Soil Conservation Service SOG Natural Resources Conservation Service A leader in conservation since 1935

Wisconsin Conservation History

Dedication

Wisconsin....The first in the nation in conservation

In the early 1930s, Wisconsin became the home of the first erosion control demonstration project in the country, the wildly successful Coon Creek Watershed in Vernon County. There, the science and art of soil conservation to protect our land, our water, our food and our nation, began.

This book is dedicated to the hundreds of men and women who have worked to keep Wisconsin as we found it, green, golden and flowing with clean water. Through the three iterations of this agency, Soil Erosion Service, Soil Conservation Service and Natural Resources Conservation Service, our people have looked at problems from many perspectives – agricultural, environmental, cultural, economic – incorporating new technology and creating new solutions to the never-ending challenges that greet a flourishing society.

This 75th anniversary is a historic milestone for the nation – and for Wisconsin. We can be proud of our conservation heritage, as leaders and believers, we change and we grow to meet our new challenges.

NRCS - The cornerstone of conservation for 75 years

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Introduction

This is the story of an agency born in 1935, during a time of hardship and desperation, when the very soil that put food on our tables was literally blowing in the wind.

Erosion was such a serious problem in the 1930's that it aroused the nation to heed the message of a man named Hugh Hammond Bennett to save our soil.

Thanks to the vision of these early leaders, our prosperity as a nation has flourished. We began to realize then, and we must not ever forget, how the protection of our soil and water is the foundation of the health and wealth of our country.



Camp SCS, Higgins Estate, Trout Run Watershed, Melrose, Monroe County, Wisconsin. Severe gully erosion in Union silt loam underlain with fine sand. Previously cropland, pastureland during past five years. Gully is about 40-feet deep. Wis-159 July 29, 1937

First in the Nation

In the early 1930s, across the nation, gullies, floods, droughts and dust storms were driving people off the farm. Through the efforts of Hugh Hammond Bennett, the Congress of 1933 appropriated \$5 million for a new New Deal agency, the Soil Erosion Service (SES).



Farmer shows soil conservation technicians the worst problem on his farm. He has planted 3,000 trees in this and a similar gully. The hillside has been seeded to permanent alfalfa. This farm is in the (proposed) Upper Pigeon Creek conservation district. Wis-49 Jackson County 1938

"The ready availability of good land and wildlife for so many generations gave rise to a careless and prodigal attitude toward our wealth of natural resources."

Hugh Hammond Bennett

It took only 70 years, from the time of the first infusion of white settlers, to the early 1930's, for traditional farming methods to reduce the land around Coon Creek, and elsewhere, from pristine to the brink of agricultural uselessness. Hugh Hammond Bennett, as Chief of the Soil Erosion Service, launched a series of demonstration projects to show farmers that conservation could work to save soil, and their farms. The Coon Creek Watershed was a short-lived, wildly successful erosion control demonstration project, the first in the nation, in western Vernon County, Wisconsin. It was 22 miles long, nine miles wide, 92,000 acres straddling three counties, with outlet directly to the Mississippi River.

The watershed was divided into four units with a Conservation Planner assigned to each. Herb Flueck, later the SCS State Conservationist for Minnesota; Marvin Schweers, who became State Conservationist for Wisconsin; John Bollinger, and Joe Schaenzer, were the four.

Ray H. Davis, director of the Upper Mississippi Soil Erosion Experimental Station in La Crosse and the four Planners sat down in late 1933 to figure out from scratch how this conservation project would work. They devised this general land use plan^{*}

Open pasture with slopes >40% —— fence out cattle and plant trees
Woods with slope >25% fence out cattle; plant cover in gullies
Crop fields with slope >20% seed to pasture or hay
Ridge top fields with slope <10% — terrace and contour strips
All other fields with slope >3% contour strips
All flat fields — use crop rotations
*Second Annual Report, Coon Creek Demonstration Area, 1934-1935, SCS

Soil Conservation Service Nurseries were established throughout the country to grow and distribute plants for the stabilization of severely eroding lands. Since the mid-1930s, this need for conservation plants has grown, and is the realm of the present day NRCS Plant Materials Program. The Rose Lake Plant Materials Center for the Great Lakes Region was established in 1958.



This 2-acre nursery was located on the Adolph Lee farm, within the village limits of Coon Valley, Wisconsin. Civilian Conservation Corps (CCC) men are busy transplanting, weeding and watering. Source: Emergency Conservation Work Report July 25, 1934



Each man carries a planting dibble and a box of seedling trees. Reforestation of steep slopes is an integral part of the program at Coon Valley. SCS-1, 1935

"Coon Valley is one of the thousand farm communities which, through the abuse of its originally rich soil, has not only filled the national dinner pail, but has created the Mississippi flood problem, the navigation problem, the overproduction problem, and the problem of its own future continuity."

Aldo Leopold, 1935

Coon Creek Watershed

Getting Started

Marv Schweers was one of the original four conservation planners for the Coon Creek Watershed hired in 1933. The original planners, as a matter of necessity, were whole farm planners. They looked not only at cropland, but at feed rations, woodlots, economics, wildlife areas, everything that could make or break the success of a farm on the brink. Marv was appointed Wisconsin State Conservationist in 1937 serving until his death at age 58 in October, 1962.

Ben Einer and Albert Chapiewsky were the first farmers to sign cooperative agreements with the project for application of erosion control measures and correct land use practices on their farms. M. F. Schweers was the Soil Erosion Service employee who "signed" them.



Marvin Schweers and wife Marie in Coon Valley, Vernon County, WI.

Sign at the entrance to the Coon Creek project. Such roadside signs as this have been used in projects in Wisconsin as part of the education and information work. Source: Annual Report, Soil Conservation Service, July 10, 1936

ENTERING AN EROSION CONTROL DEMONSTRATION ARTEA U.S. DEPLI-8P-ACRICULTURE SOLL CONSERVATION SERVICE

Old Man Erosion and Mel Cohee

Mel Cohee, economist on the original Coon Creek Watershed staff, worked to make sure the new farm plans could succeed financially, as so many farms in the watershed were already delinquent on taxes.

When rumors spread that farms would be taken over by the government if they slipped on their conservation plans, signups stopped. So, the SES staff hauled their generator and their glass slide projector to every oneroom schoolhouse in the watershed to put on a play, "Old Man Erosion Gives Up," which drew standing

room-only crowds every night—22 performances with a total audience of 1,310. The play pits the destructive abilities of Old Man Erosion against the handsome young Mr. Conservation (Mel Cohee, the SES economist) in a battle for farms and topsoil. In the morning, there would be a line of farmers waiting to get conservation plans for their farms.



Mel Cohee, 2001

both is stat



Advanced erosion with gullies 50-100 feet deep. The old road in the foreground has moved back for the sixth time. This gully started from Black River in 1900. It has made 80 acres of land worthless and has advanced three-quarters of a mile. Trees and grass are stabilizing the lower part of the gully. Wis-717 Melrose, WI July 1939

1930s

Elmer Manske Farm. One of the first to sign up and the first one to have terracing done. Farmer says he can notice a big difference in washing since fields were stripped and terraces built. Would not go back to the old system of farming. Wis-39-B June 28, 1934 Photo I.K. Landon

In Their Words...

Remembering the Conservation Plan Speech by Ernest Haugen, Coon Valley Earth Day Celebration, May 2008

My father John Haugen signed on the agreement on March 19, 1934 in the evening. John Bollinger was the supervisor for the Soil Erosion Service. They must have walked over the farm during the daytime. John Bollinger laid out the aerial photo and about ¼ of the western part was missing. So he made a map on a white paper. My father could choose the kind of grass seed that he wanted. So he picked out alfalfa and alsike clover and timothy seed also some sudan seed. For a total of 20 acres on one slope was to be terraced and another eight acres on another slope, and about 40 acres of timber to be fenced off, and another eight acres to fenced off.

About one week later I went along with my father and a neighbor, Sherman Larson and walked about 1½ miles to the Erickson house, to a meeting about soil erosion. I remember they talked about the cheapest way of going down to China.

When I came home from (being) with my neighbor boys, Grant and Ingman Nordrum, three terraces had already been made. They started on the fourth one. Harold Johnson, a neighbor, was driving the Caterpillar No. 22 (new). Paul Lunde from Timber Coulee was on a brand new grader. William Johnson from St. Paul was the surveyor. He was a cousin to Sherman Larson. Later in the summer four terraces were made on the eight acres, very big ones. Henning Lee was the grader, about 2 1/2 miles were made.

The timber was fenced off by the CCC men (Civilian Conservation Corps). Nels Norstrom was the foreman. They cut down trees and made fence posts. They sharpened the posts and carried them along the fencerow. Three wires were used.

Farm record book was kept of the expenses and income, all machinery and livestock was written down. Egg production was kept up to date. The farm record book was signed by Mel Cohee, who was an economist. He also had studied the soil erosion in the Bad Axe Watershed. But Hugh Hammond Bennett picked out Coon Creek Watershed because it was so close to the Experiment Station on Granddad's Bluff near LaCrosse.

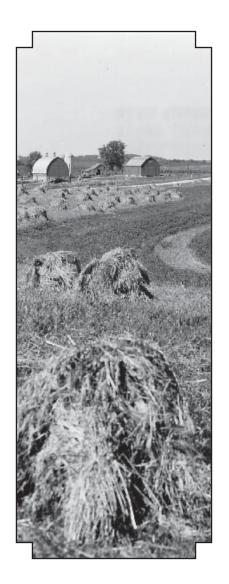
The Vernon County Soil Conservationist, Jim Radke brought Mel Cohee to our farm on November 18, 1998 to get acquainted. Mel Cohee was the last of the seven men who organized the Coon Creek Watershed. He told us that he and Hugh Hammond Bennett and (a) Forester from the State of New York, Ward Sheppard who had been good friends with President Franklin D. Roosevelt when Roosevelt was governor of the State Of New York. They told him what should be done to control soil erosion in Wisconsin. So they wondered if they could get three million dollars for the project. President Roosevelt said better make it five million dollar(s). So it became five million dollars for five years.

Sixty percent of the cropland was suppose to be in grass or hay. We have made more terraces since that time. We now have over 19,000 feet with terraces or over three miles, all are in very good shape. There is four feet diameter culvert down in the town of Coon road. No water goes through the culvert now. The timber takes care of it. This is what I know. Ernest Haugen



Ernest and Joseph Haugen looking over the original conservation plan of the family farm that was originally signed in 1934.

Memories of the Coon Creek Project by Jack Densmore, Forester for Coon Creek Watershed 1935–1937, Retired SCS 1972



1930s

Bill Steenberg sat perched on a barstool enjoying a morning beer in a tavern in Cashton. Bill, I had been told, was the first farmer to use contour strip cropping in the Coon Creek Project and, perhaps, in Wisconsin. I had come to ask Bill how he happened to be a soil conservation pioneer.

In southwestern Wisconsin's coulee country, this first erosion control demonstration project included all of the 92,000 acres of the Coon Creek watershed. Initiated in 1933, it was one of several such projects started across the country under the leadership of Hugh Bennett, first Chief of the Soil Conservation Service.

When I looked up Bill Steenberg in 1964, he was then 84 years old but he still remembered the night over thirty years ago when he made the decision for soil conservation. "I was milking cows one evening when Marv Schweers, one of the erosion boys, stopped in to see me. Marv said, "I suppose you feel like your neighbors, they want to wait a year before signing up with the soil erosion project." I said, "No, I want to sign up now!"

"Before Marv left that evening we had worked out the new pattern for my fields. I was desperate, my wife had died, my five children were hungry, I didn't have enough feed for my 12 cows, and my fields suffered from drought and erosion. I knew I had to give up or change."

Even Bill wasn't prepared for the reaction of his neighbors. He was ostracized. In their view he had given his farm to the Government. Even his brothers who farmed nearby refused to exchange work with him. Bill worried all summer about how he would handle the grain harvest that fall.

Fortunately, when the time came for threshing, his brothers relented and gave him a hand. In time, the Steenberg farm became a showplace for soil conservation. Visitors from all over the country profited from Bill's pioneering efforts.

As Bill turned his attention to his morning beer, he said, "I am most proud of the way my sons are carrying on with the farm plans we started 30 years ago."

I started working for the SCS in the summer of 1935 after graduating from the University of Minnesota. I was first assigned as a forester for the La Valle CCC camp. Then in November of that year, I received a letter from Marv Schweers, State Coordinator for the Service, promoting me to the Coon Creek Project but with no change in pay!

Since the project was started in 1933, I was in the 'second wave' of technicians assigned to the watershed. My responsibilities were in the area of forestry and wildlife management. I worked with a team including an agronomist, an economist, an engineer, a soil scientist and a farm planner. We were encouraged to learn from each other and, hopefully, become well-rounded soil conservationists.

Even though the demonstration project had been operational for several years when I arrived, we still heard many anti-erosion control comments. To some farmers soil erosion was just an inevitable aspect of farming; erosion was a natural phenomenon. However, farmers like Bill Steenberg were becoming less and less the exception. As a matter of fact, all of Bill's neighbors eventually used contour strip cropping and other soil conservation measures.

The Coon Creek Erosion Control Project became a showplace and guide for soil conservation especially for the Driftless Area of Wisconsin, Iowa, and Minnesota.

Civilian Conservation Corps

In early 1934, the CCCs arrived in Coon Valley, staking their tents on 12 acres of flat valley floor owned by Lewis Brye and his cousin. By late fall, the barracks had been constructed, housing 190 CCC boys who moved down from the Long Lake CCC Camp to provide the strong backs needed for the conservation work.



Camp located just outside the village of Coon Valley, Source: Emergency Conservation Work Report July 1934



This terrace outlet structure is being constructed on the Arve Amundson farm. The channel has been excavated to required depth and the bottom leveled. Reinforced concrete spreaders are to be constructed in the cross trenches, using heavy wire for reinforcing. The chicken wire shown on the bank is to be embedded in the concrete and lapped over the sod and staked down to prevent the washing of sod. Source: Emergency Conservation Work SES-WIS-2, Coon Valley, WI May and June 1934

"The work of the Civilian Conservation Corps is a story in itself - an epic in conservation accomplishment. The camps assigned to the Soil Conservation Service carried out a prodigious job in winning the confidence of farmers in the effectiveness and practicability of soil conservation." Hugh Hammond Bennett



Camp Independence, Trempealeau County, Wisconsin 1934

Photo: J. Densmore



Looking upstream at a wing dam under construction. The roll of wire is used to envelope the brush so that erosion along the water edge of the structure will not gradually disintegrate it. When rock is available in the stream bed, it is used to weigh down the brush. Otherwise quarry rock is used. Source: Emergency Conservation Work SES-WIS-2, Coon Valley, WI May and June 1934

Farm Conservation Camps in Wisconsin

SES-1/SCS-1 Camp Coon Valley, Vernon Co. 1934-37

- SCS-2 Camp Gays Mills, Crawford Co. 1935-42
- SCS-3 Camp Ellsworth, Pierce Co. 1935-42
- SCS-4 Camp Argyle, Lafayette Co. 1935-39
- SCS-5 Camp Durand, Pepin Co. 1935-36
- SCS-6 Camp Viroqua, Vernon Co. 1935-42
- SCS-7 Camp Holmen, LaCrosse Co. 1935-40
- SCS-8 Camp Independence, Trempealeau Co. 1935-39
- SCS-9 Camp LaValle, Sauk Co. 1935-37
- SCS-10 Camp Platteville, Grant Co. 1935-41
- SCS-11 Camp Mount Horeb, Dane Co. 1934-41
- SCS-12 Camp Richland Center, Richland Co. 1935
- SCS-13 Camp Irving, Jackson Co. 1935-40
- SCS-14 Camp Dodge, Trempeauleau Co. 1935-37
- SCS-15 Camp Nelson, Buffalo Co. 1935-37
- SCS-16 Camp Bloomington, Grant Co. 1935-37
- SCS-17 Camp West Salem, La Crosse Co. 1935-41
- SCS-18 Camp Menomonie, Dunn Co. 1935-42
- SCS-19 Camp Cochrane, Buffalo Co. 1935-41
- SCS-20 Camp Ontario, Vernon Co. 1935-41
- SCS-21 Camp Highland, Iowa Co. 1935-41
- SCS-22 Camp Ettrick, Trempealeau Co. 1939-42
- SCS-23 Camp Hixton, Jackson Co. 1940-42



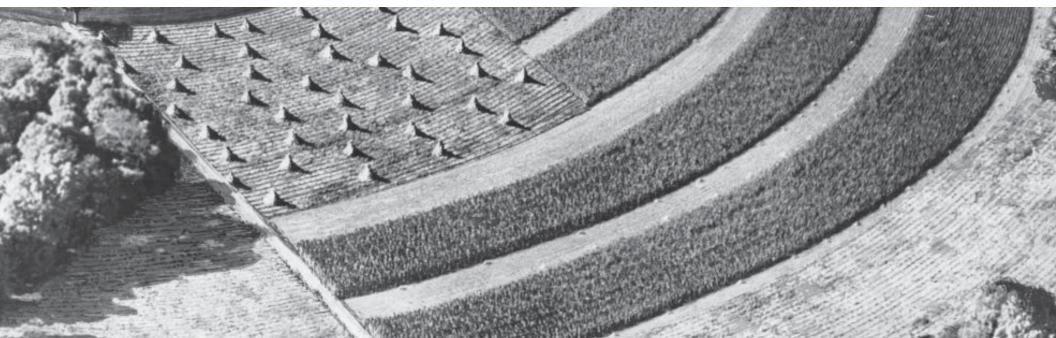
Lines on the Land

The CCC came to a halt with the onset of World War II. All the camps closed; enrollees became draftees and their Army supervisors went to regular duty. Many of the older CCC professional staff and aides hired on with the SCS. In fact most of the first wave of district conservationists came out of the CCC cadre ~ engineers, foresters, and planners. Many of the first SCS technicians were CCC enrollees or aides.



Tom Stolen, Cottage Grove operates a typical diversified Wisconsin farm. He has worked out a complete soil conservation plan with district assistance. He is looking over the plan with Bill Clark, (L) Associate County Agent for Dane County and Jack Densmore, District Conservationist, Dane County SCS. Winding strips of oats and corn are in the background. Wis-1189 June 5, 1947 Photo: W.H. Lathrop

The conservation technicians who laid out strips became artists. They read the land and envisioned how the contours flowed around the slope and into a landscape painting. At one time, 80 percent of the cropland in southwest Wisconsin was in contour strip cropping, arguably our most visible and beautiful work of conservation artistry.



Conservation stripcropping depicts the American flag (nearly) Pierce County, WI WI-W-721

Legs Were Our Living

Depending upon how difficult the land laid and also upon the width of strips, we could lay out 20 to 40 acres in half a day. The best I ever did in one day was on a big beautiful ridge up near Sylvan. It was a rare ridge where we could use strips 100 feet wide. And it was one all day job on the same ridge. Under these very rare conditions I came in with 125 acres of strips in one day. A forty laid out in 60-foot strips, which was the prevailing width on most farms, required six miles of walking just on the strip boundaries. Preliminaries took up another mile. Small fields added up to more walking accordingly than large fields. Anyone involved in laying out strips needed a good pair of legs.

from "Nothing But Conservation" by Roy Dingle

World War II brought huge demands for more cropland and better yields. In response, wetland drainage began in earnest to create more croppable acres. Farmers struggled in some fields so muddy they needed two tractors to pull wagons to pick up green corn shocks for silage. The tractors tore up the fields and compacted the soil. Farmers would dip into their cookie jar savings every year to see how many feet of drainage they could afford. Soil Conservation Service staff in the east and southeast part of the state earned the everlasting gratitude of those farmers for relieving them of the muck, mud and drudgery that came with wet fields.

Eau Claire, WI - Mrs. M. Pierce operating a grain drill during a period when farm help was scarce because of the war effort. Wis-996 April 24, 1942



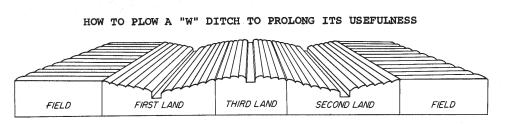


Jeep tiling machine, Lafayette County, WI Wis-1230 July 23, 1948 Photo: John Baker

walks through inches of silt that washed down these slopes from several one-inch rain events forming these gullies. Wis 1184 Dunn County, WI May 1947

The W Ditch

SCS engineered thousands of acres of concrete or clay tile-drained fields and built miles of open ditches. The classic W ditch can still be seen - spoil spread out of the ditches and onto the field created a W shape. Years later, thousands of acres of wetlands were restored by closing the W ditches.

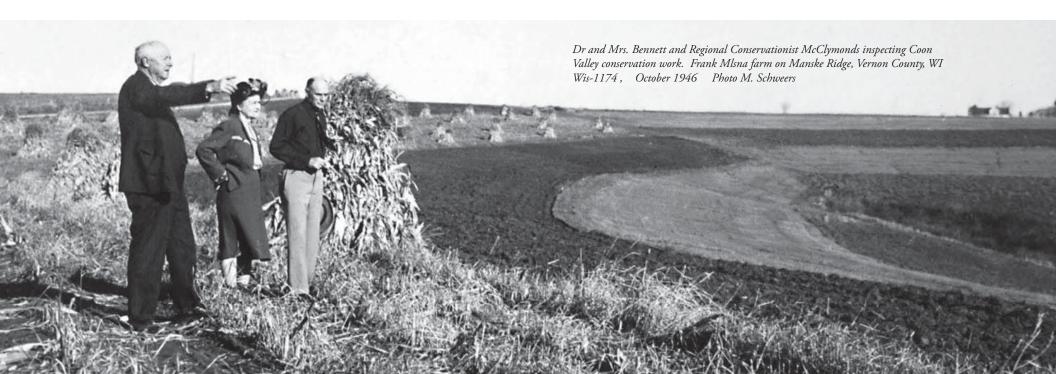




Cottage Grove, Dane County, WI Paul Helgesen planting corn in a contour strip. Upper slopes are oats and alfalfa. There is a diversion terrace in the background. Wis-1250 May 1949 Photo: W.H. Lathrop



Dunn Co., WI Gully formed in one day destroying the highway - 30-feet deep, 100-feet wide and 150-feet long. March 1945





Monroe County, WI Brome grass specimen. Mr. Printz supporting the plant, has great faith in plant's ability to establish waterways. Wis-1141 1945 Photo: Newville



Grant County, WI Clark Abrams with Oliver tractor and planter in a contour strip. Wis-1219 May 1948 Photo: W.H Lathrop



Chaseburg, Vernon County, WI Contour farming. Loading hay on a contour strip Wis-1076 July 1943 Photo H.W Lathrop



Bayfield County, WI Plowing in terrace on red clay with disc plow (terracer). Wis-1191 October 1946 Photo: F.L. Robbins

The Watershed Years 1950s

The Watershed Protection and Flood Prevention Act (PL566), enacted in 1954 to help communities protect, improve, and develop watersheds opened the door to decades of large scale watershed projects. Watershed planning and projects dominated SCS activities for nearly three decades.

Initially, to be eligible for PL566, 75 percent of the farmland in the watershed had to be under a conservation farm plan, and the plan had to be implemented. SCS could then develop a Watershed Work Plan to help with the problem at hand ~ gullies, sediment, or flood damage reduction. But plans were only approved if the cost-benefit analysis made it worthwhile – threats to bridges, roads, houses, cropland, particularly high value tobacco cropland, had to outweigh cost of the project. Many, many watersheds were assessed, but only around 20 were completed in Wisconsin.



A washout on a town road near DePere in Brown County, WI Wi-195-10 May 1960 Photo R. Forseth



Alma Creek Watershed, Buffalo County, WI The gully area in the picture is to be controlled by dam structures #4 and #5 in this watershed WI-14-8 1955



Alma-Mill Creek Watershed, Buffalo County, WI A detention structure controlling the upper reaches of this watershed. These upland treatments were vital to the successs of the watershed program. WI-139-9 April 1959 Photo E.W. Cole



Board of Directors, Mill Creek Watershed Association holding a meeting at the Harris lumber company in Boaz, WI. L to R George Smart, Levi Walter, Dennis Young, Foster Patch, Roy Dingle, SCS Work Unit Conservationist, Gerald Fulton, Roy Nicholson, Henry Slaney, Frank Harris, and Paul Hendricks. WI-17-10 March 1955 Photo: E.W. Cole



Dairy herd in the foreground with contour strip cropping in the background. Blue Mounds, WI WI-27-7 July 1955 Photo: E.W. Cole



Coon Valley, Vernon Co., WI Group inspecting conservation practices on farm of the first cooperators with the Coon Creek Project. Wi-28-2 July 1955 Photo E. Cole



Soil Conservationist Bernie Peterson and the Bob Klein family discuss the farm conservation plan they worked out together. By following this plan using the land within its capabilities, soil erosion will be checked and yields and profits should increase. WI-225-12



John Bollinger (former SCS Farm Planner); H.H. Bennett (former Chief, SCS; Marv Schweers (former State Conservationist Wisconsin); an Herb Flueck (former State Conservationist, Minn.) standing beside roadside marker commemorating the establishment of the Nation's First Watershed Project at Coon Valley, Wis. WI-28-9 July 1955 Photo E. Cole



Green Bay, Brown Co., WI Work unit office at Green Bay. Mr. Stone, (r) Work Unit Conservationist, Soil Conservation Service greeting landowner. Wi-36-7 April 1956 Photo E. Cole



The completed waterway and structure. The waterway has just been mowed and raked. Cattle have been fenced out of the area. The structure lowers the water safely to the level of the floor of the bridge at the bottom of the picture. Toe-wall and waterway combinations such as this will often cure a gully problem just above a roadside culvert or along a property line. WI-121-5 September 1958 22



Cedarburg, Washington County, WI Rudy and Agnes Krumbeigel with Work Unit Conservationist, Harold Ryan, SCS, observing the luxuriant growth of alfalfa-brome on their diversion terraces which were constructed last year. Wi-164-9 Sept. 1959 Photo: E.W Cole



Looking over plans for terracing on the farm. River Falls, Pierce County, WI WI-34-2 September 1955 Photo E.W. Cole



L to R Avery Clark, Cooperator, Roy Dingle Work Unit Conservationist, Soil Conservation Service, Avery Marshall, veteran instructor looking at Clark's farm plan, Richland County Soil Conservation District. Wis-1317 March 1955

The Conservation Technician

The least recognized partner in the conservation team was the technician. The first technicians were CCC aides or enrollees who, as the camps closed, became SCS employees. In later years they may have been farmers looking for other work or technical school grads. However, most SCS-applicable skills were learned through agency training and OJT.

My experience with technicians began in 1959, as an SCS Summer Engineering Technician in Eau Claire. Stanley Borm, of Dunn County, was the "on site technician", who had been at the Nelson CCC Camp along with Area Conservationist Hal Smith.

Stanley was in his late 50's when I met him, and a fun guy to be around. When we left the construction site near Pepin we would travel together, but in separate cars back towards Eau Claire. Fortunately, before we parted ways, there was a convenient Root Beer Stand where he would always buy us a cold drink after a hot day on the site.

Stanley was a jokester! The following summer, Bob Martin, who later became an Assistant State Conservationist, and I were helping Stanley on the Alma-Mill Creek Watershed, in prime rattlesnake country. Al Kjarsgaard, the area engineer, came down to oversee construction progress. While Al was out on the site, Stanley put a fake coiled rattlesnake on the car seat. When Al came back to the car and saw the snake, he calmly found a hand axe and slashed the snake . . . slicing right through the seat of the government car!

A favorite topic for lengthy discussion with Stanley was his dilemma about whether mortar held bricks together or apart?

Stanley retired at the required age of 70, even though he wasn't ready to quit. Needing something to keep him busy, he and several retired friends joined the "Green Thumb" program. Together they built the "Caddie Woodlawn Home and Park" and the "Empire in Pine" museum along Hwy 25 in Dunn County.

Stanley Borm was truly an SCS technician to remember! Although anyone who has ever worked in the field could name many more technicians who formed the backbone and spirit of the Soil Conservation Service.

By Stanley Dingle, Retired SCS Design Engineer

Productive Farmlands

Soil conservation and land improvement for agriculture continued as the primary work of the agency for more than 40 years, from the 1940s through the 1980s, until evolving toward a broader natural resource mission beginning in the 1990s.



Careful selection of production sites is the first step in producing choice fruits and vegetables for the commercial market. Basic to the selection are soil and landscape characteristics to satisfy critical demands of the crops to be grown. Walter Raitanen (L), soil scientist for Libby and Frank Anderson State Soil Scientist of SCS, discuss merits of a proposed field location as indicated in an SCS comprehensive soil survey. WI-L-372-11 1970



Random tile drain system being installed in the Kewaunee-Manawa complex soils in micro-relief topography of the area along Lake Michigan. A grassed waterway is under construction through the middle of the farm. Picture is taken looking east. State Point Beach Forest and Lake Michigan in the background. Manitowoc County, WI Wis-1398 July 28, 1960 Photo E.W. Cole



Contour stripcropping on Kewaunee Silt Loam, Waushara County WI Wis-1406 1961 Photo: E.W. Cole

Watershed projects continue



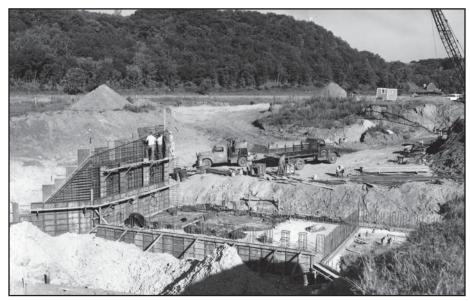
Bad Axe Watershed-One branch of Sidie Hollow which will impound water for flood control and recreation area. Conservation practices seen in the background will help prevent silting. Note how the valley floor has been destroyed from the numerous floods in the past years. Wi-317-4 1962



"If this streambank moves back another 10 feet as it did this spring," said John Bergh, "it will be eight feet into my barnyard. It all but toppled my fences along the bank this year as the water swirled around this bend of the Little Suamico River." WI-I-391-6

"A prosperous and enduring agriculture depends on an adequate supply of productive land, properly used and so protected from erosion that it will remain permanently productive." Hugh Hammond Bennett

1960s



Reinforced Concrete Drop Spillway construction, Bay City Watershed Placing steel and forms for concrete in Structure No. 2 Pierce County, WI 1962 Photo: B. Peterson



This water control structure and farm pond is on the 160-acre dairy farm of Alois Mashak. There are contour strips to the left. The contour strips in the background are on the Cathrine Clemons, Farm Coon Creek Watershed, Monroe County, WI Wis 1418 August 1963 Photo: E.W. Cole



View of terraces leading into grass waterway along the side of a recently completed spring pond. Marathon County, WI Wi-242-1 June 1961 Photo: E.W. Cole



Ernest Link (L) and Dr. Frances Hole filling bags with soil samples from the various horizons. Brown County, WI WI-L-219-14 1967 Photo F.M. Stone



Tobacco is south from the buildings. To the right of the grass waterway is grain and hay alternating.To the left is corn and hay. A drop inlet structure is next to the woodland at the far end of the photo.In the left foreground is pasture renovation.WI-318-12July 10, 1962Photo E.W Cole



Screens used by the engineers to seperate soil materials. Different sizes of soil and rock materials are visible in the screens. Brown County, WI WI-L-297-4 Photo F.M. Stone



Ditching and dike construction with a tile system for a pump drainage system on peat and muck soil Sheboygan County, WI WI-237-3 June 1961 Photo: E. W. Cole



Field density apparatus used for testing in-place density of soils using the sand funnel method. Work being done by Civil Engineering Technician Harland Gunderson, watched by contractor's workman. WI-197-8 1960



George Alley, SCS Woodland Conservationist, checking a nineyear old stand of Black Spruce Rusk County, WI WI-L-315-9 May 1969 Photo: A.H. Martinson



Elbert and Margaret Twist review their conservation plan with Work Unit Conservationist Phil Baun (center) Lake Geneva, Walworth County, WI WI-278-11 October 1961

Consider the Earth

Land Improvement or Resource Protection?

ad dame building bagan to close swith more comer

Drainage and dam building began to slow with new concerns about protecting ecosystems and restoring the ecology.

Fence Row to Fence Row

In the '70s, USDA Secretary Earl Butz encouraged farmers to plant fence row to fence row to feed a hungry world, and "get big or get out" was his advice to farmers.

SCS continued on with land improvement ~ removing fence rows, draining wetlands for cropland, working toward better yields for agriculture. As the environmental movement grew, SCS began to move toward broader natural resource protection and less single-minded focus on land improvement for agriculture.



State Conservationist W.W. Russell (L) and District Conservationist Harold Porter view new SCS sign Madison, WI May 1970



Earth Day

The environmental movement changed the way we approach the land. Wisconsin's own Gaylord Nelson had the vision and the leadership to establish Earth Day, which made environmental protection a major national issue.

National Environmental Policy Act

The National Environmental Policy Act (NEPA), signed into law on the first day of 1970, was short, simple, and comprehensive. It established a national policy to protect the environment, created a Council on Environmental Quality (CEQ), and required that a detailed written statements, now known as environmental impact statements, be prepared for major federal actions having a significant effect on the environment.

Red Clay Project

When President Kennedy flew into Duluth, he noted with concern the red clay plume flowing into Lake Superior, or so the story goes. In the Red Clay Project, SCS experimented with ways to stabilize the red clay soils along the south shore of Lake Superior. Many types of conservation practices were tried out, and many techniques attempted to stabilize the red clay streambanks and shorelines. In the end it proved extremely difficult to accomplish, and also impossible to coordinate the wide range of partners across state lines. A final report was issued in 1980.



Waterbank project with adjacent nesting cover.

Changing times

Pearlie Reed, one of the first black employees in Wisconsin, was hired in 1970 as a Soil Conservationist in Kenosha, worked in the Madison, and Sheboygan Falls Field offices, then moved on to administrative positions in the Madison State Office, then as State Conservationist in Maryland and California. Pearlie became the agency's 11th Chief and first African American Chief in 1998. He is currently USDA Assistant Secretary for Administration.

Water Bank – slowing wetland drainage

The Water Bank Program was the agency's first foray into preserving existing wetlands, instead of draining them. In addition, Water Bank sites restored the surrounding acres to wildlife habitat. Wisconsin had 1,000 10-year contracts, many of which were renewed for a second decade between 1972 and 1995.

Peg Whiteside, was the first woman engineer for the Soil Conservation Service in Wisconsin.

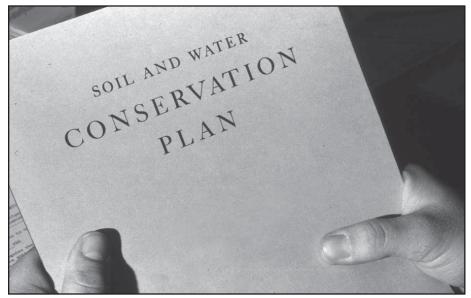


~ November 1977 ~ Congress passes the Soil and Water Resources Conservation Act to conserve, protect and enhance the nation's natural resources for future uses.

1970s



Kathryn Gorichan, hired in 1974 became Wisconsin's first woman District Conservationist in Antigo, Langlade County.



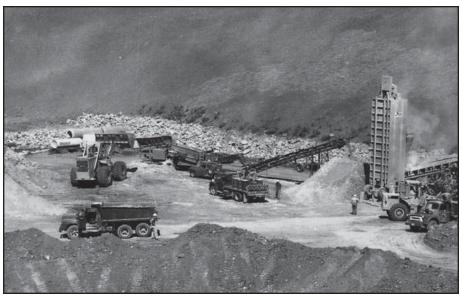
The conservation plan became the basis for all conservation work for the farm, the cooperators agreement and the record of resource concerns.



Landowner Herman Grass(L) discusses conservation plan with District Conservationist Roman Statz. WI-W-112-9 Sauk County 1977



Maurice Kroll, SCS aide running a ditch survey with a level WI-L-314-14 May 1970



Dam construction continues in Vernon County. Bad Axe soil cement plant set up for dam. WI-W-6-11 1974



Concrete slab for barnyard pollution abatement practice. Manure will be picked up from part of this slab and deposited in a stacker. Tongue and grooved 2 by 6 timbers will be nailed to the poles to provide for a manure stacking area. New Franken, Brown Co., WI WI WI-L-506-1 Nov.1972



Pollution Abatement. SCS Area Engineer Emerson Christensen and farmer Rudy Klug discussing pollution abatement type practice. Greenleaf, Brown County, WI November 1971 WI-L-489-16



An alluvual fan from a gully in Rosholt soils caused by spring runoff Portage, WI. WI-L-467-7 April 1972



Waterways safely remove excess water from a series of diversions. Door County, WI 1974 Photo: G. Link

Pine River Flood Protection

An Adventure in Flood Control

The City of Richland Center struggled with the financial and social decision to proceed with the Pine River dike project. The City was divided. No flooding had taken place within the city for decades, so townspeople did not see the need. Many felt those who made their choice to live by the river should not be subsidized to move out of the flood-prone area. And some residents in the dike corridor feared they would not be treated fairly by the Government in relocating their homes. Residents on the land side of the dike within the potential flooding area were anxious for the project to proceed so their properties would be protected.

Hard decisions were made and the project proceeded. A flood of about 50% of the dike design elevation did occur after one portion of the dike was completed. The residents saw clearly the value of the dike and support to complete the project never waivered again. Significant floods have occurred since the project completion and the dike has performed well. Development in the area protected by the dike has added to the economic development of the community.

by John Ramsden, State Conservation Engineer

An article from the Richland Center Newspaper, the Richland Observer. September 1982

It's a 100 to 1 Shot . . .

For the past several weeks, there has, been a series on these pages concerning a dike along Pine River through the city and the structures that are being installed in the smaller watersheds in the Pine River Watershed.

At this point, let it be understood that there is no argument here with David Foster, who was contracted to make the study that has come up with the solution of a dike, or with SCS Area Engineer John Ramsden, who has developed the plans for the dike.

Foster has been diligent in his effort to come to a point where a final report can be made of his study. He has held numerous meetings and interviews with people who live in the area of the city that are subject to flooding.

Ramsden has developed the plans for the dike that meet the requirements. He has carefully prepared the engineering data and has developed a concept designed for the specific purpose of eliminating the flood fringe line, which has been the prime objective from the beginning of the study.

These two people have performed their tasks and they can provide explicit descriptions and explanations for what they have done.

There is one very specific and definite problem with the whole concept that makes it extremely difficult to accept.

That problem is the rulings or standards which the Department of Natural Resources has forced upon the city.

The whole gist of the problem is that the DNR insists upon a standard that it has established.

There are, as a result, two kinds of floods. One is a wet flood and the other is a statutory flood.

The statutory flood is the one the DNR has determined, and it may occur once in 100 years. That's the actual definition, once in a 100 years.

The flood of '51, which was the city's most severe flood according to all records and memories available, doesn't even

qualify as a statutory flood by the DNR standards.

In making the requirements for flood protection against a flood which hasn't occurred, the DNR insists that a person be able to walk out of the flood fringe area without getting his or her feet wet.

There most probably would be no question that the proposed dike would provide that kind of protection from the river side. But at what cost?

\$7,307,500.

Sure, that money may come from other sources than the city's property tax or even the state income tax.

But you can bet your wet boots that it comes from tax dollars — federal tax dollars.

And while you are betting, you can figure the odds.

It's a 100 to 1 shot that the dike will never be tested.

That makes a pretty dear gamble any way you look at it.

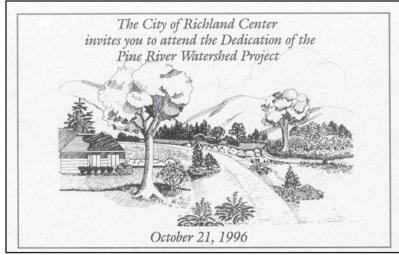
The Richland Observer, Sept. 23, 1982 - Sec. 1, Page 24



The project was designed with recreational interests in mind. The top of the dike is a biking and hiking path that is handicap accessible and is now a real asset to the city. A landscape plan was an essential part of the project.



Construction of the detention basin that intercepts stormwater from the steep hillsides of Richland Center.



Copy of the invitation to the dedication ceremony of the Pine River Watershed Project.



This concrete internal drainage channel intercepts storm runoff and safely carries it to an outlet in the Pine River.

Branching out

What Shall We Call This Thing?

RC&D was a concept initially conceived by Orville Freeman, John F. Kennedy's Secretary of Agriculture. He was 100 percent in support of the soil conservation district concept ... but he felt problems did not stop at county or district lines. He felt resource issues had an economic impact and could have more of an economic impact if people would work together. After a discussion between Freeman and Donald Williams, the 2nd Chief of SCS, Williams recalls "Freeman turned to me and said "What shall we call this thing?" I said, "Well, we have been talking about resources and conservation and development from the standpoint of labor opportunities and economic opportunities. Really what you are talking about here is the economic side of the results of conservation." He said, "Okay, let us call them RC&D projects." That was how they were named and that was a start."

~ September 1962 ~ The Resource Conservation and Development Program is created to advance community development and environmental protection in multi-county areas.

Pri-Ru-Ta is the first RC&D

Pri-Ru-Ta was one of the first four RC&Ds authorized in February, 1964 by Donald Williams, Administrator of SCS. (Note – H.H Bennett was "Chief" of SCS, but the title was changed in a 1953 departmental re-organization; Norm Berg changed the title back to Chief during his tenure.) *From Soil Conservation magazine, Vol. XXX*



The first Pri-Ru-Ta Council Board, 1962

The immediate priority the Pri-Ru-Ta Council was replacement of old logging dams. The dams, constructed before the turn of the century, were in various stages of failure. Some dams had already experienced catastrophic failure, only to be replaced by poorly designed concrete dams. SCS sent in engineers to rebuild the structures. The RC&D Program funds provided up to a half a million dollars annually in technical and financial assistance to Pri-Ru-Ta Council projects throughout the 1960's into the late 1980's. State Conservationist Richard Ackley, State Engineer Marvin Knabach, and Civil Engineer Duane Wallace were particularly helpful in those early years.

Those old wooden dams are all gone now, replaced with concrete and culverts or simply removed. Pri-Ru-Ta moved into forestry, nutrient management, ag product marketing, and livestock grazing, but the focus remains multi- county resource conservation and resources development projects with local sponsors, utilizing diverse funding sources to improve economic and environmental conditions in Wisconsin.

by Chris Borden, Pri-Ru-Ta RC&D Coordinator



Resource Conservation and Development (RC&Ds) Councils launched many lake building and lake improvement projects in the cause of tourism and economic development. RC&D and SCS helped develop lakes and ski hills, with surveying and mapping. SCS used every tool in the toolbox to build up the economy and tourism of northern Wisconsin through RC&D.

If one looks at a map of Northern Wisconsin, one sees many lakes, except in Rusk, Price, and Taylor counties. The Pri-Ru-Ta Council associated county wealth and development to lakes and tourism. They wanted lakes. They brought in engineers and soil surveyors to help with this endeavor. Yes, some old logging dams were looked at and replaced, most notably, Miller Dam in Taylor County was rebuilt to establish Chequamegon Waters Flowage. Many other lakes and flowages were built as well, to help the local economy and quality of life.

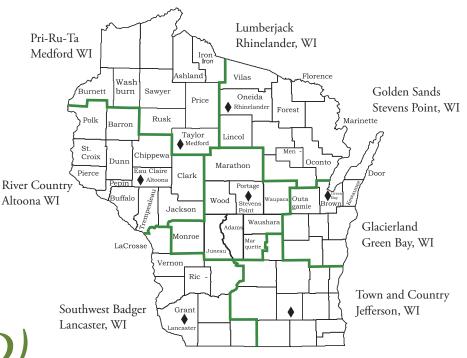
by Stan Dingle, 1st RC&D Engineer, Pri-Ru-Ta

Resource Conservation and Development (RC&D)

RC&Ds now serve all of Wisconsin

Pri-Ru-Ta was the first RC&D formed in Wisconsin and one of the first four in the nation. All Wisconsin counties are now in RC&D:

- *Pri-Ru-Ta* ~ 1964
- Lumberjack ~ 1968
- Golden Sands ~ 1972
- River Country ~ 1977
- Glacierland ~ 1994
- Southwest Badger ~ 1996
- Town and Country ~ 2002

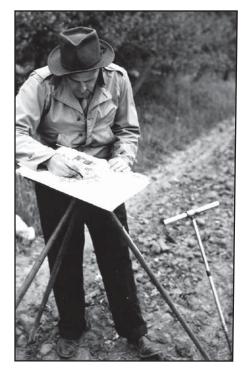


Soil is the foundation

"While the farmer holds the title to the land, actually it belongs to all the people because civilization itself rests upon the soil."

Thomas Jefferson

Soil surveyor R.E Reinke recording soil data. Wis-1232, 1947 Photo: Chet Gee



From the beginning, SCS was in the business of making soil surveys, as was the USDA Bureau of Soils, the University of Wisconsin and the Wisconsin Geological and Natural History Survey. In 1952, Congress designated SCS as the single agency in charge of the National Cooperative Soil Survey.

From the 1960 through the 1980s, soil survey crews hopscotched around the state as counties came up with funding. By 1992, most Wisconsin counties had complete or nearly complete soil survey, except for 10 counties in northwestern Wisconsin. A Memorandum of Understanding signed in 1992 led to a massive multi-partnered undertaking, which astonished everyone, and against all odds, completed the soil survey in the fall of 2005 and the digital survey of the state by June 30, 2006.

A Soil Scientist's Career Excerpts from Del Thomas

The starting salary was \$2,974/year (in 1949). The retirement benefits looked favorable however there was no life or health insurance at that time. There were nine field soil scientists, a state soil scientist, and a newly created assistant state soil scientist position. Being that I started in the winter I was assigned to developing soil conservation plans. Until the crops were planted I laid out conservation strips and helped design and install other conservation practices.

My initial soil survey training consisted of a two day session in saturated conditions in late March in the rain... In June I was detailed to Grant County for training and to help complete the soil survey of Grant County with a University of Wisconsin soil survey crew. Per diem for this three month detail was \$3.50/day.

In June of 1950, due to lack of funding, the soil position in Viroqua was abolished and I was transferred to Durand in Western Wisconsin. The District Conservationist there was Hal Smith who was a wonderful administrator. I worked on the soil survey of individual farms for conservation planning in Buffalo, Pepin, and Trempealeau Counties. Soil mapping was done on 1936 photos in some counties while others used 1938 photos for farm planning.

Since Buffalo County was about 2/3 mapped, State Soil Scientist William DeYoung decided to complete the county starting in the spring of 1954. All other counties in the area were given a ration of 2500 acres of soil survey per year. We would stay in private homes as there were no motels at that time.

During the winter months we wrote the soil reports for Buffalo and Pepin Counties. The SCS had not completed the format for a more modern soil survey report. Thus we had no published guidelines for writing these first two soil survey reports. A.J. Klingelhoets, new state soil scientist, was very helpful in suggesting and editing sections of the reports. These reports were typed and retyped many times as changes in concepts and usage was developed. Buffalo County was finally published in March of 1962 and Pepin County in March of 1964.



The Year of Soil 2006

In June, 2006, Wisconsin accomplished a monumental task. By that date, the entire state of Wisconsin had a complete soil survey, available on line with free, easy public access. In late fall, 2005, the soil mapping of the last 10 counties in northwest Wisconsin was completed. Those maps were finalized and digitized for a remarkable website called Web Soil Survey.

Soil mapping the entire state was not an easy task. USDA began mapping over 100 years ago, with the Racine County soil survey completed in 1906. The modern soil survey with larger scale maps began in the 1960's, and soil scientists with USDA's old Soil Conservation Service toiled on, making soil surveys and publishing them in large books, county by county, at a pace that would finish the state in about 2020. Many counties realized the value of knowing the potential and limits of the soil for land use planning and kicked in money to speed along their surveys. In 2000, the State of Wisconsin agreed to accelerate the pace even more, with \$4.6 million to help the NRCS finish the far northwest counties and produce a digital on-line state wide soil survey.



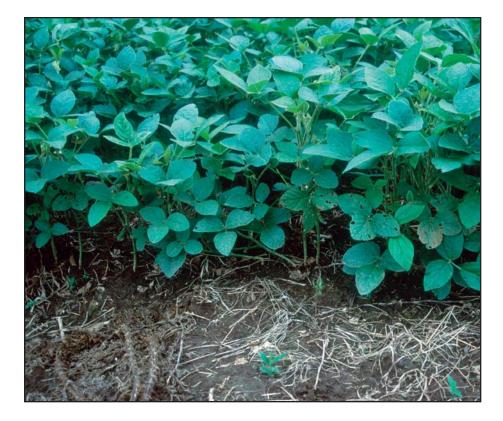




2006 was proclaimed by Governor Jim Doyle to be the Year of Soil in Wisconsin. On May 15, 2006, all Wisconsin soil surveys were completed - digitized, certified and available on-line through Web Soil Survey. A grand Soil Survey Celebration was held in the State Capitol May 16, 2006

The No-till Revolution

By the 1970s, innovative farmers were testing out all kinds of reduced tillage methods to save fuel, time and soil. SCS began working with the farmer-innovators: those who loved to experiment with hopes of saving time or money.



The No-Till Revolution needed teamwork to proceed – SCS sold the concept to farmers as we wrote conservation plans, but we needed research from the University of Wisconsin on techniques, and better chemicals and equipment from the industry. Farmers' big fear was getting laughed at for growing a weed patch where corn ought to be. We started with less drastic proposals, such as switching from moldboard plow to chisel plow or offset disk, which left a little residue on the surface; then to till-plant systems where a narrow area was tilled and planted at the same time; and then to no-till. It was a slow process to change farmers' mindsets, but by the 80's, conversion to conservation tillage was going full throttle.

Training was a huge process. At one farmer workshop in Eau Claire, we were prepared for and expected several hundred people, and were floored when 1500 showed up. This was in the very late 70's when milk prices were down and dairies were converting to cash grain.

Sure sign of success: You knew they were sold when you saw the moldboard plow out in the yard as a lawn ornament!

by Jim Enlow, State Agronomist and State Resource Conservationist, 1976–1997



Grassed waterways are an important conservation practice to convey runoff from terraces, diversions, or other water concentrations without causing erosion or flooding. These waterways also protect and improve water quality.



The amount of residue left on the field is measured by utilizing a residue rope.

1980s



In the early 80s, SCS worked hard on wind erosion control in the Central Sands, promoting windbreaks and buffers with limited success – a very tough sell.



Conservation tillage was economically cost effective.

The Farm Bills

Conservation Comes of Age

1985 Food Security Act was landmark legislation for conservation, establishing the concepts of Conservation Compliance, protection for fragile lands, and an option for land retirement. Several enduring conservation programs were created, including Sodbuster, Swampbuster, and the Conservation Reserve Program. This legislation completed the change in course of SCS to resource protection from land improvement. It also began the focus of SCS workload on programs and compliance.

Later farm bills built on the 1985 Farm Bill:

- 1990 Food, Agriculture, Conservation, and Trade (FACT) Act of 1990
- 1996 Federal Agriculture Improvement and Reform Act of 1996 extended the Conservation Reserve Program (CRP) and formed the Environmental Quality Incentives Program (EQIP).
- 2002 Farm Security and Rural Investment Act of 2002, added Conservation Security Program (CSP) to reward stewardship.
- Food, Conservation, and Energy Act of 2008



A stream crossing provides a path for livestock to travel to different fields while improving water quality and reducing streambank erosion.

Environmental Quality Incentives Program

EQIP became America's primary cost-sharing program for farmland conservation replacing the old Agricultural Conservation Program. In 1995, in Wisconsin, erosion control and livestock practices for water quality were the primary resource concerns. Over 65 percent of the \$16 million in EQIP funds were dedicated to livestock practices in 2009, a typical year.



CAMPS FOCS

ACP LTA RUSLE 1

A New Language

NR

FOTG

IMM

Computerization and office automation ushered in a new language and major cultural change in SCS. Word processing, email and simple office tools became common in the late 1980s. However, the huge potential of geographic-based data for conservation field offices began to blossom in the 1990s. Two early custom database applications, CAMPS (Computer Assisted Management Planning System) and FOCS (Field Office Computing System) began the march to automated conservation planning and contracting.

The ability to digitize soil maps and link them to soil data revolutionized soil surveys. SCS became custodian of the soils layer, an essential layer used in Geographic Information Systems (GIS).

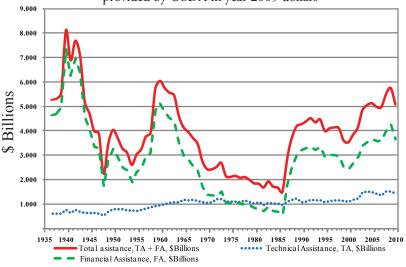
The adoption of new technologies including GIS and digital elevation modeling revolutionized both the production and delivery of soil survey information. Soil scientists now map directly on tablet computers instead of drawing on aerial photos with pencil and paper. Interactive websites allow anyone to access and utilize the extensive soils data and maps anywhere in the US. Acronyms and Programs Galore

At the same time, new programs sprouted out of the Farm Bills, all dubbed with acronyms that created an agency shorthand, but may also have added confusion for many farmers.

In 1980, SCS was responsible for 10 program areas; by 2010, NRCS was responsible for 34 program areas. The 2002 Farm Bill began a dramatic increase in financial assistance for conservation funding through NRCS.

USDA Funding 1936-2010*

Conservation Technical Assistance (TA) and Financial Assistance (FA) provided by USDA in year 2009 dollars



*The increase in funding in 1986 reflects the Conservation Reserve Program through the USDA Farm Service Agency.

Graph: courtesy of Douglas Helms, NRCS National Historian

MN

New Programs

A broader mission . . . NRCS

Conservation technology responded to consolidation in the dairy and livestock industry and growth of animal feeding operations. Manure management became a critical concern in Wisconsin.

In the 70's and 80's gas shortages pushed farmers to cut fuel costs, and avoid daily manure hauling. Dairies began to expand, with more cows on fewer acres. In the 1990s, with consolidation and expansion in the dairy and livestock industry, and growth of confined animal feeding operations (CAFOs), NRCS responded to growing concerns about water quality and manure management. The Nutrient Management Practice Standard called for balancing fertilizer and nutrients with actual crop needs, not yield hopes.

State non-point source laws and stronger well codes pressed farmers and conservationists to adopt new and better technology to protect water quality. NRCS conservation practice standards for manure management were constantly being revised – trying to keep pace with the livestock industry's needs. It also reprised the more holistic, 1930's style planning, where-in the number of cattle, feed sources, and acres became key to the "new" Comprehensive Nutrient Management Plan (CNMP).





Contour strips and manure spreading in Dane County, WI



Milking parlor and 300 cow dairy barn



Earl Cosby became the first African American State Conservationist for Wisconsin, serving from 1990 to 1994. He worked to implement a state reorganization and to launch Total Quality Management in Wisconsin before moving on as State Conservationist in Georgia.

Pat Leavenworth became the first woman to serve as Wisconsin State Conservationist in 1994. Pat's tenure was strongly shaped by the burgeoning role of the agency in implementing the new Farm Bill programs through frequent budget shortfalls. Building partnerships, customer service and outreach to under-served groups, particularly the Tribal Nations of Wisconsin, were her hallmarks as State Conservationist.

799()s





October, 1994, SCS is reborn as NRCS, and the raindrop logo restored.

The NRCS website evolved to become the primary mode of information communication for the agency. www.wi.nrcs.usda.gov 1996 ~ A Geography of Hope was published, providing a new direction of stewardship and restoration of the land.

Excerpts from the Geography of Hope

The Nation in 1935 made a national commitment to the stewardship of private land in the Soil Conservation Act. That Act, passed in the depth of the Dust Bowl, recognized the long term welfare of all Americans rested in the hands of farmers and ranchers struggling to keep their land from eroding away.

The land, water, air, plants and animals still require someone to speak for its health, and that responsibility remains a challenge for the NRCS. Indeed, no other agency speaks for the health and fate of America's private land.

A vision for the next century... We in NRCS have a vision...

- ... that farmers, ranchers, and all other private landowners understand that they have the care of the land in their hands.
- ... that our working land produces far more that grain and livestock it produces healthy soil, clean water, wildlife habitat, and pleasing landscapes to enrich the lives of rural and urban citizens alike.
- ... that local action and voluntary incentives based conservation is the most promising foundation for effective land stewardship.
- ... that the environment is a shared responsibility of urban and rural, public and private, federal state and local.

... That our nation will advance another step toward the state of harmony between land and people that we call conservation.

Preserve, Restore, Reduce

Farm Bill programs and funding in the 2000s put more focus on land use and water quality with programs and practices to:

- Preserve farmland
- Restore wetlands and wildlife habitat
- Reduce chemicals, nutrients and energy use

Farm and Ranch Lands Protection Program



The Farm and Ranch Lands Protection Program (FRPP) allows NRCS to help land trusts and other organizations to purchase agricultural easements on prime farmland, thus relieving the pressure on the farmer to develop the land, and securing the agricultural heritage that defines Wisconsin.

"Farmers have only temporary control over their land. It can be theirs for a lifetime and no longer. The public's interest, however, goes on and on, endlessly, if nations are to endure. Hugh Hammond Bennett

Wetlands Reserve Program



The Wetlands Reserve Program (WRP) accelerated toward large scale wetland restorations. Duffy's Marsh, a 1,700 acre restoration in Marquette County, was drained decades ago for cropping, and is now restored waterfowl and wetland habitat.



Turtle Valley Wildlife Area

This Wetlands Reserve Program project in Walworth County restored 1800 acres of high quality wetland complex. Restoration created habitat for waterfowl, sensitive grassland birds and threatened and endangered species.

Wildlife Habitat Incentives Program

The Wildlife Habitat Incentives Program (WHIP) retored thousands of acres of wildlife habitat for species in decline, including in-stream and streambank restorations, new for NRCS.





Carrying out an effective nationwide soil conservation program is not a simple matter in a large country of diversified characteristics and interests."

Hugh Hammond Bennett

Reduce – nutrients, pesticides

As a dairy and livestock state, nutrient management is the ongoing challenge to clean water. The NRCS Nutrient Management Standard 590 set the bar for the state goals and legislation for water quality.

2000s



Conservation Technical Assistance



Conservation Technical Assistance (CTA) is what sets NRCS apart...on-site technical assistance. "We cannot depend on windshield surveys and office planning to carry out a job of the complexity and magnitude of safeguarding our farmland and controlling floods." Hugh Hammond Bennett, 1959.

Environmental Quality Incentives Program



Environmental Quality Incentives Program (EQIP) is the primary vehicle to help farmers with structural and management practices on agricultural land. The program has grown and adapted to become the big tent that agriculture needs to encompass the conventional and the non-conventiional-organic, specialty crops, grazing, energy, tribal agriculture.

Grazing Lands Conservation Initiative



Grazing Lands Conservation Initiative (GLCI) provided many Wisconsin farmers with the key to the good life, an economically viable and environmentally sound farm operation. Photo: Barbara Jansen

Conservation Stewardship Program



The Conservation Stewardship Program (CSP) offered an entirely new approach... to reward good conservation farmers who care for the land.

Energy Conservation



Energy conservation and renewable energy production is again changing the face of agriculture, with NRCS program assistance.

Emergency Watershed Program



Torrential rains that fell in Vernon County in August 2007 are held back by the Duck Egg Dam, one of many constructed in the 1970's.



Jean Buffalo-Reyes, the first chairperson of the WTCAC.

NRCS's work with Wisconsin tribes began mainly in the 1990s and blossomed in the next decade. Dozens of successful projects have been accomplished with over \$1.6 million in funding for tribal conservation projects through the 2002 Farm Bill alone.

Projects range from simple well closures to protect groundwater, to broad campaigns to combat invasive species, to constructed practices to re-establish wild rice beds and sustain native food sources. Because of the uniqueness of tribal agriculture, NRCS worked to adapt existing conservation standards to these needs, such as Wild Rice Seeding, Pest Management for Aquatic Invasive Species, and Tree Drops for Fish Habitat.

Wisconsin Tribal Conservation Advisory Council

2001 - The Wisconsin Tribal Conservation Advisory Council (WTCAC) was organized in March 2001 to identify tribal conservation issues and to advise NRCS on more effective ways to deliver USDA programs to assist the eleven Indian Nations of Wisconsin. This Conservation Advisory Council, authorized in the 1995 Farm Bill, was the first such council formed in the country.



Invasive trees and brush were cleared and oak savannah prairie restored to bring these sacred conical burial mounds back to their original setting through a WHIP project with the Ho-Chunk Nation.

Dates in Conservation History

August 25, 1933 ~ The Soil Erosion Service (predecessor to the Soil Conservation Service) was established as a temporary organization in the U.S. Department of the Interior.





September 19, 1933 ~ Actual operation of the Soil Erosion Service began under the direction of Hugh Hammond Bennett.

October 10, 1933 ~ The Coon Creek Watershed Demonstration Project, near Coon Valley, Wis., was the first soil erosion control project established by the Soil Erosion Service. R. H. Davis was appointed Regional Director. Actual work started November 1933.





October 16, 1933 ~ Walter C. Lowdermilk entered on duty as Vice Director of the Soil Erosion Service. Lowdermilk authored the book, Conquest of the Land through 7,000 Years.

May 11, 1934 ~ First great duststorm.



June 30, 1934 ~ 2,200 persons employed in the Soil Erosion Service





March 6, 1935 - Second great duststorm.

March 25, 1935 – The Soil Erosion Service was transferred to USDA. This transfer included all funds, personnel, and property. Thirtynine of the original 40 erosion control projects established under the Department of the Interior, were in operation.

April 27, 1935 This act directed the Secretary of Agriculture to establish an agency to be known as the Soil Conservation Service, a permanent agency of the USDA.

June 30, 1935 ~ 6,622 employees in SCS.

February 27, 1937 ~ Franklin Roosevelt urged passage of state legislation to create soil conservation districts. The Wisconsin Soil Conservation District Law, (Chapter 92) passed in 1937 led to the establishment of conservation districts along county lines.





June 30, 1937 ~ 13,245 employees in SCS.

August 1954 - The Watershed Protection and Flood Prevention Act is enacted to help communities protect, improve, and develop watersheds.

Nov 15, 1952 ~ All soil survey activities of USDA placed under SCS.

1962 - Agriculture Act established the National Resource Conservation and Development Program (RC&D)

January 1, 1970 ~ The National Environmental Policy Act (NEPA) was signed into law to protect, maintain, and enhance the environment, and mandating these goals within federal agencies.





Water Bank Act of 1970 ~ first major effort to preserve wetlands in the important migratory waterfowl states.

October 1972, Clean Water Act becomes the cornerstone for surface water quality protection for the nation.

1982 - The Wisconsin Soil Conservation District Law, (Chapter 92) was revised, abolishing conservation districts and creating Land Conservation Committees (LCCs), a unit of county government.

Dec. 23, 1985 ~ Food Security Act was signed into law, the first farmbill to include a conservation title. Established CRP, WRP, Conservation Compliance, Sodbuster, Swampbuster.

October 20, 1994 ~ SCS was renamed the Natural Resources Conservation Service to reflect the broader mission of the agency. About 12,000 employees in NRCS.

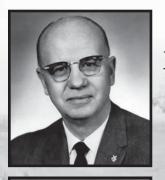


April 14, 1996 ~ Farmbill established the Environmental Quality Incentives Program (EQIP) and the Wildlife Habitat Incentives Program (WHIP).

2002 Farm Bill - Major changes for greater emphasis on conservation on working lands.

2006 - The entire digital soil survey of Wisconsin is completed.

State Conservationists



Marvin F. Schweers 1937-1962 Cliffton A. Maguire 1980-1989



William W. Russell 1962-1971 Duane Johnson 1989-1990





Richard Akeley 1971-1975 Earl Cosby 1990-1994





Jerome C. Hytry 1976-1980 Patricia S. Leavenworth 1994 - present



Final Words...



"The success of that demonstration project rang the bells around the world and they were not the bells that tolled the doom of progress, but rather those that tolled for better things for the land that people live by."

H.H. Bennett. July 1953

"Wisconsin Conservation History" is a wonderful account of the SES/SCS/NRCS legacy in this state from our Coon Creek Watershed beginnings to our present array of conservation programs, watershed initiatives, RC&D endeavors and natural resource inventories. This will be one of many testimonials to all of Wisconsin's great conservationists - those who dedicate their lives for healthy natural resources, healthy people and healthy communities. Our third workforce generation is now poised to take over the reins in Wisconsin. I am confident that these young professionals have ample diversity and skills needed to competently carry the agency into the next hundred years. There will be many foreseen and unforeseen challenges and new problems to solve. With them rides much hope for continued conservation successes where the bells will toll for "better things for the land that people live by."

Yours in conservation,

Patricia & havenworth

Patricia S. Leavenworth State Conservationist July 2010

"Everything we do, all we share, even whatever we amount to as a great and enduring people, begins with and rests on the sustained productivity of our agricultural land."

Hugh Hammond Bennett

A Legacy of Conservation

Celebrating 75 years of Helping People Help the Land

2010