

**New York Field Office Technical Guide
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RESOURCE CONCERNS FOR SOIL CONDITION

Resource Concern	Above Ground, Multi-Outlet Pipeline (431)	Access Road (560)	Agrichemical Handling Facility (309)	Amendments for the Treatment of Agricultural Waste (591)	Anaerobic Digester, Ambient Temperature (365)	Anaerobic Digester, Controlled Temperature (366)	Animal Mortality Facility (316)	Animal Trails and Walkways (575)	Aquaculture Ponds (397)	Atmospheric Resource Quality Management (370)	Bedding (310)	Brush Management (314)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	0	2	0	0	0	0	0	3	0	1	-1	-1
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	0	0	0	0	0	0	0	0	0	0	-1
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	0	0	0	0	0	0	0	0	0	1	2
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	0	0	0	0	0	0	0	0	0	0	2
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	0	0	0	1	0	0	0	0	0	2	-1	3
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	0	2	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	2	0	0	0	0	0	4	0	0
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	2	0	0	0	0	0	4	0	0
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	2	0	0	0	0	0	4	0	0
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	0	0	0	0	4	0	0
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	0	0	0	0	4	0	0
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	0	0	0	0	4	0	0

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Resource Concern	Channel Bank Vegetation (322)	Channel Stabilization (584)	Clearing and Snagging (326)	Closure of Waste Impoundment (360)	Composting Facility (317)	Conservation Cover (327)	Conservation Crop Rotation (328)	Constructed Wetland (656)	Contour Buffer Strips (332)	Contour Farming (330)	Contour Orchard and Other Fruit Area (331)	Cover Crop (340)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	0	0	0	0	0	3	2	0	0	0	0	2
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	0	0	0	0	3	3	0	-1	-1	-1	2
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	0	0	0	0	2	2	0	0	0	0	1
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	2	2	0	0	0	3	3	0	4	4	4	2
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	0	0	0	0	0	3	4	0	2	2	2	2
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	2	2	4	0	0	0	0	2
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	2	2	4	0	0	0	0	2
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	2	2	4	0	0	0	0	2
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	2	2	4	0	0	0	0	2
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	2	2	4	0	0	0	0	2
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	2	2	4	0	0	0	0	2

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Resource Concern	Critical Area Planting (342)	Cross Wind Ridges (589A)	Cross Wind Trap Strips (589C)	Dam (402)	Dam, Diversion (348)	Deep Tillage (324)	Dike (356)	Diversion (362)	Drainage Water Management (554)	Dry Hydrant (432)	Early Successional Habitat Development/Management (647)	Feed Management (592)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	3	0	0	0	0	5	0	0	-1	0	0	0
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	1	0	0	0	0	2	0	0	0	0	0	0
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	1	0	0	0	0	2	0	0	0	0	0	0
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	3	1	2	2	0	2	0	2	0	0	0	0
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	5	1	2	0	0	0	0	0	2	0	0	0
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	2	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	0	2	0	0	4	0	0	2
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	0	2	0	0	0	0	0	2
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	0	2	0	0	0	0	0	2
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	2	0	0	4	0	0	2
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	2	0	0	0	0	0	2
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	2	0	0	0	0	0	2

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Resource Concern	Fence (382)	Field Border (386)	Filter Strip (393)	Firebreak (394)	Fish Passage (396)	Fish Raceway or Tank (398)	Fishpond Management (399)	Forage Harvest Management (511)	Forest Site Preparation (490)	Forest Slash Treatment (384)	Forest Stand Improvement (666)	Forest Trails and Landings (655)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	0	3	5	-2	0	0	0	4	-1	0	-2	-4
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	2	2	-1	0	0	0	3	0	0	0	0
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	1	1	0	0	0	0	1	0	0	0	0
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	2	-2	0	0	0	0	1	0	0	0	1
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	0	4	5	-4	0	0	0	1	-2	0	-2	0
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	2	2	0	0	0	0	2	0	0	2	0
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	2	2	0	0	0	0	2	0	0	2	0
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	2	2	0	0	0	0	2	0	0	2	0
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	2	2	0	0	0	0	2	0	0	2	0
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	2	2	0	0	0	0	2	0	0	2	0
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	2	2	0	0	0	0	2	0	0	2	0

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Resource Concern	Fuel Break (383)	Grade Stabilization Structure (410)	Grassed Waterway (412)	Grazing Land Mechanical Treatment (548)	Heavy Use Area Protection (561)	Hedgerow Planting (422)	Herbaceous Wind Barriers (603)	Irrigation Land Leveling (464)	Irrigation Storage Reservoir (436)	Irrigation System, Microirrigation (441)	Irrigation System, Sprinkler (442)	Irrigation System, Surface and Subsurface (443)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	-2	0	0	4	-1	1	0	-2	0	0	-1	-1
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	-1	0	-1	0	0	0	0	0	0	2	0	2
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	0	-1	1	0	0	0	-1	0	1	3	0
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	0	-3	2	2	-1	2	3	0	0	0	-1
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	-4	0	3	2	0	2	2	-2	0	0	0	0
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	-1	0	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	-1	-1	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	-1	0	0	0	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	-1	0	0	0	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	-1	-1	0	0	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	-1	0	0	0	0	0	0	0	0	0

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Resource Concern	Irrigation System, Tailwater Recovery (447)	Irrigation Water Conveyance, Pipeline, Aluminum Tubing (430AA)	Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic (430DD)	Irrigation Water Conveyance, Pipeline, Low-Pressure, Underground, Plastic (430EE)	Irrigation Water Management (449)	Land Clearing (460)	Land Reclamation, Landslide Treatment (453)	Land Reconstruction, Abandoned Mined Land (543)	Land Reconstruction, Currently Mined Land (544)	Lined Waterway or Outlet (468)	Manure Transfer (634)	Mole Drain (482)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	-1	0	0	0	0	-1	0	1	1	0	-1	1
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	-1	0	0	0	0	0	0	0	0	0	0	2
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	-1	0	0	0	3	0	0	4	4	0	0	2
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	-1	0	0	0	0	0	4	0	0	1	0	1
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	0	0	0	0	1	-3	3	3	3	0	0	-2
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	0	0	0	-3
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	0	0	0	0	0	0	0	2
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	0	0	0	0	0	0	2
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	0	0	0	0	0	0	0	0	0

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Resource Concern	Monitoring Well (353)	Mulching (484)	Nutrient Management (590)	Obstruction Removal (500)	Open Channel (582)	Pasture and Hay Planting (512)	Pathogen Management (783)	Pest Management (595)	Pipeline (516)	Pond (378)	Pond Sealing or Lining, Bentonite Sealant (521C)	Pond Sealing or Lining, Compacted Clay Treatment (521D)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	0	2	-2	-1	0	4	0	2	0	0	0	0
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	1	0	0	0	2	0	3	0	0	0	0
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	2	2	0	0	3	0	0	0	0	1	0
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	1	1	0	1	2	0	2	0	2	0	0
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	0	3	2	0	0	4	0	2	0	0	0	0
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	2	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	1	2	0	0	4	0	0	0	0	1	0
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	2	0	0	4	0	0	0	0	1	0
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land	0	1	2	0	0	4	0	0	0	0	1	0
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	1	2	0	0	4	0	0	0	0	1	0
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	2	0	0	4	0	0	0	0	1	0
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	1	2	0	0	4	0	0	0	0	1	0

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Resource Concern	Pond Sealing or Lining, Flexible Membrane (521A)	Pond Sealing or Lining, Soil Dispersant (521B)	Precision Land Forming (462)	Prescribed Burning (338)	Prescribed Forestry (409)	Prescribed Grazing (528)	Pumping Plant (533)	Recreation Area Improvement (562)	Recreation Land Grading and Shaping (566)	Recreation Trail and Walkway (568)	Residue and Tillage Management, Mulch Till (345)	Residue and Tillage Management, No-Till/Strip Till/Direct Seed (329)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	0	0	-1	0	0	3	0	2	0	2	0	0
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	0	0	1	0	2	0	0	0	0	0	0
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	1	0	1	-1	0	2	0	2	0	0	0	0
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	0	2	1	0	3	0	3	2	0	0	0
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	0	0	-2	1	0	4	0	3	1	0	2	4
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	3	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	1	1	1	1	0	2	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	1	1	1	1	0	2	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	1	1	1	1	0	2	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	1	1	1	1	0	2	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	1	1	1	1	0	2	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	1	1	1	1	0	2	0	0	0	0	0	0

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Resource Concern	Residue and Tillage Management, Ridge Till (346)	Residue Management, Seasonal (344)	Restoration and Management of Declining Habitats (643)	Riparian Forest Buffer (391)	Riparian Herbaceous Cover (390)	Rock Barrier (555)	Roof Runoff Structure (558)	Runoff Management System (570)	Sediment Basin (350)	Shallow Water Management for Wildlife (646)	Solid/Liquid Waste Separation Facility (632)	Spoil Spreading (572)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	0	0	0	4	4	0	0	0	0	0	0	-1
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	0	0	2	2	0	0	0	0	0	0	0
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	1	-1	1	2	0	0	0	0	0	0	0
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	2	0	2	2	-2	1	3	3	-1	0	0
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	4	1	0	4	4	0	0	0	0	1	0	0
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	3	3	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	3	3	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	0	0	3	3	0	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	3	3	0	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	3	3	0	0	0	0	0	0	0
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	0	0	3	3	0	0	0	0	0	0	0

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Resource Concern	Spring Development (574)	Stream Crossing (578)	Stream Habitat Improvement and Management (395)	Streambank and Shoreline Protection (580)	Stripcropping (585)	Structure for Water Control (587)	Subsurface Drain (606)	Surface Drainage, Field Ditch (607)	Surface Drainage, Main or Lateral (608)	Surface Roughening (609)	Terrace (600)	Tree/Shrub Establishment (612)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	-1	0	0	0	0	0	2	1	0	0	-1	2
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	0	0	0	0	0	1	1	0	0	0	2
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	0	0	0	0	0	3	2	0	0	0	2
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	1	0	2	4	2	0	0	0	2	2	0
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	0	0	0	0	2	0	-2	-2	0	0	1	4
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	-2	-1	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	2	0	0	0	0	0	2	1	0	0	0	2
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	2	0	0	0	0	0	2	1	0	0	0	2
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	2	0	0	0	0	0	1	1	0	0	0	2
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	2	0	0	0	0	0	2	1	0	0	0	2
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	2	0	0	0	0	0	2	1	0	0	0	2
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	2	0	0	0	0	0	1	1	0	0	0	2

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RESOURCE CONCERNS FOR SOIL CONDITION

Resource Concern	Tree/Shrub Pruning (660)	Underground Outlet (620)	Upland Wildlife Habitat Management (645)	Use Exclusion (472)	Vertical Drain (630)	Waste Facility Cover (367)	Waste Storage Facility (313)	Waste Treatment (629)	Waste Treatment Lagoon (359)	Waste Utilization (633)	Wastewater Treatment Strip (635)	Water and Sediment Control Basin (638)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	0	0	0	4	0	0	1	0	1	0	0	0
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	0	0	0	0	0	0	0	0	1	0	0
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	0	0	2	0	0	0	0	0	0	-2	0
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	2	0	2	0	0	0	0	0	1	0	3
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	-1	0	0	2	0	0	1	0	1	3	2	0
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	1	0	0	2	0	0	2	0	3	0	-2	0
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	1	0	0	2	0	0	2	0	3	0	-2	0
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	1	0	0	2	0	0	2	0	3	0	-2	0
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	1	0	0	2	0	0	2	0	3	0	-2	0
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	1	0	0	2	0	0	2	0	3	0	-2	0
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	1	0	0	2	0	0	2	0	3	0	-2	0

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RESOURCE CONCERNS FOR SOIL CONDITION

Resource Concern	Water Harvesting Catchment (636)	Water Well (642)	Watering Facility (614)	Waterspreading (640)	Well Decommissioning (351)	Well Water Testing (355)	Wetland Creation (658)	Wetland Enhancement (659)	Wetland Restoration (657)	Wetland Wildlife Habitat Management (644)	Windbreak/Shelterbelt Establishment (380)	Windbreak/Shelterbelt Renovation (650)
Compaction - Compressed soil particles and aggregates caused by mechanical compaction adversely affect plant-soil-moisture relationships. Depleted soil organic matter content leads to poor infiltration, percolation, and soil structure.	0	0	0	0	0	0	0	0	0	0	2	2
Contaminants - Residual Pesticides - Residual pesticides in the soil have an adverse effect on non-target plants and animals.	0	0	0	0	0	0	0	0	0	0	1	1
Contaminants - Salts and Other Chemicals - Inorganic chemical elements and compounds such as salts, selenium, boron, and heavy metals restrict the desired use of the soil or exceed the soil buffering capacity.	0	1	0	1	0	0	0	0	0	0	1	1
Damage from Sediment Deposition - Sediment deposition damages or restricts land use/management or adversely affects ecological processes.	0	2	0	0	0	0	0	0	0	0	-2	-2
Organic Matter Depletion - Soil organic matter has lowered or will diminish to a level that degrades soil quality.	0	0	0	1	0	0	2	1	1	0	4	4
Subsidence - Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive drainage or extended drought.	0	0	0	0	0	0	0	0	0	0	0	0
Contaminants-Animal Waste and Other Organics - N - Nitrogen nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	1	0	1	0	0	1	1	1	0	2	2
Contaminants-Animal Waste and Other Organics - P - Phosphorus nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	1	0	1	0	0	1	1	1	0	2	2
Contaminants-Animal Waste and Other Organics - K - Potassium nutrient levels from applied animal waste and other organics restrict desired use of the land.	0	1	0	1	0	0	1	1	1	0	2	2
Contaminants-Commercial Fertilizer - N - Over application of nitrogen degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	1	0	1	0	0	1	1	1	0	2	2
Contaminants-Commercial Fertilizer - P - Over application of phosphorus degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	1	0	1	0	0	1	1	1	0	2	2
Contaminants-Commercial Fertilizer - K - Over application of potassium degrades plant health and vigor or exceeds the soil capacity to retain nutrients.	0	1	0	1	0	0	1	1	1	0	2	2