#### May 17, 2023

Meeting was called to order at 10:00am.

Andy Deichert, Acting State Conservationist, welcomed participants and gave an overview and expectations of today's meeting.

Laura Smith, Assistant State Conservationist for Programs, gave an overview of how Inflation Reduction Act (IRA) funding will impact NRCS programs. Allocations of financial assistance funding are expected to nearly double in the coming fiscal years. All IRA related funding must be expended by 9/30/2031.

Jeff Barr, State Resource Conservationist, shared the <u>Climate Smart Agriculture and Forestry (CSAF)</u> practices that are applicable to IRA funding. Morgan Harris asked if facilitating practice suggestions to CSAF practices could be made, such as Streambank and Shoreline Protection as a facilitating practice for Forested Riparian Buffer – Yes, please send suggestions of facilitating practices to the CSAF practices with rationale. WV may request that practices be added to the national list, please email Jeff with suggestions for additions to CSAF with links to data to support that the requested activities provide carbon sequestration and/or GHC reduction methodologies. See attached index of conservation practices currently available in WV. Jeff asked that partners that have any suggestions for both primary and facilitating CSAF practices, please send them **by June 9**, **2023** to: <u>Jeffrey.Barr@usda.gov</u>

Matt Oliver, State Easement Specialist, discussed the opportunities for Agricultural Conservation Easement Programs (ACEP) in WV. Funding is also expected to increase for ACEP through IRA through 2031.

Christi Hicks, Acting Assistant State Conservationist for Management and Strategy, reviewed the WV NRCS staffing plan and common agreements that could be utilized by the partnership to assist in IRA funding implementation.

Dustin Adkins, Urban Conservationist, reviewed how NRCS WV modified a national initiative for urban agriculture to better fit and benefit WV producers. This can be replicated with IRA funding for CSAF practices.

Laura reviewed targeted efforts for the Conservation Stewardship Program.

Julie Stutler, Outreach Coordinator, discussed planned outreach efforts at the field and state level. We request that partnering agencies engage with field offices with outreach and send any opportunities to partnership on outreach to <u>Julie.Stutler@usda.gov</u>.

Todd Miller, The Nature Conservancy, discussed the opportunity for agreements and adding capacity to complete IRA related planning efforts specific to forestry.

Kent Adams, Pheasants Forever, discussed their partnership with NRCS and their interest in grazing and early successional habitat in woodland. Kent requested more information on EQIP CIC- Laura explained that CIC was targeted to the entire state and towards Early Successional Habitat Development/Management (tied to Upland Wildlife Habitat Development, a CSAF practice).

Morgan Harris discussed the Hellbender Initiative in WV and the possibility of additional funding, focusing on Riparian Forest Buffers through both EQIP and CSP. He also discussed the need for assistance on outreach events and conferences to promote programs.

Other comments received via the Teams Chat from Joe Hatton, West Virginia Department of Agriculture:

First: We need assistance with getting more dead animal composting or other disposal systems installed across WV.

Second: The demographics of WV agriculture are changing with more veterans and women are involved. Existing farmers are getting older so the request has been shared we identify a process to help folks with livestock handling facilities. When found on farms we frequently see these areas as heavy abuse areas with erosion and accumulated manure. This challenge is necessary for both environmental and human/animal safety.

The third matter is to enhance brush management adoption to improve the control of invasive plant species.

Fourth: increase in energy audits and a connection to RD for assistance to increase energy diversification. The few dairy farms we have left are significant users of electricity, orchards and sugar bush camps are heavy users of energy and need to explore cost reductions.

Attendees were encouraged to reach out to NRCS WV staff to discuss ways to collaborate on capacity building, outreach, conservation practice planning/implementation, and agreements related to IRA funding.

Meeting adjourned at 11:30am

A recording of the meeting can be found <u>here.</u>





#### NRCS, Climate and the Inflation Reduction Act (IRA)



### Inflation Reduction Act (IRA)

• Signed into law by President Biden in August 2022



- The IRA provides NRCS with \$19.5 billion in **additional** funds for its **existing** conservation programs:
  - \$8.45 billion Environmental Quality Incentives Program (EQIP)
  - \$4.95 billion Regional Conservation Partnership Program (RCPP)
  - \$3.25 billion Conservation Stewardship Program (CSP)
  - \$1.4 billion Agricultural Conservation Easement Program (ACEP)
  - \$1 billion Conservation Technical Assistance
  - The IRA does not create any new programs it gives NRCS additional funds to expand its existing climate efforts and satisfy unmet demand
  - IRA funds begin in fiscal year 2023; all IRA funds must be spent by September 30, 2031



### NRCS, Producers and the IRA



- Agricultural producers can play a critical role in reducing greenhouse gas emissions, sequestering carbon, and deliver lasting solutions to the climate crisis
- NRCS supports farmers, ranchers, and private forest landowners in meeting their conservation goals, *regardless of the size, location, and type of operation*
- IRA provides an opportunity to expand this support, with a focus on climate change mitigation



## **The IRA Focuses on Mitigation**

| Clima<br>and F                                     | ate<br>For                     | -Smart Ag<br>estry (CSA<br>s List <sup>[1]</sup> FY                             | ricult<br>F) Mi            |   |  |  |  |  |
|--|--------------------------------|---|----------------------------|---|--|--|--|--|
| limate Change<br>ditigation Practice<br>Categories | Code                           | Conservation Practice<br>Standard Name <sup>[2]</sup> (units)                   | CSP<br>Enhancement<br>Code | Conservation Stewardship Program (CSP) Bundle and Enhancement Activity  |  |  |  |  |
|  | -                              |   | B000BFF1                   | Buffer Bundle#1*  |  |  |  |  |
|  |                                |   | B000CPL24                  | Cropland soil health management system*   |  |  |  |  |
|  |                                |   | B000CPL25                  | Climate smart advanced soil health*   |  |  |  |  |
|  | 327 Conservation Cover (acres) |   | E327A                      | Conservation cover for pollinators and beneficial insects   |  |  |  |  |
|  | H                              |   | E327B<br>E328A             | Establish Monarch butterfly habitat   |  |  |  |  |
|  |                                | 1   | E328A<br>E328B             | Resource conserving crop rotation<br>Improved resource conserving crop rotation   |  |  |  |  |
|  |                                |   | E328E                      | Soil health crop rotation   |  |  |  |  |
|  | 328                            | Conservation Crop Rotation  | E328F                      | Modifications to improve soil health and increase soil organic matter   |  |  |  |  |
|  | 328                            | (acres)   | E328G                      | Crop rotation on recently converted CRP grass/legume cover for soil organic matter  |  |  |  |  |
|  |                                |   |                            | improvement   |  |  |  |  |
|  |                                |   | E328N                      | Intercropping to improve soil health  |  |  |  |  |
|  | ⊢                              |   | E328O<br>E329A             | Perennial grain crop conservation rotation<br>No till to reduce soil erosion  |  |  |  |  |
|  | 329                            |   | E329B                      | No till to reduce soil erosion<br>No till to reduce tillage induced particulate matter  |  |  |  |  |
|  |                                | Residue and Tillage<br>Management, No Till (acres)                              | E329C                      | No till to increase plant-available moisture  |  |  |  |  |
|  |                                |   | E329D                      | No till system to increase soil health and soil organic matter content  |  |  |  |  |
|  |                                |   | E329E                      |   |  |  |  |  |
|  | 332                            | Contour Buffer Strips (acres)   |                            | None Available  |  |  |  |  |
|  |                                |   | E340A                      | Cover crop to reduce soil erosion   |  |  |  |  |
|  | I                              |   | E340B                      | Intensive cover cropping to increase soil health and soil organic matter content  |  |  |  |  |
|  | 340                            |   | E340C                      | Use of multi-species cover crops to improve soil health and increase soil organic matter  |  |  |  |  |
|  |                                | Cover Crop (acres)  | E340D<br>E340E             | Intensive orchard/vineyard floor cover cropping to increase soil health<br>Cover crop to minimize soil compaction   |  |  |  |  |
| oil Health   |                                |   | E340F                      | Cover crop to minimize soil compaction<br>Cover crop to reduce water quality degradation by utilizing excess soil nutrients   |  |  |  |  |
|  | 1                              |   | E340G                      | Cover crop to reduce water quarty degradation by unitaling excess soil nutrients<br>Cover crop to suppress excessive weed pressures and break pest cycles                         |  |  |  |  |
|  |                                |   | E340I                      | Using cover crops for biological strip till   |  |  |  |  |
|  |                                |   | E345A                      | Reduced tillage to reduce soil erosion  |  |  |  |  |
|  |                                | Residue and Tillage   | E345B                      | Reduced tillage to reduce tillage induced particulate matter  |  |  |  |  |
|  | 345                            | Management, Reduced Till<br>(acres)   | E345C                      | Reduced tillage to increase plant-available moisture  |  |  |  |  |
|  |                                |   | E345D                      | Reduced tillage to increase soil health and soil organic matter content   |  |  |  |  |
|  | L                              |   | E345E                      | Reduced tillage to reduce energy use  |  |  |  |  |
|  |                                |   | E386A                      | Enhanced field borders to reduce soil erosion along the edge(s) of a field  |  |  |  |  |
|  |                                |   | E386B                      | Enhanced field borders to increase carbon storage along the edge(s) of the field  |  |  |  |  |
|  | 386                            | Field Border (acres)  | E386C<br>E386D             | Enhanced field borders to decrease particulate emissions along the edge(s) of the field<br>Enhanced field borders to increase food for pollinators along the edge(s) of a field   |  |  |  |  |
|  |                                |   | E386D<br>E386E             | Enhanced field borders to increase food for pollinators along the edge(s) of a field<br>Enhanced field borders to increase wildlife food and habitat along the edge(s) of a field |  |  |  |  |
|  | 393                            | Filter Strips (acres)   | E393A                      | Extend existing filter strip to reduce water quality impacts  |  |  |  |  |
|  | 412                            | Grassed Waterways (acres)   | E412A                      | Enhance a grassed waterway  |  |  |  |  |
|  |                                |   | E484A                      | Mulching to improve soil health   |  |  |  |  |
|  |                                |   | E484B                      | Reduce particulate matter emissions by using orchard or vineyard generated woody  |  |  |  |  |
|  | 484                            | Mulching (acres)  | E484C                      | materials as mulch<br>Reduce particulate matter emissions by using orchard or vineyard generated woody  |  |  |  |  |
|  |                                |   |                            | materials as mulch  |  |  |  |  |
|  |                                |   |                            |   |  |  |  |  |
|  | 585                            | Stripcropping (acres)   | -                          |   |  |  |  |  |
|  | 585<br>601<br>603              | Stripcropping (acres)<br>Vegetative Barriers (feet)<br>Herbaceous Wind Barriers |                            | None Available  |  |  |  |  |

- The IRA directs NRCS to use the additional funds specifically for **climate change** <u>mitigation</u>.
- Mitigation activities reduce greenhouse gas emissions and improve carbon storage.
- FY23 list of NRCS climate-smart mitigation activities: <u>nrcs.usda.gov/mitigation-activities.pdf</u>
- NRCS is continually evaluating mitigation activities and IRA implementation approach and will update them as appropriate.
  - Federal Register notice (Nov. 21, 2022)



## **Facilitating Practices Enable Mitigation**

#### Tree/Shrub Establishment (612)

Tree Shrub Site Preparation (490) Access Control (472)

#### **Conservation Crop Rotation (328)**

Cover Crops (340) Irrigation Water Management (449) Pest Management Conservation System (595)

#### Waste Separation Facility (632)

Waste Transfer (634) Roofs and Covers (367)

#### Prescribed Grazing (528)

Watering Facility (614) Stream Crossing (578) Fence (382) Livestock Shelter Structure (576)

#### **Upland Wildlife Habitat Management (645)**

Brush Management (314) Herbaceous Weed Treatment (315) Prescribed Grazing (528)

- IRA funding can also be used for practices needed to *facilitate a mitigation practice*.
- Here are some examples of conservation systems that include mitigation practices and the practices that may be needed to facilitate them.





### **Conservation Systems' Multiple Benefits**



- Conservation systems may also provide other benefits besides climate change mitigation:
  - Reducing risks and vulnerabilities and building resilience to climate change impacts (*climate change adaptation*)
  - Addressing other resource concerns like soil health, water quality, pollinator and wildlife habitat, and air quality
- Although many conservation practices can provide other benefits, practices without mitigation benefits are not eligible for IRA funding unless they are needed to facilitate a mitigation practice.



# **IRA Strategy for West Virginia**



- WV plans to focus its IRA funds on the following mitigation practices (and any facilitating practices):
  - Cover Crop
  - On-Farm Energy
  - Maple Syrup (Energy)
  - Grazing
  - Forestry

In the future, WV might also entertain nutrient management related systems, like Waste Storage Facilities.



# **Applying for Programs in FY23**



- NRCS accepts producer applications for its conservation programs year-round.
- Producers interested in EQIP or CSP should apply by April 14, 2023 to be considered for funding in the current cycle. Funding is provided through a competitive process.
- ACEP applications for the current IRA funding cycle must be submitted by March 17, 2023, for the first funding round.
- NRCS plans to roll out the next RCPP funding opportunity in early spring, which will include IRA funds for fiscal year 2023.



# EQIP

- \$1.17 million
- Round 2 timeline will follow CSP
- Fund Pools
  - On-Farm Energy
  - AH, Maple Syrup
  - Cover Crops
  - Grazing
  - CSAF Forestry (?)
  - EQIP CIC (maximum 20%)



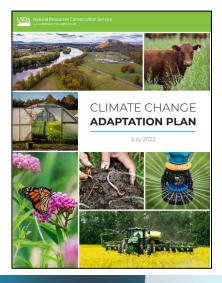
#### CSP

- \$1.375 million
- Only one round
- Fund Pools
  - Ag Land
  - NIPF
  - No separate BFR or SDFR
- Need approx. 70 applications to meet our IRA allocation



## **IRA and Other Climate Efforts**

- Supporting <u>Climate-Smart Agriculture and Forestry (CSAF)</u> is a priority, including recent efforts to <u>improve nutrient</u> <u>management</u>, <u>support soil carbon monitoring</u> and <u>streamline cover crop enrollment</u>. Visit <u>farmers.gov/climate-</u> <u>smart</u> to learn more.
- NRCS's Climate Change Adaptation Plan identifies climate vulnerabilities and actions to integrate climate change into NRCS programs, operations and decision-making.
- <u>USDA Climate Hubs</u> develop and deliver science-based information and technologies
- The <u>Partnerships for Climate Smart Commodities</u> opportunity invests \$3.1 billion for 141 projects designed to expand markets for American producers who produce climate-smart commodities



PARTNERSHIPS FOR CLIMATE-SMART COMMODITIES





WV State Technical Committee Inflation Reduction Act (IRA)



May 17<sup>th</sup>, 2023



# Staffing Needs – National Level

|       | NRCS Federal Staff Hiring | Projected Partnership Staffing | Annual Total Need |
|-------|---------------------------|--------------------------------|-------------------|
|       |                           |                                |                   |
| FY 23 | 673                       | 448                            | 1,121             |
| FY 24 | 1,567                     | 1,044                          | 2,611             |
|       |                           |                                |                   |
| FY 25 | 1,177                     | 784                            | 1,961             |
| EV 2C | 4 050                     | 705                            | 1 762             |
| FY 26 | 1,058                     | 705                            | 1,763             |
|       | 4,474                     | 2,982                          | 7,456             |



### WV NRCS Staff At A Glance

|                          | Existing NRCS Staff | FY23 Staffing Plan | Total Vacancies |
|--------------------------|---------------------|--------------------|-----------------|
| STATE OFFICE             | 36                  | 42                 | 6               |
|                          |                     |                    |                 |
| NORTH AREA OFFICE        | 10                  | 16                 | 6               |
|                          |                     |                    |                 |
| NORTH AREA FIELD OFFICES | 28                  | 35                 | 7               |
| NORTH AREA TOTALS        | 38                  | 51                 | 13              |
|                          |                     |                    |                 |
| SOUTH AREA OFFICE        | 13                  | 19                 | 6               |
|                          |                     |                    |                 |
| SOUTH AREA FIELD OFFICES | 27                  | 41                 | 14              |
| SOUTH AREA TOTALS        | 40                  | 60                 | 20              |

Total Current WV Vacancies: Existing WV Staff = 114 Existing WV Vacancies = 39

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# Capacity Building- WEST VIRGINIA

- Staffing Plan updated May 2023. Final to be reviewed in early June.
- Hiring/Partners/Students
  - Current Vacancies Awaiting Announcement:
    - 20 @ Field Offices
    - 4 @ Area Offices
    - 6 @ State Offices
  - New agreements to bolster Partner Efforts in FY23
  - FY24-FY26 Partner Staff Opportunities!

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# Grants & Agreements (Common Types)

#### **Grant agreement**

- Financial assistance between a Federal agency and a non-Federal entity with the principal purpose giving the non-Federal entity federal resources to carry out a public purpose (see 31 U.S.C. Section 6101(3)).
- Distinguished from a cooperative agreement in that it does not provide for substantial involvement between the Federal awarding agency and the non-Federal entity.
- It may not be used to procure products or services for the primary benefit of the Government.
- No financial contribution from the non-federal agency.



#### USDA United States Department of Agriculture

#### **Grants & Agreements (Types)**

#### **Cooperative agreement**

- Distinguished from a grant agreement in that it provides for substantial involvement between the Federal awarding agency and the non-Federal entity in carrying out the activity funded by the award.
- It may not be used to procure products or services for the primary benefit of the Government.
- Cooperative agreements may or may not require recipient cost share, depending on program and Agency requirements.
- Requires "competitive sourcing" since no entity "match."



#### USDA United States Department of Agriculture

#### **Grants & Agreements (Types)**

#### **Contribution agreement – Most common in WV**

- A unique non-assistance cooperative agreement type available only to NRCS established by 7 U.S.C. Section 6962(a).
- Acquisition of goods or services is permissible, when the objectives of the agreement will serve a mutual interest of the parties to the agreement in carrying out NRCS programs.
- All parties must contribute resources to the accomplishment of these objectives.
- Contribution agreements do not require competition
- Typically, 50/50 from both NRCS and the partner. However, can be as low as 25% contribution from the partner with a "hardship waiver" approval.



### **Documentation Examples**

- GAD Statement of Work
- Budget Narrative
- <u>SF-270</u> (Request for Advance or Reimbursement) Quarterly
- SF-425 (Federal Financial Report) annually
- <u>Performance Report</u> Bi-Annually



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# FY 23 Partner Agreement Examples

**Jnited States Department of Agriculture** 

- American Joint Venture: Employ up to six (5) positions to increase landowner outreach and technical assistance, develop forest management plans, provide logger oversight, coordinate with consulting foresters, and help build additional contractor capacity for conducting pre-commercial treatments.
- **Trout Unlimited:** Fund Stream Restoration Specialist positions and Stream Conservation Planner positions to assist with the planning, designing, and/or overseeing construction of projects to stabilize streambanks, improve water quality and fish habitat, improve grazing land, and mitigate climate change in WV.
- West Virginia State University (WVSU): Leverage resources from both entities to provide outreach and support to small-scale and/or urban agricultural producers with a focus on building a sustainable and climate smart local food system in traditionally underserved communities.
- West Virginia Conservation Agency (WVCA): Leverage resources to increase efficiency and coordination of local sponsors for NRCS Watershed Program assisted projects in West Virginia. Specific staff will be assigned various watershed duties to increase capacity and communication across the state.

# FY2024 New Partnership Opportunities Discussion

#### **<u>Climate Smart Agriculture Practices</u>**

- Nutrient Management Focus
- Prescribed Grazing Assistance
- Riparian Forest Buffers

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#### **Index of Conservation Practice Standards**

#### West Virginia

| Practice Name and Units                         | Practice<br>Code | Date of<br>Current<br>CPS | Lead<br>Discipline | Practice<br>Lifespan |
|---|------------------|---------------------------|--------------------|----------------------|
| Access Control (ac)                             | 472              | 02/18                     | ECS                | 10                   |
| Access Road (ft)                                | 560              | 11/22                     | ENG                | 10                   |
| Agrichemical Handling Facility (no)             | 309              | 12/15                     | ENG                | 15                   |
| Alley Cropping (ac)                             | 311              | 02/18                     | ECS                | 15                   |
| Amending Soil Properties with Lime (ac)         | 805              | 12/22                     | ENG                | 1                    |
| Animal Mortality Facility (no)                  | 316              | 10/16                     | ENG                | 15                   |
| Annual Forages for Grazing Systems (ac)         | 810              | 12/21                     | ECS                | 1                    |
| Aquatic Organism Passage (mi)                   | 396              | 02/18                     | ECS                | 5                    |
| Brush Management (ac)                           | 314              | 10/17                     | ECS                | 10                   |
| Channel Bed Stabilization (ft)                  | 584              | 10/16                     | ENG                | 10                   |
| Clearing and Snagging (ft)                      | 326              | 02/19                     | ENG                | 5                    |
| Composting Facility (no)                        | 317              | 11/22                     | ENG                | 15                   |
| Conservation Cover (ac)                         | 327              | 11/19                     | ECS                | 5                    |
| Conservation Crop Rotation (ac)                 | 328              | 12/16                     | ECS                | 1                    |
| Constructed Wetland (ac)                        | 656              | 02/18                     | ENG                | 15                   |
| Contour Buffer Strips (ac)                      | 332              | 04/11                     | ECS                | 5                    |
| Contour Farming (ac)                            | 330              | 01/17                     | ECS                | 5                    |
| Contour Orchard and Other Perennial Crops (ac)  | 331              | 02/18                     | ECS                | 10                   |
| Cover Crop (ac)                                 | 340              | 05/19                     | ECS                | 1                    |
| Critical Area Planting (ac)                     | 342              | 04/11                     | ECS                | 10                   |
| Dam (no)  | 402              | 03/19                     | ENG                | 15                   |
| Dam, Diversion (no)                             | 348              | 08/11                     | ENG                | 15                   |
| Deep Tillage (ac)                               | 324              | 02/18                     | ECS                | 1                    |
| Denitrifying Bioreactor (no)                    | 605              | 11/22                     | ENG                | 10                   |
| Dike (ft)                                       | 356              | 09/13                     | ENG                | 20                   |
| Diversion (ft)                                  | 362              | 10/16                     | ENG                | 10                   |
| Drainage Water Management (ac)                  | 554              | 01/23                     | ENG                | 1                    |
| Dry Hydrant (no)                                | 432              | 02/23                     | ENG                | 15                   |
| Early Successional Habitat Development-Mgt (ac) | 647              | 10/20                     | ECS                | 1                    |
| Emergency Animal Mortality Management (no)      | 368              | 10/16                     | ENG                | 1                    |
| Energy Efficient Agricultural Operation (no)    | 374              | 02/23                     | ENG                | 10                   |
| Energy Efficient Building Envelope (no)         | 672              | 11/22                     | ENG                | 10                   |
| Energy Efficient Lighting System (no)           | 670              | 11/22                     | ENG                | 10                   |
| Feed Management (au)                            | 592              | 10/17                     | ECS                | 1                    |
| Fence (ft)                                      | 382              | 03/19                     | ECS                | 20                   |
| Field Border (ac)                               | 386              | 11/13                     | ECS                | 10                   |
| Filter Strip (ac)                               | 393              | 04/11                     | ECS                | 10                   |
| Firebreak (ft)                                  | 394              | 10/17                     | ECS                | 5                    |
| Fishpond Management (ac)                        | 399              | 02/23                     | ECS                | 1                    |
| Forage and Biomass Planting (ac)                | 512              | 05/11                     | ECS                | 5                    |
| Forage Harvest Management (ac)                  | 512              | 04/11                     | ECS                | 1                    |

| Practice Name and Units  | Practice<br>Code | Date of<br>Current<br>CPS | Lead<br>Discipline | Practice<br>Lifespan |
|--|------------------|---------------------------|--------------------|----------------------|
| Forest Stand Improvement (ac)  | 666              | 01/16                     | ECS                | 10                   |
| Forest Trails and Landings (ac)  | 655              | 02/18                     | ECS                | 5                    |
| Grade Stabilization Structure (no)                                     | 410              | 12/15                     | ENG                | 15                   |
| Grassed Waterway (ac)  | 412              | 11/22                     | ENG                | 10                   |
| Groundwater Testing (no)   | 355              | 12/15                     | ENG                | 1                    |
| Heavy Use Area Protection (sf)   | 561              | 11/22                     | ENG                | 10                   |
| Hedgerow Planting (ft)   | 422              | 02/19                     | ECS                | 15                   |
| Herbaceous Weed Treatment (ac)   | 315              | 10/17                     | ECS                | 5                    |
| High Tunnel System (sf)  | 325              | 03/16                     | ECS                | 5                    |
| Irrigation Pipeline (ft)   | 430              | 11/22                     | ENG                | 20                   |
| Irrigation Reservoir (no)  | 436              | 11/22                     | ENG                | 15                   |
| Irrigation System, Microirrigation (ac)                                | 441              | 02/23                     | ENG                | 15                   |
| frrigation Water Management (ac)                                       | 449              | 11/22                     | ENG                | 1                    |
| Land Clearing (ac)   | 460              | 11/22                     | ENG                | 10                   |
| Lined Waterway or Outlet (ft)  | 468              | 10/19                     | ENG                | 15                   |
| Livestock Pipeline (ft)  | 516              | 03/19                     | ENG                | 20                   |
| Livestock Shelter Structure (no)                                       | 576              | 11/22                     | ENG                | 10                   |
| Low Tunnel Systems (sf)  | 821              | 12/22                     | ECS                | 1                    |
| Mulching (ac)  | 484              | 12/22                     | ECS                | 1                    |
| Multi-Story Cropping (ac)  | 379              | 03/17                     | ECS                | 10                   |
| Nutrient Management (ac)   | 590              | 09/20                     | ECS                | 1                    |
| Obstruction Removal (no)   | 500              | 11/22                     | ENG                | 10                   |
| Open Channel (ft)  | 582              | 05/16                     | ENG                | 10                   |
|  | 595              | 05/10                     | ECS                | 13                   |
| Pest Management Conservation System (ac)<br>Pond (no)                  | 393<br>378       | 03/19                     | EUS                | 20                   |
|  | 522              |                           |                    | 20<br>20             |
| Pond Sealing or Lining - Concrete (sf)                                 |                  | 01/17                     | ENG                |                      |
| Pond Sealing or Lining, Compacted Soil<br>Treatment (sf)               | 520              | 01/17                     | ENG                | 15                   |
| Pond Sealing or Lining, Geomembrane or<br>Geosynthetic Clay Liner (sf) | 521              | 05/19                     | ENG                | 20                   |
| Precision Land Forming and Smoothing (ac)                              | 462              | 02/23                     | ENG                | 10                   |
| Prescribed Grazing (ac)  | 528              | 01/17                     | ECS                | 1                    |
| Pumping Plant (no)   | 533              | 12/15                     | ENG                | 15                   |
| Raised Beds (sf)   | 812              | 12/22                     | ECS                | 5                    |
| Recreation Land Improvement and Protection (ac)                        | 566              | 02/23                     | ENG                | 15                   |
| Residue and Tillage Management, No Till (ac)                           | 329              | 01/17                     | ECS                | 1                    |
| Residue and Tillage Management, Reduced Till (ac)                      | 345              | 08/18                     | ECS                | 1                    |
| Restoration of Rare or Declining Natural<br>Communities (ac)           | 643              | 10/17                     | ECS                | 1                    |
| Riparian Forest Buffer (ac)  | 391              | 05/16                     | ECS                | 15                   |
| Riparian Herbaceous Cover (ac)   | 390              | 02/23                     | ECS                | 5                    |
| Road-Trail-Landing Closure and Treatment (ft)                          | 654              | 02/18                     | ECS                | 10                   |
| Roof Runoff Structure (no)   | 558              | 12/15                     | ENG                | 15                   |
| Roofs and Covers (no)  | 367              | 10/16                     | ENG                | 10                   |
|  | 201              | 10/10                     | L 10               | 10                   |

| Practice Name and Units                         | Practice<br>Code | Date of<br>Current<br>CPS | Lead<br>Discipline | Practice<br>Lifespan |
|---|------------------|---------------------------|--------------------|----------------------|
| Shallow Water Development and Management        | 646              | 02/19                     | ECS                | 5                    |
| (ac)  |                  |                           |                    |                      |
| Silvopasture (ac)                               | 381              | 10/16                     | ECS                | 15                   |
| Sinkhole Treatment (no)                         | 527              | 02/23                     | ENG                | 10                   |
| Spoil Disposal (cf)                             | 572              | 11/22                     | ENG                | 1                    |
| Spring Development (no)                         | 574              | 07/15                     | ENG                | 20                   |
| Sprinkler System (ac)                           | 442              | 02/23                     | ENG                | 15                   |
| Stormwater Runoff Control (ac)                  | 570              | 11/22                     | ENG                | 1                    |
| Stream Crossing (no)                            | 578              | 10/19                     | ENG                | 10                   |
| Stream Habitat Improvement and Management       | 395              | 02/23                     | ECS                | 5                    |
| (ac)  |                  |                           |                    |                      |
| Streambank and Shoreline Protection (ft)        | 580              | 12/12                     | ENG                | 20                   |
| Stripcropping (ac)                              | 585              | 02/18                     | ECS                | 5                    |
| Structure for Water Control (no)                | 587              | 05/19                     | ENG                | 20                   |
| Structures for Wildlife (no)                    | 649              | 09/20                     | ECS                | 5                    |
| Subsurface Drain (ft)                           | 606              | 05/20                     | ENG                | 20                   |
| Trails and Walkways (ft)                        | 575              | 11/22                     | ENG                | 10                   |
| Tree-Shrub Establishment (ac)                   | 612              | 05/16                     | ECS                | 15                   |
| Tree-Shrub Pruning (ac)                         | 660              | 01/15                     | ECS                | 10                   |
| Tree-Shrub Site Preparation (ac)                | 490              | 12/22                     | ECS                | 1                    |
| Underground Outlet (ft)                         | 620              | 12/15                     | ENG                | 20                   |
| Upland Wildlife Habitat Management (ac)         | 645              | 02/23                     | ECS                | 1                    |
| Vegetated Treatment Area (ac)                   | 635              | 10/17                     | ENG                | 10                   |
| Vegetative Barrier (ft)                         | 601              | 06/10                     | ECS                | 5                    |
| Waste Facility Closure (no)                     | 360              | 05/20                     | ENG                | 15                   |
| Waste Recycling (no)                            | 633              | 05/19                     | ENG                | 1                    |
| Waste Separation Facility (no)                  | 632              | 02/23                     | ENG                | 15                   |
| Waste Storage Facility (no)                     | 313              | 02/22                     | ENG                | 15                   |
| Waste Transfer (no)                             | 634              | 02/23                     | ENG                | 15                   |
| Waste Treatment (no)                            | 629              | 11/22                     | ENG                | 10                   |
| Wastewater Treatment, Milk House (no)           | 627              | 02/23                     | ENG                | 10                   |
| Water and Sediment Control Basin (no)           | 638              | 12/19                     | ENG                | 10                   |
| Water Well (no)                                 | 642              | 12/15                     | ENG                | 20                   |
| Watering Facility (no)                          | 614              | 12/15                     | ENG                | 10                   |
| Well Decommissioning (no)                       | 351              | 01/23                     | ENG                | 20                   |
| WETLAND CREATION (ac)                           | 658              | 02/18                     | ECS                |                      |
| Wetland Enhancement (ac)                        | 659              | 02/23                     | ECS                | 15                   |
| WETLAND RESTORATION (ac)                        | 657              | 02/19                     | ECS                | 15                   |
| Wetland Wildlife Habitat Management (ac)        | 644              | 02/13                     | ECS                | 1                    |
| Wildlife Habitat Planting (ac)                  | 420              | 11/19                     | ENG                | 5                    |
| Windbreak-Shelterbelt Establishment and         | 380              | 11/22                     | ECS                | 15                   |
| Renovation (ft)<br>Woody Residue Treatment (ac) | 384              | 02/18                     | ECS                | 10                   |