

CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE: recorded in Microsoft word 6.0 - use tabs to change cells/fields

STATE		FIELD OFFICE	DATE
PRACTICE: 422 Hedgerow Planting		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		Slight decrease because of long term vegetative cover.	
WIND		Slight to moderate decrease in zone of influence because of installation of barrier.	
EPHEMERAL GULLY		Negligible.	
CLASSIC GULLY		Not applicable.	
STREAMBANK		Not applicable.	
IRRIGATION INDUCED		Negligible to slight increase because of potential erosion if hedgerow plants species is irrigated from surface water.	
SOIL MASS MOVEMENT		Not applicable.	
ROADBANK/CONSTRUCTION		Slight decreases in zone of influence because of installation of barrier and reduce wind erosion.	
OTHER			
RESOURCE CONCERN: SOIL CONDITION			
SOIL TILTH		Slight decrease in zone of influence because of prevention of loss surface fines and increased organic material within the hedgerow area.	
SOIL COMPACTION		Negligible.	
SOIL CONTAMINATION			
• SALTS		Negligible	
• ORGANICS		Negligible.	
FERTILIZERS		Negligible.	
• PESTICIDES		Negligible.	
• OTHER			
DEPOSITION/DAMAGE			
• ONSITE		Slight decrease because of reduced deposition within the area of influence.	
• OFFSITE		Slight decrease downwind of the zone of influence because of erosion reduction and deposition onsite.	
DEPOSITION/SAFETY			
• ONSITE		Slight to moderate decrease because of reduced deposition within the zone of influence.	
• OFFSITE		Slight to moderate decrease downwind of the zone of influence because of reduced soil movement.	
OTHER			

RESOURCE: WATER	
RESOURCE CONCERN: WATER QUANTITY	
SEEPS	Negligible to slight decrease during growing season because of plant uptake.
RUNOFF/FLOODING	Slight decrease because energy dissipation.
EXCESS SUBSURFACE WATER	Negligible to slight decrease during growing season because of plant uptake.
INADEQUATE OUTLETS	Negligible.
WATER MGT. IRRIGATION	
• SURFACE	Negligible to slight decrease because of decreased wind velocity and reduced evaporation within in the zone of influence.
• SPRINKLER	Negligible to slight decrease because of decreased wind velocity and reduced evaporation within in the zone of influence.
WATER MGT. NON-IRRIGATED	Negligible.
RESTRICTED FLOW CAPACITY (H2O convey.)	
• ONSITE	Slight to moderate decrease because deposition because of decrease in wind blown sediment.
• OFFSITE	Slight decrease because deposition because of decrease in windblown sediment.
RESTRICTED STORAGE	Negligible.
OTHER	

RESOURCE: WATER	
RESOURCE CONCERN: WATER QUALITY	
RESOURCE INDICATORS	PHYSICAL EFFECTS
GROUNDWATER CONTAMINANTS	
• PESTICIDES	Slight decrease because of reduced use of pesticide in facilitated practice.
• NUTRIENTS AND ORGANICS	Negligible to slight decrease during growing season because of plant uptake.
• SALINITY	Negligible.
• HEAVY METALS	Negligible to moderate because of increased plant uptake.
• PATHOGENS	Negligible to slight decrease because of increase soil microbial activity.
• OTHER	
SURFACE WATER CONTAMINANTS	
• PESTICIDES	Negligible to moderate decreases depending on practice facilitated.
• NUTRIENTS AND ORGANICS	Negligible to moderate decreases depending on practice facilitated.
• SUSPENDED SEDIMENTS	Negligible.
• LOW DESOLVED OXYGEN	Negligible.
• SALINITY	Negligible.
• HEAVY METALS	Negligible.
• WATER TEMPERATURE	Negligible to significant decreased if used to facilitated use exclusion or other access to allow recovery of riparian vegetation.
• PATHOGENS	Negligible to moderate decrease if used to use exclusion from stream area.
AQUATIC HABITAT SUITABILITY	Negligible.
OTHER	

RESOURCE: AIR	
RESOURCE CONCERN: AIR QUALITY	
AIRBORNE SEDIMENT AND SMOKE PARTICLES	
• ONSITE SAFETY	Slight to moderate decrease because of deposition of sediment onsite.
• OFFSITE SAFETY	Slight decrease because of decrease of deposition of sediment onsite.
• ONSITE STRUCT. PROBLEMS	Slight to moderate decrease because of deposition of sediment onsite.
• OFFSITE STRUCT. PROBLEMS	Slight decrease because of decrease of deposition of sediment onsite.
• ONSITE HEALTH	Slight to moderate decrease because of deposition of sediment onsite.
• OFFSITE HEALTH	Slight decrease because of decrease of deposition of sediment onsite.
AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS	Slight decrease because of decrease of deposition of sediment onsite.
AIRBORNE CHEMICAL DRIFT	Slight to moderate decrease because of reduced wind movement.
AIRBORNE ODORS	Slight to moderate decrease because of reduced wind movement.
FUNGI, MOLDS, AND POLLEN	Slight to moderate increase depending on species present.
OTHER	
RESOURCE CONCERN: AIR CONDITION	
AIR TEMPERATURE	Slight to moderate decrease because of moderation of temperature extremes.
AIR MOVEMENT (hedgerow effect)	Slight to moderate decrease because of disruption of surface wind zone of influence.
HUMIDITY	Slight to moderate decrease because of reduced evapotranspiration and moderation of humidity extremes.
OTHER	

RESOURCE: PLANT	
RESOURCE CONCERN: SUITABILITY	
RESOURCE INDICATORS	PHYSICAL EFFECTS
SITE ADAPTATION	Significant decreases because of selection of adapted tree species and modification of climate in zone of influence.
PLANT USE	Significant decreases because of selection of adapted tree species and decrease of crop damage because reduced erosion.
OTHER	
RESOURCE CONCERN: CONDITION	
PRODUCTIVITY	Moderate to significant increase because of modification of climate in zone of influence.
HEALTH, VIGOR, SURVIVAL	Moderate to significant increase because of modification of climate in zone of influence.
OTHER	
RESOURCE CONCERN: MANAGEMENT	
ESTAB., GROWTH, HARVEST	Moderate to significant decrease because of modification of climate in zone of influence
NUTRIENT MANAGEMENT	Moderate to significant decrease because reduced loss of nutrient associated with wind erosion.
PESTS	Negligible to moderate decrease because of providing habitat for wildlife species that consume pests.
THREAT/ENDANGERED PLANTS	Negligible to moderate decrease because of providing habitat for threat/endangered plants.
OTHER	

RESOURCE: ANIMAL	
RESOURCE CONCERN: HABITAT	
FOOD	Slight to moderate increase because of selection of suitable tree and shrub species. (providing food)
COVER/SHELTER	Slight to moderate increase because of selection of suitable tree and shrub species. (Providing covers and shelter.)
WATER (QUANTITY & QUALITY)	Slight to moderate increase because of selection of suitable tree and shrub species. (Providing sources of water.)
OTHER	
RESOURCE CONCERN: MANAGEMENT	
POPULATION BALANCE	Slight to moderate decrease because increased in permanent shelter and cover.
THREAT/ENDANGERED ANIMALS	Slight to moderate decrease because increased in permanent shelter and cover for THREAT/ENDANGERED ANIMALS.
HEALTH	N/A
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

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	