



# Ranking Pool Report

**Ranking Pool:** Utah Soil Health IRA-FY24

**Program:** EQIP

**Pool Status:** Active

**States:** UT (Admin)

**Template:** EQIP General National Ranking Template - Amended October 2023

**Template Status:** Active

**Last Modified By:** Davie Stokes

**Last Modified:** 12/11/2023  
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## Land Uses and Modifiers

| Land Use | Grazed | Wildlife | Irrigated | Hayed | Drained | Organic | Water Feature | Protected | Urban | Aquaculture |
|----------|--------|----------|-----------|-------|---------|---------|---------------|-----------|-------|-------------|
| Crop     | --     | --       | --        | --    | --      | --      | --            | --        | --    | --          |
| Pasture  | --     | --       | --        | --    | --      | --      | --            | --        | --    | --          |

## Resource Concern Categories

| Categories                                 |       |           |       |
|--|-------|-----------|-------|
| Category                                   | Min % | Default % | Max % |
| Air quality emissions                      | 0     | 5         | 100   |
| Aquatic habitat                            | 0     | 1         | 100   |
| Concentrated erosion                       | 0     | 5         | 100   |
| Degraded plant condition                   | 0     | 8         | 100   |
| Field pesticide loss                       | 0     | 5         | 100   |
| Field sediment, nutrient and pathogen loss | 0     | 5         | 100   |
| Fire management                            | 0     | 1         | 100   |
| Inefficient energy use                     | 0     | 7         | 100   |
| Livestock production limitation            | 0     | 9         | 100   |
| Pest pressure                              | 0     | 5         | 100   |
| Salt losses to water                       | 0     | 1         | 100   |
| Soil quality limitations                   | 0     | 20        | 100   |
| Source water depletion                     | 0     | 5         | 100   |
| Storage and handling of pollutants         | 0     | 1         | 100   |
| Terrestrial habitat                        | 0     | 5         | 100   |
| Weather resilience                         | 0     | 7         | 100   |
| Wind and water erosion                     | 0     | 10        | 100   |

## Air quality emissions

| Resource Concern                                       | Min % | Default % | Max % |
|--|-------|-----------|-------|
| Emissions of airborne reactive nitrogen                | 0     | 20        | 100   |
| Emissions of greenhouse gases - GHGs                   | 0     | 20        | 100   |
| Emissions of ozone precursors                          | 0     | 20        | 100   |
| Emissions of particulate matter (PM) and PM precursors | 0     | 20        | 100   |
| Objectionable odor                                     | 0     | 20        | 100   |

## Aquatic habitat

| Resource Concern                             | Min % | Default % | Max % |
|--|-------|-----------|-------|
| Aquatic habitat for fish and other organisms | 0     | 50        | 100   |
| Elevated water temperature                   | 0     | 50        | 100   |

## Concentrated erosion

| Resource Concern   | Min % | Default % | Max % |
|--|-------|-----------|-------|
| Bank erosion from streams, shorelines or water conveyance channels | 0     | 30        | 100   |
| Classic gully erosion  | 0     | 35        | 100   |
| Ephemeral gully erosion  | 0     | 35        | 100   |

## Degraded plant condition

| Resource Concern                | Min % | Default % | Max % |
|---------------------------------|-------|-----------|-------|
| Plant productivity and health   | 0     | 50        | 100   |
| Plant structure and composition | 0     | 50        | 100   |

## Field pesticide loss

| Resource Concern                        | Min % | Default % | Max % |
|---|-------|-----------|-------|
| Pesticides transported to groundwater   | 0     | 50        | 100   |
| Pesticides transported to surface water | 0     | 50        | 100   |

## Field sediment, nutrient and pathogen loss

| Resource Concern  | Min % | Default % | Max % |
|---|-------|-----------|-------|
| Nutrients transported to groundwater  | 0     | 20        | 100   |
| Nutrients transported to surface water  | 0     | 20        | 100   |
| Pathogens and chemicals from manure, biosolids or compost applications transported to groundwater   | 0     | 20        | 100   |
| Pathogens and chemicals from manure, biosolids or compost applications transported to surface water | 0     | 20        | 100   |
| Sediment transported to surface water   | 0     | 20        | 100   |

## Fire management

| Resource Concern                          | Min % | Default % | Max % |
|---|-------|-----------|-------|
| Wildfire hazard from biomass accumulation | 0     | 100       | 100   |

## Inefficient energy use

| Resource Concern   | Min % | Default % | Max % |
|--|-------|-----------|-------|
| Energy efficiency of equipment and facilities                        | 0     | 50        | 100   |
| Energy efficiency of farming/ranching practices and field operations | 0     | 50        | 100   |

## Livestock production limitation

| Resource Concern  | Min % | Default % | Max % |
|---|-------|-----------|-------|
| Feed and forage balance                                       | 0     | 35        | 100   |
| Inadequate livestock shelter                                  | 0     | 30        | 100   |
| Inadequate livestock water quantity, quality and distribution | 0     | 35        | 100   |

## Pest pressure

| Resource Concern    | Min % | Default % | Max % |
|---------------------|-------|-----------|-------|
| Plant pest pressure | 0     | 100       | 100   |

## Salt losses to water

| Resource Concern                   | Min % | Default % | Max % |
|------------------------------------|-------|-----------|-------|
| Salts transported to groundwater   | 0     | 50        | 100   |
| Salts transported to surface water | 0     | 50        | 100   |

## Soil quality limitations

| Resource Concern                          | Min % | Default % | Max % |
|---|-------|-----------|-------|
| Aggregate instability                     | 0     | 20        | 100   |
| Compaction                                | 0     | 15        | 100   |
| Concentration of salts or other chemicals | 0     | 5         | 80    |
| Organic matter depletion                  | 0     | 30        | 100   |
| Soil organism habitat loss or degradation | 0     | 25        | 100   |
| Subsidence                                | 0     | 5         | 100   |

## Source water depletion

| Resource Concern                 | Min % | Default % | Max % |
|----------------------------------|-------|-----------|-------|
| Groundwater depletion            | 0     | 35        | 90    |
| Inefficient irrigation water use | 0     | 35        | 90    |
| Surface water depletion          | 0     | 30        | 90    |

## Storage and handling of pollutants

| Resource Concern  | Min % | Default % | Max % |
|---|-------|-----------|-------|
| Nutrients transported to groundwater                                      | 0     | 25        | 100   |
| Nutrients transported to surface water                                    | 0     | 25        | 100   |
| Petroleum, heavy metals and other pollutants transported to groundwater   | 0     | 25        | 100   |
| Petroleum, heavy metals and other pollutants transported to surface water | 0     | 25        | 100   |

## Terrestrial habitat

| Resource Concern                                   | Min % | Default % | Max % |
|--|-------|-----------|-------|
| Terrestrial habitat for wildlife and invertebrates | 0     | 100       | 100   |

## Weather resilience

| Resource Concern                 | Min % | Default % | Max % |
|----------------------------------|-------|-----------|-------|
| Drifted snow                     | 0     | 10        | 100   |
| Naturally available moisture use | 0     | 60        | 100   |
| Ponding and flooding             | 0     | 10        | 100   |
| Seasonal high water table        | 0     | 10        | 100   |
| Seeps                            | 0     | 10        | 100   |

## Wind and water erosion

| Resource Concern       | Min % | Default % | Max % |
|------------------------|-------|-----------|-------|
| Sheet and rill erosion | 0     | 50        | 100   |
| Wind erosion           | 0     | 50        | 100   |

## Practices

| Practice Name                                | Practice Code | Practice Type          |
|--|---------------|------------------------|
| Conservation Cover                           | 327           | Conservation Practices |
| Conservation Crop Rotation                   | 328           | Conservation Practices |
| Residue and Tillage Management, No Till      | 329           | Conservation Practices |
| Soil Carbon Amendment                        | 336           | Conservation Practices |
| Cover Crop                                   | 340           | Conservation Practices |
| Residue and Tillage Management, Reduced Till | 345           | Conservation Practices |
| Field Border                                 | 386           | Conservation Practices |
| Filter Strip                                 | 393           | Conservation Practices |

| Practice Name            | Practice Code | Practice Type          |
|--------------------------|---------------|------------------------|
| Mulching                 | 484           | Conservation Practices |
| Pasture and Hay Planting | 512           | Conservation Practices |
| Prescribed Grazing       | 528           | Conservation Practices |
| Stripcropping            | 585           | Conservation Practices |

## Ranking Weights

| Factors                  | Algorithm      | Allowable Min | Default | Allowable Max |
|--------------------------|----------------|---------------|---------|---------------|
| Vulnerabilities          | Default        | 10            | 20      | 40            |
| Planned Practice Effects | Adjustment (D) | 15            | 15      | 15            |
| Resource Priorities      | Default        | 20            | 50      | 60            |
| Program Priorities       | Default        | 5             | 5       | 15            |
| Efficiencies             | Default        | 10            | 10      | 10            |

## Display Group: Utah Soil Health IRA-FY24 (Active)

 An asterisk will be displayed to show that it is a conditional section or conditional question.

## Survey: Applicability Questions

| Section: Soil Health            |                |        |
|---------------------------------|----------------|--------|
| Question                        | Answer Choices | Points |
| Is the project for Soil Health? | YES            | --     |
|                                 | NO             | --     |

## Survey: Category Questions

| Section: Spending Plan Category |                |        |
|---------------------------------|----------------|--------|
| Question                        | Answer Choices | Points |

## Section: Spending Plan Category

| Question   | Answer Choices                | Points |
|--|-------------------------------|--------|
| What Team does the planned land units reside in? | Cache-Rich Team               | --     |
|  | Gar-Kane Team                 | --     |
|  | Lower Colorado Basin          | --     |
|  | Lower Sevier Basin            | --     |
|  | Middle Sevier - Fremont Basin | --     |
|  | Northwest Team                | --     |
|  | Price-San Rafael Basin        | --     |
|  | South Bonneville Team         | --     |
|  | Southwest Basin               | --     |
|  | Uintah Basin                  | --     |
|  | Weber River Team              | --     |
|  | Otherwise                     | --     |

## Survey: Program Questions

## Section: Program Question

| Question  | Answer Choices | Points |
|---|----------------|--------|
| How many of the 4 Soil Health Principles does the contracted practices achieve. (Minimize Disturbance, Maximize Biodiversity, Maximize Soil Cover, Maximize living roots) | 1              | 0      |
|   | 2              | 50     |
|   | 3              | 100    |
|   | 4              | 150    |
| Will annual crops be converted to perennial cover with practice 327 or 512  | YES            | 50     |
|   | NO             | 0      |

## Survey: Resource Questions

## Section: Resource Question

| Question   | Answer Choices    | Points |
|--|-------------------|--------|
| Does the application include a multi-species cover crop? (Select only one)   | 5 or more species | 100    |
|  | 2-4 species       | 40     |
|  | 1 species or less | 0      |
| Will the participant be adopting practice (340) cover crop for the first time? (has not adopted the practice on any other part of the operation in the past) | YES               | 25     |
|  | NO                | 0      |
| Will the applicant implement 528 prescribed grazing on a cover crop OR implement a MIG grazing system on pasture?  | YES               | 50     |
|  | NO                | 0      |

**Section: Resource Question**

| <b>Question</b>  | <b>Answer Choices</b> | <b>Points</b> |
|--|-----------------------|---------------|
| Will the applicant adopt practice (329) No-till for 3 yrs on annual crops? | YES                   | 25            |
|  | NO                    | 0             |