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Soil and Water Conservation Issues

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CONTENTS

SUMMARY

MOST RECENT DEVELOPMENTS

BACKGROUND AND ANALYSIS

Evolution of Federal Resource Conservation Issues

Current Major Conservation Activities Conservation Reserve Program (CRP) Conservation Compliance and Sodbuster Wetlands and Agriculture **Cost-Sharing Assistance** Selected Other Conservation Activities Conservation Technical Assistance (CTA) Watershed Programs Resource Conservation and Development (RC&D) Farmland Protection Program (FPP) Forest Incentive Program (FIP) Wildlife Habitat Incentives Program (WHIP) **Emergency Programs** Water Quality Programs and Initiatives Private Grazing Lands Program Air Quality Activities **Research and Technical Activities** Other Conservation Programs and Provisions in the 2002 Farm Bill Implementing the 2002 Farm Bill Conservation Provisions Appropriations

LEGISLATION

CONGRESSIONAL HEARINGS, REPORTS, AND DOCUMENTS

FOR ADDITIONAL READING

Soil and Water Conservation Issues

SUMMARY

Conservation is a prominent topic in the FY2002 farm bill, signed into law on May 13, 2002 (P.L. 107-171). Title II reauthorizes and amends most existing conservation programs and enacts several new ones through FY2007. Other titles also contain some conservation provisions. Agencies at the Department of Agriculture are implementing these programs.

This farm bill will greatly increase conservation spending. The Congressional Budget Office estimates that it provides \$9.2 billion in new mandatory budget authority above the April 2001 baseline through FY20-07 for conservation programs. This amount is slightly more than the House-passed bill would have provided, but considerably less than the Senate bill would have provided.

Title II makes numerous changes to the conservation effort. It enacts the Conservation Security Program to provide payments to producers who apply conservation practices on working lands, starting in FY2003. Other new programs will retire grasslands, address surface and ground water conservation needs, address conservation issues in certain regions, permit approved third parties to supplement federal capabilities to provide conservation assistance, and (in the forestry title) replace existing programs with a new assistance program. It greatly expands many conservation programs. Funding will grow for; the Environmental Quality Incentives Program (from \$200 million annually to \$1.3 billion in FY2007), the Farmland Protection Program (from a total of \$35 million to \$125 million annually starting in FY2004), and the Wildlife Habitat Incentive Program (from a total of \$50 million to \$85 million annually starting in FY2005). Enrollment ceilings were raised for the Conservation Reserve Program (CRP) (from 36.4 million acres to 39.2 million acres) and the Wetlands Reserve Program (from 1,075,000 acres to 2,275,000 acres).

Two agencies in the Department of Agriculture are implementing most of these programs, which continue to be based on providing incentives to attract voluntary participants. The Natural Resources Conservation Service (NRCS) provides technical assistance and administers many of the smaller cost-sharing programs, and the Farm Service Agency (FSA) administers the most expensive program (the CRP) and emergency programs.

As both agencies implement the farm bill, controversies can be anticipated when the Administration's interpretation of the law's intent differed from that of interested Members of Congress. Both agriculture committees may respond by holding oversight hearings. In addition, appropriators may have some influence on implementation through their actions on agriculture appropriations in FY2003 and beyond.

MOST RECENT DEVELOPMENTS

President Bush signed the farm bill into law on May 13, 2002 (P.L. 107-171, H.R. 2646). The bill, titled the Farm Security and Rural Investment Act of 2002, authorizes most conservation programs through FY2007 in Title II, and authorizes \$9.2 billion over in new budget authority through FY2007 for mandatory spending on these programs. Provisions in this law add new programs to the conservation effort, and amends and greatly expands funding for most existing programs.

Agencies at the Department of Agriculture, primarily the Natural Resources Conservation Service and the Farm Services Agency, are implementing provisions. Some implementation issues may become contentious if agencies at USDA proceed in ways that are at odds with congressional or interest group expectations.

Congress will continue considering FY2003 appropriations legislation when the 108th Congress convenes.

BACKGROUND AND ANALYSIS

Evolution of Federal Resource Conservation Issues

Conservation of soil and water resources has been a public policy issue for more than 60 years, an issue repeatedly recast as new problems have emerged or old problems have resurfaced. Two themes involving farmland productivity dominated the debate until 1985. One was to reduce the high levels of soil erosion, and the other was to provide water to agriculture in quantities and quality that enhance farm production.

Congress responded repeatedly to these themes by creating new programs or revising existing ones. These programs that were designed to benefit the farmer and agriculture by reducing resource problems on the farm. These programs combined voluntary participation with technical, educational, and financial assistance incentives. By the early 1980s, however, concern was growing, especially among environmentalists, that these programs were inadequate in dealing with environmental problems caused by agricultural activities (especially off the farm), even those caused by widely accepted practices. Publicized instances of significant problems, especially soil erosion rates said to rival the dust bowl era, increased awareness and intensified the policy debate.

Congress responded, in a watershed event, by enacting four major new conservation programs in the conservation title of the 1985 Food Security Act. One of these programs, the Conservation Reserve (CRP), greatly increased the federal financial commitment to conservation and targeted federal funds at some of the most severe problems by retiring land under multi-year contracts. The other three, sodbuster, conservation compliance, and swampbuster, created a new approach to conservation, by halting producer access to many federal farm program benefits if they did not meet conservation program requirements for highly erodible lands and wetlands. Provisions enacted in the next farm bill, in 1990, reflected a rapid evolution of the conservation agenda, including the growing influence of environmentalists and other non-agricultural interests in the formulation of conservation policy, and a recognition that agriculture was not treated like other business sectors in many environmental laws. Congress expanded this agenda to address groundwater pollution, water quality, and sustainable agriculture, and allowed for the use of easements, as well as amending existing programs. Amendments to the CRP reflect these changes; its earlier focus on highly erodible land shifted to give greater emphasis to environmental concerns.

Prior to the Republican congressional takeover in 1994, conservation policy discussions centered on: (1) how to build from conservation initiatives enacted in previous farm bills; (2) how to secure more dependable funding for programs at a time when reducing the federal deficit was a major priority; and (3) how to incorporate new concepts for resource management at scales larger than individual farms, called landscapes, watersheds or ecosystems. The takeover shifted the focus to identifying ways to make the conservation compliance and swampbuster programs less intrusive on farmer activities. It also reduced the influence of environmental interests in developing conservation policy. After President Clinton vetoed the initial farm bill that Congress had attached to the omnibus reconciliation legislation in December 1995, Congress passed a free-standing farm bill early in 1996. The Senate Agriculture Committee staff drafted the conservation title, which greatly expanded on the vetoed legislation. The enacted bill restored much of the environmental focus that had been left out of earlier versions, with considerable attention to wildlife. (For an overview of conservation provisions in the 1996 farm bill, see CRS Report 96-330, *Conservation Provisions in the Farm Bill: A Summary.*)

The role of conservation has continued to evolve since 1996. The debate over conservation in the 2002 farm bill was framed in terms of: (1) increasing funding; (2) creating new programs and addressing new issues; (3) providing more conservation on land that is in production; and (4) using funding for conservation programs to meet world trade obligations. Specific conservation provisions amending old programs enacted in Title II are discussed below, followed by new programs, then implementation activities. (Other provisions that could be categorized as conservation can be found in many titles, especially those addressing research, forestry, and energy.) For detailed information about the enacted provisions in Title II, including how they compare with the House and Senate-passed bills and prior law, see CRS Report RL31486, *Conservation Title of the 2002 Farm Bill: A Comparison of New Law with Bills Passed by the House and Senate, and Prior Law*.

The Administration had limited formal involvement in the development of this farm bill. It released a set of principles for the farm bill on September 19, 2001. It drew on these principles when it issued an Administration policy letter on October 3, 2001 that was critical of aspects of H.R. 2646 and a letter on December 4, 2001, that was critical of aspects of S. 1731. Principles it sought for conservation included:

- ! Sustain past environmental gains;
- ! Accommodate new and emerging environmental concerns;
- ! Design and adopt a portfolio approach to conservation policies;
- ! Reaffirm market-oriented policies;
- ! Ensure compatibility of conservation and trade policies;
- ! Coordinate conservation and farm policies; and
- ! Recognize the importance of collaboration with conservation partners.

Current Major Conservation Activities

USDA's conservation effort, while diverse, have centered in recent years on implementing the Conservation Reserve Program (CRP), the Environmental Quality Incentives Program, compliance programs, and wetland protection programs. USDA will adjust this effort to reflect the altered mix of activities enacted in 2002. By FY2007, when the current law expires, the size of the overall conservation effort will be much larger and program emphasis may move away from land retirement and from programs that support traditional row crop production. Conservation activities will continue to be centered in the Natural Resources Conservation Service (NRCS), which provides technical assistance to producers and administers most of the programs, and by the Farm Service Agency (FSA) which provides cost-sharing assistance and administers the CRP.

Conservation Reserve Program (CRP)

Under the CRP, producers can bid to enroll highly erodible or environmentally sensitive lands into the reserve during signup periods, retiring it from production for at least 10 years. Successful bidders receive annual rental payments, and cost-sharing and technical assistance. Enrollment was limited to 36.4 million acres, and to 25% of the crop land in a county. USDA announced that 33.9 million acres were enrolled in an October 1, 2002 press release. About 135 counties, concentrated in the high plains, have reached the county enrollment limit. Funding is mandatory spending.

USDA estimates that the average erosion rate on enrolled acres was reduced from 21 to less than 2 tons per acre per year. Retiring these lands also expanded wildlife habitat, enhanced water quality, and restored soil quality. The annual value of these benefits has been estimated from less than \$1 billion to more than \$1.5 billion; in some regions where there is heavy participation, estimated benefits exceed annual costs. However, the General Accounting Office and others have criticized the potentially ephemeral nature of these benefits, because the landowner is under no obligation to retain them after contracts expire. Prior to the 2002 farm bill, annual CRP expenditures were about \$1.5 billion or more, close to half of all USDA conservation expenditures.

The Department held one open enrollment period each year between FY1997 and FY2000. Since FY2000, it has not offered another general opportunity to enroll land because relatively few contracts have been ending. By November 2002, 31.7 million acres had been enrolled this way. It continues to enroll land in three other ways. One of these allows continuous signup for individuals who wish to enroll portions of fields with particularly high environmental values. FSA reported that through December 2002 almost 1.8 million acres have been enrolled, with about one-third of these acres in Iowa and Illinois. The conservation practice that has received the most attention is buffer strips along water bodies. NRCS started an initiative in 1997 to enroll 2 million miles of buffer strips by 2002, and estimates that over 750,000 miles have been enrolled. In April 2000, the Department announced incentives to attract more participation: paying signing bonuses; increasing costshare payments for cover crops and making maintenance payments on buffers; and increasing payments on pasture. It estimated these payments could total up to \$350 million over 3 years.

The second way is a state-initiated enhancement program, under which higher rents are paid to attract eligible land. Maryland, the first state to implement an approved program starting in October 1997, is trying to enroll 100,000 acres of stream buffers, restored wetlands, and highly erodible lands along streams in a portion of the Chesapeake Bay Watershed. (Before this program, less than 20,000 acres had been enrolled, and more than 37,000 acres have been enrolled under this option.) The Maryland program will cost the state \$25 million and the federal government \$170 million. Today, 24 states have approved enhancement programs (including two programs in two of the states), and three additional states and an Indian tribe have submitted proposals. FSA data show that almost 445,000 acres had been enrolled through December 2002, and with more acres (108,000) in Illinois than in any other state.

A third way to enroll land outside the general enrollment periods was created when Congress authorized a new pilot program to enroll up to 500,000 acres of small, isolated farmable wetlands in six upper Midwestern states in Title XI of the FY2001 Agriculture Appropriations legislation. USDA offers signup bonuses to attract participation. Signup started in June 2001, and almost 70,000 acres had been enrolled by November 2002.

NRCS provides technical assistance in support of CRP, but the 1996 farm bill placed a cap on the portion of funding from the CCC that can be used to reimburse agencies for services provided to deliver CCC programs. These funds have been insufficient to pay all related technical assistance costs in recent years, and in FY1999, NRCS briefly suspended CRP-related activities. The FY1999 Supplemental Appropriations (P.L. 106-31) and FY2001 Agriculture Appropriations (P.L. 106-387) provided additional funds, and provisions in the 2002 farm bill have sought to eliminate the problem.

A new CRP concern was raised in March 2000 when the Sixth U.S. Circuit Court of Appeals reversed a 1996 federal tax court ruling and required that farmers must pay a 15.3% self-employment tax on CRP payments. Program supporters fear the ruling could have a chilling effect on participation. Legislation to overturn the ruling has been reintroduced, but as tax legislation, it would not be considered by the agriculture committees and was not considered in the farm bill. (For more information on this issue, see CRS Report RS20564, *Conservation Reserve Payments and Self-Employment Taxes*, and for CRP generally, see CRS Report 97-673, *Conservation Reserve Program: Status and Current Issues*.)

Section 2101 of the 2002 farm bill reauthorizes the CRP through FY2007 and raises the enrollment cap from 36.4 million acres to 39.2 million acres. Also, only land that was cropped 4 of 6 years preceding enactment will be eligible, thus making it more difficult to cultivate land primarily to gain access to the program. It makes the 6-state pilot program to retire small, isolated farmable wetlands a national program, with an enrollment ceiling of 1 million acres within the total enrollment cap. Some economic uses of enrolled lands will be permitted, including managed haying and grazing, and construction of wind turbines, with a reduction in annual rental payments.

Under prior law, all economic uses of CRP law were prohibited, and under the 2002 law, only a few specified uses will be permitted. An exception is made for natural disasters, where emergency haying and grazing can be allowed in designated counties in return for reduced payments. Drought was widespread in FY2002, and USDA permitted emergency haying and grazing on all land enrolled in the CRP, subject to certain limitations to protect

the values derived from lands enrolled in the CRP. USDA extended the option of emergency grazing in four states through the end of the calender year.

Conservation Compliance and Sodbuster

Under sodbuster provisions, established in the 1985 farm bill, producers who cultivate highly erodible land (HEL) not cultivated between 1981 and 1985 are ineligible for most major farm program benefits, including price supports and related payments. These benefits are lost for all the land the farmer operates, not just for the HEL. A smaller penalty can be imposed on producers once every 5 years if circumstances warrant. Producers who cultivate highly erodible land using an approved conservation plan are not subject to these provisions. The 1996 farm bill revised these provisions in ways that increased producer flexibility.

Under conservation compliance, also established in the 1985 farm bill, producers who cultivate HEL lose the same program benefits as sodbusters unless they obtained an approved conservation plan by 1990 and had fully implemented it by the end of 1994. As under sodbuster, benefits are lost for all the land the non-complying farmer operates, and graduated penalties are available once every 5 years. Any person who had HEL enrolled in the CRP has 2 years after a contract expires to be fully in compliance (or longer if the Secretary determines that 2 years is insufficient).

According to 1997 data compiled by NRCS, producers were actively applying plans on more than 97% of the tracts of land that were reviewed. NRCS estimates that soil erosion on these acres is being reduced from an average of 17 tons per year to 6 tons per year. More generally, a 1997 national survey of erosion rates taken by NRCS, showed that cropland erosion totaled about 1.9 billion tons per year. This decline in the annual rate of almost 1.4 billion tons from the 1982 survey is attributed mostly to the compliance and CRP programs.

Critics, primarily from the environmental community, have contended that USDA staff has not vigorously enforced conservation requirements. The Inspector General and the U.S. General Accounting Office also have been critical of the implementation effort. Others, primarily from the agriculture community, have countered that the Department has been too vigorous, and was inconsistent in its enforcement from state to state, especially in the early years. Many of the agriculture community concerns were addressed in the 1996 farm act. (For more background on the compliance programs, see CRS Report 96-648, *Conservation Compliance for Agriculture: Status and Policy Issues.*)

Section 2002 of the 2002 farm bill prohibits the delegation of authority by USDA to other parties to make highly erodible land determinations.

Wetlands and Agriculture

Swampbuster and the Wetlands Reserve Program (WRP) have been the main agricultural wetland protection programs, and an expanded small, isolated farmable wetlands program was added in the 2002 farm bill, discussed above. Under swampbuster, farmers who convert wetlands to produce crops lose the same federal farm program benefits as would be lost under conservation compliance or sodbuster until the wetland is restored. Swampbuster includes four major exemptions, and also allows a partial penalty once every 10 years.

Swampbuster has been controversial since it was first enacted. Some from the farm community view wetland protection efforts on agricultural lands as too extensive or overzealous. They observe that it sometimes protects sites that appear to provide few of the values attributed to wetlands. A portion of this group also view these efforts as an unacceptable intrusion of government into the rights of private property owners, or "takings." Environmental and other groups counter that the swampbuster program has been enforced weakly and inconsistently, with few violators losing farm program benefits. Controversies also arise over inconsistencies, such as when adjoining states use different interpretations of rules that lead to different determinations. Such a controversy arose in 1999 between South Dakota and Minnesota.

Some concerns raised by the agricultural community were thought to have been addressed when a Memorandum of Agreement (MOA) making NRCS responsible for all federal wetland determinations on agricultural lands under swampbuster and the Clean Water Act's §404 Program was signed by NRCS, the U.S. Army Corps of Engineers, the U.S. Fish and Wildlife Service, and the U.S. Environmental Protection Agency (EPA) on January 6, 1994. But aspects of implementation have proven controversial. These agencies have been unable to revise the MOA to reflect changes in the 1996 farm bill.

A new issue for agriculture was raised when the Supreme Court determined, in *Solid Waste Agency of Northern Cook County (SWANCC) v. U.S. Army Corps of Engineers* (January, 2001) that the §404 wetland permit program should not apply to "isolated waters." One result is that an estimated 8 million acres of agricultural wetlands that had been subject to the §404 program will now be subject only to swampbuster. Some of these wetlands (up to 1 million acres) may now be protected under the new farmable wetland component of the CRP. For more information on this decision, see CRS Report RL30849, *The Supreme Court Addresses Corps of Engineers Jurisdiction Over "Isolated Waters": The SWANCC Decision.*)

The second wetlands program, the WRP, was established in the 1990 farm bill. It uses permanent and temporary easements and long-term agreements to protect farmed wetlands. By the end of FY2001, enrollment has reached the cap of 1,075,000 acres, with almost 35% of that total in 3 states: Louisiana, Mississippi, and Arkansas. Permanent easements account for almost 90% of the total. The Secretary is permitted to delegate the administration of easements to other federal or state agencies that have the necessary expertise. Since 1996, appropriators have limited enrollment most years. In addition to the annual appropriations, emergency funding was provided to enroll lands flooded in 1993 in the upper Midwest. (For more information about wetlands, see CRS Issue Brief IB97014, *Wetland Issues*, updated regularly.)

Section 2002 of the 2002 farm bill prohibits USDA from delegating the authority to make wetland determinations to other parties. Section 2101 creates a national program to retire small isolated agricultural wetlands, as described above in the CRP discussion. Section 2201 amends the WRP to reauthorize the program through FY2007 and increases the enrollment ceiling to 2,275,000 acres, while limiting enrollment to 250,000 acres per year.

Cost-Sharing Assistance

Over the past several decades, Congress has enacted cost-sharing programs that provide financial incentives to induce farmers to participate in conservation efforts. These programs pay a portion of the cost of installing or constructing approved conservation practices. Before 1996, the largest of these programs, by far, had been the Agricultural Conservation Program (ACP), administered by the FSA and funded at between \$175 and \$200 million annually.

The 1996 farm act replaced the ACP and three smaller cost-sharing programs) with the Environmental Quality Incentives Program (EQIP). EQIP is a mandatory spending program which supports structural, vegetative, and land management practices. Annual funding was authorized at \$200 million, and half the funding was to address the needs of livestock producers. A plan was required to participate. Each contract was limited to \$10,000 annually and to \$50,000 in total. Contracts were 5 to 10 years in length. Large livestock operations, defined in regulations by USDA, were ineligible for contracts to construct animal waste management facilities. The law required USDA to designate priority areas in each state for more concentrated attention; USDA allocated at least 65% of the funding to these areas in each state.

Interest in participation has far exceeded available funds. For FY2000, for example, NRCS received about 54,000 applications requesting \$402 million, but was only able to sign 16,000 contracts, with a total cost of almost \$177 million. These contracts provided \$140 million in financial assistance, \$33 million in technical assistance and almost \$4 million in educational assistance. The Clinton Administration repeatedly sought higher funding levels (but did not submit the needed authorizing legislation). Congress rejected these proposals and usually limited funding to less than \$200 million prior to FY2001, when it provided full funding in omnibus appropriations legislation (P.L. 106-554). (For further information on the early implementation of EQIP, see CRS Report 97-616, *Environmental Quality Incentives Program (EQIP): Status and Issues*, last updated March 2, 1998.)

Section 2301 of the 2002 farm bill reauthorizes EQIP through FY2007. It gradually increases annual funding from \$200 million to \$1.3 billion in FY2007. It eliminates the use of priority areas. Participants will receive funding in the first year of a contract, rather than having to wait until the year after the date of enrollment. The large livestock operation funding prohibition for animal waste management facilities is eliminated. The total of all EQIP payments a producer or entity can receive, combined, is \$450,000 through FY2007. Contracts can be as short as 1 year. Producers with comprehensive nutrient management plans are eligible for incentive payments, and producers receiving funding for animal waste manure systems must have these plans. Cost share assistance can be higher for beginning and limited resource producers. The Department can use a portion of EQIP funds in FY2003 through FY2006 for innovative grants, such as fostering markets for nutrient trading. Additional funds, starting at \$25 million in FY2002 and growing to \$60 million in FY2004 are provided for a new ground and surface water conservation program within EQIP. In addition, \$50 million is earmarked for the Klamath River basin and is to be provided as soon as possible.

Selected Other Conservation Activities

The conservation includes many additional activities and programs. The list below includes only conservation activities in USDA that are administered by NRCS and FSA. Several other USDA agencies also make significant contributions to the conservation effort; examples include the Agricultural Research Service, which conducts research on numerous conservation topics; the Economic Research Service, which provides analysis of many conservation topics and played a major role in developing the Environmental Benefits Index used to compare CRP bids; and the Forest Service, which conducts research on forest and tree topics and administers programs to enhance timber stands on private lands. The many programs that are authorized but are not being implemented are not included.

Conservation Technical Assistance (CTA). NRCS provides technical assistance on a voluntary basis to conserve and improve natural resources. Technical assistance is a component of most conservation programs, and the cost of providing it has amounted to just under \$1 billion annually in recent years, according to the NRCS. Almost two thirds of this funding is found in the Conservation Operations line item. NRCS has characterized technical assistance as the "intellectual capital" of the agency, allowing it to combine its scientific and technical expertise with knowledge of local conditions.

A subsection of section 2701 of the 2002 farm bill provides that funding for technical assistance in support of each mandatory program come from the funding provided by the CCC for that program. Another subsection authorizes the Secretary to establish a program to certify qualified third parties to provide technical assistance.

Watershed Programs. NRCS has worked with local sponsors under several authorities to construct more than 10,500 structures to prevent floods, protect watersheds, control erosion and sediments, supply water, improve water quality, provide recreation opportunities, enhance habitat, and create or restore wetlands.

A rehabilitation program for aging small watershed structures, authorizing appropriations of up to \$90 million over 5 years was enacted in the Small Watershed Rehabilitation Amendments of 2000 (\$313 of P.L. 106-472). The law permits federal funds to pay for 65% of rehabilitation projects, with the remainder coming from local sponsors, and requires that projects meet National Environmental Policy Act requirements. NRCS released a status report in June, 2000.

Section 2505 of the 2002 farm bill authorizes mandatory funding for the rehabilitation program, rising from \$45 million in FY2003 to \$65 million in FY2007, and authorizes additional appropriations, rising from \$45 million in FY2003 \$85 million in FY2007.

Resource Conservation and Development (RC&D). RC&D provides a framework for local interests to work together to improve the economy, environment, and living standard in multi-county areas through RC&D Councils. USDA provides technical and financial assistance to councils, and helps them secure funding and services from other sources. NRCS states that 368 areas encompassing more than 85% of the counties in the country have been designated.

Section 2504 of the 2002 farm bill permanently reauthorizes the program, and makes numerous technical amendments.

Farmland Protection Program (FPP). The 1996 farm bill authorized USDA to assist state and local governments to acquire easements to limit conversion of agricultural lands to nonagricultural uses. The program was allocated \$35 million from the CCC to protect between 170,000 and 340,000 acres of farmland. Eligible lands must be subject to a pending offer. From FY1996 through FY1998, \$33.5 million was obligated in 19 states to place easements on 127,000 acres on 460 farms with an estimated easement value of \$230 million. Congress provided an additional \$17.5 million in FY2001. The 2001 legislation also made certain private nonprofit organizations eligible to compete with state and local governments for these funds. These funds were used to protect about 28,000 acres in 28 states in FY2001. Demand to participate has greatly exceeded available funds.

Section 2503 of the 2002 farm bill increases annual mandatory funding from \$50 million in FY2002 to a high of \$125 million in FY2004 and FY2005. The definition of eligible land is expanded to include rangeland, pastureland, grassland, certain forest land, and land containing historic or archeological resources. The program will be subject to conservation compliance. Certain private nonprofit organizations can participate. It also authorizes appropriations for grants to carry out new farm viability programs. The \$50 million spent in FY2002 protected almost 100,000 acres in 41 states; less than \$3 million was spent in every state.

Forest Incentive Program (FIP). FIP, a line item in the NRCS budget, provides technical and financial assistance to help landowners install practices such as tree planting and timber stand improvement on non-industrial private forest lands. While forestry and farm conservation issues can be closely related, all other programs for forests on private lands are administered by the Forest Service. (For more information on FIP and related programs, see CRS Report RL31065, *Forestry Assistance Programs*.)

Section 8002 of the 2002 farm bill eliminates FIP and the Forest Service's Stewardship Incentive Program, replacing them with a new Forest Land Enhancement Program, to be funded with a total of \$100 million in mandatory funding between the date of enactment and the end of FY2007. The new program will be administered by the Forest Service.

Wildlife Habitat Incentives Program (WHIP). WHIP was authorized in 1996 to use a total of \$50 million from mandatory funds allocated to the CRP to provide cost sharing and technical assistance for conservation practices that primarily benefit wildlife. The FY1998 appropriations obligated \$30 million, and the remaining \$20 million was obligated in FY1999. More recently, Congress provided additional conservation funding for FY2001, and the Department allocated \$12.5 million to WHIP. Interest in this program has greatly exceeded available funding.

Section 2502 of the 2002 farm bill provides \$15 million in FY2002, growing to \$85 million in FY2005 and thereafter. It provides that up to 15% of the funding each year can be used for higher cost sharing payments to producers whom protect and restore essential plant and animal habitat under agreements of 15 years or longer.

Emergency Programs. The Emergency Watershed Program (EWP) is administered by the NRCS and the Emergency Conservation Program (ECP) is administered by the FSA. The EWP provides technical and cost sharing assistance for projects that restore land after flooding and protect it from future damage. The ECP provides cost-sharing and technical assistance to rehabilitate farmland damaged by natural disasters, and to carry out emergency water conservation measures during severe drought.

The 2002 farm bill does not amend emergency conservation programs. The Department announced on September 16, 2002, that it would release \$94 million in the EWP to 34 states in response to wildfires and other natural disasters.

Water Quality Programs and Initiatives. Groundwater and nonpoint pollution have emerged as major issues for conservation policy as more instances of contamination in which agricultural sources play major roles have been identified. Specific instances that drive public interest and concern range from a very large hog farm waste spill in North Carolina to the outbreak *Pfiesteria* and fish kills in portions of the Chesapeake Bay and a large "dead zone" in the central Gulf of Mexico. Questions are being raised about the extent of the problems, the severity of the potential threat to human health, the adequacy of government programs, and the contribution of agriculture. In some cases, contamination may have resulted even though producers followed accepted agricultural practices, and did not commit illegal acts. Current conservation programs that are used to address water quality concerns center on the EQIP program, plus both the Enhancement Program (CREP) and the continuous enrollment option under CRP.

NRCS released proposed revisions to its nutrient management policy, which are designed to help the farm community more effectively address these topics, on June 30, 1998. USDA and EPA released a "unified national strategy for animal feeding operations." on March 9, 1999. Elements in the strategy are controversial because it would greatly expand the number of animal operations at which nutrient management plans would be required. In early August 1999, EPA released a long-awaited draft plan for issuing Clean Water Act permits, which is required under court order. Large operators will be required to develop comprehensive nutrient management plans while smaller operators will be encouraged to develop them. EPA and USDA announced the final rule in mid December 2002. Farm interests were generally pleased because it will affect less producers and cost less when compared with earlier proposals.

Limiting total maximum daily loadings (TMDLs) is another approach to cleaning polluted waterways authorized under the Clean Water Act. Congress included a rider in H.R. 4425, the FY2001 Military Construction and FY2000 Urgent Supplemental Appropriations bill, prohibiting EPA from using FY2000 or FY2001 funds to implement the TMDL proposal the Clinton Administration had announced in August, 1999. It responded to the rider by issuing a revised rule delaying the effective date of the program until October 31, 2001. (For more information, see CRS Report RL30437, *Water Quality Initiatives and Agriculture.*)

Water quality problems are likely to be addressed not only through existing programs, such as EQIP, discussed above, but also through the new programs, including:

! The Conservation Security Program, in Section 2001, which is expected to be used to address water quality problems, especially nutrient management;

- ! the Ground and Surface Water Conservation Program enacted in Section 2301 as part of EQIP (discussed above);
- ! the Small Watershed Rehabilitation Program amendments enacted in Section 2505 (discussed above);
- the Agricultural Management Assistance Program reauthorized in Section 2501 that provides \$10 million annually (\$20 million annually between FY2003 and FY2007) to 15 specified states that have been underserved by risk management programs for conservation;
- ! a new program for the Great Lakes Basin states enacted in Section 2502;
- a new Grassroots Source Water Protection Program, also enacted in Section 2502; and
- a new demonstration program for the Delmarva Peninsula enacted in Sections 2601-2604.

Private Grazing Lands Program. A voluntary coordinated technical and educational assistance program was enacted in the 1996 farm bill to maintain and improve resource conditions on private grazing lands. Appropriations were authorized at \$20 million in FY1996, \$40 million in FY1997, and \$60 million annually thereafter. Appropriators have not established a separate line item, but continue to earmark a portion of NRCS's Conservation Operations funds for this effort annually, providing \$21.5 million for FY2002.

Section 2502 of the 2002 farm bill reauthorizes the program through FY2007 with appropriations of \$60 million annually. Section 2401 of the 2002 farm bill authorizes a new Grasslands Reserve Program to retire 2 million acres under arrangements ranging from 10-year agreements to permanent easements, permits the delegation of easements to ceratin private organizations and state agencies, and provides up to \$254 million in mandatory funding.

Air Quality Activities. The 1996 farm bill created an interagency air quality task force in USDA. The task force represented USDA on scientific topics such as EPA's proposals to revise National Ambient Air Quality Standards for ground-level ozone and two sizes of particulates in 1997. Cooperation grew after USDA and EPA signed a Memorandum of Agreement in January 1998. More recently, federal agencies have been discussing how agricultural practices and programs affect global warming, especially by sequestering carbon. (For more information, see CRS Report 97-670, *Agriculture and EPA;'s Proposed Air Quality Standards for Ozone and Particulates*.)

The 2002 farm bill does not amend air quality provisions in the conservation title.

Research and Technical Activities. Many agencies in USDA conduct research and provide technical support. NRCS, for example, provides basic data about resource conditions and characteristics through the soil and snow surveys and periodic surveys through the National Resources Inventory. It also does applied research through the plant material and technical centers.

Section 2005 of the 2002 farm bill requires the Secretary to submit a report, with implementing recommendations, about how to better coordinate and consolidate conservation programs to both agriculture committees by December 31, 2005.

Other Conservation Programs and Provisions in the 2002 Farm Bill. In addition to the farm bill programs described above, the conservation title contains several other programs. It:

- ! Authorizes the Conservation Security Program in Section 2001 to provide payments to producers starting in FY2003, based on which of three levels of conservation is planned for and practiced. Payments are available on all agricultural land that was cropped in 4 of 6 years before 2002. The lowest level allows contracts of 5 years and annual payments up to \$20,000; the middle level allows contracts of 5 to 10 years and annual payments up to \$35,000; the top level allows contracts of 5 to 10 years and annual payments up to \$45,000. The lowest level requires a plan that addresses at least one resource concern on part of a farm; the middle level requires a plan that addresses at least one resource concern on the entire operation, and the top level requires a plan to address all resource concerns on the entire operation.
- ! Authorizes Partnerships and Cooperation in Section 2003, using up to 5% of conservation funding, for both stewardship agreements with other entities and special projects designated by state conservationists to enhance technical and financial assistance to address resource conservation issues.
- ! Amends administrative requirements in Section 2004, to provide the option of providing incentives to beginning and limited resource farmers and ranchers and Indian tribes, and to protect the privacy of personal information related to natural resource conservation programs and information about National Resources Inventory data points.
- Provides the Agricultural Management Assistance Program through FY2007 in Section 2501, and provides \$10 million in mandatory funding annually.
- Authorizes a Grassroots Source Water Protection Program in Section 2501 and annual appropriations of \$5 million through FY2007.
- Authorizes a Great Lakes Program for Erosion and Sediment Control in Section 2501 and annual appropriations of \$5 million through FY2007.
- ! Desert Terminal Lakes provisions in Section 2507 require the Secretary to transfer \$200 million in mandatory funds to the Bureau of Reclamation to pay for providing water to at-risk natural desert terminal lakes; other provisions prohibit using these funds to purchase or lease water rights.
- ! Authorizes appropriations of such funds as are necessary through FY2007 to conduct a Conservation Corridor Demonstration Program on the Delmarva Peninsula in Sections 2601-2604 to provide matching funds to demonstrate local conservation and economic development with state and local partners.

Implementing the 2002 Farm Bill Conservation Provisions

Official actions, including announcements in the *Federal Register* (*FR*), taken to implement selected conservation programs authorized or significantly amended by the 2002 farm bill are listed below.

Conservation Reserve Program: No action.

Wetland Reserve Program: FR(06/07/02) contains notice of amendment to existing rule published. On September 6, 2002, a press release announced that approximately \$275 million in FY2002 would go to 42 states to enroll up to 250,000 acres.

Environmental Quality Incentive Program: FR(07/24/02) contains notice providing additional \$275 million for FY2002. On August 1, 2002, the Secretary announces \$227 million released. On September 16, 2002, a press release announced that \$10 million in previously unallocated FY2002 funds will go to 14 drought-stricken states.

Conservation Technical Assistance: On November 7, 2002, a "summit" is hosted by USDA in Washington to receive public input. FR(11/21/02) contains interim final rule, with comments to be submitted by February 19, 2003.

Small Watershed Rehabilitation Program: No action.

Resource Conservation and Development Program: No action.

Farmland Protection Program: FR(05/30/02) notice requests proposals for FY2002, due August 15, 2002. On September 6, 2002, a press release announced that \$48 million would be spent in 32 states in FY2002. FR(10/28/02) contains proposed rule, with comments to be submitted by December 30, 2002.

Wildlife Habitat Incentive Program: FR (07/24/02) contains final rule providing additional cost share assistance to participants with agreements exceeding 15 years.

Agricultural Management Assistance Program: On August 19, 2002, NRCS announces release of \$1.5 million.

Private Grazing Lands Program: FR (06/29/02) contains proposed rule. FR (11/12/02) contains final rule.

Grasslands Reserve Program: No action.

Conservation Security Program: No action.

Partnerships and Cooperation: No action.

Appropriations

The Administration requested \$841 million for Conservation Operations (CO), up \$62 million from FY2002. The Administration requested no funding for Watershed and Flood Prevention Operations, Watershed Surveys, or the Watershed Rehabilitation Programs, but instead requested \$111.4 million for Emergency Watershed Protection, so USDA would be able to focus its resources on providing assistance rapidly after a natural disaster, while limiting watershed spending to disasters. The Emergency Conservation Program is usually funded through emergency supplemental legislation, but the budget requested \$48.7 million, the average amount spent over each of the past 10 years, so these funds would be available when needed.

The House and Senate Appropriations Committees rejected many of these proposals in H.R. 5263 and S. 2801, respectively, providing similar levels of funding for the three watershed programs as last year (except the House Committee recommended no funding for the rehabilitation program, while the Senate Committee recommended \$30 million) and no funding for the Emergency Conservation Program. Both committees provided slightly higher funding than the Administration requested for CO, \$843 million by the House and \$851 million by the Senate. Each bill included about 50 earmarks for CO, and very few of them are in both bills. Both bills provided higher amounts for the RC&D than the \$49.1 million that the Administration requested; \$55.1 million in the House bill and \$50.4 million in the Senate bill.

The Administration did not comment on mandatory programs, except to assume full funding for EQIP at \$200 million in FY2003, even though budget authority expired at the end of FY2002. The budget did assume continuing outlays for existing obligations under land retirement programs. For the CRP, for example, it assumed outlays of \$1.856 billion in FY2003 to fund existing and new contracts.

The House Committee took three actions to limit mandatory programs. It limited the Environmental Quality Incentives Program to \$695 million instead of the \$700 million authorized, limited the Wetlands Reserve Program to 245,833 acres instead of the 250,000 acres authorized, and limited expenditures under the new Conservation Security Program to Iowa (making it a pilot program and saving an estimated \$3 million). The Senate placed one limit on mandatory funding, prohibiting authorized funds for the Small Watershed Rehabilitation Program (which could receive \$30 million as a discretionary line item).

Congress did not complete action on agriculture appropriations legislation, and conservation programs are currently funded under a continuing resolution. The 108th Congress plans to complete action on this legislation as soon as it returns. Until then, the earmarks that accompanied the FY2002 appropriations will remain in place, and earmarks that were in the FY2003 legislation or committee reports will not take effect. (For more details on conservation funding, see CRS Report RL31301, *Appropriations for FY2003: U.S. Department of Agriculture and Related Agencies.*)

Congress has responded to this year's widespread drought by considering legislation that would provide additional assistance to producers. While this legislation has not been enacted, USDA has identified numerous programs where it is targeting assistance. The conservation programs (and amounts) include: CRP (\$100 million); ECP (\$54 million); EQIP (\$10 million); WHIP (\$1.5 million); and EWP (\$94 million).

LEGISLATION

Almost 100 bills with conservation provisions were introduced in the 107th Congress; only the enacted farm bill is listed below.

P.L. 107-171, H.R. 2646

Provides for the continuation of farm programs through FY2011. Introduced July 26, 2001; referred to Committee on Agriculture. Reported August 2, 2001 (H.Rept. 107-191, pt. 1) and August 31, 2001 (H.Rept. 107-191, pt. II). Passed the House (amended) October 5, 2001. Passed the Senate (amended) February 13, 2002. House agrees to conference report May 2, 2002 (H.Rept. 107-424). Senate agrees to conference report May 8, 2002. Signed into law May 13, 2002.

CONGRESSIONAL HEARINGS, REPORTS, AND DOCUMENTS

- U.S. Congress. House. Committee on Agriculture. Subcommittee on Department Operations, Oversight, Nutrition, and Forestry. *The Impact of the Proposed Total Maximum Daily Load Regulations on Agriculture and Silviculture*. Hearings. 106th Congress, 2nd session. May 22, June 19, and June 20, 2000. 296 p. Serial No. 106-53.
- U.S. Congress. House. Committee on Agriculture. Subcommittee on General Farm Commodities, Resource Conservation, and Credit. *Review of USDA's Administration of the CRP*. Hearings, 106th Congress, 1st session. July 22, 1999. 96 p. Serial No. 106-30.
- U.S. Congress. House. Committee on Agriculture. Subcommittee on Water Resources and Environment. H.R. 728, The Small Watershed Rehabilitation Amendments of 1999and the Natural Resource Conservation Service's Small Watershed Program. Hearings, 106th Congress, 1st session. Sept. 24, 1999. 63p. Serial No. 106-40.
- U.S. Congress. Senate. Committee on Agriculture. *Conservation.* Hearings. 107th Congress, 1st session. February 28 and March 1, 2002. 250p. S. Hrg. 107-225.
- U.S. Congress. Senate. Committee on Agriculture, Subcommittee on Forestry, Conservation, and Rural Revitalization. *Farmland Protection Program*. Hearings, 106th Congress, 2nd session. September 18, 2000. 61p. S. Hrg. 106-947.

FOR ADDITIONAL READING

- U.S. Department of Agriculture. Economic Research Service. *Agricultural Resources and Environmental Indicators, 1996-1997.* Washington, July 1997. 347 p. Agricultural Handbook No. 712. (Chapters are individually updated and available on the internet.)
- -----. Agri-Environmental Policy at the Crossroads: Guideposts on a Changing Landscape. Washington, January 2001. 66p. Agricultural Economic Report No. 794.
- U.S. Department of Agriculture. Natural Resources Conservation Service. America's Private Land: A Geography of Hope. Washington. 1996. 81 p.

CRS Reports

- CRS Report RL31301. Appropriations for FY2003: Department of Agriculture and Related Agencies, coordinated by Ralph M. Chite.
- CRS Report RL30331. *Conservation Spending in Agriculture: Trends and Implications*, by Jeffrey Zinn. 11 p.
- CRS Report 97-673. *Conservation Reserve Program: Status and Current Issues*, by Jeffrey Zinn. 6 p.

- CRS Report RL31486. Conservation Title of the 2002 Farm Bill: A Comparison of New Law with Bills Passed by the House and the Senate, and Prior Law, by Jeffrey Zinn. 33 p.
- CRS Report 97-616. *Environmental Quality Incentives Program (EQIP): Status and Issues*, by Jeffrey Zinn and Geoffrey Becker. 6 p.
- CRS Report RL31065. Forestry Assistance Programs, by Ross Gorte. 20p.
- CRS Report RL31131. *Selected Conservation Proposals for the Next Farm Bill*, by Jeffrey Zinn. 40 p.
- CRS Report RL30437. *Water Quality Initiatives and Agriculture*, by Claudia Copeland. 29 p.