

## Exhibit A – Ranking Criteria for NRCS Programs

# Ranking Criteria for NRCS Programs – Fiscal Year FY2021

### Application Overview

Any applicant may submit an application for participation in ACEP, EQIP, CSP, or RCPP. The NRCS State Conservationist or Area Director, in consultation with stakeholders including the State Technical Committee, Tribal Conservation Advisory Councils, and Local Work Groups, has developed the following ranking criteria to prioritize and select applications that best address the applicable program purposes and priority natural resource concerns in **Massachusetts**.

The NRCS State Conservationist or Area Director will establish application batching periods and select the highest ranked applications for funding, based on applicant eligibility and the NRCS ranking process. In Fiscal Year **FY2021**, NRCS will use its Conservation Assessment Ranking Tool (CART) to assess and rank all eligible applications for NRCS conservation programs.

### Inventory and Assessment in CART

CART is a decision support system designed to provide a consistent, replicable framework for the conservation planning process based on geospatially referenced information, client-provided information, field observations, and NRCS conservation planner expertise. CART is designed to assist NRCS conservation planners as they assess site vulnerability and existing conditions, and identify natural resource concerns on a unit of land.

In CART, assessments of existing management and conservation efforts are compared against conservation planning criteria thresholds to determine the level of conservation effort needed to address identified natural resource concerns. The results are then used to inform NRCS conservation planning activities for the client. NRCS also uses CART to consolidate resource data and program information to prioritize program delivery and report outcomes of NRCS investments in conservation.

In general, resource concerns fall into one of three categories for the assessment method used in CART to assess and document a resource concern:

- **Client Input/Planner Observation:** A streamlined list of options is presented to the planner to document the client input and/or planner observation of the resource concerns present. These observations are compared to the conservation planning criteria thresholds.
- **Procedural/Deductive:** A large group of resource concerns fall into this category and are assessed using a resource concern-specific tool or a list of inventory-like criteria. Due to variability in State tools, assessment questions and answers will be broad in nature to allow States to more carefully align them with State conditions.
- **Predictive:** The remaining resource concerns are assessed using a predictive interactive model simulation. The CART systems attempt to replicate the outcomes related to the assessment threshold being met or not compared to the model outputs.

After identifying resource concerns and describing existing conditions, planned conservation practices and activities can be added to the existing condition to determine the state of the proposed management system. Supporting practices that are needed to support primary conservation practices and activities are also identified, but do not add conservation management points to the total.

If the client is interested in financial assistance through an NRCS conservation program, the inventory and assessment information, along with client decisions related to conservation practice adoption, are directly and consistently transferred from the assessment portion of CART to the ranking portion of

CART. Based on the transferred assessment information and the conservation practices proposed for implementation, CART identifies the appropriate program ranking pool(s).

### **Ranking in CART**

In general, NRCS program ranking criteria uses the following guiding principles:

- Degree of cost-effectiveness of the proposed conservation practices and activities;
- The level of performance of proposed conservation practices and activities;
- Treatment of multiple resource concerns or national priority resource concerns;
- Magnitude of the environmental benefits resulting from the treatment of resource concerns reflecting the level of performance of proposed conservation practices and activities; and
- Compliance with Federal, State, local or tribal regulatory requirements with regards to natural resources.

CART uses a set of National Ranking Templates developed for each NRCS program and initiative. The National Ranking Templates contain four parameters that are customized for each program to reflect the national level ranking criteria. The four parameters are:

1. **Land Uses** - NRCS has developed land use designations to be used by planners and modelers at the field and landscape level. Land use modifiers more accurately define the land's actual use and provide another level of specificity and help denote how the land is managed. Land use designations and modifiers are defined in Title 180, National Planning Procedures Handbook, Part 600.
2. **Resource Concerns** - An expected degradation of the soil, water, air, plant, or animal resource base to the extent that the sustainability or intended use of the resource is impaired. Because NRCS quantifies or describes resource concerns as part of a comprehensive conservation planning process, that includes client objectives, human and energy resources are considered components of the resource base.
3. **Practices** - A specific treatment used to address resource concerns, such as structural or vegetative measures, or management techniques, which are planned and implemented in accordance with applicable standards and specifications.
4. **Ranking Component Weights** – A set of five components comprise the ranking score for an individual land-based assessment. The five components are:
  - a. **Vulnerability** - Site vulnerability is determined by subtracting the existing condition and existing practice scores from the thresholds. This score is weighted by ranking pool to address the resource concerns prioritized by that ranking pool.
  - b. **Planned Practice Effects** - The planned practice effect score is based on the sum of the planned practice on that land unit which addresses the resource concern. This score is weighted by ranking pool to address the resource concerns prioritized by that ranking pool.
  - c. **Resource Priorities** - National and State resource priorities are established to address the most critical land and resource considerations and are based on NRCS national and State priorities identified with input from National, State, and local stakeholders.

- d. **Program Priorities** - National and State program priorities are established to maximize program effectiveness and advance program purposes and are based on NRCS national and State priorities identified with input from National, State, and local stakeholders.
- e. **Cost Efficiency** – Summation of ‘Planned Practice Points’ divided by the log of the Average Practice Cost.

NOTE: The points for vulnerability, planned practice effects, and cost efficiency are garnered from the assessment portion of CART.

**Massachusetts** created State-specific ranking pools within the above-described National Ranking Template parameters. The State ranking pools contain a set of questions that are divided into the following sections – applicability, category, program questions, and resource questions. Ranking pool customization allows States to focus funding on priority resource concerns and initiatives identified at the State level with input from NRCS stakeholders. Each eligible application may be considered for funding in all applicable ranking pools by program.

**NRCS Resource Concerns**

The following table lists the 47 Resource Concerns NRCS uses during the Conservation Planning process.

Categories	NRCS Resource Concerns
<b>Soil</b>	1. Sheet and rill erosion
	2. Wind erosion
	3. Ephemeral gully erosion
	4. Classic gully erosion
	5. Bank erosion from streams, shorelines, or water conveyance channels
	6. Subsidence
	7. Compaction
	8. Organic matter depletion
	9. Concentration of salts or other chemicals
	10. Soil organism habitat loss or degradation
	11. Aggregate instability
<b>Water</b>	12. Ponding and flooding
	13. Seasonal high-water table
	14. Seeps
	15. Drifted snow
	16. Surface water depletion
	17. Groundwater depletion
	18. Naturally available moisture use
	19. Inefficient irrigation water use
	20. Nutrients transported to surface water
	21. Nutrients transported to groundwater
	22. Pesticides transported to surface water
	23. Pesticides transported to groundwater
	24. Pathogens and chemicals from manure, biosolids, or compost applications transported to surface water
	25. Pathogens and chemicals from manure, biosolids, or compost applications transported to groundwater

	26. Salts transported to surface water
	27. Salts transported to groundwater
	28. Petroleum, heavy metals, and other pollutants transported to surface water
	29. Petroleum, heavy metals, and other pollutants transported to groundwater
	30. Sediment transported to surface water
	31. Elevated water temperature
<b>Air</b>	32. Emissions of particulate matter (PM) and PM precursors
	33. Emissions of greenhouse gasses (GHGs)
	34. Emissions of ozone precursors
	35. Objectionable odors
	36. Emissions of airborne reactive nitrogen
<b>Plants</b>	37. Plant productivity and health
	38. Plant structure and composition
	39. Plant pest pressure
	40. Wildfire hazard from biomass accumulation
<b>Animals</b>	41. Terrestrial habitat for wildlife and invertebrates
	42. Aquatic habitat for fish and other organisms
	43. Feed and forage imbalance
	44. Inadequate livestock shelter
	45. Inadequate livestock water quantity, quality and distribution
<b>Energy</b>	46. Energy efficiency of equipment and facilities
	47. Energy efficiency of farming/ranching practices and field operations

**Program-Specific Information**

**Agricultural Conservation Easement Program – Agricultural Land Easement (ACEP-ALE)**

The following ACEP-ALE national ranking criteria are included in the “Program Questions” section of ranking pools for ACEP-ALE, with the weighting of each question based on State-level priorities:

1. Percent of prime, unique, and important soils in the parcel to be protected.
2. Percent of cropland, pastureland, grassland, and rangeland in parcel to be protected.
3. Ratio of the total acres of land in the parcel to be protected to average farm size in the county according to the most recent USDA Census of Agriculture.
4. Decrease in the percentage of acreage of farm and ranch land in the county in which the parcel is located between the last two USDA Censuses of Agriculture.
5. Percent population growth in the county as documented by the U.S. Census.
6. Population density (population per square mile) as documented by the most recent U.S. Census.
7. Existence of a farm or ranch succession plan or similar plan established to address agricultural viability for future generations.
8. Proximity of the parcel to other protected land.
9. Proximity of the parcel to other agricultural operations and agricultural infrastructure.
10. Maximizing the protection of contiguous or proximal acres devoted to agricultural use.

11. Is land currently enrolled in CRP in a contract that is set to expire within one year and is grassland that would benefit from protection under a long-term easement or is land under a CRP contract that is in transition to a covered farmer or rancher pursuant to 16 U.S.C 3835(f).
12. Land is grassland of special environmental significance that would benefit from protection under a long-term easement.
13. Decrease in the percentage of acreage of permanent grassland, pasture, and rangeland, other than cropland and woodland pasture, in the county in which the parcel is located between the last two years from the USDA Census of Agriculture.
14. Percent of the fair market value of the agricultural land easement that is the eligible entity's own cash resources for payment of easement compensation to the landowner and comes from sources other than the landowner.

The following ACEP-ALE State ranking criteria are included in the "Resource Questions" section of ranking pools for ACEP-ALE, with the weighting of each question based on State-level priorities:

1. The location of a parcel in an area zoned for agricultural use.
2. Loss of Farmland between the 2012 and 2017 (Ag Census), loss of Farmland is county based.
3. Landowner(s) offer diversification in agricultural products, i.e. multiple farm sectors represented.
4. Proposed area is one contiguous parcel for management and agricultural efficiency.
5. The eligible entity's performance in managing and enforcing easements.
  - a. Cooperating Entity's average efficiency closing NRCS easements. If no NRCS easements are held, entity must provide evidence of closing efficiency for other easements.
  - b. Percentage of parcels that have been monitored annually and the percentage of monitoring results that have been reported annually.
  - c. Eligible Entities management and enforcement performance for FPP, FRPP, or ACEP-ALE funded easements.
  - d. Eligible Entities performance for submitting required documents in accordance with the timeframes required by the terms an existing ALE-agreement.
6. Multifunctional benefits of farm and ranch land protection including:
  - a. At-risk species protection;
  - b. Source water protection areas;
  - c. Farm located in a food desert area;
  - d. Landowners a historically underserved group, small scale farmer, limited resource farmer, new or beginning farmer or rancher, or veteran landowners.
  - e. Other related conservation benefits.

## **Agricultural Conservation Easement Program – Wetland Reserve Easement (ACEP-WRE)**

### **Program Priorities:**

1. Cost effectiveness of enrolling the land to maximize the environmental benefits per dollar expended, applications that have a lower cost per environmental benefit ratio will receive higher rankings.
2. Whether the landowner or another person or entity is offering to contribute financially to the cost of the

easement or other interest in the land to leverage Federal funds.

3. Extent to which ACEP-WRE purposes would be achieved on the offered land.
4. The productivity of the offered land.
5. The on-farm and off-farm environmental threats if the land is used for the production of agricultural commodities.

**Resource Priorities:**

1. The conservation and environmental benefits of obtaining an easement or other interest in the land, including but not limited to:
  - a. Habitat that will be restored for the benefit of migratory birds and wetland-dependent wildlife, including diversity of wildlife that will be benefitted or life cycle needs that will be addressed;
  - b. Extent and use of habitat that will be restored for threatened, endangered, or other at-risk species;
  - c. Protection or restoration of native vegetative communities;
  - d. Habitat diversity and complexity to be restored;
  - e. Proximity and connectivity to other protected habitats;
  - f. Extent of beneficial adjacent land uses;
  - g. Extent of wetland losses within a geographic area, including wetlands generally or specific wetland types
  - h. Proximity to impaired water bodies;
2. Hydrology restoration potential:
  - a. The extent to which the original hydrology can be restored
  - b. Physical site characteristics that affect hydrology restoration potential;
  - c. The source of the hydrology, the degree and type of hydrologic manipulation, existing connectivity and barriers to connectivity with hydrology sources;
  - d. Landscape features, such as geomorphic position, slope, and water table depths.