

Conservation Stewardship Program – Practice List for Cultural Resources Review (updated March 2014)

| <p><u>Environmental and cultural resources compliance for the Conservation Stewardship Program (CSP) is to be carried out in the same manner as compliance for any other conservation program or activity. Under CSP, NRCS is providing payments to participants who undertake enhancement activities and apply new conservation practices. The majorities of CSP enhancements are directly associated with and are an extension of existing practices. The chart below provides guidance as to which conservation practice standard each CSP enhancement is identified with as in the criteria or considerations.</u></p> | | | | <p>CSP Practices that <i>do</i> require or <i>could</i> require Cultural Resources Review (depending on level of disturbance) are identified below – see corresponding notes in this table and below the table for detailed explanations</p> |
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| Code | NRCS Related Practice Code | Enhancement Name | NRCS Practice Name | Cultural Resources Review (No Review if blank) |
| AIR03 | 370 | Replace burning of prunings, removals and other crop residues with non-burning alternatives | Atmospheric Resource Quality management | |
| AIR04 | 370/595 | Use drift reducing nozzles, low pressures, lower boom height, and adjuvants to reduce pesticide drift | Atmospheric Resource Quality management & Pest Management | |
| AIR07 | 370/595 | GPS, targeted spray application (SmartSprayer), or other chemical application electronic control technology | Atmospheric Resource Quality management & Pest Management | |
| AIR08 | 590 | Nitrification inhibitors or urease inhibitors | Nutrient Management | |
| ANM03 | 512 | Incorporate native grasses and/or legumes into 15% or more of the forage base | Pasture and Hay planting | |
| ANM05 | 391 | Extending riparian forest buffers for water quality protection and wildlife habitat | Riparian Forest Buffer | 391 is a potential Undertaking for CR Review |
| ANM07 | 386 | Extending existing field borders for water quality protection and wildlife habitat | Field Border | |
| ANM09 | 381, 528, 645 | Grazing management to improve wildlife habitat | Prescribed Grazing | 645 is a potential Undertaking for CR Review |
| ANM10 | 511 | Harvest hay in a manner that allows wildlife to flush and escape | Forage Harvest Management | |
| ANM11 | 338, 645 | Patch-burning to enhance wildlife habitat | Prescribed Burning & Upland Wildlife Habitat Management | 338 and 645 are potential Undertakings for CR Review |
| ANM12 | 356, 587, 644, 646 | Shallow water habitat | Wetland Wildlife Habitat Management, Shallow Water Development and Management, Dike, Structure for Water Control | All are considered potential Undertakings for CR Review |
| ANM17 | 528 | Monitoring nutritional status of livestock using the NUTBAL PRO System | Prescribed Grazing | |
| ANM21 | 550, 528 | Prairie restoration for grazing and wildlife habitat | Range Planting & Prescribed Grazing | |
| ANM23 | 512, 550, 528 | Multi-species Native Perennials for Biomass/Wildlife Habitat | Forage and Biomass Planting, Range Planting, Prescribed Grazing | |
| ANM25 | 528 | Stockpiling Forages to Extend Grazing Season | Prescribed Grazing | |
| ANM26 | 528 | Managing Calving to Coincide with Forage Availability | Prescribed Grazing | |
| ANM27 | 382 | Wildlife Friendly Fencing | Fence | |

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| ANM29 | 382, 516, 528, 614 | On-Farm Forage Based Grazing System | Prescribed Grazing, Watering Facility, Pipeline, Fence | 516 is a potential Undertaking (above ground vs. buried) and 614 is an Undertaking |
| ANM31 | 554, 587, 644, 645, 654 | Ultra-High Density Grazing System to Improve Soil Quality | Drainage Water Management, Wetland Wildlife Habitat Management | 644 is potential Undertaking for CR Review |
| ANM32 | 390, 393 | Extend existing filter strips or riparian herbaceous cover for water quality protection and wildlife habitat | Riparian Herbaceous Cover, Filter Strip | Both 390 and 393 are potential Undertakings for CR Review |
| ANM33 | 390, 391 | Riparian Buffer, terrestrial and aquatic wildlife habitat | Riparian Herbaceous Cover, Riparian Forest Buffer | Both 390 and 391 are potential Undertakings for CR Review |
| ANM34 | 645 | Leaving standing grain crops unharvested to benefit wildlife | Upland Wildlife Habitat Management | 645 is a potential Undertaking for CR Review |
| ANM35 | 381, 511, 645 | Enhance Wildlife habitat on expired grass/legume covered CRP acres or acres with similar perennial vegetated cover managed as hayland | Forest Harvest Management | 645 is a potential Undertaking for CR Review |
| ANM36 | 338, 666 | Enhance wildlife habitat on expired tree covered CRP acres or acre with similar woody cover managed as forestland | Forest Stand Improvement | |
| ANM37 | 528 | Prescriptive Grazing management system for grazing lands (includes expired CRP grass/legume or tree converted to grazing lands) | Prescribed Grazing | |
| AN38 | 614 | Retrofit watering facility for wildlife escape and enhanced access for bats and bird species | Watering Facility | 614 is an Undertaking requiring review for CR |
| CCR99 | 328 | Resource-Conserving Crop Rotation | Conservation Crop Rotation | |
| ENR01 | 328/329 | Fuel use reduction for field operations | Conservation Crop Rotation, Residue and Tillage management/No Till/Strip Till/Direct Seed | |
| ENR09 | 374 | Variable Frequency Drive Electric Motors | | |
| ENR10 | 340, 590 | Using N provided by legumes, animal manure and compost to supply 90-100% of the N needs | Nutrient Management, Cover Crops | |
| ENR11 | 311 | Improving energy feedstock production using alley cropping systems with short rotation woody crops | Alley Cropping | |
| ENR12 | 340, 590 | Use of legume cover crops as an N source | Cover Crop, Nutrient Management | |
| FPP02 | | On-farm pilot projects | | |
| FRD01 | | On-farm research and demonstrations | Prescribed Grazing | |
| PLT02 | 528 | Monitor key grazing areas to improve grazing management | Prescribed Grazing | |

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| PLT05 | 379/666 | Multi-story cropping, sustainable management of nontimber forest plants | Multi-Story Cropping, Prescribed Forestry, Forest Stand Improvement | |
| PLT06 | 650 | Renovation of a windbreak, shelter belt or hedgerow for wildlife habitat | Windbreak/Shelterbelt Renovation | 650 is a potential Undertaking for CR Review |
| PLT15 | 327, 386, 332, 422, 645, 647 | Establish pollinator and/or beneficial insect habitat | Conservation Cover, Field Border, Contour Buffer Strips, Hedge Row Planting, Upland Wildlife Habitat Management, Early Successional Habitat Development/Management | 422 and 645 are potential Undertakings for CR review |
| PLT16 | 382, 516, 528, 614 | Intensive Rotational Grazing | Prescribed Grazing, Watering Facility, Pipeline, Fence | 516 and 614 are potential Undertakings for CR Review |
| PLT17 | 666 | Creating forest openings to improve hardwood stands | Forest Stand Improvement | |
| PLT18 | 311, 391, 645, 647, 650 | Increasing on-farm production with edible woody buffer landscapes | Alley Cropping, Riparian Forest Buffer, Upland Wildlife Habitat Management, Early Successional Habitat Development/Management, Windbreak/Shelterbelt Renovation | 391, 645, 650 are all potential Undertakings for CR Review |
| PLT19 | 328, 595 | Herbicide resistant weed management | Forest Stand Improvement | |
| PLT20 | 340 | High residue cover crop mixtures of high residue cover crops for weed suppression and soil health | Cover Crop | |
| PLT21 | 338, 666 | Forest Stand Improvement pre-treating vegetation and fuels preceding a prescribed fire | Prescribed Burning | 666 is a potential Undertaking for CR review |
| SOE05 | 329/340 | Intensive no till (Organic and Non-organic systems) | Residue and Tillage Management, No-Till/Strip Till/Direct Seed/Cover Crop | |
| SQL01 | | Controlled traffic system | N/A | |
| SQL04 | 340 | Use of cover crop mixes | Cover Crop | |
| SQL05 | 340 | Use deep rooted crops to breakup soil compaction | Cover Crop | |
| SQL08 | 328 | Intercropping to Improve Soil Quality | Conservation Crop Rotation | |
| SQL9 | 512 | Conversion of cropped land to grass-based agriculture | Forage and Biomass Planting | 512 is a potential Undertaking for CR review |
| SQL10 | 329, 340 | Crop Management system where crop land acres were recently converted from CRP grass/legume cover or similar perennial vegetation | Residue and Tillage Management, No-Till/Strip Till/Direct Seed, Cover Crop | |
| SQL11 | 340 | Cover cropping in orchards, vineyards and other woody perennial horticultural crops | Cover Crop | |
| SQL12 | 340 | Intensive cover cropping in annual crops | Cover Crop | |
| WQL01 | 314/595 | Biological suppression and other non-chemical techniques to manage brush and invasive species | Brush Management, Integrated Pest Management | 314 is a potential Undertaking for CR Review |
| WQL03 | 528 | Rotation of supplement and feeding areas | Prescribed Grazing | |
| WQL04 | 590 | Plant tissue tests and analysis to improve nitrogen management | Nutrient Management | |
| WQL05 | 590 | Apply nutrients no more than 30 days prior to planned planting date | Nutrient Management | |
| WQL07 | 590 | Split nitrogen applications 50% after crop emergence | Nutrient Management | |
| WQL09 | 590 | Apply phosphorus fertilizer below soil surface | Nutrient Management | |
| WQL10 | 340 | Plant a cover crop that will scavenge residual nitrogen | Cover Crop | |
| WQL11 | 590 | Precision application technology to apply nutrients | Nutrient Management | |
| WQL13 | 595 | High level integrated pest management to reduce pesticide environmental risk | Pest Management | |
| WQL14 | 629/590 | Land application of treated manure | Waste Treatment & Nutrient Management | |
| WQL17 | 340 | Use of non-chemical methods to kill cover crops | Cover Crop | |
| WQL18 | 595 | Non-chemical pest control for livestock | Pest Management | |

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| WQL19 | 528 | Transition to organic grazing systems | Prescribed Grazing | |
| WQL20 | 328, 340, 590, 595 | Transition to organic cropping systems | Conservation Crop Rotation, Cover Crop, Nutrient and Pest management | |
| WQL21 | 595 | Integrated pest management for organic farming | Pest Management | |
| WQL22 | 316, 317 | On-Farm Composting of Farm Organic Waste | Composting Facility | 317 is an Undertaking requiring review for CR |
| WQL24 | 590 | Apply enhanced efficiency fertilizer products | Nutrient Management | |
| WQL25 | 590 | Split applications of nitrogen fertilizer based on PSNT | Nutrient Management | |
| WQL27 | 554 | Drainage water management for nutrient, pathogen, or pesticide reduction | Drainage Water Management | |
| WQT01 | 449 | Irrigation system automation | Irrigation Water Management | |
| WQT03 | 533 | Irrigation pumping plant evaluation | Pumping Plant | Undertaking requiring review for CR |
| WQT05 | 449 | Remote monitoring and notification of irrigation pumping plant operation | Irrigation Water Management | |
| WQT07 | 449 | Regional weather networks for irrigation scheduling | Irrigation Water Management | |
| WQT08 | 328, 449 | Decrease irrigation water quantity or conversion to non-irrigated crop production | Conservation Crop Rotation, Irrigation Water Management | |

*Explanations for practices listed as both Undertakings and Exempt (i.e. conditional) are presented below:

Anaerobic Digester (366) – If any components (i.e. pipes, tank, waste storage) are installed underground then it is considered an Undertaking.

Brush Management (314) – Undertaking when using mechanical means. Exempt when chemical.

Critical Area Planting (342) – Undertaking when it involves grading or shaping or breaks new ground.

Filter Strip (393) - Undertaking when it involves grading or shaping or breaks new ground.

Firebreak (394) – It is an Undertaking in non-cropped areas.

Forage and Biomass Planting (512) Undertaking when new ground breaking.

Grade Stabilization (410) – Exempt when repairing or rehabbing existing structure(s) and when disturbance is limited to the originally disturbed area.

Undertaking if borrow will be acquired adjacent to the repair/rehab site or work extends outside of original footprint. In all other cases it is an Undertaking and the area of impact includes borrow areas.

Grassed Waterway (412) – Exempt when being installed in cropland. Undertaking when being installed in non-cropland or a site where the cropland history is questionable.

Hedgerow Planting (422) – Undertaking if disturbance is related to planting or renovation; Undertaking if disturbance is vertically and/or horizontally significant and/or in a high probability area for cultural resources.

Lined Waterway or Outlet (468) – If it is a new installation then it is an Undertaking. If adding a liner to a previously disturbed waterway (e.g. adding a liner on top of a waterway and anchoring down with staples) then Exempt.

Livestock Pipeline (516) – Below ground installation is considered an Undertaking, above ground is Exempt.

Pond Sealing or Lining, Compacted Clay Treatment – Could be Undertaking or Exempt depending on where the fill/soil for the lining is coming from.

Prescribed Burning (338) – Exempt in previously cropped areas. Undertaking in non-cropped areas.

Restoration and Management of Declining Habitats (643) - If implementation involves just seeding or tree planting (e.g. for CRP) - **DO NOT** send it in. 643 is sometimes a component of wetland restorations for WRP and at times trees do get removed and buried as part of that. So this is the reason it is conditional. Send it in for review if there is tree removal involved.

Riparian Forest Buffer (391) – This practice is typically installed in high probability areas therefore with any degree of site preparation or alteration it should be considered an Undertaking. If hand planting with minimal disturbance or if natural vegetation is the preferred method then it is Exempt.

Riparian Herbaceous Cover (390) – Undertaking when new or significant ground disturbance is involved.

Salinity and Sodic Soil Management (610) – When a subsurface drain or subsurface disturbance is required then it is an Undertaking. If applying chemical treatment or shallow vegetative planting then it is Exempt.

Seasonal High Tunnel Systems for Crops (798) - considered a conditional practice requiring review for cultural resources when ground disturbance will extend beyond the depth of the normal plow zone or when other associated practices will exceed the depth of this plow zone. EQIP requirements mandate that the High Tunnel practice be located in existing cultivated cropland. If providing assistance on High Tunnels outside of EQIP on previously undisturbed ground then the practice would be considered an undertaking.

Stream Habitat Improvement and Management (395) – Review depends on degree of disturbance.

Subsurface Drain (606) – If it's a repair or replacement with no new disturbance then it is Exempt.

Terraces (600) – Undertaking when new terraces are being constructed. Exempt when repairing or reworking existing terraces.

Tree/Shrub Establishment (612) – Exempt when disturbance is minimal or in already disturbed areas. If disturbance will be below the plow zone or substantial impacts are anticipated in a high probability area for cultural resources then it is an Undertaking.

Tree/Shrub Site Preparation (490) – Undertaking if any mechanical treatments are applied (disking, plowing, dozing, land clearing blade use, etc.).

Underground Outlet (620) – When being repaired or replaced in a previously disturbed area then Exempt. Otherwise it's an Undertaking.

Upland Wildlife Habitat Management (645) – Undertaking when vegetative manipulation involves mechanical means or prescribed burning. Same for tree and shrub plantings - when disturbance is either extensive or accomplished by mechanical means in previously undisturbed areas then it's an Undertaking.

Vegetative Barrier (601) – Undertaking when site preparation is mechanical or disturbance from either site prep or planting is significant.

Wetland Wildlife Habitat Management (644) – Undertaking when installing water control structures or performing restoration activities (including the need for borrow or earth moving). Exempt when installing artificial structures or performing shallow vegetative plantings.

Windbreak/Shelterbelt Establishment and Renovation (380, 650) – Exempt when the project area has been previously disturbed or impacts will be shallow (i.e. in or above the plow zone). Undertaking when disturbance is significant (e.g. using heavy equipment to clear, burn, and/or bury piles of old trees or excavate to plant large trees).

Woody Residue Treatment (384) – Exempt unless digging a hole to bury residue (or if any other subsurface disturbance will take place.).