

CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE: recorded in Microsoft word 6.0 - use tabs to change cells/fields (REVISED 4/2002)

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| STATE | | FIELD OFFICE | | DATE | |
| PRACTICE: 590 Nutrient Management | | | NOTES: | | |
| RESOURCE: SOIL | | | Help Message: Click on form field for choice lists. Tab key to move around. "N/A" is the default. | | |
| RESOURCE CONCERN: EROSION | | | | | |
| RESOURCE INDICATORS | | | PHYSICAL EFFECTS | | |
| SHEET AND RILL | | | (Deficient) Slight to moderate decrease because of increased vegetative growth and increased residue. (Excess) Negligible. | | |
| WIND | | | (Deficient) Slight to moderate decrease because of increased vegetative growth and increased residue. (Excess) Negligible. | | |
| EPHEMERAL GULLY | | | (Deficient) Negligible to slight decrease because of increased plant density, vigor, and plant growth. (Excess) Negligible | | |
| CLASSIC GULLY | | | (Deficient) Negligible to slight decrease because of increased plant density, vigor, and plant growth. (Excess) Negligible. | | |
| STREAMBANK | | | (Deficient) Negligible to slight decrease because of increased plant density and vigor. (Excess) Negligible | | |
| IRRIGATION INDUCED | | | N/A | | |
| SOIL MASS MOVEMENT | | | N/A | | |
| ROADBANK/CONSTRUCTION | | | (Deficient) Moderate to significant decrease because of increased plant density and vigor. (Excess) Negligible. | | |
| OTHER | | | | | |
| RESOURCE CONCERN: SOIL CONDITION | | | | | |
| SOIL TILTH | | | significant improvement in soil tilth | | |
| SOIL COMPACTION | | | insignificant | | |
| SOIL CONTAMINATION | | | | | |
| • SALTS | | | insignificant | | |
| • ORGANICS | | | significant decrease in organic contaminates | | |
| FERTILIZERS | | | (Deficient) Not applicable. (Excess) Significant decrease because of reduced application rates. | | |
| • PESTICIDES | | | Negligible to moderate decreases because of increased uptake by more vigorous plant growth and reduced damage by pests. | | |
| • OTHER | | | | | |
| DEPOSITION/DAMAGE | | | | | |
| • ONSITE | | | Slight to moderate decreased because of increased crop residue and vegetative growth and reduced runoff. | | |
| • OFFSITE | | | Slight decreased because of increased crop residue and vegetative growth. | | |
| DEPOSITION/SAFETY | | | | | |
| • ONSITE | | | Slight decrease because of increased vegetative cover and reduced runoff. | | |
| • OFFSITE | | | Slight to moderate decrease because of increased vegetative cover and reduced runoff. | | |
| OTHER | | | | | |

| RESOURCE: WATER | |
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| RESOURCE CONCERN: WATER QUANTITY | |
| SEEPS | N/A |
| RUNOFF/FLOODING | N/A |
| EXCESS SUBSURFACE WATER | N/A |
| INADEQUATE OUTLETS | N/A |
| WATER MGT. IRRIGATION | |
| • SURFACE | N/A |
| • SPRINKLER | N/A |
| WATER MGT. NON-IRRIGATED | N/A |
| RESTRICTED FLOW CAPACITY (H2O convey.) | |
| • ONSITE | N/A |
| • OFFSITE | N/A |
| RESTRICTED STORAGE | N/A |
| OTHER | |

| RESOURCE: WATER | |
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| RESOURCE CONCERN: WATER QUALITY | |
| RESOURCE INDICATORS | PHYSICAL EFFECTS |
| GROUNDWATER CONTAMINANTS | |
| • PESTICIDES | N/A |
| • NUTRIENTS AND ORGANICS | Significant decreases because excess nutrient applications are reduced. Effects variable (see glossary) |
| • SALINITY | Slight decrease exists because of planned rate of manure application reduces hot spots (plant burn out areas). Effects variable because of climate, salt, soil, and vadose zone. Negligible effect where salinity occurs naturally. |
| • HEAVY METALS | Slight to moderate decrease because of increased flexibility in selecting areas for waste application. |
| • PATHOGENS | N/A |
| • OTHER | |
| SURFACE WATER CONTAMINANTS | |
| • PESTICIDES | N/A |
| • NUTRIENTS AND ORGANICS | Significant decreases because excess nutrient applications are reduced. Effects variable because of climate, nutrient, soil, and vadose zone factors. |
| • SUSPENDED SEDIMENTS | N/A |
| • LOW DISSOLVED OXYGEN | Significant decrease because excess organic waste applications are reduced. Effects variable because of climate, organic, soil, and vadose zone factors. |
| • SALINITY | Slight decrease because of planned rate of application of manure, reduces hot spots (plant burn out). Effects variable because of climate, salt, soil, and vadose zone factors. |
| • HEAVY METALS | N/A |
| • WATER TEMPERATURE | N/A |
| • PATHOGENS | N/A |
| AQUATIC HABITAT SUITABILITY | Slight to significant decrease because of improved plant cover, |

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| | reduced sediment, organic and chemicals. |
| OTHER | |
| RESOURCE: AIR | |
| RESOURCE CONCERN: AIR QUALITY | |
| AIRBORNE SEDIMENT AND SMOKE PARTICLES | |
| • ONSITE SAFETY | Slight decrease because of increased vegetative growth and crop residue. |
| • OFFSITE SAFETY | N/A |
| • ONSITE STRUCT. PROBLEMS | N/A |
| • OFFSITE STRUCT. PROBLEMS | N/A |
| • ONSITE HEALTH | Negligible to slight decrease because of increased vegetative growth and crop residue |
| • OFFSITE HEALTH | Negligible to slight decrease because of increased vegetative growth and crop residue. |
| AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS | Negligible to slight decrease because of increased vegetative growth and crop residue. |
| AIRBORNE CHEMICAL DRIFT | N/A |
| AIRBORNE ODORS | Negligible to significant decrease depending on type of nutrients, organic waste and mode, and timing of application. |
| FUNGI, MOLDS, AND POLLEN | N/A |
| OTHER | |
| RESOURCE CONCERN: AIR CONDITION | |
| AIR TEMPERATURE | N/A |
| AIR MOVEMENT (windbreak effect) | N/A |
| HUMIDITY | N/A |
| OTHER | |

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| RESOURCE: PLANT | |
| RESOURCE CONCERN: SUITABILITY | |
| RESOURCE INDICATORS | PHYSICAL EFFECTS |
| SITE ADAPTATION | Negligible to moderate decrease because of improved soil fertility. |
| PLANT USE | N/A |
| OTHER | |
| RESOURCE CONCERN: CONDITION | |
| PRODUCTIVITY | Slight to significant decrease because of improved plant nutrition and soil condition. |
| HEALTH, VIGOR, SURVIVAL | Slight to significant decrease because of improved plant nutrition and soil condition. |
| OTHER | |
| RESOURCE CONCERN: MANAGEMENT | |
| ESTAB., GROWTH, HARVEST | Slight to significant decrease because of improved plant nutrition and soil condition. |
| NUTRIENT MANAGEMENT | Moderate to significant decrease because of correct application. |
| PESTS | Negligible to slight because of plant vigor and competition. |
| THREAT/ENDANGERED PLANTS | N/A |
| OTHER | |
| RESOURCE: ANIMAL | |
| RESOURCE CONCERN: HABITAT | |
| FOOD | Negligible to significant decrease because of increase food availability and diversity depending on land use and animal species concerned. |
| COVER/SHELTER | (Deficient) Slight to significant decrease because of improved plant growth. (Excess) Negligible to slight decrease because of improved plant growth. |
| WATER (QUANTITY & QUALITY) | N/A |
| OTHER | |
| RESOURCE CONCERN: MANAGEMENT | |
| POPULATION BALANCE | Negligible to significant decrease because of improved production and habitat quality. |
| THREAT/ENDANGERED ANIMALS | N/A |
| HEALTH | Slight to significant decrease because of improved forage production. Slight to significant increase because of possible direct contact by animals immediately after application. |
| OTHER | |
| RESOURCE: HUMAN | |
| RESOURCE CONCERNS: ECONOMIC CONSIDERATIONS | |
| PLAN / COST EFFECTIVENESS | N/A |
| CLIENT FINANCIAL CONDITION | N/A |
| MARKETS FOR PRODUCTS | N/A |
| AVAILABLE LABOR | N/A |
| AVAILABLE EQUIPMENT | N/A |
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| RESOURCE: HUMAN | |
| RESOURCE CONCERN: SOCIAL CONSIDERATIONS | |
| RESOURCE INDICATORS | PHYSICAL EFFECTS |
| PUBLIC HEALTH AND SAFETY | N/A |
| PRIVATE/PUBLIC VALUES | N/A |
| CLIENT CHARACTERISTICS | N/A |
| RISK TOLERANCE | N/A |
| TENURE | N/A |
| OTHER | |
| RESOURCE CONCERN: CULTURAL CONSIDERATIONS | |
| ABSENCE/PRESENCE OF CULTURAL RESOURCES | N/A |
| SIGNIFICANCE OF CULTURAL RESOURCES | N/A |
| MITIGATION OF NEGATIVE CULTURAL RES. IMPACTS | N/A |
| OTHER | |
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