# Table of Contents

Summary ................................................................................................................................. S-1  
Table of Contents .................................................................................................................. i  
List of Figures ....................................................................................................................... x  
List of Tables ....................................................................................................................... xii  
Acronyms and Abbreviations ............................................................................................. A&A-1

Chapter 1 Purpose and Need .............................................................................................. 1-1  
1.1 Background ................................................................................................................... 1-1  
1.2 Proposed Action and Purpose and Need Specified ................................................. 1-2  
1.3 Program Legislative Authority and Regulations .................................................... 1-3  
1.4 Organization of the CRP PEIS ................................................................................... 1-3

Chapter 2 Affected Environment ...................................................................................... 2-1  
2.1 Lands and Resources Affected by the CRP .............................................................. 2-1  
2.2 Environmental Resources ........................................................................................... 2-5  
  2.2.1 Soils ......................................................................................................................... 2-5  
    Factors Affecting Soil Erosion ........................................................................................ 2-7  
    Wind Erosion ............................................................................................................... 2-8  
    Land Cover/Land Use .................................................................................................. 2-9  
    National Soil Loss ...................................................................................................... 2-11  
  2.2.2 Water Resources and Aquatic Species .................................................................... 2-12  
    2.2.2.1 Surface Water – Watersheds of the United States .......................................... 2-12  
       Water Quality ........................................................................................................ 2-12  
       Surface Waters ....................................................................................................... 2-12  
       Impaired Waters .................................................................................................... 2-13  
       Nonpoint Source Pollution ..................................................................................... 2-13  
       Nitrogen .................................................................................................................. 2-15  
       Hypoxia .................................................................................................................. 2-16  
       Phosphorus ............................................................................................................ 2-18  
       Pesticides .............................................................................................................. 2-19  
       Erosion .................................................................................................................... 2-22  
       Sediment ............................................................................................................... 2-24  
       Runoff Potentials ................................................................................................... 2-24  
       Buffers ..................................................................................................................... 2-28  
    2.2.2.2 Groundwater Resources ................................................................................... 2-28  
       Groundwater Supplies ........................................................................................... 2-31  
    2.2.2.3 Aquatic Species ............................................................................................... 2-32  
       Fish ........................................................................................................................... 2-32  
       Mussels and Clams ................................................................................................. 2-33  
       Buffers ..................................................................................................................... 2-34  
    2.2.2.3 Riparian Areas, Floodplains, and Wetlands .................................................... 2-35  
       Major Wetland Types .............................................................................................. 2-37
Functions and Values ................................................................. 2-38
Current Distribution and Condition ........................................... 2-39

2.2.3 Vegetation ........................................................................... 2-43
  2.2.3.1 Grasslands ................................................................. 2-43
    Native Grasses ..................................................................... 2-44
    Introduced Grasses ........................................................... 2-46
    Invasive Species .................................................................. 2-47
    Major Invasive Plant Species .............................................. 2-49
  Forestland .............................................................................. 2-54
  Buffers ................................................................................... 2-55
  Carbon Sequestration .......................................................... 2-55

2.2.4 Wildlife .............................................................................. 2-58
  2.2.4.1 Wildlife ................................................................. 2-58
    Wildlife Buffers .................................................................. 2-62
  2.2.4.2 Wildlife-Based Recreation ........................................... 2-61
  2.2.4.3 Federal Threatened and Endangered Species ............... 2-62
    Current Conditions of Threatened and Endangered Species in the U.S. 2-62
    Rare and Sensitive Species .................................................. 2-66
    Neotropical Migrants .......................................................... 2-66

2.3 Economic, Social, and Cultural Resources .............................. 2-68
  2.3.1 Social Characteristics of U.S. Farmland Communities .......... 2-69
    2.3.1.1 The Structure of Agricultural Production ..................... 2-69
      Farm Typology .................................................................. 2-69
      Farm Tenure .................................................................... 2-70
      Farm Income .................................................................... 2-73
      Federal Farm Subsidy Payments ........................................ 2-73
    2.3.1.2 Characteristics of Agricultural Communities ................ 2-73
      Farming Dependency ....................................................... 2-74
      Farms, Total Land In Farms, and Farm Size ....................... 2-75
      Rural Communities ......................................................... 2-75
      Urban Communities ......................................................... 2-76
    2.3.1.3 Demographic Summary of Rural Communities ............. 2-76
    2.3.1.4 Environmental Justice Populations ............................. 2-80
      Minority Populations ....................................................... 2-80
      Limited Resource Farmers .............................................. 2-81
  2.3.2 Economy of U.S. Farming and Farm Communities ............. 2-82
    2.3.2.1 The Rural Economy and the CRP ............................... 2-85
      Employment in the Agricultural Sector of the Economy .......... 2-85
    2.3.2.2 The Agricultural Services Sector and the CRP .............. 2-87
      Production Expenditures ............................................... 2-87
      Relationship of Agricultural Production Expenditures and the CRP
      Enrollment ................................................................. 2-87
    2.3.2.3 Tourism, Recreation, and the CRP ............................... 2-89
    2.3.2.4 CRP and Land Allocation .......................................... 2-92
    2.3.2.5 Slippage .................................................................. 2-93
    2.3.2.6 Societal Benefits and Costs of CRP .............................. 2-95
# Chapter 3: Current Conservation Reserve Program

## 3.1 Background

### 3.1.1 Development of Current CRP Program

- Food Security Act of 1985
- Food, Agriculture, Conservation and Trade Act of 1990
- Federal Agriculture Improvement and Reform Act of 1996
- Land Capability Class and Subclass
- Cropping History Criteria

### 3.1.2 Regulations

## 3.2 Agency Roles in CRP

- Conservation Planning
- Practice Maintenance
- Technical Assistance
- Conservation Priority Areas

## 3.3 Conservation Reserve Program: General Sign-Up Current

## 3.4 Continuous CRP-Now

- Farmable Wetland Program (FWP)

## 3.5 Conservation Reserve Enhancement Program (CREP) Current

### 3.5.1 Approved State CREPs

### 3.5.2 Pending State CREPS

## 3.6 Related Agencies, Laws, and Regulations

### 3.6.1 Other USDA Agricultural Conservation Programs and Regulations

- Conservation Compliance
- Conservation Farm Option (CFO)
- Conservation of Private Grazing Land Initiative
- Conservation Technical Assistance (CTA)
- Emergency Conservation Program (ECP)
- Emergency Watershed Protection Program (EWP)
- Environmental Quality Incentives Program (EQUIP)
- Farmland Protection Program (FPP)
- Forestry Incentives Program (FIP)
- Stewardship Incentive Program (SIP)
- Wetlands Reserve Program (WRP)
- Wildlife Habitat Incentives Program (WHIP)

### 3.6.2 Other Federal Environmental Programs Pertaining to Agricultural Land Uses

#### 3.6.2.1 Environmental Protection Agency (EPA) Administered Programs

- Clean Water Act (CWA)
- Clean Lakes Program
- National Estuary Program
- National Pollutant Discharge Elimination System (NPDES)
- Comprehensive State Ground-Water Protection Program (CSGWPP)
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
- Nonpoint Source Pollution Program
- Safe Drinking Water Act (SDWA)

3.6.2.2 U.S. Army Corps of Engineers Programs

- Dredge and Fill Permit Program
### Chapter 4: Alternatives Including the Proposed Action

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1 Development of Alternatives</td>
<td>4-1</td>
</tr>
<tr>
<td>4.1.1 Agency Scoping</td>
<td>4-1</td>
</tr>
<tr>
<td>4.1.2 Public Scoping</td>
<td>4-2</td>
</tr>
<tr>
<td>4.1.3 Scoping Issues</td>
<td>4-2</td>
</tr>
<tr>
<td>4.1.4 Comments Received on the Draft Programmatic Environmental Impact Statement (DPEIS)</td>
<td>4-2</td>
</tr>
<tr>
<td>4.2 CRP Alternatives</td>
<td>4-3</td>
</tr>
<tr>
<td>4.2.1 No Program (Baseline)</td>
<td>4-3</td>
</tr>
<tr>
<td>4.2.2 No Action (Current Program)</td>
<td>4-3</td>
</tr>
<tr>
<td>Risk</td>
<td>4-3</td>
</tr>
<tr>
<td>4.2.3 Proposed Action</td>
<td>4-3</td>
</tr>
<tr>
<td>Risk</td>
<td>4-5</td>
</tr>
<tr>
<td>4.2.4 Environmental Targeting</td>
<td>4-5</td>
</tr>
<tr>
<td>4.2.4.1 State CREPs</td>
<td>4-6</td>
</tr>
<tr>
<td>4.2.4.2 State Environmental Target Areas</td>
<td>4-6</td>
</tr>
<tr>
<td>National Environmental Target Areas</td>
<td>4-6</td>
</tr>
<tr>
<td>NETA Selection</td>
<td>4-7</td>
</tr>
<tr>
<td>NETA Structure</td>
<td>4-8</td>
</tr>
<tr>
<td>Risk</td>
<td>4-8</td>
</tr>
<tr>
<td>4.3 Alternatives Eliminated From Detailed Evaluation</td>
<td>4-9</td>
</tr>
<tr>
<td>4.3.1 Revert to Permanent Legislation</td>
<td>4-9</td>
</tr>
<tr>
<td>4.4 Comparison of the Impacts of the Alternatives</td>
<td>4-9</td>
</tr>
</tbody>
</table>

### Chapter 5: Environmental Consequences

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1 Soils Impacts</td>
<td>5-1</td>
</tr>
<tr>
<td>5.1.1 Impacts of No Program (Baseline)</td>
<td>5-1</td>
</tr>
<tr>
<td>5.1.2 Impacts of No Action (Current Program)</td>
<td>5-1</td>
</tr>
<tr>
<td>Vegetative Cover</td>
<td>5-3</td>
</tr>
<tr>
<td>Erosion Control Structures and Windbreaks</td>
<td>5-3</td>
</tr>
<tr>
<td>5.1.2.1 General Sign-Up</td>
<td>5-6</td>
</tr>
<tr>
<td>5.1.2.2 CCRP</td>
<td>5-6</td>
</tr>
<tr>
<td>5.1.2.3 FWP</td>
<td>5-7</td>
</tr>
<tr>
<td>5.1.2.4 CREP</td>
<td>5-7</td>
</tr>
<tr>
<td>5.1.3 Impacts Under the Proposed Action (2002 Farm Bill)</td>
<td>5-8</td>
</tr>
<tr>
<td>5.1.3.1 General Sign-Up</td>
<td>5-8</td>
</tr>
<tr>
<td>5.1.3.2 CCRP</td>
<td>5-10</td>
</tr>
<tr>
<td>5.1.3.3 FWP</td>
<td>5-10</td>
</tr>
<tr>
<td>5.1.3.4 CREP</td>
<td>5-10</td>
</tr>
<tr>
<td>5.1.4 Impacts Under Alternative 4 (Environmental Targeting)</td>
<td>5-11</td>
</tr>
<tr>
<td>5.2 Water Resources and Aquatic Species Impacts</td>
<td>5-12</td>
</tr>
<tr>
<td>5.2.1 Surface and Groundwater Impacts</td>
<td>5-12</td>
</tr>
<tr>
<td>5.2.1.1 Impacts Under No Program (Baseline)</td>
<td>5-12</td>
</tr>
</tbody>
</table>
Surface waters ................................................................. 5-12
TMDLs ................................................................. 5-12
Groundwater ........................................................ 5-12
5.2.1.2 Impacts Under No Action (Current Program) .................... 5-13
  5.2.1.2.1 General Sign-Up ......................................................... 5-14
    Surface waters .......................................................... 5-14
    TMDLs ................................................................. 5-14
    Groundwater ........................................................ 5-15
  5.2.1.2.2 CCRP ................................................................. 5-15
    Surface waters .......................................................... 5-15
    TMDLs ................................................................. 5-15
    Groundwater ........................................................ 5-16
  5.2.1.2.3 FWP ................................................................. 5-16
  5.2.1.2.4 CREP ................................................................. 5-17
    Surface waters .......................................................... 5-17
    TMDLs ................................................................. 5-17
    Groundwater ........................................................ 5-18
5.2.1.3 Impacts Under the Proposed Action (2002 Farm Bill) ............ 5-18
  5.2.1.3.1 General Sign-Up ......................................................... 5-18
    Surface waters .......................................................... 5-18
    TMDLs ................................................................. 5-19
    Groundwater ........................................................ 5-19
  5.2.1.3.2 CCRP ................................................................. 5-19
    Surface waters .......................................................... 5-19
    TMDLs ................................................................. 5-19
    Groundwater ........................................................ 5-20
  5.2.1.3.3 FWP ................................................................. 5-20
  5.2.1.3.4 CREP ................................................................. 5-20
    Surface waters .......................................................... 5-20
    TMDLs ................................................................. 5-21
    Groundwater ........................................................ 5-21
5.2.1.4 Impacts Under Alternative 4 (Environmental Targeting) ....... 5-21
5.2.2 Impacts on Riparian Areas, Floodplains, and Wetlands .......... 5-22
  5.2.2.1 Impacts Under No Program (Baseline) ......................... 5-22
  5.2.2.2 Impacts Under No Action (Current Program) ................... 5-23
  5.2.2.3 Impacts Under Proposed Action (2002 Farm Bill) ............... 5-30
  5.2.2.4 Impacts Under Alternative 4 (Environmental Targeting) ...... 5-32
5.2.3 Aquatic Species Impacts ................................................. 5-33
  5.2.3.1 Impacts Under No Program (Baseline) ......................... 5-33
  5.2.3.2 Impacts Under No Action (Current Program) ................... 5-33
    5.2.3.2.1 General Sign-Up ......................................................... 5-33
    5.2.3.2.2 CCRP ................................................................. 5-34
    5.2.3.2.3 FWP ................................................................. 5-35
    5.2.3.2.4 CREP ................................................................. 5-35
  5.2.3.3 Impacts Under Proposed Action (2002 Farm Bill) ............... 5-35
    5.2.3.3.1 General Sign-Up ......................................................... 5-35
5.2.3.3.2 CCRP ................................ ................................ ................................ 5-36
5.2.3.3.3 FWP ................................ ................................ ................................ 5-36
5.2.3.3.4 CREP ................................ ................................ ................................ 5-36
5.2.3.4 Impacts Under Alternative 4 (Environmental Targeting) ......................... 5-36

5.3 Vegetation Impacts................................ ................................ ...................... 5-38

5.3.1 Impacts of No Program (Baseline). ................................ ................................ 5-38
   Grasslands ....................................................................................................... 5-38
   Forestlands ..................................................................................................... 5-38
   Invasive Species ............................................................................................ 5-39

5.3.2 Impacts of No Action (Current Program) ................................ ............................. 5-39
   5.3.2.1 General Sign-Up ................................ ................................ .................. 5-39
       Grasslands .................................................................................................. 5-39
       Forestlands ................................................................................................. 5-42
       Introduced/Invasive Species .................................................................... 5-44
   5.3.2.2 CCRP ................................................................................................. 5-45
       Grasslands .................................................................................................. 5-45
       Forestlands ................................................................................................. 5-45
       Invasive Species ......................................................................................... 5-46
   5.3.2.3 FWP ................................................................................................. 5-46
   5.3.2.4 CREP ................................................................................................. 5-46
       Grasslands .................................................................................................. 5-46
       Forestlands ................................................................................................. 5-47
       Invasive Species ......................................................................................... 5-47

5.3.3 Impacts Under Proposed Action (2002 Farm Bill) ................................ ............... 5-47
   5.3.3.1 General Sign-Up ................................ ................................ .................. 5-47
       Grasslands .................................................................................................. 5-47
       Forestlands ................................................................................................. 5-48
       Invasive Species ......................................................................................... 5-48
   5.3.3.2 CCRP ................................................................................................. 5-48
       Grasslands .................................................................................................. 5-48
       Forestlands ................................................................................................. 5-48
       Invasive Species ......................................................................................... 5-49
   5.3.3.3 FWP ................................................................................................. 5-49
   5.3.3.4 CREP ................................................................................................. 5-50

5.3.4 Impacts Under Alternative 4 (Environmental Targeting) ................................ ..... 5-50

5.4 Wildlife Impacts................................ ................................ .............................. 5-51

5.4.1 Impacts Under No Program (Baseline) ................................ ......................... 5-51
   Threatened and Endangered Species ............................................................. 5-51
   Wildlife-based Recreation .............................................................................. 5-51

5.4.2 Impacts Under No Action (Current Program) ................................ .................... 5-51
   5.4.2.1 General Sign-Up ................................ ................................ .................. 5-51
       Threatened and Endangered Species .......................................................... 5-51
       Wildlife-based Recreation ......................................................................... 5-51
   5.4.2.2 CCRP ................................................................................................. 5-57
   5.4.2.3 FWP ................................................................................................. 5-57
   5.4.2.4 CREP ................................................................................................. 5-58
5.4.3 Impacts Under Proposed Action (2002 Farm Bill) ........................................... 5-58
  5.4.3.1 General Sign-Up .......................................................................................... 5-58
    Threatened and Endangered Species .......................................................... 5-59
    Wildlife-based Recreation .......................................................................... 5-59
  5.4.3.2 CCRP ......................................................................................................... 5-59
    Threatened and Endangered Species .......................................................... 5-59
    Wildlife-based Recreation .......................................................................... 5-60
  5.4.3.3 FWP .......................................................................................................... 5-60
  5.4.3.4 CREP ......................................................................................................... 5-60

5.4.4 Impacts Under Alternative 4 (Environmental Targeting) ................................. 5-60

5.5 Economic Impacts ............................................................................................ 5-61
  5.5.1 Rural Economy ............................................................................................ 5-61
    5.5.1.1 Impacts Under No Program (Baseline) .................................................... 5-61
      Job Gains in the Agricultural Services Sector and on-Farm Employment .... 5-61
      Job Losses in the Recreation Sector of the Economy ................................ 5-65
      Increased Uncertainty of Producer Income .............................................. 5-65
    5.5.1.2 Impacts Under No Action (Current Program) ......................................... 5-66
      Job Loss in the Agricultural Sector of the Economy ................................ 5-66
      Uncertainty and/or Decreased Profitability of Tenant Farm Operations .... 5-68
    5.5.1.3 Impacts Under Proposed Action (2002 Farm Bill) ................................ 5-69
      Job Change in the Agriculture Sector of the Economy ................................ 5-69
      Increase in CRP Acreage Cap leads to an Increase in Agricultural Rents ..... 5-70
      Diversity of Producer Income .................................................................... 5-70
    5.5.1.4 Impacts Under Alternative 4 (Environmental Targeting) .................... 5-71
      Job Change in the Agricultural Sector of the Economy ................................ 5-72
      Increased Uncertainty of Producer Income .............................................. 5-73
  5.5.2 Land Allocation ............................................................................................ 5-73
    5.5.2.1 Impacts Under No Program (Baseline) .................................................... 5-73
      Increased Supply of Planted Cropland .................................................... 5-73
      Increased Supply of Cropland Available for Rent, and a Decrease in Rental Rates and Land Values .............................................................. 5-76
      Loss of Recreational Opportunities .......................................................... 5-77
    5.5.2.2 Impacts Under No Action (Current Program) ......................................... 5-79
      Decreased Supply of Cropland .................................................................. 5-79
      Conversion of Non-Cropland To Cropland ............................................ 5-80
      Maintenance or Increase in Recreational Opportunities .......................... 5-82
    5.5.2.3 Impacts Under Proposed Action (2002 Farm Bill) ................................ 5-82
      Increase in Agricultural Land Values from Reduction in Land Supply ....... 5-82
      Change in Slippage ...................................................................................... 5-82
      Change in Land Use Efficiency ................................................................. 5-84
      Increase in Recreational Opportunities .................................................... 5-84
    5.5.2.4 Impacts Under Alternative 4 (Environmental Targeting) .................... 5-84
      Change in Regional Distribution of Enrolled Land ................................... 5-84
      Decreased Probability of Whole Farm Enrollment ................................... 5-87
      Increased Supply of Cropland and Lower Slippage Rates ....................... 5-87

5.6 Social Impacts .................................................................................................. 5-87
5.6.1 Impacts Under No Program (Baseline) ................................................................. 5-87
5.6.2 Impacts Under No Action (Current Program) ....................................................... 5-88
   Viability of Agriculture ......................................................................................... 5-90
   The Social Community ...................................................................................... 5-92
   Environmental Justice Populations ..................................................................... 5-93
5.6.3 Impacts Under Proposed Action (2002 Farm Bill) ............................................. 5-95
5.6.4 Impacts Under Alternative 4 (Environmental Targeting) ............................. 5-96

Chapter 6: Consultation and Coordination .............................................................. 6-1
References .................................................................................................................................................. R-1
List of Preparers ........................................................................................................................................ LOP-1
Distribution List .......................................................................................................................................... DL-1
Index .......................................................................................................................................................... I-1
Glossary ......................................................................................................................................................... G-1

Appendices

Appendix A: Scoping for the CRP PEIS ................................................................................................. AA-1
Appendix B: CRP Associated Conservation Practices ............................................................................ AB-1
Appendix C: Conservation Practices Acres By State ............................................................................. AC-1
Appendix D: Literature Review and Research Recommendations for the Conservation Reserve Program .................................................................................................................. AD-1
Appendix E: Introduced and Invasive Plants Common to the United States ....................................... AE-1
Appendix G: Correlation Coefficients, Regression Results, and Variable Definitions ....................... AG-1
Appendix H: Comments and Responses ................................................................................................. AH-1
List of Figures

<table>
<thead>
<tr>
<th>Fig. No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1-1</td>
<td>Farming near Klingerstown, PA</td>
<td>1-1</td>
</tr>
<tr>
<td>2.1-1</td>
<td>Commodity Crops of the United States: Rice, Oats, Barley, and Cotton</td>
<td>2-3</td>
</tr>
<tr>
<td>2.1-2</td>
<td>Commodity Crops of the United States: Corn, Sorghum, Wheat, and Soybeans</td>
<td>2-4</td>
</tr>
<tr>
<td>2.2-1</td>
<td>Highly Erodible Land on Cropland in the United States (by watershed)</td>
<td>2-6</td>
</tr>
<tr>
<td>2.2-2</td>
<td>Topsoil Blowing in Wind in North-Central Iowa</td>
<td>2-8</td>
</tr>
<tr>
<td>2.2-3</td>
<td>Common Wind Erosion Areas of the United States</td>
<td>2-9</td>
</tr>
<tr>
<td>2.2-4</td>
<td>Land Use / Land Cover of the United States with Associated Major Rivers</td>
<td>2-10</td>
</tr>
<tr>
<td>2.2-5</td>
<td>Farm Pond in Iowa</td>
<td>2-12</td>
</tr>
<tr>
<td>2.2-6</td>
<td>Miles of Impaired Waters by Watershed</td>
<td>2-14</td>
</tr>
<tr>
<td>2.2-7</td>
<td>Hypoxia Area</td>
<td>2-16</td>
</tr>
<tr>
<td>2.2-8</td>
<td>The Eutrophication Process</td>
<td>2-17</td>
</tr>
<tr>
<td>2.2-9</td>
<td>Pounds of Pesticide Active Ingredient Applied to Cropland and Potential Pounds of Excess Nitrogen in Runoff</td>
<td>2-20</td>
</tr>
<tr>
<td>2.2-10</td>
<td>Average Annual Precipitation</td>
<td>2-21</td>
</tr>
<tr>
<td>2.2-11</td>
<td>Tons of Sediment Delivered from Sheet and Rill Erosion</td>
<td>2-23</td>
</tr>
<tr>
<td>2.2-12</td>
<td>Sediment Runoff Potential</td>
<td>2-25</td>
</tr>
<tr>
<td>2.2-13</td>
<td>Pesticide Runoff Potential</td>
<td>2-26</td>
</tr>
<tr>
<td>2.2-14</td>
<td>Nitrogen Runoff Potential</td>
<td>2-27</td>
</tr>
<tr>
<td>2.2-15</td>
<td>Sample Buffer Sizes of Various Conservation Purposes</td>
<td>2-28</td>
</tr>
<tr>
<td>2.2-16</td>
<td>National Groundwater Use</td>
<td>2-29</td>
</tr>
<tr>
<td>2.2-17</td>
<td>Occurrence of Chemicals in Surface and Ground Water</td>
<td>2-30</td>
</tr>
<tr>
<td>2.2-18</td>
<td>EPA841-S-00-001 Environmental Protection Washington, DC 20460 June 2000</td>
<td>2-32</td>
</tr>
<tr>
<td>2.2-19</td>
<td>Aquatic Species at Risk</td>
<td>2-33</td>
</tr>
<tr>
<td>2.2-20</td>
<td>Landscape Position of Riparian Areas, Floodplains, and Wetlands</td>
<td>2-36</td>
</tr>
<tr>
<td>2.2-21</td>
<td>Change in Wetland Distribution from 1780s to 1980s</td>
<td>2-39</td>
</tr>
<tr>
<td>2.2-22</td>
<td>Estimated Wetland Acreage on Non-Federal Lands in 1997</td>
<td>2-40</td>
</tr>
<tr>
<td>2.2-23</td>
<td>Wetland Acres on Cropland, 1992</td>
<td>2-41</td>
</tr>
<tr>
<td>2.2-24</td>
<td>Original Range of Grasslands in the United States</td>
<td>2-43</td>
</tr>
<tr>
<td>2.2-25</td>
<td>Root Depth of Introduced and Native Grasses</td>
<td>2-44</td>
</tr>
<tr>
<td>2.2-26</td>
<td>Field of Purple Loosestrife</td>
<td>2-50</td>
</tr>
<tr>
<td>2.2-27</td>
<td>Leafy Spurge</td>
<td>2-50</td>
</tr>
<tr>
<td>2.2-28</td>
<td>Chinese Privet</td>
<td>2-51</td>
</tr>
<tr>
<td>2.2-29</td>
<td>Chinese Tallow</td>
<td>2-52</td>
</tr>
<tr>
<td>2.2-30</td>
<td>Canada Thistle</td>
<td>2-53</td>
</tr>
<tr>
<td>2.2-31</td>
<td>Canada Thistle</td>
<td>2-53</td>
</tr>
<tr>
<td>2.2-32</td>
<td>Forest-Use Land Between 1945 and 1982 in the United States</td>
<td>2-54</td>
</tr>
<tr>
<td>2.2-33</td>
<td>Representative Three-part Forested Buffer System</td>
<td>2-55</td>
</tr>
<tr>
<td>2.2-34</td>
<td>Wildlife Impacts from Agricultural Land Use Decisions</td>
<td>2-58</td>
</tr>
<tr>
<td>2.2-35</td>
<td>Threatened and Endangered Aquatic Species by County</td>
<td>2-64</td>
</tr>
<tr>
<td>2.2-36</td>
<td>Threatened and Endangered Terrestrial Species by County</td>
<td>2-65</td>
</tr>
<tr>
<td>2.2-37</td>
<td>Threatened and Endangered Plant Species by County</td>
<td>2-66</td>
</tr>
<tr>
<td>2.2-38</td>
<td>North American Flyways</td>
<td>2-67</td>
</tr>
<tr>
<td>2.3-1</td>
<td>CRP Payments by County for the U.S.</td>
<td>2-74</td>
</tr>
<tr>
<td>2.3-2</td>
<td>Distribution of Minority Farms in the United States, 1997</td>
<td>2-81</td>
</tr>
<tr>
<td>3.1-1</td>
<td>Current Total Active Acreage Enrolled in CRP by Conservation Practice (CP)</td>
<td>3-11</td>
</tr>
<tr>
<td>3.2-1</td>
<td>Agency Roles in the CRP Contract Process</td>
<td>3-20</td>
</tr>
<tr>
<td>3.2-2</td>
<td>General CRP Contract Process</td>
<td>3-21</td>
</tr>
</tbody>
</table>
3.2-3 CRP Conservation Priority Areas ................................................................. 3-26
3.4-1 Continuous Signup Acreage By State .......................................................... 3-29
3.4-2 Farmable Wetland Program Sites ................................................................. 3-30
3.5-1 Development and Approval Process for CREP Proposals .............................. 3-32
3.5-2 Active CREP Acreage By State ...................................................................... 3-33
4.2-1 Current States with CREP Agreements ......................................................... 4-6
5.1-1 Estimated Total Soil Erosion Reduction on Current CRP Acres .................... 5-2
5.1-2 Specific Erosion Control Practices (Percentages of Total Acres) .................... 5-4
5.1-3 Total Active CRP Acres Devoted to Erosion as Listed in DM-9500 ................. 5-5
5.1-4 Erosion on Croplands in 1982 to 1997 ............................................................ 5-7
5.1-5 Potential Total Soil Erosion Reductions Under the Preferred Alternative .... 5-9
5.2-1 Specific Water Quality Practices on Active CRP Acreage .............................. 5-14
5.2-2 TMDL Listed Streams by State ...................................................................... 5-16
5.2-3 Total Acreage of Wetland and Associated Practices Enrolled in CRP by State 5-28
5.2-4 Pesticide Index for Fish ................................................................................. 5-34
5.3-1 Longleaf Pine CPA ....................................................................................... 5-39
5.3-2 Current Active Grass Practice CRP Acreage ............................................... 5-40
5.3-3 Percent of Total State CRP Acreage Planted to Trees ................................. 5-43
5.3-4 Current CRP Acreage Implementing Tree Practices by Sign-up (CP 3) ......... 5-44
5.4-1 Wildlife Enhancement Practice Acreage by Sign-up ..................................... 5-54
5.6-1 Government Payments and Farm Type, 2000 ............................................... 5-91
5.6-2 CRP and Minority Owned Farm Acreage – U.S. ......................................... 5-94
<table>
<thead>
<tr>
<th>Table No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2-1</td>
<td>Estimated Erosion on Cropland (1,000 Tons) for Years: 1982 and 1997</td>
<td>2-11</td>
</tr>
<tr>
<td>2.2-2</td>
<td>Negative Impacts of Nonpoint Sources on Water Quality</td>
<td>2-15</td>
</tr>
<tr>
<td>2.2-3</td>
<td>Common Native Grasses Available for Planting in the United States</td>
<td>2-45</td>
</tr>
<tr>
<td>2.2-4</td>
<td>Principal Grassland Types of the United States</td>
<td>2-46</td>
</tr>
<tr>
<td>2.2-5</td>
<td>Federal Laws for Invasive Species</td>
<td>2-48</td>
</tr>
<tr>
<td>2.3-1</td>
<td>Acreage and Tenure of Farm Operators (1992 and 1997)</td>
<td>2-71</td>
</tr>
<tr>
<td>2.3-2</td>
<td>Portion of Harvested Cropland Rented by Tenants</td>
<td>2-72</td>
</tr>
<tr>
<td>2.3-3</td>
<td>State Level Summary of Population, Farming, and CRP Participation</td>
<td>2-78</td>
</tr>
<tr>
<td>2.3-4</td>
<td>Comparison of Limited Resource Farms to All Farming Types</td>
<td>2-82</td>
</tr>
<tr>
<td>2.3-5</td>
<td>Change in Farm and Non-Farm Employment, 1980-2000, By Region</td>
<td>2-86</td>
</tr>
<tr>
<td>2.3-6</td>
<td>Distribution, By County, of Total Cropland Enrolled in the CRP &amp; WRP</td>
<td>2-88</td>
</tr>
<tr>
<td>2.3-7</td>
<td>Change in U.S. Cropland Acres</td>
<td>2-92</td>
</tr>
<tr>
<td>2.3-8</td>
<td>Annual Growth Rate in Total Factor Productivity, Crops, and Agricultural Inputs Indices, U.S. (1960-1996)</td>
<td>2-95</td>
</tr>
<tr>
<td>3.1-1</td>
<td>Environmental Benefits Index Factors (Post-1996 Farm Bill)</td>
<td>3-6</td>
</tr>
<tr>
<td>3.1-2</td>
<td>Land Capability Classes, Subclasses, and Definitions</td>
<td>3-8</td>
</tr>
<tr>
<td>3.1-3A</td>
<td>CRP Sign-up Periods and Eligibility Criteria</td>
<td>3-9</td>
</tr>
<tr>
<td>3.1-3B</td>
<td>CRP Sign-up Periods and Eligibility Criteria Legend</td>
<td>3-10</td>
</tr>
<tr>
<td>3.1-4</td>
<td>CRP Contract Acreage Expiring (Acres)</td>
<td>3-12</td>
</tr>
<tr>
<td>3.2-1</td>
<td>Agency Roles in the CRP Contract Process</td>
<td>3-16</td>
</tr>
<tr>
<td>3.5-1</td>
<td>CREP Goals, Eligible Conservation Practices, and Estimated Program Costs By State</td>
<td>3-34</td>
</tr>
<tr>
<td>4.2-1</td>
<td>CRP Program Changes in the 2002 Farm Bill</td>
<td>4-4</td>
</tr>
<tr>
<td>4.4-1</td>
<td>Comparison of Potential Impacts of the Alternatives</td>
<td>4-10</td>
</tr>
<tr>
<td>5.1-1</td>
<td>Estimated Erosion reduction on CRP</td>
<td>5-8</td>
</tr>
<tr>
<td>5.2-1</td>
<td>Acreage of Wetland and Associated Uplands Enrolled in CRP by Year and Eligibility Category</td>
<td>5-23</td>
</tr>
<tr>
<td>5.2-2</td>
<td>Average Annual Wetland Conversion in the US on Non-Federal Lands from 1954 to 1997</td>
<td>5-24</td>
</tr>
<tr>
<td>5.2-3</td>
<td>Summary of Wetland and Associated Practice Acreages for Active Contracts for All CRP Program Years (1987-2003)</td>
<td>5-25</td>
</tr>
<tr>
<td>5.2-5</td>
<td>Purpose of CRP Wetland, Riparian Area and Associated Conservation Practices</td>
<td>5-29</td>
</tr>
<tr>
<td>5.3-1</td>
<td>Longleaf Pine CPA States Tree Practice Acreage</td>
<td>5-38</td>
</tr>
<tr>
<td>5.3-2</td>
<td>Percent of Active CRP Acreage Planted to Native and Introduced Grasses by Historic</td>
<td>5-41</td>
</tr>
<tr>
<td>5.4-1</td>
<td>Impacts of Approved CRP Wildlife Habitat Enhancement Practices for Selected Species</td>
<td>5-55</td>
</tr>
<tr>
<td>5.5-1</td>
<td>Tree Plantings as a Percent of CRP Acreage as of 2001</td>
<td>5-74</td>
</tr>
<tr>
<td>5.5-2</td>
<td>Recreation Benefits of CRP* (millions of dollars, 1990s)</td>
<td>5-78</td>
</tr>
<tr>
<td>5.5-3</td>
<td>Percent of Total Cropland Planted to the 8 Major Crops</td>
<td>5-79</td>
</tr>
<tr>
<td>5.5-4</td>
<td>Slippage Indicators</td>
<td>5-81</td>
</tr>
<tr>
<td>5.5-5</td>
<td>Projected Major Cropland Acreage</td>
<td>5-83</td>
</tr>
<tr>
<td>5.5-6</td>
<td>Selected Benefits for 1992 Land Enrolled in the CRP</td>
<td>5-86</td>
</tr>
<tr>
<td>5.5-7</td>
<td>Current Estimated Annual Benefits</td>
<td>5-86</td>
</tr>
<tr>
<td>6.1</td>
<td>Persons and Agencies Contacted in the Development of this PEIS</td>
<td>6-1</td>
</tr>
</tbody>
</table>