds to help implement the project.

Significant contributions of time, labor, supplies, and equipment will be made by supporters from the local agencies, landowners, and businesses in the private sector. The Webster County Conservation has pledged \$6000 of in-kind contributions including staffing, supplies, and materials to establish test-plots with watershed producers and to help conduct 6 field days. The Webster County Conservation and Extension Service, and DNR Private Lands Biologist and Forester have agreed to assist with six educational programs for residents in the watershed.

DNR staff area has indicated a willingness to help promote the application of conservation tillage practices and nutrient and pest management practices on the approximately 1,200 acres of state-owned cropland within the watershed.

We will partner with Karen Hansen, Naturalist with Webster County Conservation and two schools to conduct water quality monitoring in the watershed. Karen Hansen has undergone training through IOWATER and will work with volunteers to collect samples and participate in public presentation of the data.

Trees Forever has committed staff and financial assistance of approximately \$2,500.00 to work with local stakeholders of a sub watershed of the Brushy Creek Lake to address water quality concerns. Through this effort the District will kick off the process of addressing the water quality concerns of the entire 57,000 acre watershed. Webster County Pheasants Forever has tentatively pledged \$1,000.00 per year of the project to help promote wildlife habitat buffers in the watershed.

The USDA Natural Resources Conservation Service will contribute office space, vehicles, equipment, informational material, and technical staff support. The Webster County Soil and Water Conservation District (WCSWCD) will contribute time, equipment, technical staff support, informational materials, and other funds to the project. The WCSWCD will also contribute \$2,500.00 towards the purchase educational materials and signage which will be used to more effectively communicate watershed management and education.

The following additional partners have also indicated a willingness assist with the implementation of the project:

Lanny Miller, IDNR Fisheries Biologist, Prairie Rivers RC&D, City of Duncombe, City of Vincent, Friends of Brushy Creek, Webster County Engineer, Webster County Board of Supervisors, Webster County Farm Service Agency, Hamilton County Soil and Water Conservation District, The Nature Conservancy, The Natural Heritage Foundation, Mike Suzik, Natural Resources Conservation Service, State Soil Scientist, and Ducks Unlimited.

With Brushy Creek Watershed as a Special Project designation we will propose an allocation of EQIP and WHIP funds as indicated above in Project Costs and Potential Funding Sources.

2. Resource Assessment Data:

As a result of the Brushy Creek Watershed Development grant efforts currently underway, district field staff has gathered field data in the winter of 2003 to assess tillage practices in the watershed. A sheet and rill erosion model predicted approximately 16,194 tons of sediment load delivered into the lake annually. The tillage survey conducted may not have accurately reflected the soil erosion rates, as residue levels after planting crops in the spring of 2004 may have been significantly lower than estimated for the purpose of this model. In the spring of 2004, intensive tillage practices were noted in the watershed and especially during periods of high winds as was exemplified by severe wind erosion noted this spring during two particular strong wind storms in April and May (see attached photo, page 2). Wind blown sediment may have the potential to also impact the sediment load the lake receives. Muck and Harps soils tend to be susceptible to wind erosion and approximately 6% of the watershed is compromised of these types of soils. Wind erosion, as may be seen in the referenced photo, may be a factor contributing to the overall sediment delivery of the lake, not included in the sediment delivery model. Also, wind erosion is a factor not considered in the RUSLE soil loss equation for Iowa. As a result of the combined factors of higher residue levels predicted during the tillage survey and the wind erosion potential, the attached Sheet and Rill erosion prediction model of an average of 1 ton/acre/year of soil loss may be a low prediction. A previous watershed analysis completed as part of a feasibility study conducted by Brice, Petrides Donohue Co. in 1988 estimated the average annual soil loss at 4 tons/acre/year.

Livestock information for Brushy Creek Lake Watershed:

As a result of the research conducted as a part of the Brushy Creek development grant 48 landowners with livestock were identified in the watershed. Hogs and Cattle comprise the 19 of the livestock operations in the watershed, 1 sheep operation, and 11 landowners with 5 or more horses, and one landowner with Lamas. The remainder of the landowners own recreational horses.

According to the Iowa Department of Natural Resources, there are six permitted livestock facilities in the watershed. To date these operations currently do not appear to be adversely impacting the lake. The planned wetland restoration projects will be targeted to be strategically placed within the watershed as potential mitigation measures in the event a manure spill would occur.

Soils

About 2% of the acres (1,120) in the watershed are highly erodible. The distribution of hydric soils in the Des Moines Lobe Surface in the Brushy Creek watershed indicate that nearly three-fourths of the upland areas (approximately 38,000) consist of hydric soils. Hydric soils are also located along flood terraces and tributary valleys of Brushy Creek and include wooded and emergent types (approximately 3%). The predominant soil associations are Storden-Hayden-Wadena and Webster-Clarion-Nicollet. These soil associations comprise 100% of the soils within the watershed and represent the nearly level to gently sloping soils formed in uplands on glacial till and gently sloping to very steep soils of the Brushy Creek valley.

3. Current Activities in the Watershed:

Another major effort to determine pollution loading for this watershed will be working with Webster County Conservation and IOWATER to develop a water monitoring program. Webster County Conservation is currently in the process of working with the Webster County SWCD to begin the implementation of such a program in the watershed. The District is also working closely with the Webster County Sanitarian to identify improperly functioning household septic systems in the watershed, educational outreach efforts are planned to identify such households in the watershed. The District is also currently in the process of utilizing the Gully Erosion Prediction model to calculate sediment loading from gully erosion in the watershed.

4 & 5. Natural Resources Conservation Plan & Identified Resource Concerns:

As a result of an advisory board meeting the locally identified priority resource concerns to be treated for the watershed are surface and ground water quality, related to excess sediment and nutrients, soil erosion related to ephemeral, sheet, and classic gully erosion, plant condition in pastureland, and inadequate stock water and waste storage for domestic animals. The first goal will be to develop an area-wide conservation plan, the second goal will be to promote ongoing education program with landowners, homeowners, developers, engineering firms on the planning, design, and implementation of best management practice systems and sound land use planning to reduce erosion and non-point source runoff in order to improve water quality. The third goal will be to administer and implement all activities and objectives in the project. The fourth goal will be to provide technical assistance to the above groups. The fifth goal will be to evaluate and measure the success of the project.

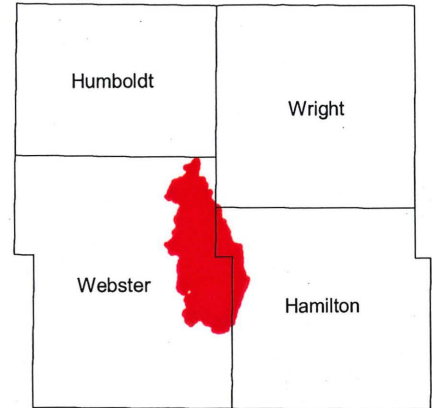
Listed below are some of the objectives of the project:

- Create a project brochure highlighting the watershed and discussing water quality needs and solutions.
- Promote the implementation of best management practices through information and education programs.
- Establish and work with demonstration sites to provide training on the planning, design, and implementation of best management practice systems and sound land use planning to improve water quality. Prominently promote BMP's with signage.
- Provide technical assistance on the planning, design, and implementation of best management practice systems and sound land use planning to improve water quality.
- Establish water quality monitoring program to be implemented by IOWATER trained volunteers.
- Measure and evaluate the success of the project through information and education activities, participation of the public, and installation of best management practices.
- Utilize GIS and GPS technologies to identify practice locations and load reductions.

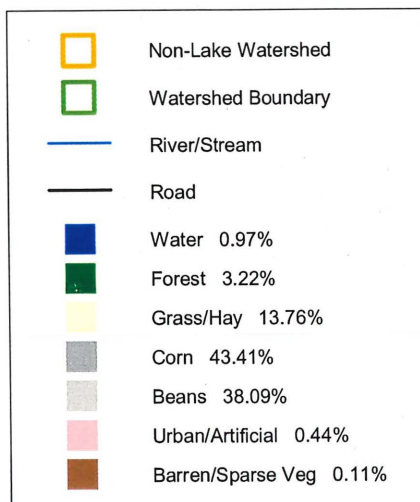
8 & 9. Likelihood of Success and Evaluation Mechanisms:

As a component of the ongoing Watershed Development grant research a survey was sent to 350 landowners in the watershed soliciting input on perceived resource concerns and the need for implementing best management practices, to date, approximately 55 respondents returned the survey to date expressing interest in implementing many of the conservation practices planned for the watershed. A recently published newsletter highlighting the proposed Brushy Creek project has also resulted in nine EQIP applications within the watershed. The combination of landowner interest and project partners will greatly contribute to the success of the planned watershed efforts. We will be able to measure our success by the number of people, municipalities, organizations, and others who participate in the project and by the number and amounts of best management practices that are installed. We will account for environmental performance with the goal to reduce the sediment loads into the lake to 8,000 tons/acre annually. The implementation of BMP's and resulting sediment reductions will be utilized to account for load reductions. Before, during, and after photos will be taken to visually document watershed improvements. Another method of evaluation will be through the completion of quarterly and annual project reports and reviews. The reports into NRCS's PRS tracking system will also be a helpful evaluation tool as we proceed with activities throughout the year. We will utilize GIS to identify load reductions and practice locations utilizing GPS and GIS technologies.

Brushy Creek Lake Watershed 2000 Land Cover



1 0 1 2 Miles



Projection: UTM, Zone 15
Datum: NAD 1983
Units: Meters





FAX MESSAGE FROM THE PRIVATE LANDS PROGRAM

To: Chris Taliga Date: 5/13 Pages 2

From:

Bryan Hellyer - Private Lands Biologist

Biologist Office:

605 E. State Street
Suite 3
Algona, Iowa 50511
Office - (515) 295-6073
Cell- (712) 330-2563
Fax Number - 515-295-9059

COMMENTS:

FYI

**STATE OF IOWA**

THOMAS J. VILSACK, GOVERNOR
SALLY J. PEDERSON, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
JEFFREY R. VONK, DIRECTOR

Bryan Hellyer – Iowa DNR
Private Lands Biologist
605 E. State Street – Suite 3
Algona, Iowa 50511

May 13, 2004

Dear Webster County Soil and Water Conservation District:

As a Private Lands Biologist for the Iowa Department of Natural Resources (IDNR) I commit to and strongly endorse the Brushy Creek Watershed water quality project application for EPA Section 319/Iowa Water Protection Funding. The IDNR manages and maintains the Brushy Creek State Recreational Area, which consists of 6,500 acres; which includes lake and stream fishing, camping, horseback riding, hunting, and numerous other recreational opportunities for all Iowan's to enjoy.

This proactive approach to conservation is not only necessary to protect the 690 acre lake constructed in 1998, but also for the thousands of recreational users that utilize this magnificent resource every year. The IDNR believes it is imperative that we preserve the long-term economic and environmental resources of the 57,000-acre watershed area that enters Brushy Creek State Recreational Area. Promoting and implementing conservation practices within this watershed will protect the investment the citizens of Iowa have undertaken and protect soil, water, and natural resources for the area. As a Private Lands Biologist for the IDNR, I strongly support your efforts to solicit funds to ensure the protection of the Brushy Creek Watershed.

On behalf of the IDNR I urge the state to fund this water quality protection project. The IDNR Wildlife Bureau's Private Lands Staff for this area will be committed to participate in this effort and plan to be represented on the Brushy Creek advisory board. With the planned information/education activities, water quality monitoring, and conservation practice implementation the Webster County Soil and Water Conservation District is poised to provide the interface with our local landowners and further results orientated conservation on the land.

The IDNR commends your efforts in soliciting additional partners and resources for this watershed initiative; feel free to contact my office at 515-295-6073 for any additional assistance with this matter.

Sincerely,

Bryan Hellyer
Iowa Department of Natural Resources

Webster County Conservation

**1415 Nelson Ave
Fort Dodge, Iowa 50501-8525
(515) 576-4258
FAX (515) 574-3763**

May 13, 2004

Dear Webster County Soil and Water Conservation District:

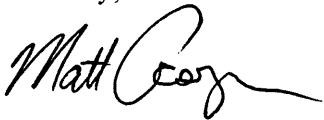
The Webster County Conservation Board is committed to and strongly endorses the Brushy Creek Watershed water quality project application for EPA Section 319/Iowa Water Protection Funding. This proactive approach to conservation is necessary to preserve the long-term economic and environmental resources of the 57,000 acre watershed area. Promoting and implementing conservation practices within this watershed will protect the investment the state has undertaken and protect the soil, water, and natural resources for the area. We strongly support your efforts to solicit funds to ensure the protection of Brushy Lake.

Webster County Conservation urges the state to fund this water quality protection project. We are committed to participate in this effort and plan to be represented on the Brushy Creek advisory board. With the planned information/education activities, water quality monitoring, and conservation practice implementation the Webster County Soil and Water Conservation District is poised to provide the interface with our local landowners and further results oriented conservation on the land.

The Conservation Board feels so strongly about the benefits of this project that we are willing to offer time for our staff to participate in the project through test plots for water monitoring and informational field days for landowners within the watershed. In addition, we would also offer approximately \$6,000.00 dollars in research, labor, equipment and materials to support this venture.

We commend your efforts in soliciting additional partners and resources for this watershed initiative; feel free to contact our office at (515) 576-4258 for any additional assistance with this matter.

Sincerely,



Matt Cosgrove
Director
Webster County Conservation

WEBSTER COUNTY SOIL AND WATER CONSERVATION DISTRICT

1200 ½ 3rd Avenue NW
Fort Dodge, Iowa (515) 573-4411

TO: William A. Ehm, Director; Division of Soil Conservation

FROM: Doug Seltz, Chair; Webster County Soil and Water Conservation District
Contact Person: Christine Taliga, Webster County District Conservationist

RE: Brushy Creek Watershed Protection Development Grant

Project Area and Partners: Brushy Creek Lake is a relatively new state-owned lake completed in 1998. The 690 acre lake was created specifically for fishing and recreation. The watershed is approximately 57,000 acres in size; with the land use comprised largely of relatively level and intensively farmed cropland. It is currently considered one of the cleanest lakes in Iowa primarily because of its recent construction. Sediment and the associated nutrients and pesticides have not had time to build up in the storage area of the lake. Given the size of the watershed, long-term consideration needs to be given to sediment and nutrient delivery and the inevitable problems associated with such a large watershed to lake ratio.

As noted in the description, and evident on the attached map, the watershed is almost all cropland. While relatively flat, the area is also extensively drained which creates the possibility of accelerated delivery of water borne contaminants. Nitrates and Phosphorous are especially a concern in most North Central Iowa watersheds and there is no reason to believe that Brushy Creek is an exception.

The other major area of concern is the presence of 6 state identified animal feeding operations (AFOs) in the watershed, some with in 2-3 miles, see map. In this area in Iowa, the future addition of more units is always a possibility. The location of these facilities coupled with extensive subsurface drainage systems throughout the area creates a real likelihood of potential contamination of the lake from nutrients, pesticides, fecal matter or a combination of all three. Agricultural manufacturing may also pose a potential risk to watershed. An anhydrous ammonia manufacturing plant centrally located in the watershed may pose a direct threat to the lake in the event of an accident.

Given the purpose of the lake, the above-mentioned contamination could be both environmentally and economically devastating to the surrounding area. According to the Iowa DNR, Brushy Creek logs over 11,000 visitor days a year with daily spending estimated to be \$25 for a total estimated annual expenditure of \$250,000. Using a conservative multiplier of 3 for economic impact, the economic impact of the recreation area is \$750,000. A manure spill or increases in nutrients by some other accidental means could cause both short and long term disruptions of fishing, swimming or boating which would reduce or eliminate the positive economic benefits noted above.

These potential problems will have ever increasing significance as Brushy Creek becomes more developed for recreation and the surrounding communities continue to build a secondary economy around the lake. For these reasons, a consortium of local groups including the Webster County Soil and Water Conservation District, Friends of Brushy Creek, economic development interests in Fort Dodge and Webster City, the local council of governments and the boards of supervisors are all engaged in expanding the recreational infrastructure of the Brushy Creek Area, have also expressed strong support for initiating protection efforts. From their perspective, a sizable and growing public and private investment is at risk. The major focus of these groups is to assess the real threats to the lake and for the development of prevention or rapid mitigation measures to minimize any adverse impacts on the lake. The IDNR Division of Conservation and Recreation also supports a strong local effort to protect water quality.

Methods and Objectives: The Webster SWCD is requesting a watershed-planning grant to assess these potential problems and to lay the basis for a protection project. Specifically, the SWCD will work with Prairie Rivers RC&D, IDNR, GSB, NRCS, and other partners to provide an overview of the watershed to include:

- The location of drainage district boundaries, tile locations and outlets.
- More detailed information on potential contamination sources in the County such as the Anhydrous Ammonia manufacturing plants and AFOs to include projections on amount of potential manures stored, distance to surface drains, time of concentration to reach the lake and likelihood of contamination.
- Identification of land application fields used by local AFOs and their proximity to the lake.
- Potential sediment yield and the location of areas of higher erosion rates close to the lake.
- Long-term accumulation of N&P will also be reviewed based on the rates of runoff for the large watershed contribution.
- Determine the threshold level of contamination that would result in significant impact to fish and water quality of the lake.
- Identify areas that may act as critical stopgap sites in the event of a spill.
- Location of habitat providing harbor for threatened and endangered plants and animals in the watershed.

It is expected that the planning grant will identify sub watersheds for traditional conservational treatment priorities as well the need for innovative practices and measures designed to prevent the less likely but more catastrophic events that could damage lake integrity. Given the ability to assess and address the risk for catastrophic events as outlined above, a targeted information and education program would also be an appropriate component of a project application. Specific I&E activities would be focused on contacting the potential sources of manures and chemicals, discussion of the potential risks and contingencies to prevent long-term damage to the lake. Ultimately the goal for this watershed project will be to maintain the current level of water quality and to protect a major environmental and economic state and local resource.

Revised - Estimated Budget and Timeline

8/03	Develop project advisory board from partner organizations	\$12.5/hr. @ 80 hrs. \$1,000
9/03 to 11/03	Develop base-layer GIS maps with DNR and Partners.	\$12.5/hr. @ 80 hrs. \$1,000
11/03 to 3/04	Identify and collect needed field data and evaluate watershed.	\$12.5/hr. @ 240 hrs. \$3,000
3/04 to 4/04	Complete a preliminary watershed assessment report detailing the findings of the analysis and recommendations for project actions	\$12.5/hr @ 160 hrs. \$2,000
4/04 to 6/04	Contact targeted landowners regarding findings and potential participation in protection project and incorporate into final report.	\$12.5/hr @ 120hrs. \$1,500
6/04	Complete final report and submit to DSC and partners	\$12.5/hr @ 120hrs. \$1,500
	Totals	\$ 12.5/hr. @ 800 hrs. \$ 10,000.00

In-kind contributions: It is expected that the DNR will provide technical assistance to estimate lake impacts, Webster County will provide drainage district data and the RC&D will provide support for watershed analysis and development of recommendations and final report. While these are important contributions we have not assigned a specific dollar value.

Reviewed and approved at the May 27th, 2003 Commissioner Meeting
Doug Seltz, Chairman _____



Natural Resources Conservation Service
1200 1/2 3rd Avenue NE
PO BOX 1017
FORT DODGE IA 50501-1017

Rec'd. 4/16/2004

4/13/04

Dear Brushy Creek Landowner:

The Webster County Soil and Water Conservation District in partnership with the Natural Resources Conservation Service is promoting conservation practices and incentives in the Brushy Creek Watershed area. We would like to include your feedback in our efforts to plan for the types of conservation practices you feel, are needed in your area. Please return this survey in the self-addressed stamped envelope.

Proposed Cost-Share Practices Please Check Any Practices You May Be Interested In Receiving Financial Incentives For:

- ☐ Animal Waste Storage Facilities
- ☒ Conservation Buffers along Creeks and Terrace Channels
- ☐ Grade Stabilization Structures
- ☐ Grassed Waterways
- ☒ Nutrient and Pest Management
- ☒ Whole Farm Conservation Planning
- ☐ Tree and Shrub Plantings
- ☐ Timber Stand Improvement
- ☐ Brush Management
- ☐ Prescribed Burn Management
- ☐ Wetland Restoration
- ☐ Stream bank stabilization
- ☐ Prescribed Grazing Incentives including Pasture and Hayland Planting
- ☐ Livestock Watering Ponds
- ☐ Please list any other conservation practices that may be needed for your operation and a contact name and telephone number if you want us to follow-up with you.

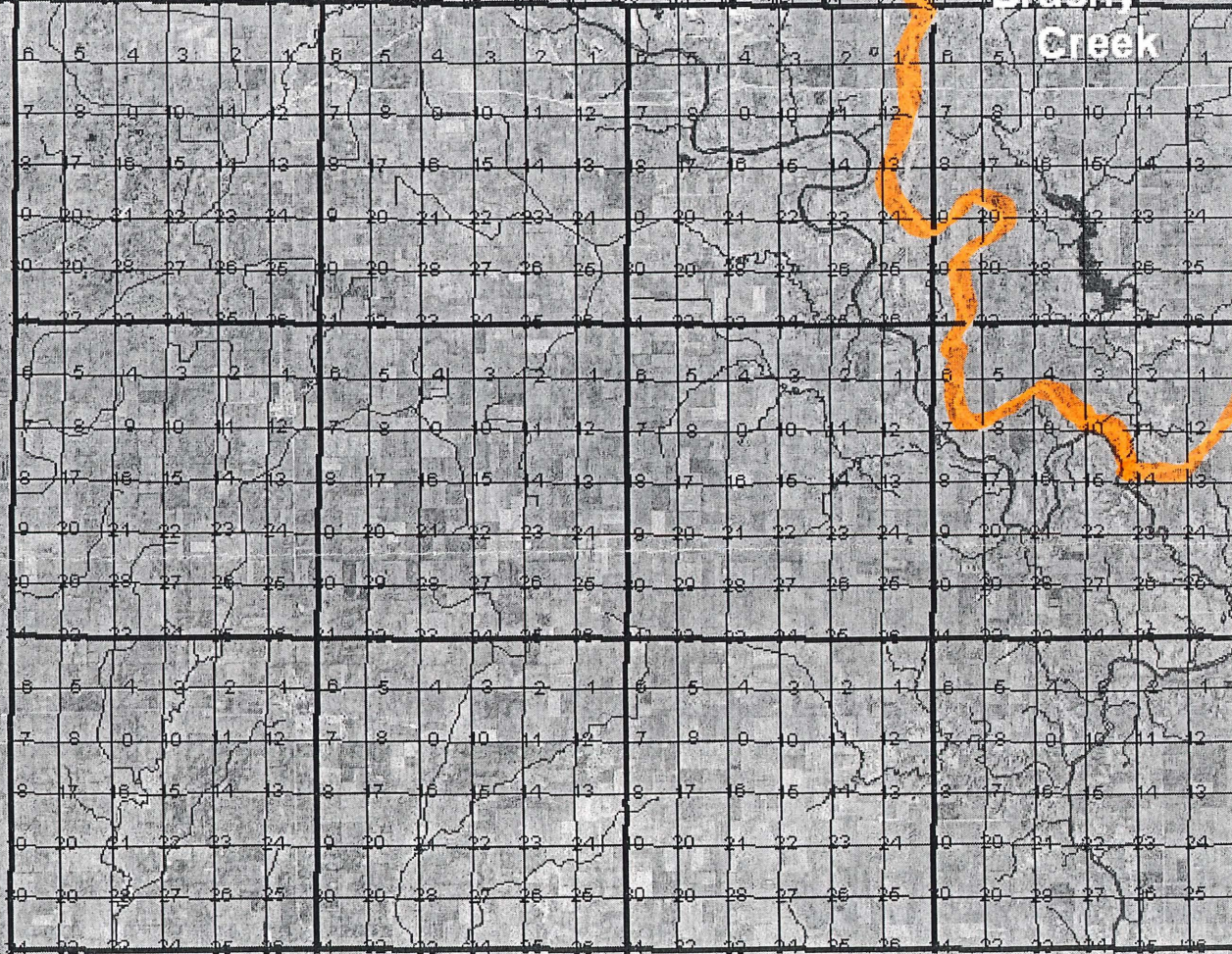
94-40- Sunderman Farm
R.E. Sunderman Farm Mgt. Co., agent - 20 North 12th Street
Brian D. Larson Fort Dodge, Iowa 50501
phone 515-576-3671

We are developing an Advisory Board for the Brushy Creek Watershed, our first meeting will be scheduled April 28th at 5:00 PM, if you are interested in attending please contact our office at 515-573-4411 and ask for TJ or Chris.

Thank you,
Christine Taliga, District Conservationist



Brushy
Creek





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1200 1/2 3rd Avenue NE
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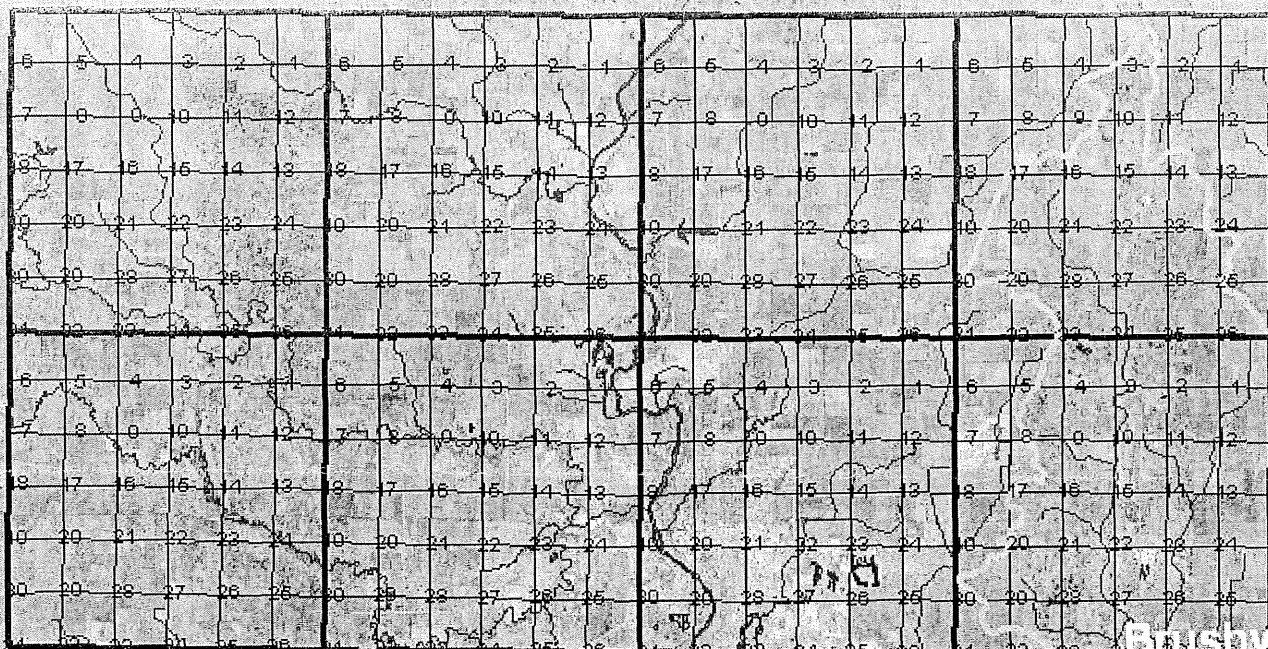
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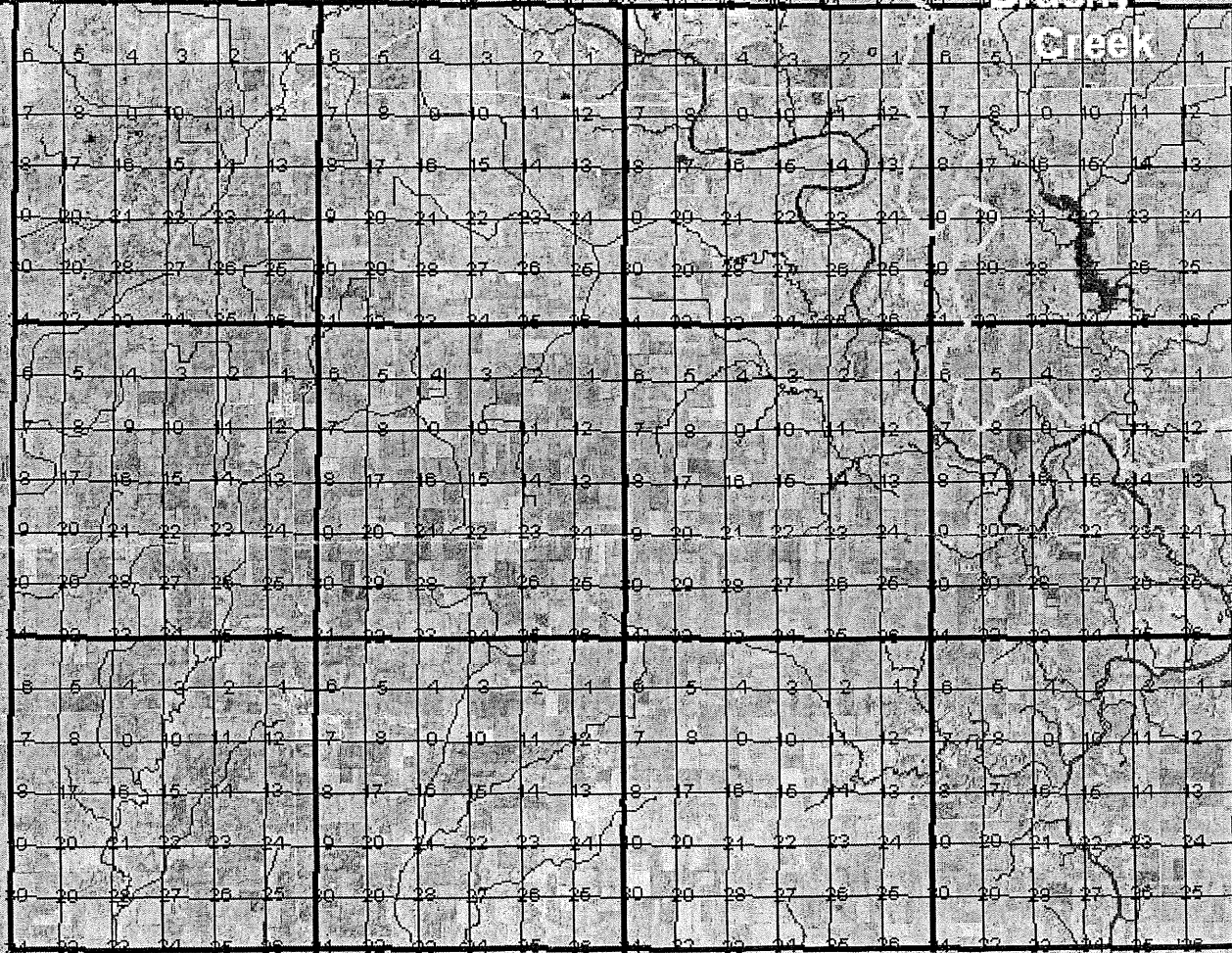
*We need to get grass started in a run-off area of
our farm in Cooper township, Section 10.
Call Roger Snell 543-8268 work at 4084 955-1770 -
(message only)*

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Thank you,
Christine Taliga, District Conservationist



Brushy
Creek





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1200 ½ 3rd Avenue NE
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4/13/04

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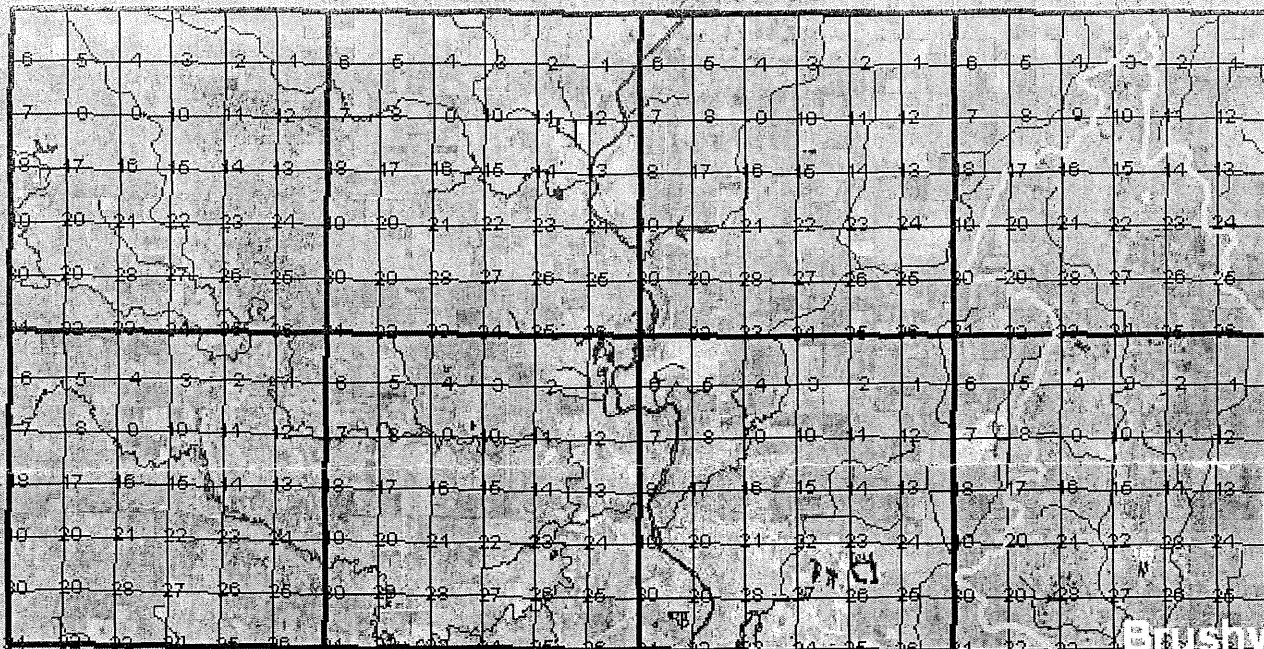
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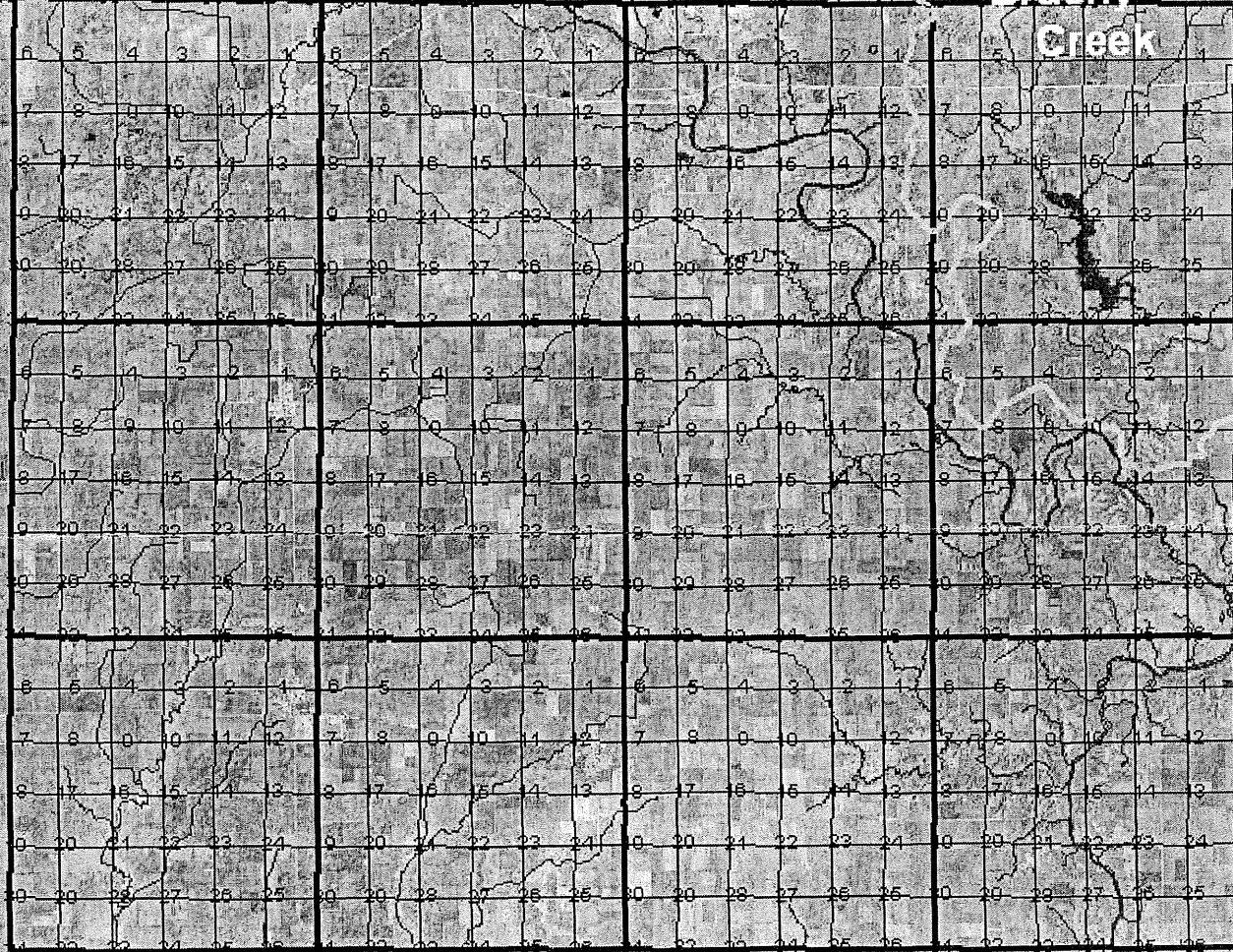
*Take the horses out of the North camp ground
manure has to be washed into the lake*

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Thank you,
Christine Taliga, District Conservationist



Brushy
Creek





Natural Resources Conservation Service
1200 1/2 3rd Avenue NE
PO BOX 1017
FORT DODGE IA 50501-1017

4/13/04

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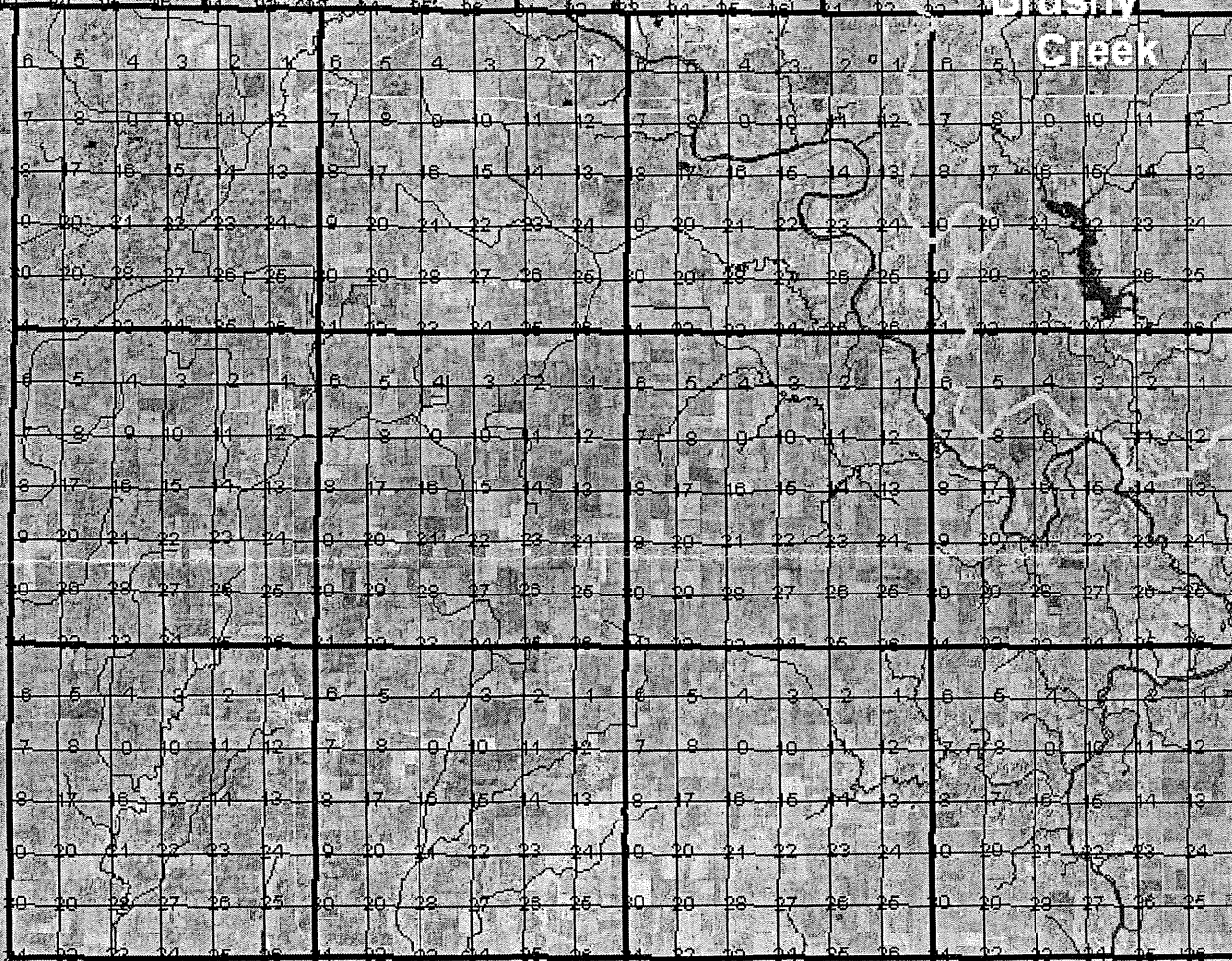
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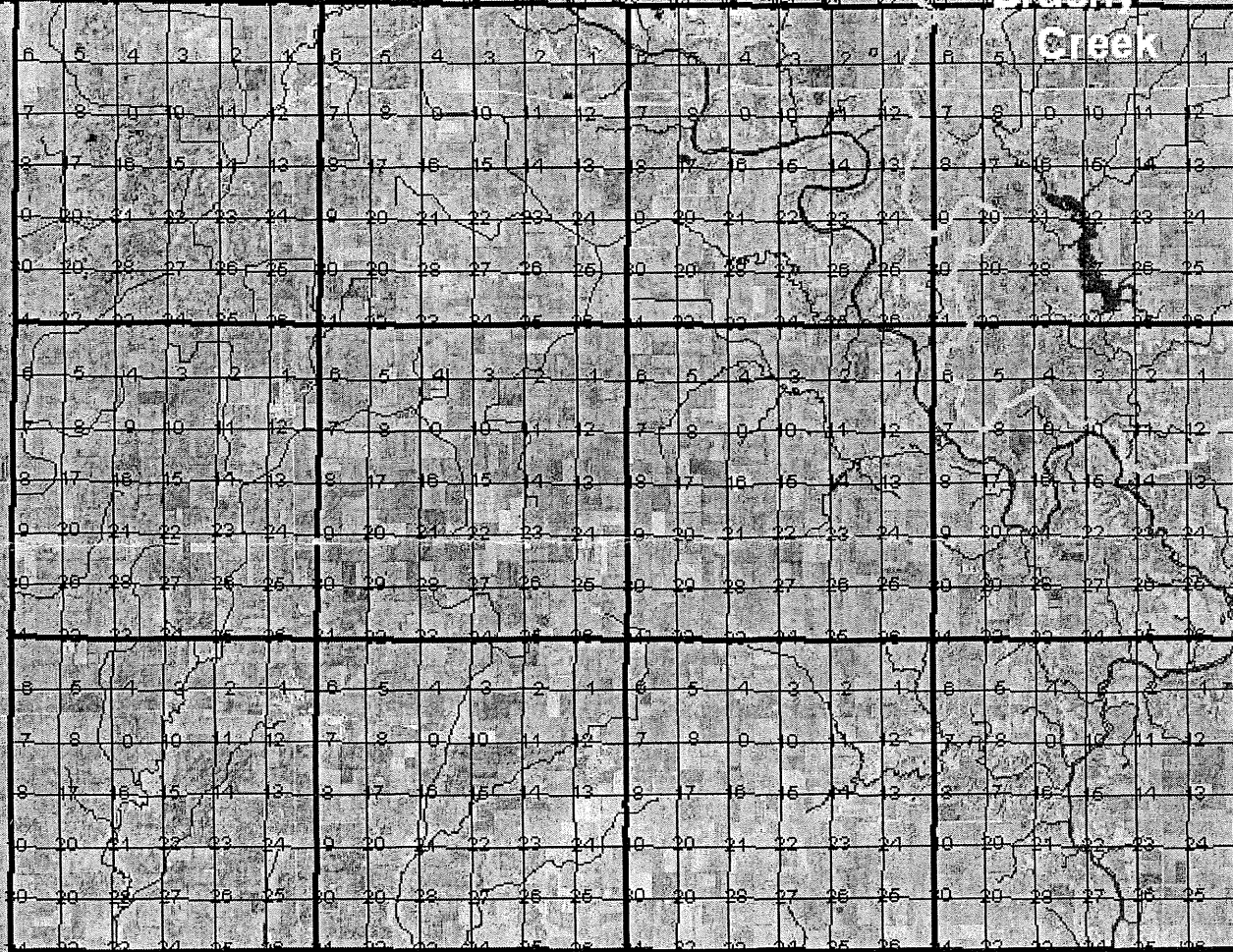
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Brushy
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1200 1/2 3rd Avenue NE
PO BOX 1017
FORT DODGE IA 50501-1017

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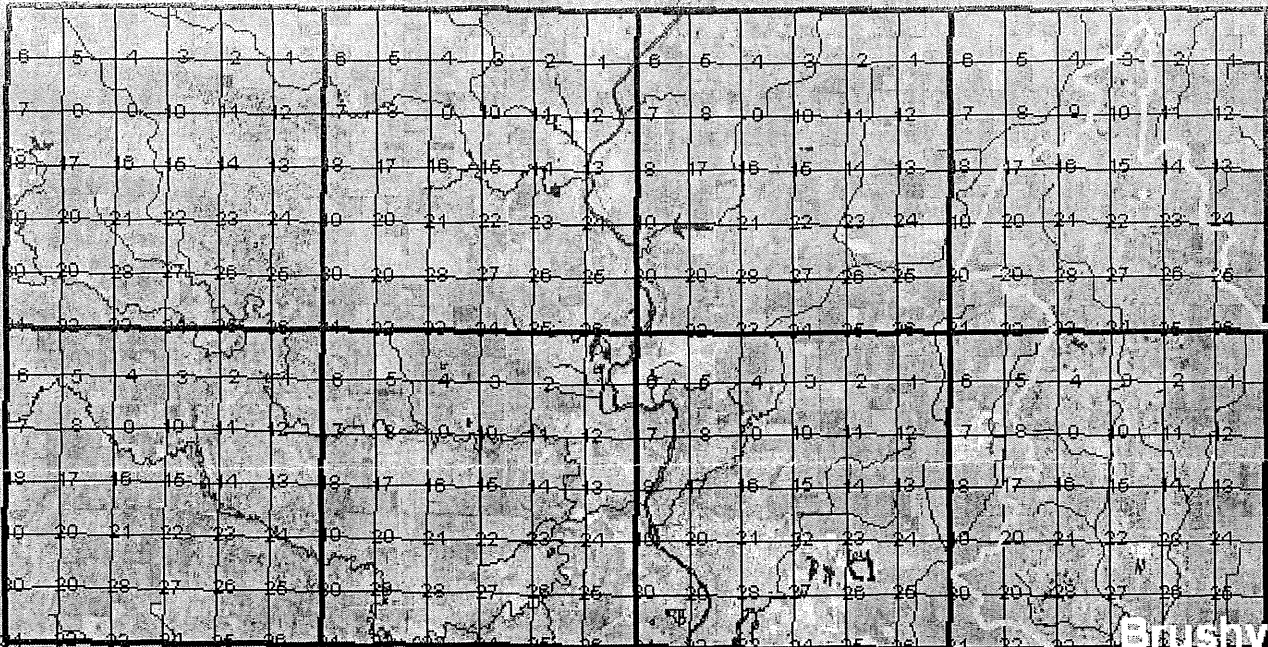
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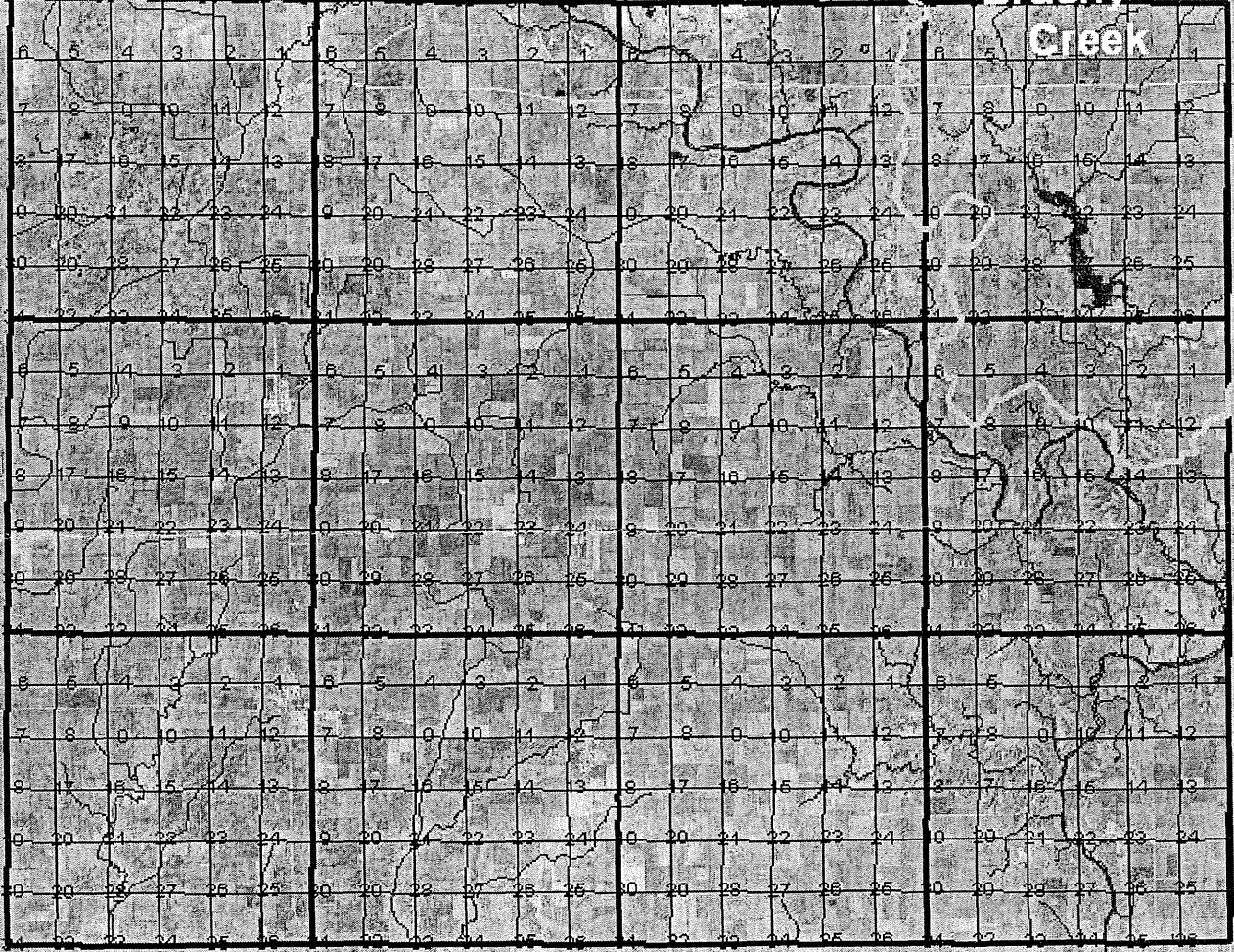
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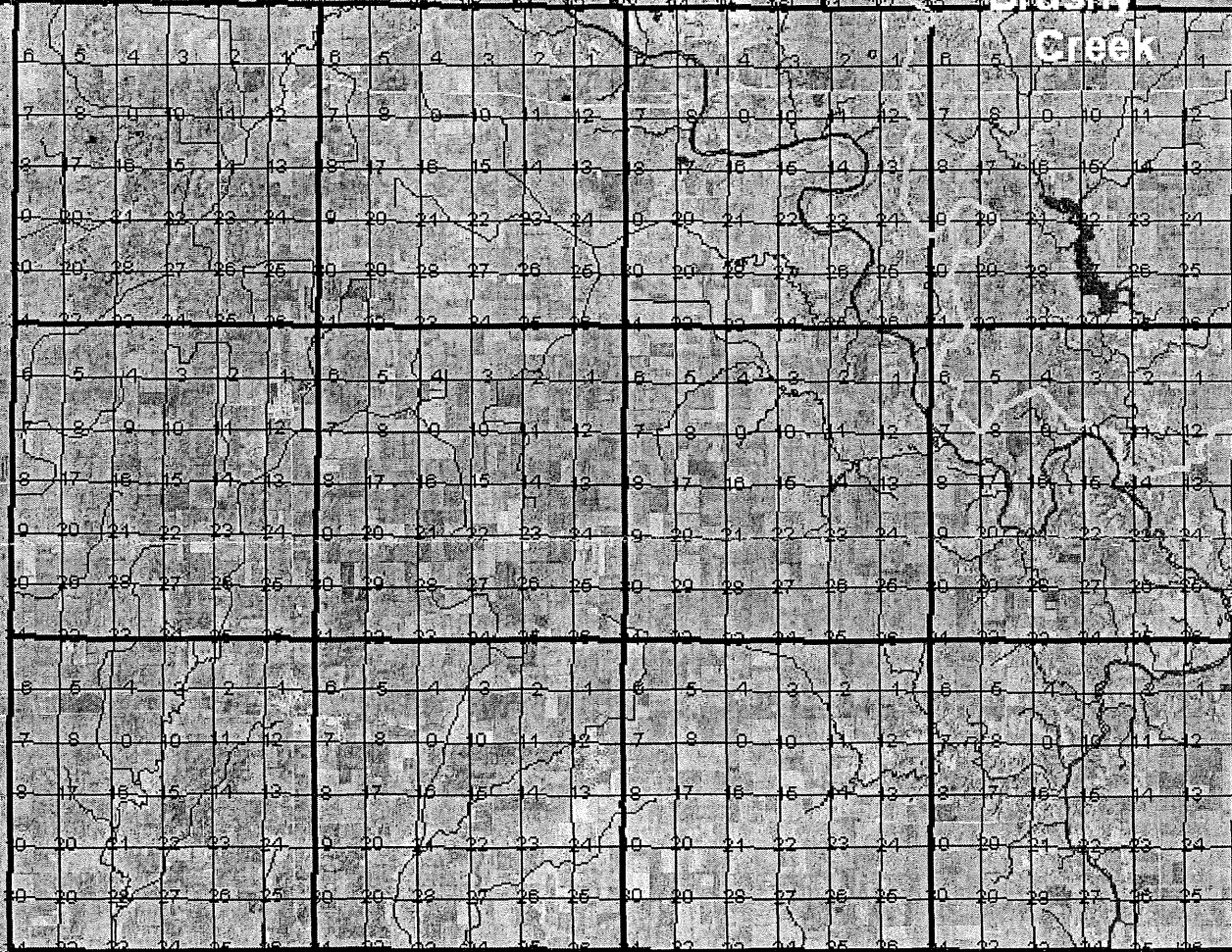
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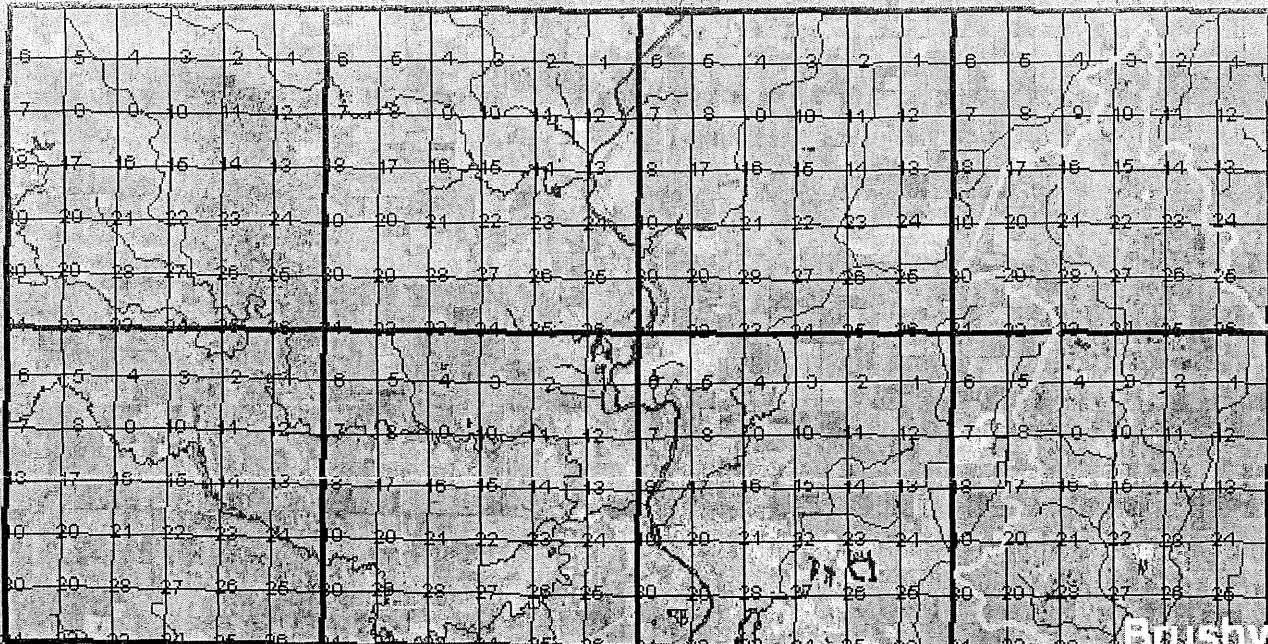
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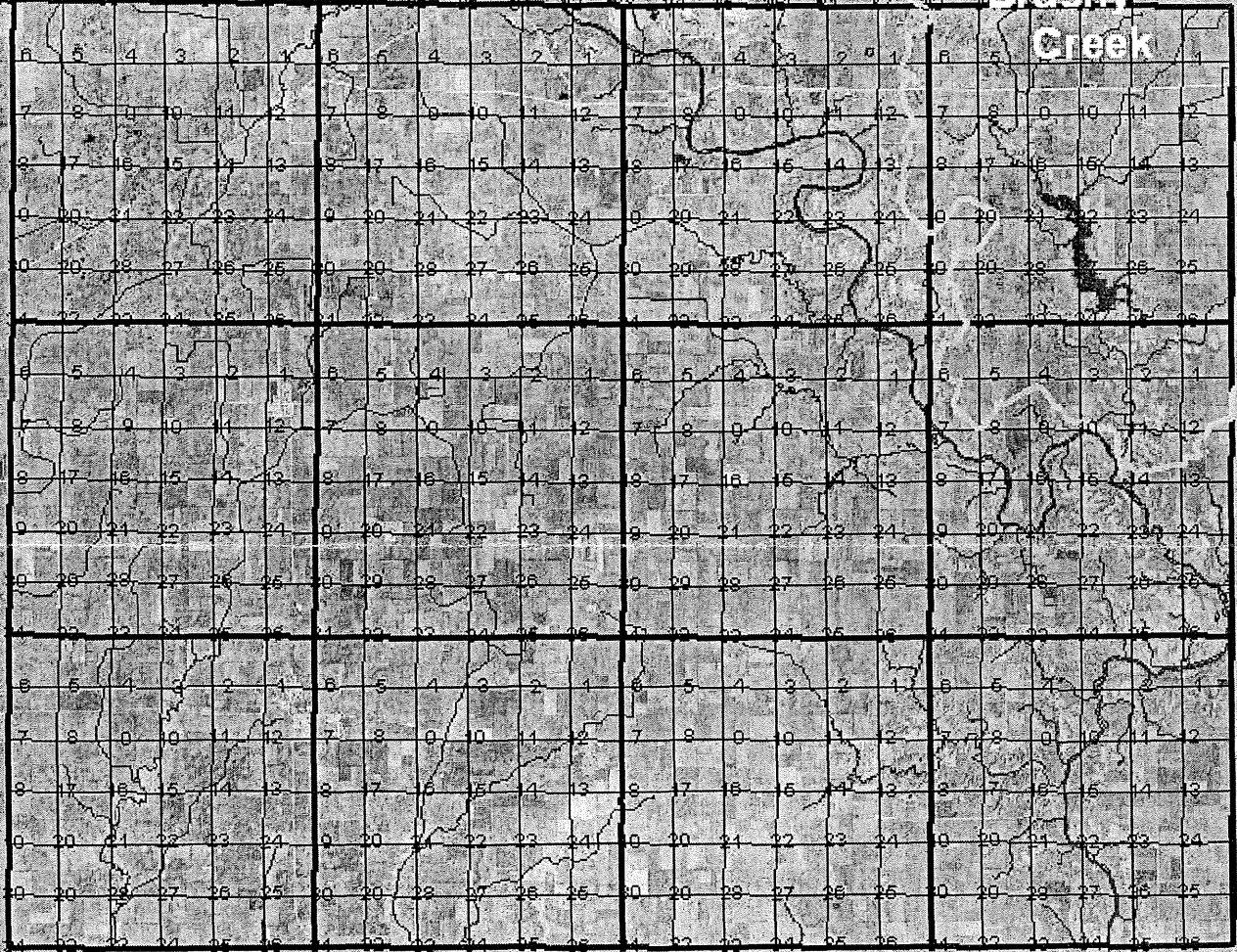
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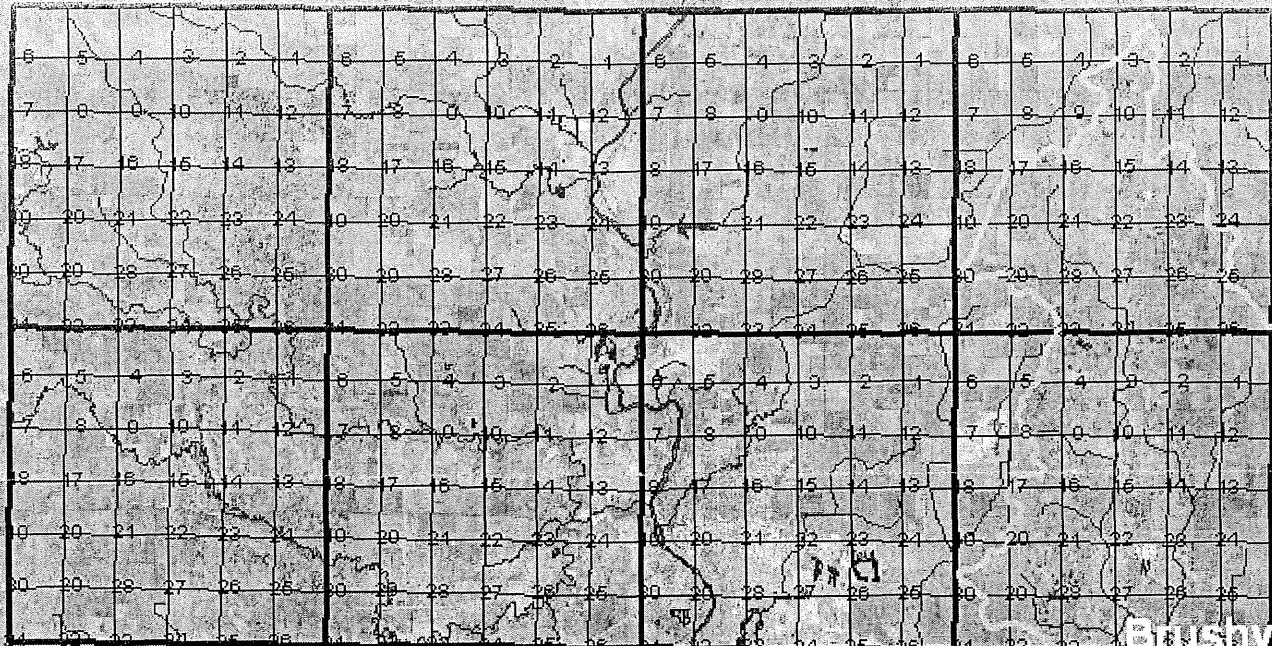
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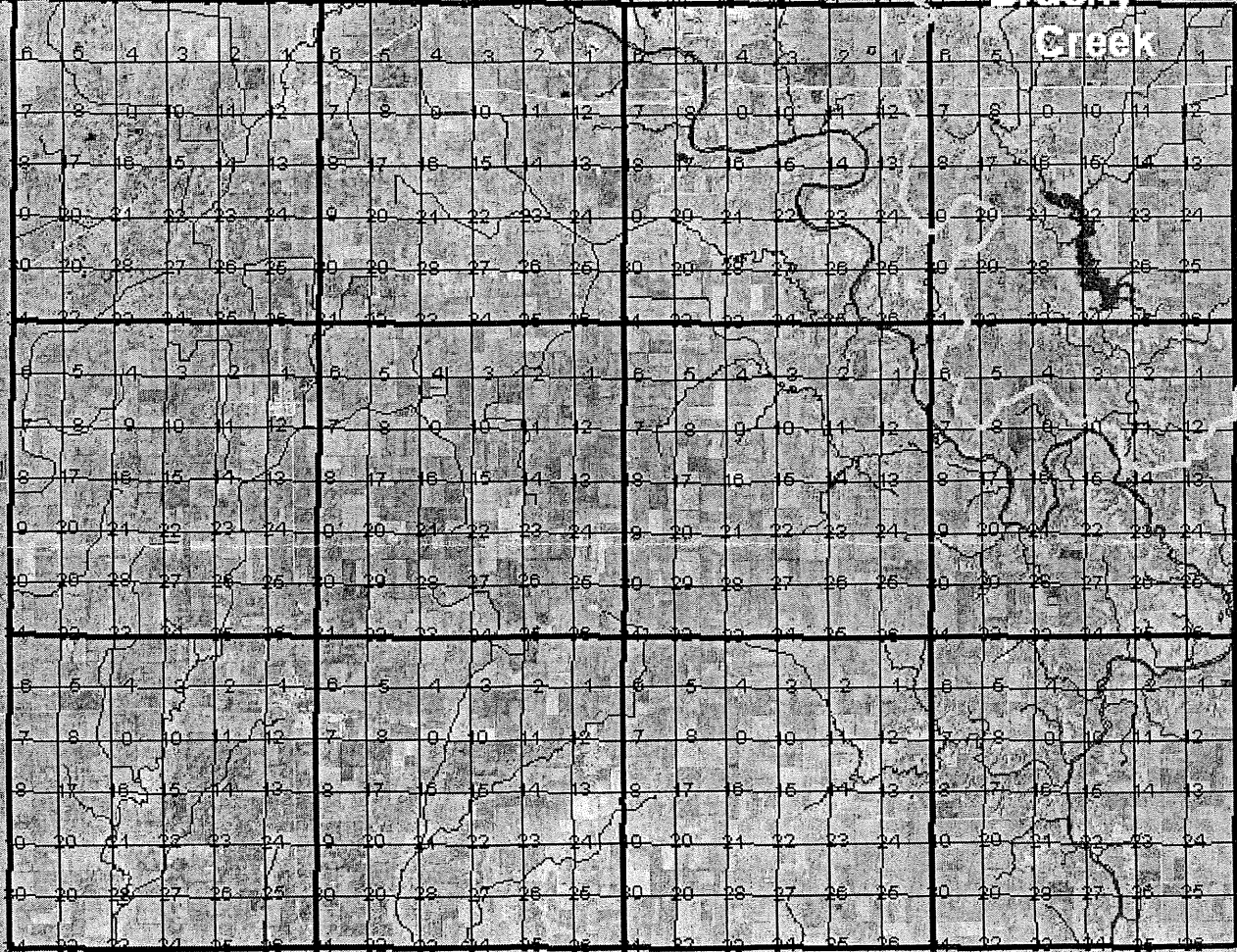
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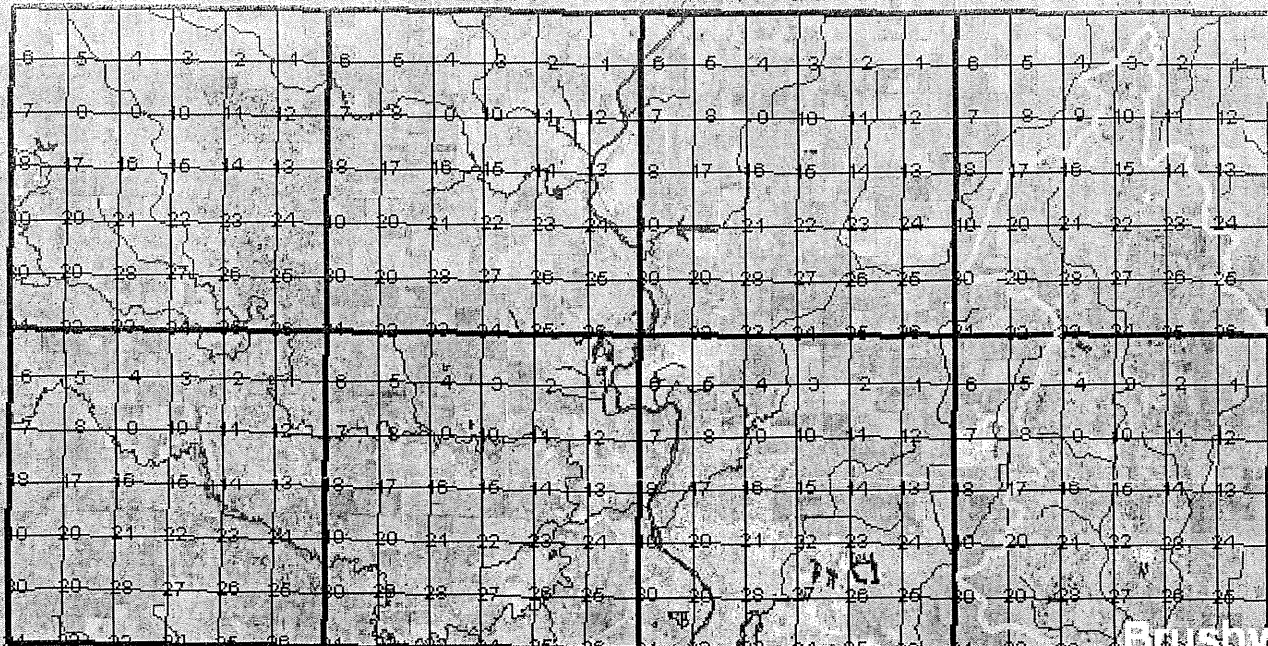
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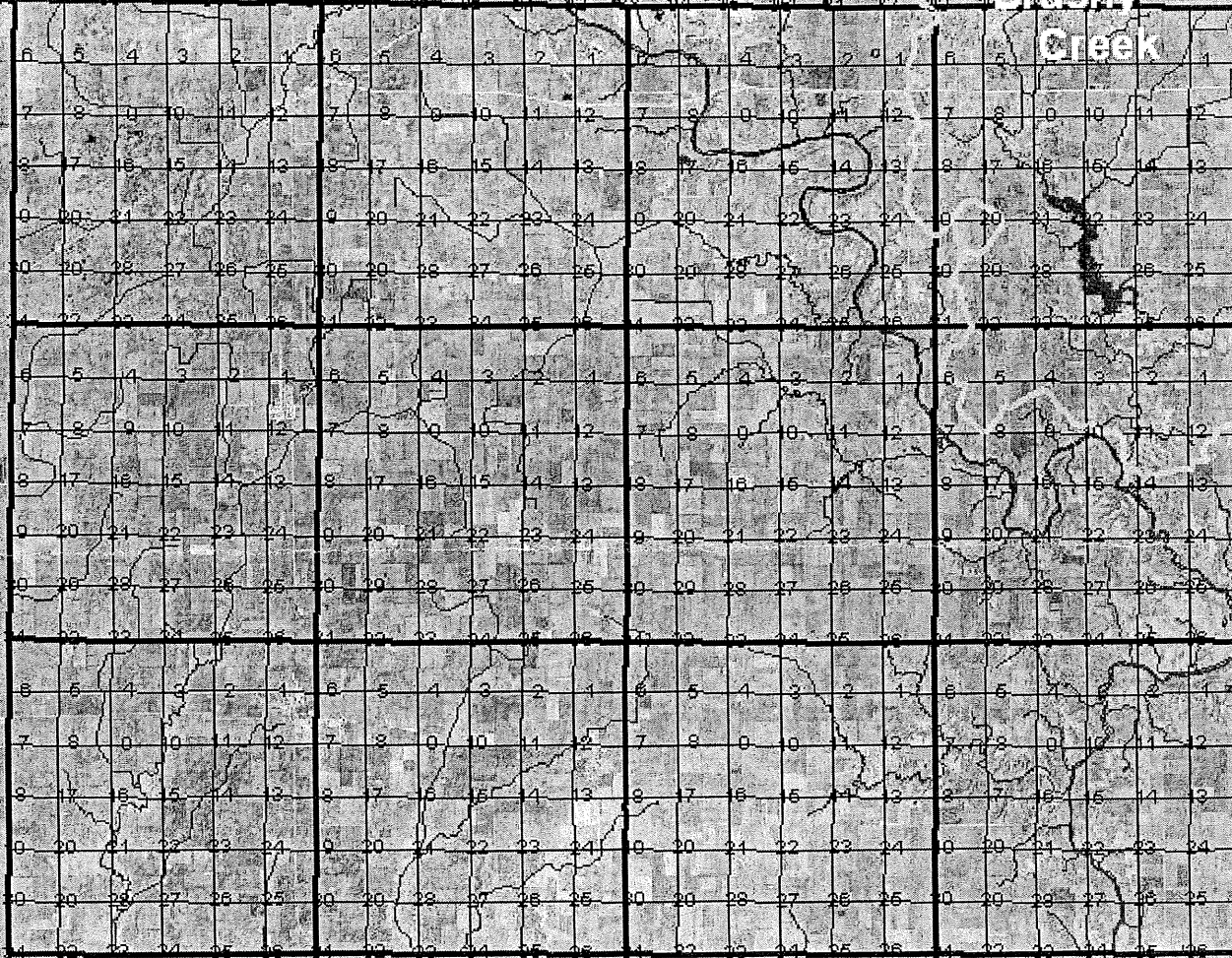
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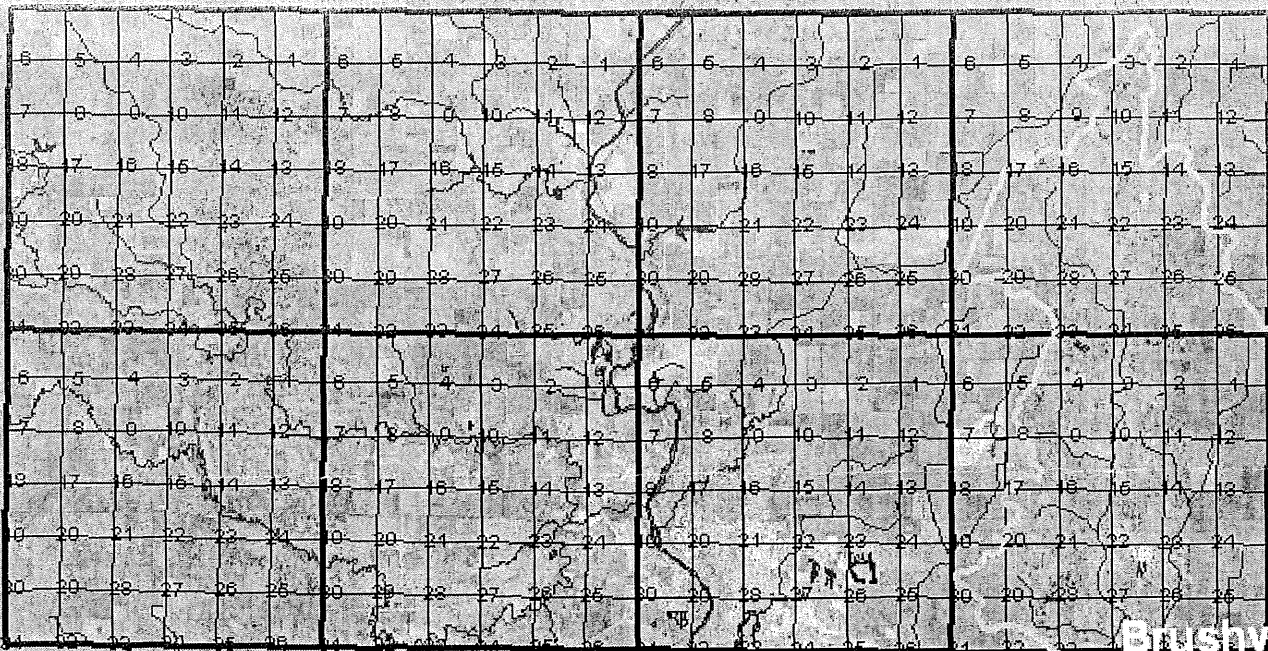
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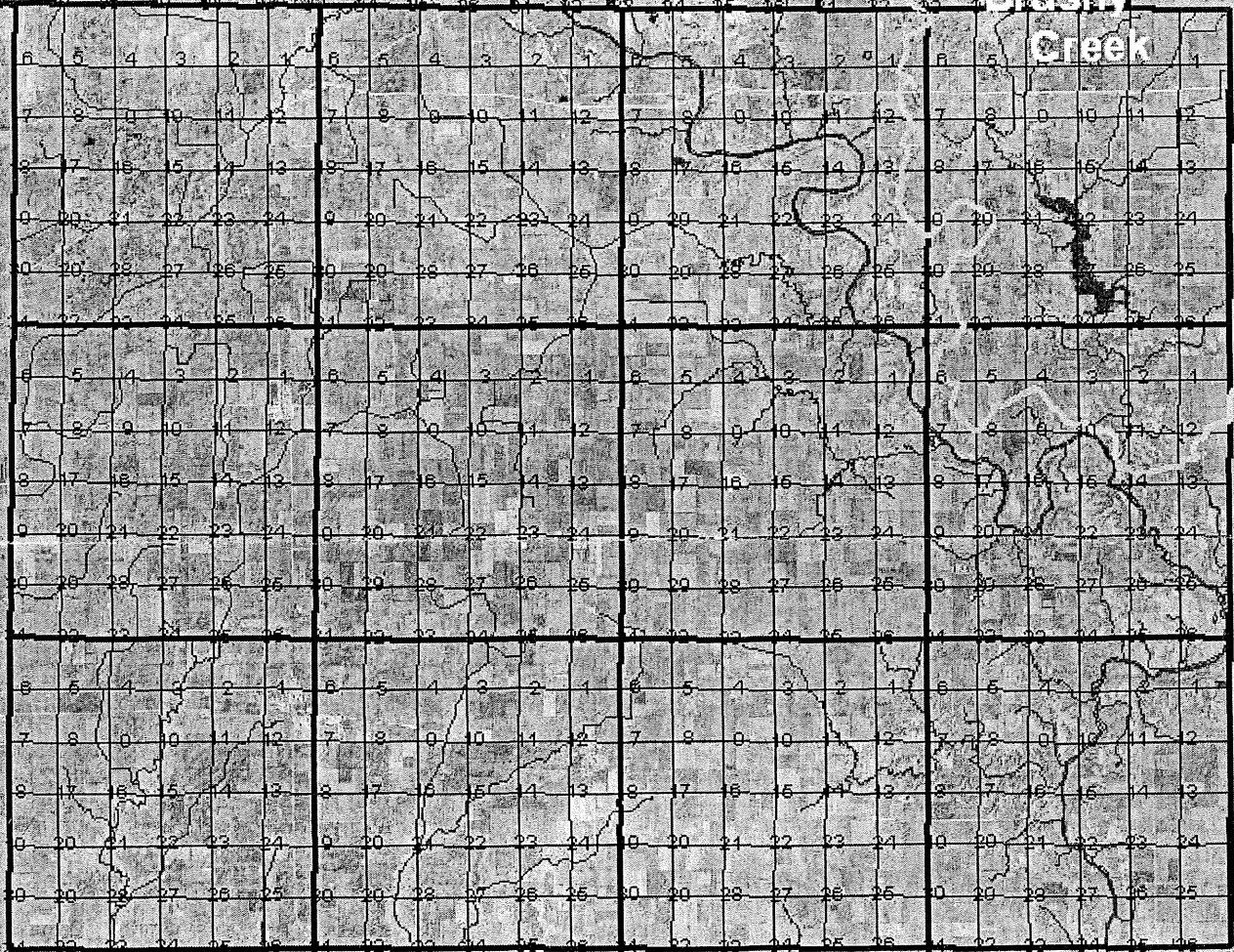
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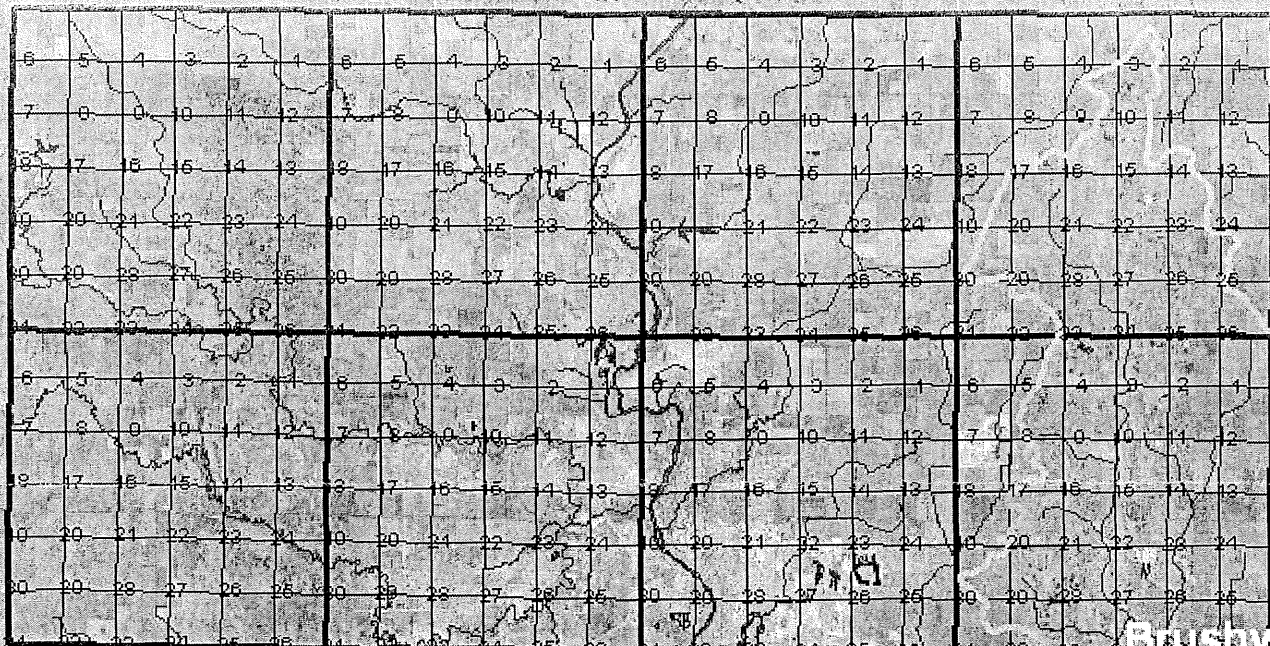
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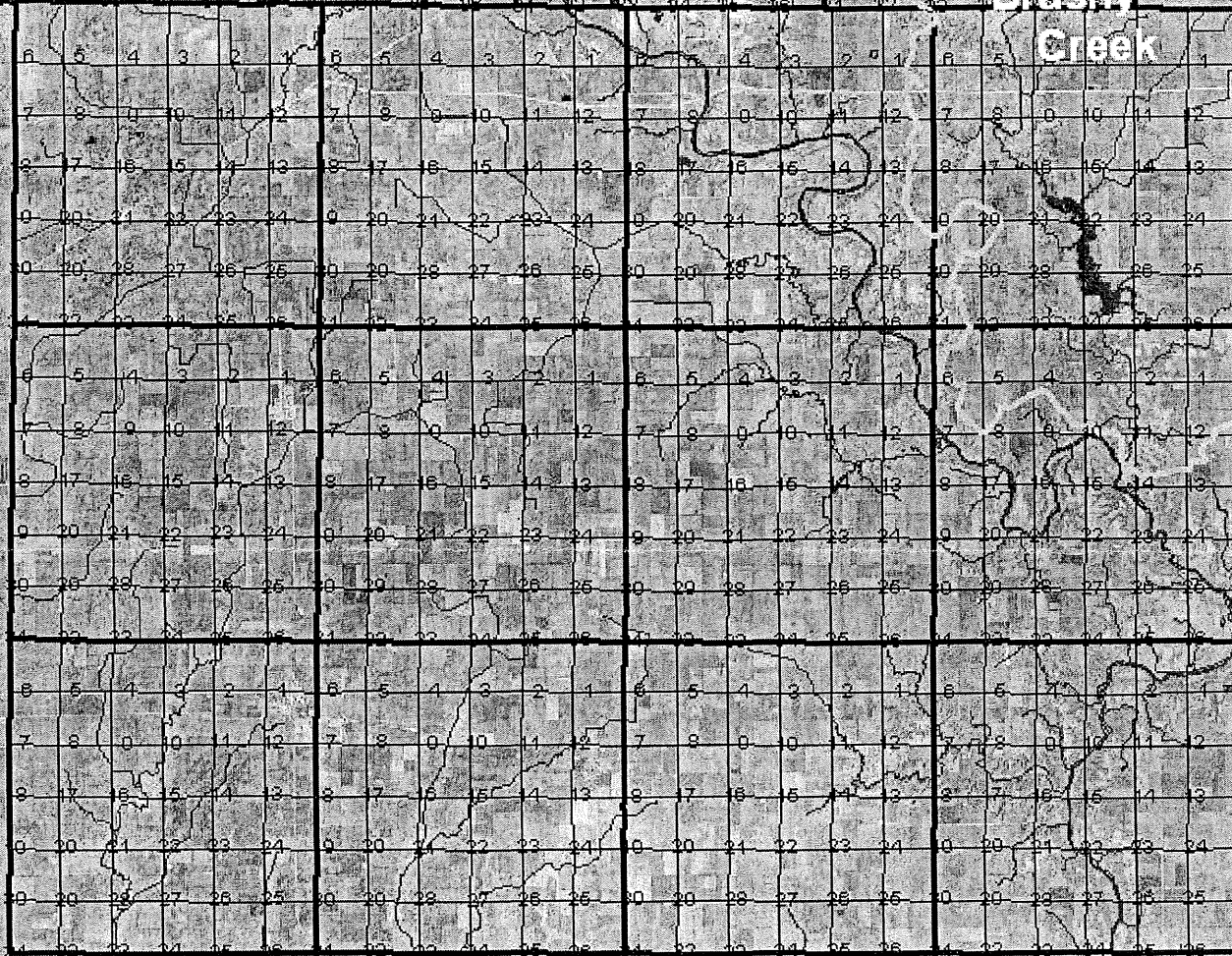
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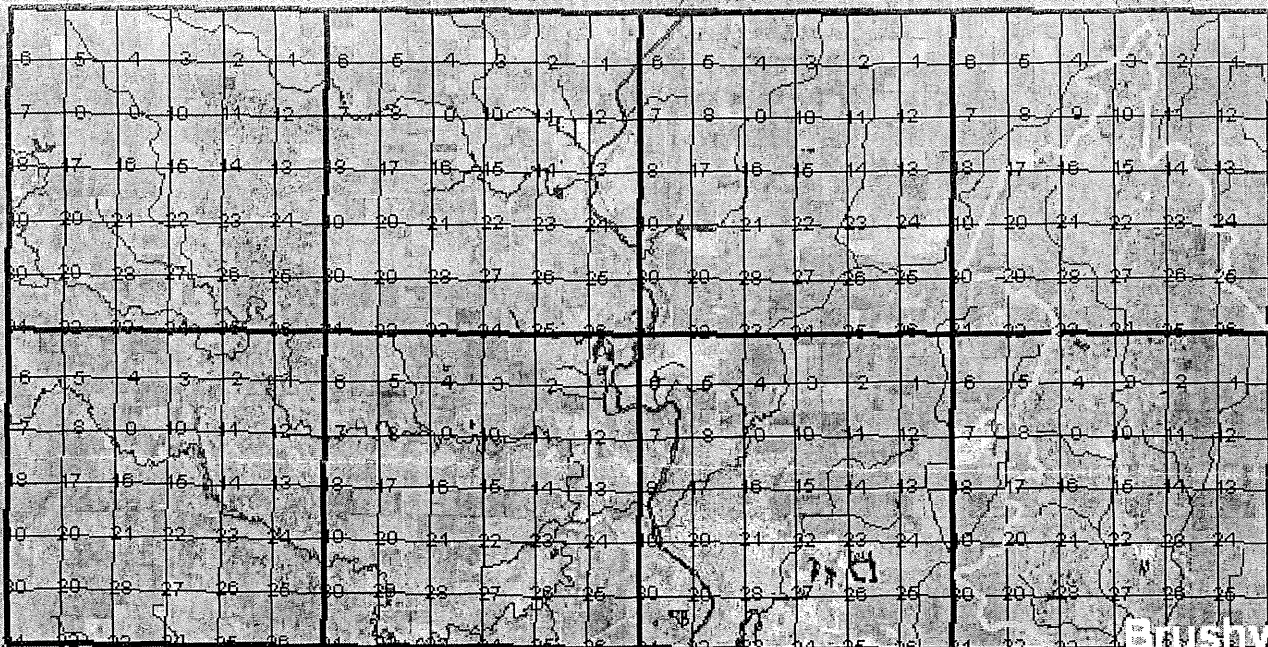
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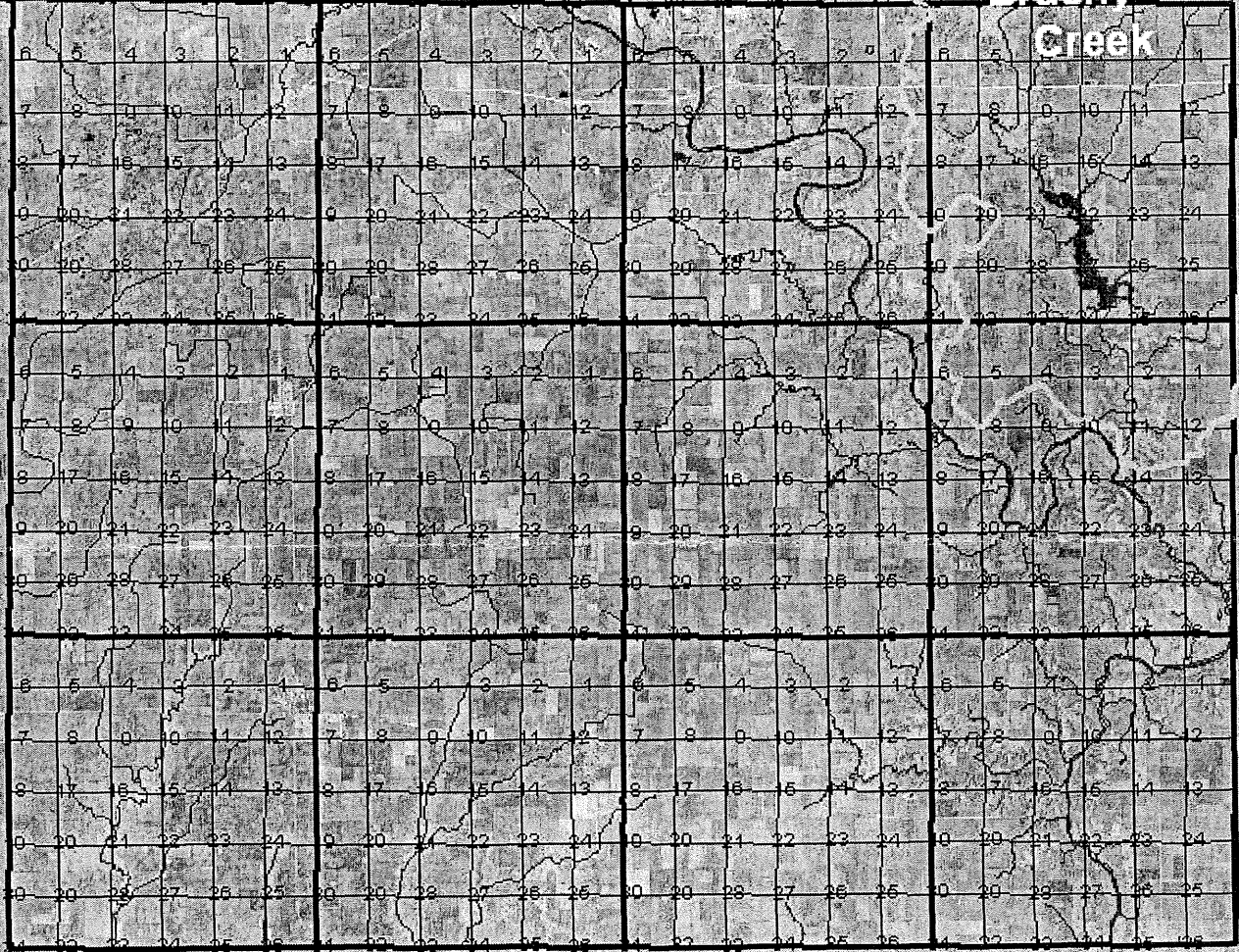
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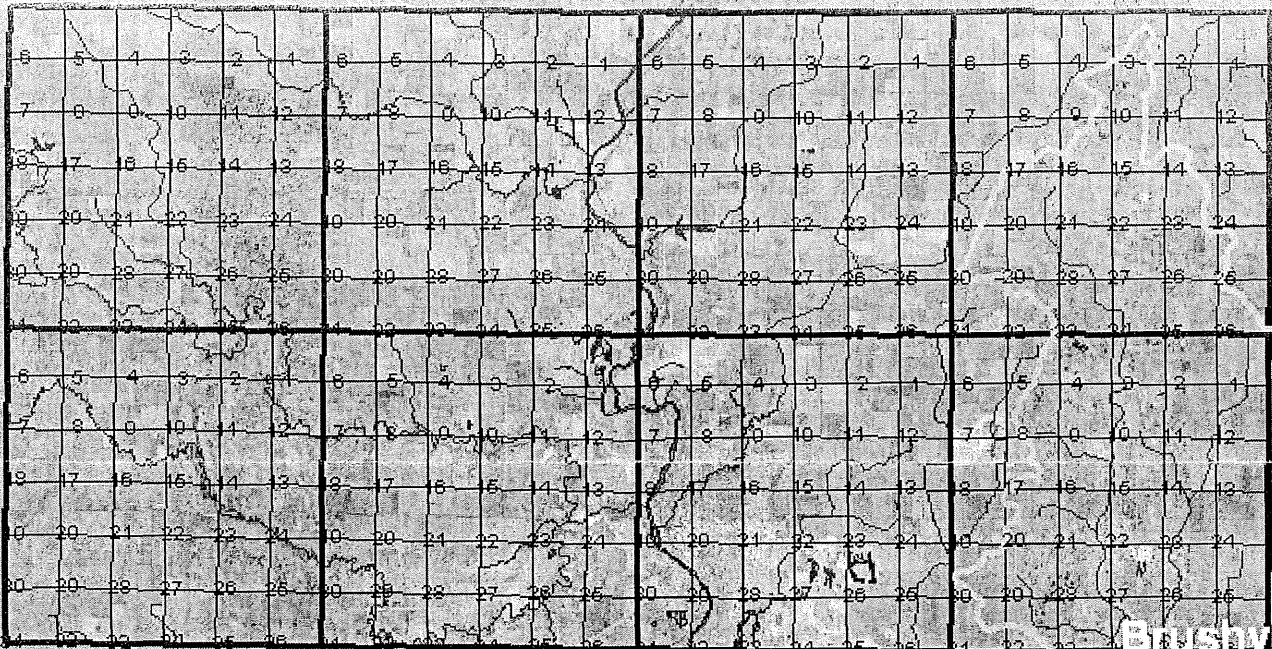
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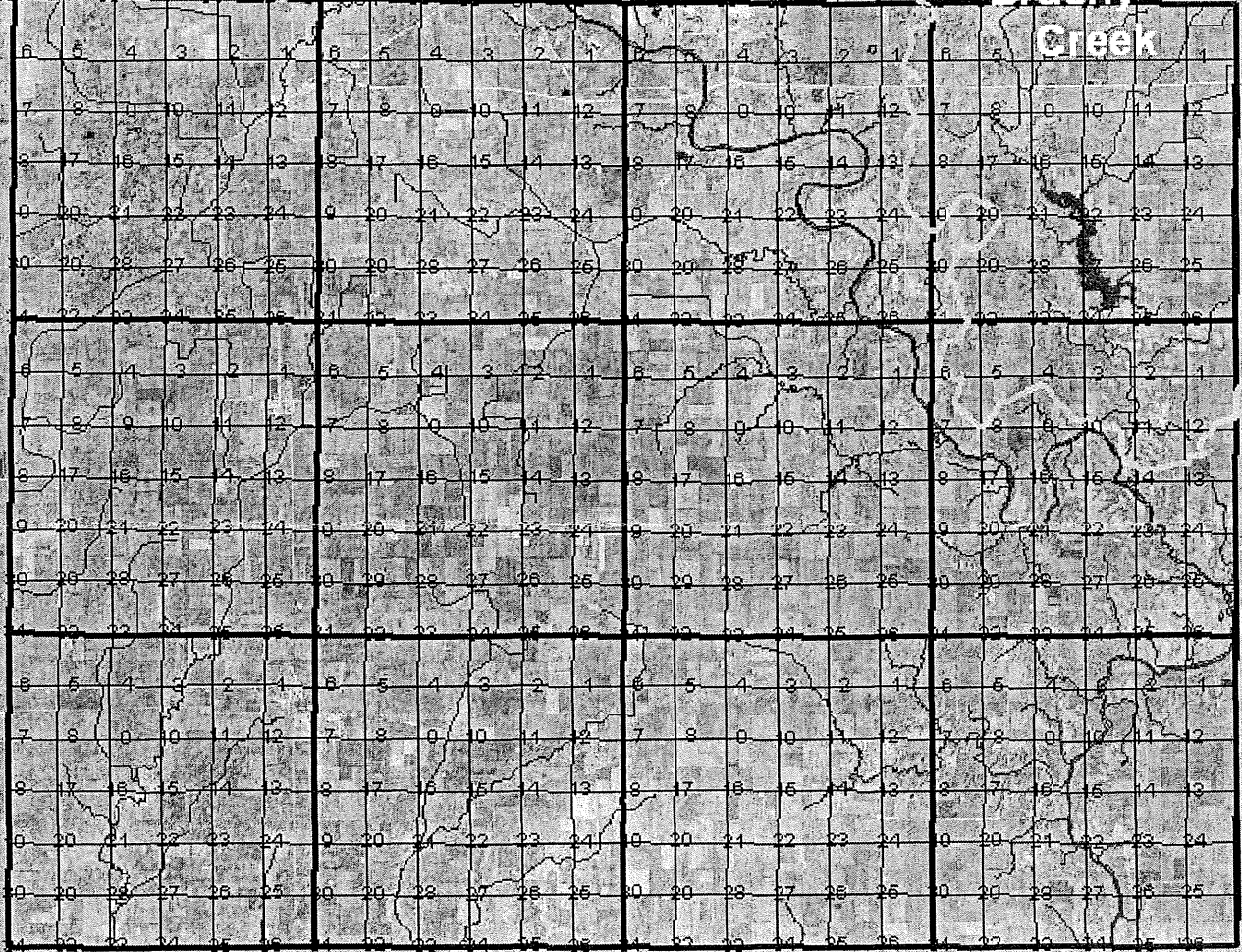
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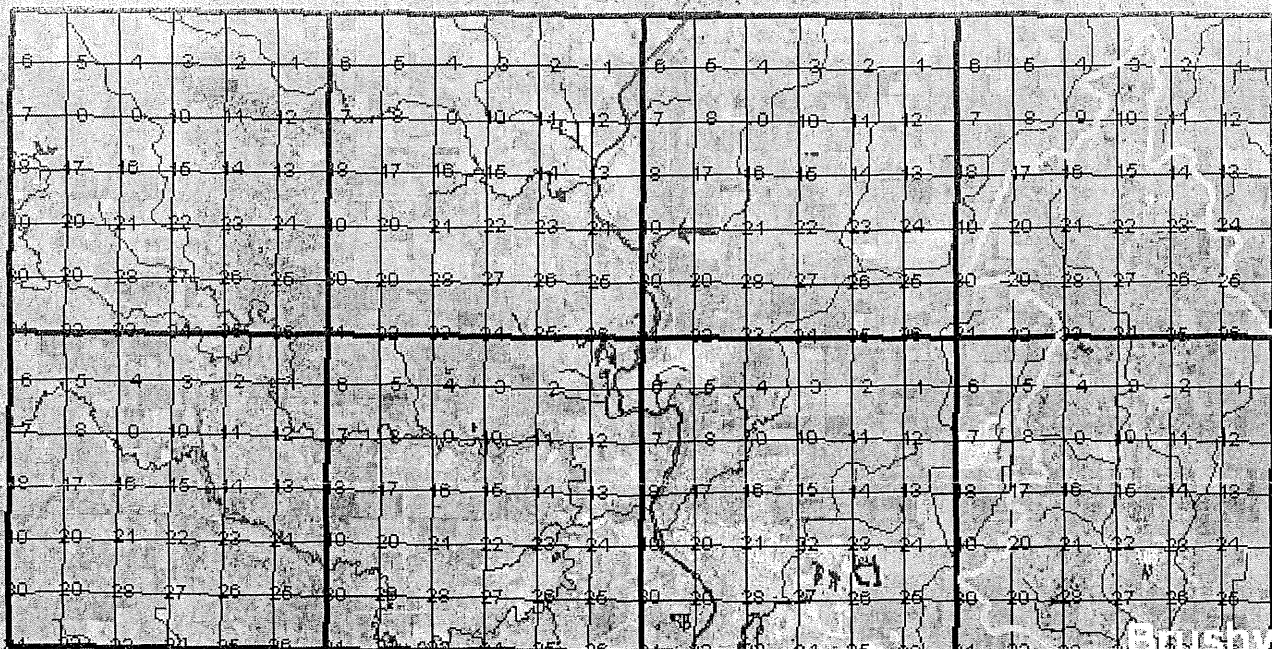
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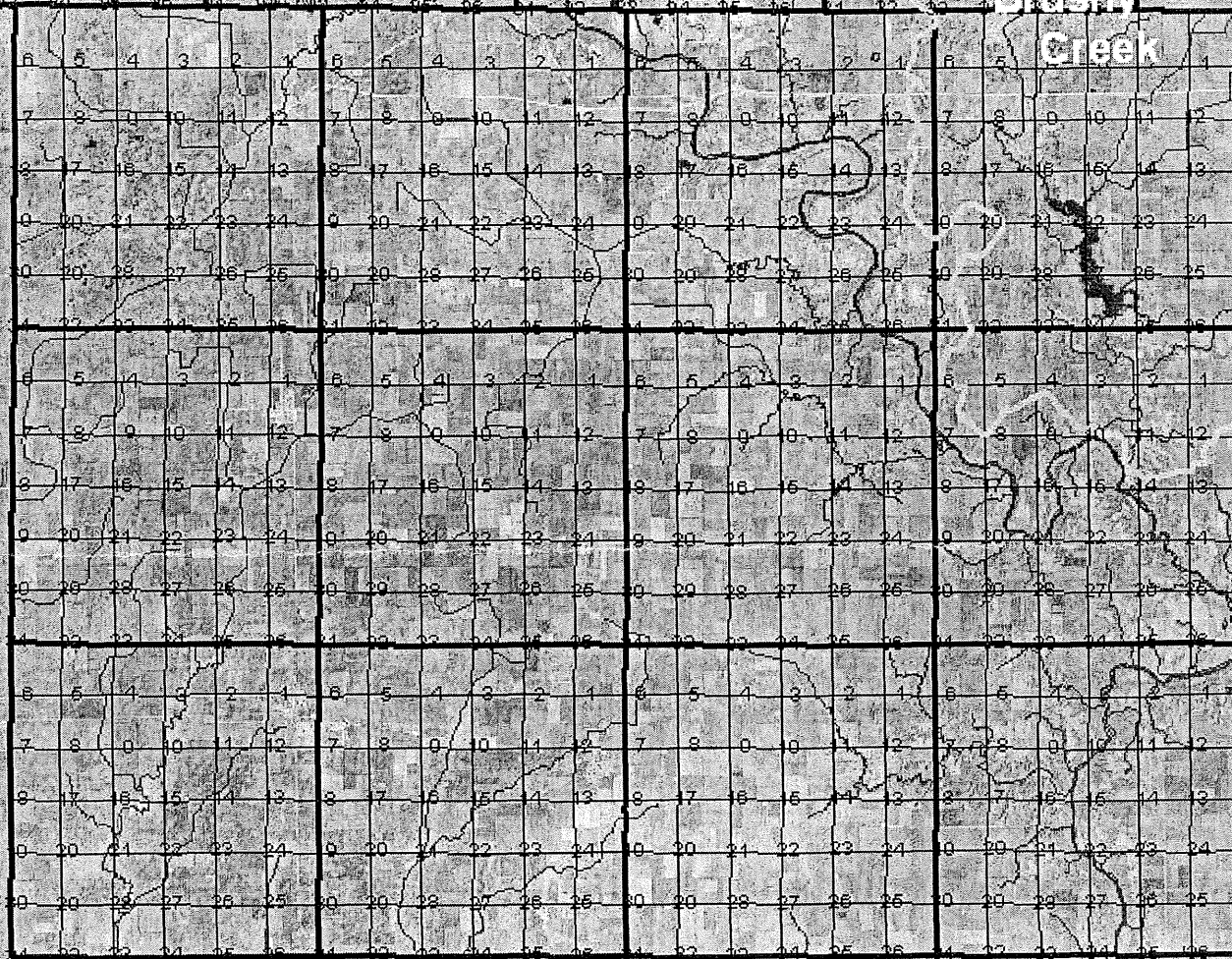
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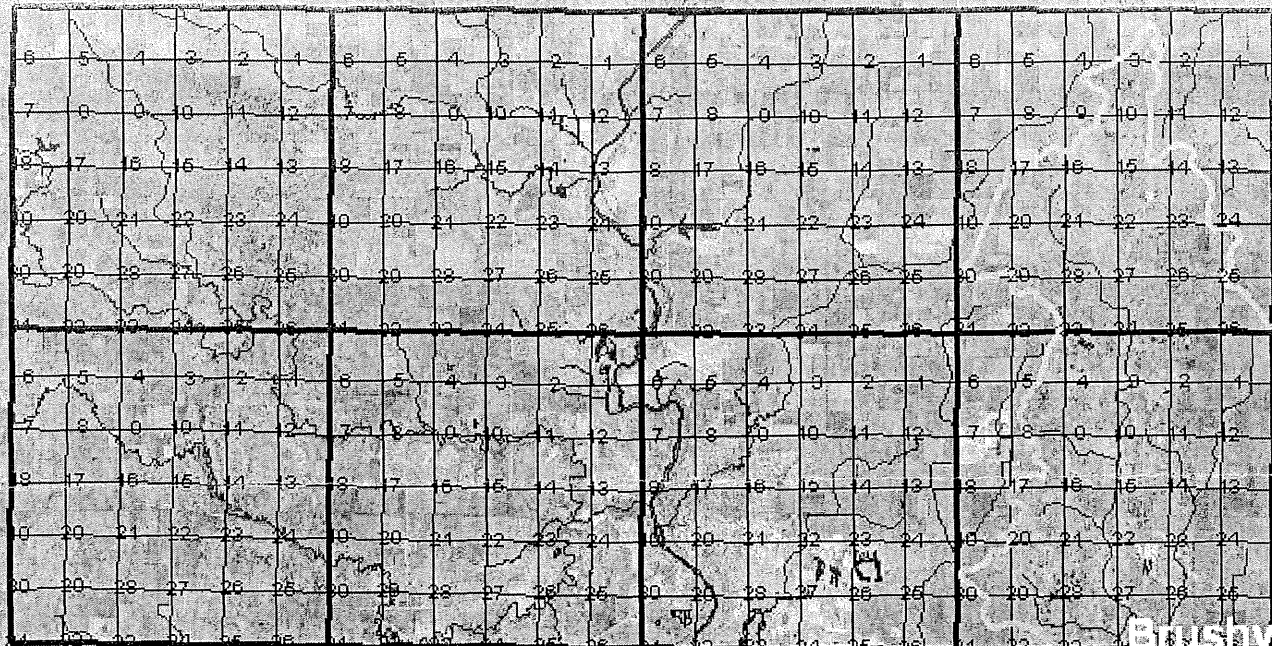
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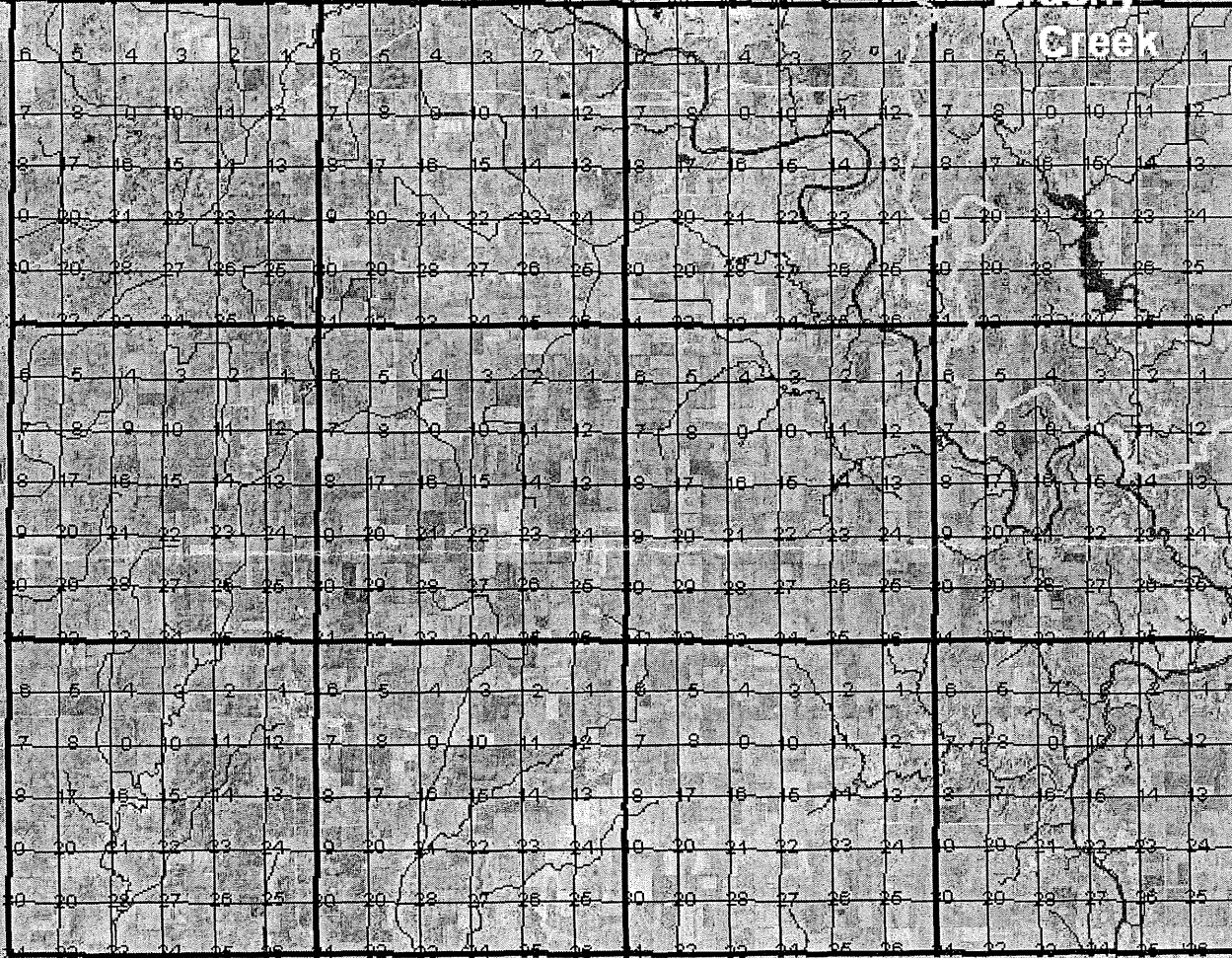
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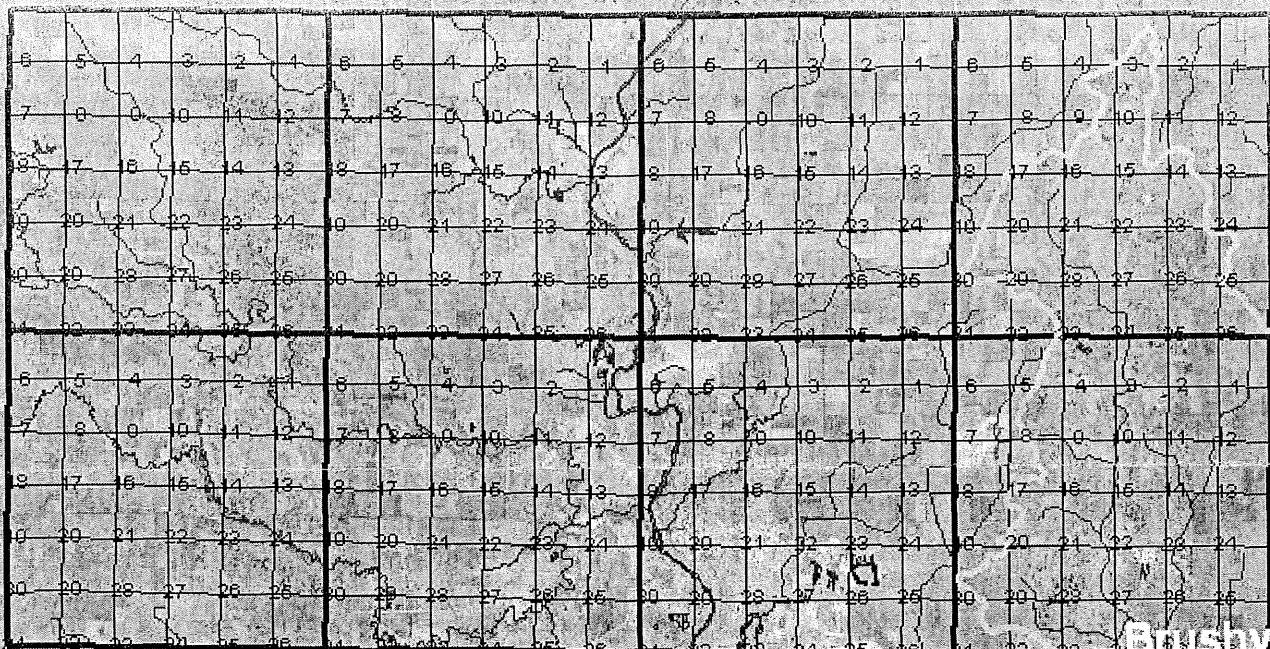
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