Effects of NRCS Conservation Practices - National				
Silvopasture Establishme	ent			
•		rubs and compatible forages on the same acreage. Units: ac. 다 구구하게 State acreage. Units: ac. 다 구구하게 State acreage. Units: ac. 다 구구하게 State acreage. Units: acreage ac		
Soil Erosion	Effect	Typical Landuse: ⊧		
Soil Erosion - Sheet and Rill Erosion	5	Establishing a combination of trees or shrubs and compatible forages will reduce erosion by water.		
Soil Erosion - Wind Erosion	5	Tall vegetation creates a wind shadow, reduces erosive wind velocities and, along with understory forage, provides a stable area which stops saltating particles.		
Soil Erosion - Ephemeral Gully Erosion	5	Establishing a combination of trees or shrubs and compatible forages will reduce erosion by water.		
Soil Erosion - Classic Gully Erosion	2	There will be decreased overland flow, enhanced vegetation cover.		
Soil Erosion - Streambank, Shoreline, Water Conveyance (2	There will be enhancement of protective riparian vegetation.		
Soil Quality Degradation Organic Matter Depletion	4	Roots, vegetative matter and livestock waste and their breakdown increases organic matter.		
Compaction	0	Root penetration and organic matter helps restore soil structure and counteracts compactive forces of hooves as livestock travers the grazed area.		
Subsidence	0	Not Applicable		
Concentration of Salts or Other Chemicals	0	Contaminants taken up by forage plants will be returned to the soil as manure. Most tree species take up limited amounts of salt.		
<u>Excess Water</u> Excess Water - Seeps	1	There is potential for a decrease in seep flow because of increased utilization of soil moisture, however there may be slight worsening due to increased infiltration, especially during dormant season.		
Excess Water - Runoff, Flooding, or Ponding	2	Runoff will be reduced and infiltration increased due to improved vegetative cover.		
Excess Water - Seasonal High Water Table	1	There may be an increase in plant uptake of water.		
Excess Water - Drifted Snow	2	Snow is captured by tree/shrub crowns and deposited within the grazed area.		
Insufficient Water Insufficient Water - Inefficient Use of Irrigation Water	0	Grazing animals may cause difficulty in scheduling irrigations.		
Insufficient Water - Inefficient Moisture Management	3	There will be increased infiltration, increased available water, and extended interflow yield.		
Water Quality Degradation Pesticides in Surface Water	3	Trees and shrubs take up pesticide residues and may intercept pesticide drift. Also, the practice reduces runoff and erosion.		
Pesticides in Groundwater	1	Trees and shrubs take up pesticide residues. Also, pesticide degradation may be improved by increased soil organic matter and biological activity.		
Nutrients in Surface water	5	Permanent vegetation will uptake excess nutrients.		
Nutrients in Groundwater	3	Permanent vegetation will uptake excess nutrients.		
Salts in Surface Water	1	Dense vegetation will increase infiltration and reduce runoff. Planting of range species in recharge areas may reduce movement o salts to seep areas and surface waters.		
Salts in Groundwater	1	The action may increase salt uptake by plants.		
Excess Pathogens and Chemicals from Manure, Bio-soli	1	Ground vegetation captures and delays pathogen movement and thereby increase their mortality.		
Excess Pathogens and Chemicals from Manure, Bio-soli	1	Vegetation captures and delays pathogen movement and thereby increases their mortality. Where pastures are grazed animals wi introduce pathogens to site.		
Excessive Sediment in Surface Water	3	Improved plant vigor and cover reduces erosion.		

Elevated Water Temperature	1	Tall vegetation established near surface waters provides shade and reduces direct sunlight heating.
Petroleum, Heavy Metals and Other Pollutants Transport	1	Some plants may take up heavy metals.
Petroleum, Heavy Metals and Other Pollutants Transport	1	The action may result in some increased heavy metal uptake by plants.
<u>Air Quality Impacts</u> Emissions of Particulate Matter (PM) and PM Precursors	1	Tall vegetation slows winds to reduce erosive wind velocities, vegetation filters particulates from the air and the planted areas stop saltating particles.
Emissions of Ozone Precursors	0	Not Applicable
Emissions of Greenhouse Gases (GHGs)	4	Vegetation removes CO2 from the air and stores it in the form of carbon in the plants and soil.
Objectionable Odors	1	Tall vegetation slows surface air movement and intercepts and captures air borne materials.
<u>Degraded Plant Condition</u> Undesirable Plant Productivity and Health	5	Plants are selected and managed to maintain optimal productivity and health.
Inadequate Structure and Composition	-1	Establishment and management of pasture reduces the native understroy plant community.
Excessive Plant Pest Pressure	0	Vegetation is installed and managed to control undesired species.
Wildfire Hazard, Excessive Biomass Accumulation	1	Overstory trees are spaced and managed to reduce hazard.
<u>Fish and Wildlife - Inadequate Habitat</u> Inadequate Habitat - Food	5	Plants are chosen and managed to enhance food for wildlife.
Inadequate Habitat - Cover/Shelter	3	Plants are chosen and managed to enhance value as cover/shelter.
Inadequate Habitat - Water	5	Not Applicable
Inadequate Habitat - Habitat Continuity (Space)	1	Tall vegetation creates vertical habitat structure/space.
Livestock Production Limitation Inadequate Feed and Forage	5	Plant species in the understory will be selected that accommodate seasonal livestock production and nutritional needs.
Inadequate Shelter	5	Tall vegetation provides shelter.
Inadequate Water	0	Not Applicable
<u>Inefficient Energy Use</u> Equipment and Facilities	0	Not Applicable
Farming/Ranching Practices and Field Operations	0	Not Applicable
		CPPE Practice Effects: 0 No Effect 5 Substantial Improvement -1 Slight Worsening 4 Moderate to Substantial Improvement -2 Slight to Moderate Worsening 3 Moderate Improvement -3 Moderate Worsening 2 Slight to Moderate Improvement -4 Moderate to Substantial Worsening
		1 Slight Improvement -5 Substantial Worsening