

System	Primary Resource Concerns Refer to the CPA-52 for site-specific resource concerns	Essential Practices Refer to the appropriate Conservation System Guide for site-specific planning requirements	Other Practices Any practice listed in the FOTG can be planned to address site-specific resource concerns
<b>CROP</b>	<b>SOIL</b>	Conservation Crop Rotation (328 )	Conservation Cover (327)
	1) Erosion	Irrigation Water Management (449) <sup>1</sup>	Contour Buffer Strips (332)
	a) Sheet & rill	Nutrient Management (590) <sup>2</sup>	Contour Farming (330)
	b) Wind	Pest Management (595) <sup>3</sup>	Cover crop (340)
	c) Gully: classic, ephemeral	Prescribed Grazing (528) <sup>4</sup>	Critical Area Planting (342)
	d) Irrigation induced	Residue and Tillage Mgmt ( <i>select one</i> )	Crosswind Ridges (588)
	2) Condition	Mulch Till (345)	Crosswind Trap Strips (589C)
	a) Organic matter depletion	No-Till & Strip Till (329)	Field Border (386)
	b) Soil compaction	Ridge Till (346)	Filter Strip (393)
	c) Contaminates: nutrients, pesticides, sediment, salts	Seasonal (344)	Grade Stabilization Structure (410)
	<b>WATER</b>	Upland Wildlife Habitat Management (645) <sup>5</sup>	Grassed Waterway (412)
	1) Quantity	Wetland Wildlife Habitat Management (644) <sup>5</sup>	Herbaceous Wind Barriers (603)
	a) Excessive seepage, runoff, flooding or ponding		Irrigation or Regulating Reservoir (552)
	b) Inefficient water use		Irrigation System, Microirrigation (441)
	c) Aquifer overdraft		Irrigation System, Sprinkler (442)
	2) Quality		Irrigation System, Surface and Subsurface (443)
	a) Groundwater or surface water contaminants: nutrients, pathogens, pesticides, salts, sediment		Mulching (484)
			Pasture and Hayland Planting (512)
	<b>AIR QUALITY</b>		Prescribed Burning (338)
	1) Particulate matter		Pumping Plant (533)
	2) Excessive greenhouse gasses		Range Planting (550)
	3) Ozone precursors		Riparian Forest Buffer (391)
	4) Odors, ammonia		Salinity and Sodic Soil Management (610)
	<b>PLANTS</b>		Stripcropping (585)
	1) Not adapted or suited		Structure for Water Control (587)
	2) Condition		Surface Roughening (609)
	a) Productivity, health and vigor		Terrace (600)
	b) Noxious or invasives		Use Exclusion (472)
	<b>ANIMALS</b>		Water and Sediment Control Basin (638)
	1) Fish and wildlife		Water Well (642)
a) Inadequate food, shelter, water		Windbreak/Shelterbelt Establishment (380)	
b) Habitat fragmentation			
c) T&E Species			
2) Domestic			
a) Inadequate feed, forage			
b) Stress and mortality			

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<b>HAY</b>	<b>SOIL</b>	Forage Harvest Management (511)	Above Ground, Multi-Outlet Pipeline (431)
	1) Erosion	Irrigation Water Management (449) <sup>1</sup>	Conservation Cover (327)
	a) Gully: classic, ephemeral	Nutrient Management (590) <sup>2</sup>	Conservation Crop Rotation (328)
	b) Irrigation induced	Pest Management (595) <sup>3</sup>	Critical Area Planting (342)
	2) Condition	Prescribed Grazing (528) <sup>4</sup>	Fence (382)
	a) Soil compaction	Upland Wildlife Habitat Management (645) <sup>5</sup>	Grade Stabilization Structure (410)
	b) Contaminates: nutrients, pesticides, sediment, salts	Wetland Wildlife Habitat Management (644) <sup>5</sup>	Irrigation Field Ditch (388)
	<b>WATER</b>		Irrigation System, Sprinkler (442)
	1) Quantity		Irrigation System, Surface and Subsurface (443)
	a) Excessive seepage, runoff, flooding or ponding		Irrigation Water Conveyance, Pipeline, H (430DD)
	b) Inefficient water use		Irrigation Water Conveyance, Pipeline, L (430EE)
	c) Aquifer overdraft		Mulching (484)
	2) Quality		Pasture and Hayland Planting (512)
	a) Groundwater or surface water contaminants: nutrients, pathogens, pesticides, salts, sediment		Pipeline (516)
	<b>AIR</b>		Range Planting (550)
	1) Particulate matter		Structure for Water Control (587)
	2) Excessive greenhouse gasses		Use Exclusion (472)
	3) Ozone precursors		Water Well (642)
	4) Odors, ammonia		Watering Facility (614)
	<b>PLANTS</b>		
	1) Not adapted or suited		
	2) Condition		
	a) Productivity, health and vigor		
	b) Noxious or invasives		
	<b>ANIMALS</b>		
	1) Fish and wildlife		
	a) Inadequate food, shelter, water		
	b) Habitat fragmentation		
c) T&E Species			
2) Domestic			
a) Inadequate feed, forage, shelter, stock water			
b) Stress and mortality			

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<b>PASTURE</b>	<b>SOIL</b>	Forage Harvest Management (511)	Above Ground, Multi-Outlet Pipeline (431)
	1) Erosion	Irrigation Water Management (449) <sup>1</sup>	Animal Trails and Walkways (575)
	a) Gully: classic, ephemeral	Nutrient Management (590) <sup>2</sup>	Brush Management (314)
	b) Irrigation induced	Pest Management (595) <sup>3</sup>	Conservation Cover (327)
	2) Condition	Prescribed Grazing (528)	Cover Crop (340)
	a) Soil compaction	Upland Wildlife Habitat Management (645) <sup>5</sup>	Critical Area Planting (342)
	b) Contaminates: nutrients, pesticides, sediment, salts	Wetland Wildlife Habitat Management (644) <sup>5</sup>	Fence (382)
	<b>WATER</b>		Firebreak (394)
	1) Quantity		Grade Stabilization Structure (410)
	a) Excessive seepage, runoff, flooding or ponding		Grazing Land Mechanical Treatment (548)
	b) Inefficient water use		Irrigation System, Sprinkler (442)
	c) Aquifer overdraft		Irrigation System, Surface and Subsurface (443)
	2) Quality		Irrigation Water Conveyance, Pipeline, H (430DD)
	a) Groundwater or surface water contaminants: nutrients, pathogens, pesticides, salts, sediment		Mulching (484)
	<b>AIR</b>		Pasture and Hayland Planting (512)
	1) Particulate matter		Pipeline (516)
	2) Excessive greenhouse gasses		Pond (378)
	3) Ozone precursors		Prescribed Burning (338)
	4) Odors, ammonia		Range Planting (550)
	<b>PLANTS</b>		Spring Development (574)
	1) Not adapted or suited		Structure for Water Control (587)
	2) Condition		Use Exclusion (472)
	a) Productivity, health and vigor		Water Well (642)
	b) Noxious or invasives		Watering Facility (614)
	c) T&E species		
	<b>ANIMALS</b>		
	1) Fish and wildlife		
	a) Inadequate food, shelter, water		
b) Habitat fragmentation			
c) T&E Species			
2) Domestic			
a) Inadequate feed, forage, shelter, stock water			
b) Stress and mortality			

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<b>GRAZED RANGE</b>	<b>SOIL</b>	Fence (382)	Animal Trails and Walkways (575)
	1) Erosion	Nutrient Management (590) <sup>2</sup>	Brush Management (314)
	a) Gully: classic, ephemeral	Pest Management (595) <sup>3</sup>	Conservation Cover (327)
	b) Irrigation induced	Prescribed Grazing - (528)	Cover Crop (340)
	2) Condition	Upland Wildlife Habitat Management (645) <sup>5</sup>	Critical Area Planting (342)
	a) Soil compaction	Wetland Wildlife Habitat Management (644) <sup>5</sup>	Fence (382)
	b) Contaminates: nutrients, pesticides, sediment, salts		Firebreak (394)
	<b>WATER</b>		Forest Stand Improvement (666)
	1) Quantity		Fuel Break (383)
	a) Excessive seepage, runoff, flooding or ponding		Grade Stabilization Structure (410)
	b) Inefficient water use		Grazing Land Mechanical Treatment (548)
	c) Aquifer overdraft		Mulching (484)
	2) Quality		Nutrient Management (590) <sup>2</sup>
	a) Groundwater or surface water contaminants: nutrients, pathogens, pesticides, salts, sediment		Pipeline (516)
	<b>AIR</b>		Pond (378)
	1) Particulate matter		Prescribed Burning (338)
	2) Excessive greenhouse gasses		Range Planting (550)
	3) Ozone precursors		Restoration/Mgmt of Rare or Declining Habitats (643)
	4) Odors, ammonia		Riparian Forest Buffer (391)
	<b>PLANTS</b>		Riparian Herbaceous Cover (390)
	1) Not adapted or suited		Shallow Water Development/Mgmt for Wildlife (646)
	2) Condition		Spring Development (574)
	a) Productivity, health and vigor		Stream Habitat Improvement and Mgmt (395)
	b) Noxious or invasives		Streambank and Shoreline Protection (580)
	c) T&E species		Use Exclusion (472)
	<b>ANIMALS</b>		Watering Facility (614)
	1) Fish and wildlife		Water Well (642)
	a) Inadequate food, shelter, water		
	b) Habitat fragmentation		
	c) T&E Species		
2) Domestic			
a) Inadequate feed, forage, shelter, stock water			
b) Stress and mortality			

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<b>FOREST</b>	<b>SOIL</b>	Forest Stand Improvement (666)	Animal Trails and Walkways (575)
	1) Erosion	Nutrient Management (590) <sup>2</sup>	Brush Management (314)
	a) Gully: classic, ephemeral	Pest Management (595) <sup>3</sup>	Conservation Cover (327)
	b) Irrigation induced	Prescribed Grazing (528) <sup>4</sup>	Critical Area Planting (342)
	2) Condition	Upland Wildlife Habitat Management (645) <sup>5</sup>	Fence (382)
	a) Soil compaction	Wetland Wildlife Habitat Management (644) <sup>5</sup>	Firebreak (394)
	b) Contaminates: nutrients, pesticides, sediment, salts		Forest Site Preparation (490)
	<b>WATER</b>		Forest Slash Treatment (384)
	1) Quantity		Forest Trails and Landings (655)
	a) Excessive seepage, runoff, flooding or ponding		Fuel Break (383)
	b) Inefficient water use		Grazing Land Mechanical Treatment (548)
	c) Aquifer overdraft		Mulching (484)
	2) Quality		Nutrient Management (590) <sup>2</sup>
	a) Groundwater or surface water contaminants: nutrients, pathogens, pesticides, salts, sediment		Pest Management (595) <sup>3</sup>
	<b>AIR</b>		Pipeline (516)
	1) Particulate matter		Pond (378)
	2) Excessive greenhouse gasses		Prescribed Burning (338)
	3) Ozone precursors		Range Planting (550)
	4) Odors, ammonia		Restoration/Mgmt of Rare or Declining Habitats (643)
	<b>PLANTS</b>		Riparian Forest Buffer (391)
	1) Not adapted or suited		Riparian Herbaceous Cover (390)
	2) Condition		Shallow Water Development/Mgmt for Wildlife (646)
	a) Productivity, health and vigor		Spring Development (574)
	b) Noxious or invasives		Stream Habitat Improvement and Mgmt (395)
	c) T&E species		Streambank and Shoreline Protection (580)
	<b>ANIMALS</b>		Tree/Shrub Establishment (612)
	1) Fish and wildlife		Tree/Shrub Pruning (660)
	a) Inadequate food, shelter, water		Use Exclusion (472)
	b) Habitat fragmentation		Water Well (642)
	c) T&E species		Watering Facility (614)
2) Domestic			
a) Inadequate feed, forage, shelter, stock water			
b) Stress and mortality			

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<b>GRAZED FOREST</b>	<b>SOIL</b>	Forest Stand Improvement (666)	Animal Trails and Walkways (575)
	1) Erosion	Nutrient Management (590) <sup>2</sup>	Brush Management (314)
	a) Gully: classic, ephemeral	Pest Management (595) <sup>3</sup>	Conservation Cover (327)
	b) Irrigation induced	Prescribed Grazing (528)	Critical Area Planting (342)
	2) Condition	Upland Wildlife Habitat Management (645) <sup>5</sup>	Fence (382)
	a) Soil compaction	Wetland Wildlife Habitat Management (644) <sup>5</sup>	Firebreak (394)
	b) Contaminates: nutrients, pesticides, sediment, salts		Forest Site Preparation (490)
	<b>WATER</b>		Forest Slash Treatment (384)
	1) Quantity		Forest Trails and Landings (655)
	a) Excessive seepage, runoff, flooding or ponding		Fuel Break (383)
	b) Inefficient water use		Grazing Land Mechanical Treatment (548)
	c) Aquifer overdraft		Mulching (484)
	2) Quality		Nutrient Management (590) <sup>2</sup>
	a) Groundwater or surface water contaminants: nutrients, pathogens, pesticides, salts, sediment		Pest Management (595) <sup>3</sup>
	<b>AIR</b>		Pipeline (516)
	1) Particulate matter		Pond (378)
	2) Excessive greenhouse gasses		Prescribed Burning (338)
	3) Ozone precursors		Prescribed Grazing (528)
	4) Odors, ammonia		Range Planting (550)
	<b>PLANTS</b>		Restoration/Mgmt of Rare or Declining Habitats (643)
	1) Not adapted or suited		Riparian Forest Buffer (391)
	2) Condition		Riparian Herbaceous Cover (390)
	a) Productivity, health and vigor		Shallow Water Development/Mgmt for Wildlife (646)
	b) Noxious or invasives		Spring Development (574)
	c) T&E species		Stream Habitat Improvement and Mgmt (395)
	<b>ANIMALS</b>		Streambank and Shoreline Protection (580)
	1) Fish and wildlife		Tree/Shrub Establishment (612)
	a) Inadequate food, shelter, water		Tree/Shrub Pruning (660)
	b) Habitat fragmentation		Use Exclusion (472)
	c) T&E Species		Water Well (642)
2) Domestic		Watering Facility (614)	
a) Inadequate feed, forage, shelter, stock water			
b) Stress and mortality			

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<b>WILDLIFE</b>	<b>ANIMALS</b>	Upland Wildlife Habitat Management (645) <sup>6</sup> and/or	Brush Management (314) Conservation Cover (327)
	1) Fish and wildlife	Wetland Wildlife Habitat Management (644) <sup>6</sup> and/or	Conservation Crop Rotation (328)
	a) Inadequate food, shelter, water	Early Successional Habitat Devmt/Mgmt. (647) <sup>6</sup> and/or	Constructed Wetland (656)
	b) Habitat fragmentation	Restoration/Mgmt of Rare or Declining Habitats (643) <sup>6</sup> and/or	Critical Area Planting (342)
c) T&E Species	Shallow Water Development/Mgmt for Wildlife (646) <sup>6</sup>	Dam (402)	
		Dike (356) Fence (382) Fish Pond Management (399) Forage Harvest Management (511) Forest Stand Improvement (666) Hedgerow Planting (422) Irrigation Water Management (449) <sup>1</sup> Mulching (484) Nutrient Management (590) <sup>2</sup> Pasture and Hayland Planting (512) Pest Management (595) <sup>3</sup> Pipeline (516) Pond (378) Prescribed Burning (338) Prescribed Grazing (528) Range Planting (550) Residue Management, Seasonal (344) Riparian Forest Buffer (391) Riparian Herbaceous Cover (390) Spring Development (574) Stream Habitat Improvement and Mgmt (395) Streambank and Shoreline Protection (580) Structure for Water Control (587) Tree/Shrub Establishment (612) Use Exclusion (472) Watering Facility (614) Wetland Creation (658) Wetland Enhancement (659) Wetland Restoration (657) Windbreak/Shelterbelt Establishment (380) Windbreak/Shelterbelt Renovation (650)	

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<b>HEADQUARTERS</b>	<b>SOIL</b>	CNMP	Agrichemical Handling Facility (309)
	1) Erosion		Composting Facility (317)
	a) Gully		Critical Area Planting (342)
	2) Condition		Diversion (362)
	a) Contaminates: nutrients, pesticides, sediment, salts		Fence (382)
	<b>WATER</b>		Filter Strip (393)
	1) Quantity		Firebreak (394)
	a) Excessive seepage, runoff, flooding or ponding		Heavy Use Area Protection (561)
	b) Inefficient water use		Irrigation System, Microirrigation (441)
	c) Aquifer overdraft		Manure Transfer (634)
	2) Quality		Mulching (484)
	a) Groundwater or surface water contaminants: nutrients, pathogens, pesticides, salts, sediment		Nutrient Management (590) <sup>2</sup>
	<b>AIR</b>		Pest Management (595) <sup>3</sup>
	1) Particulate matter		Pond Sealing or Lining, Flexible Memb (521A)
	2) Excessive greenhouse gasses		Pumping Plant (533)
	3) Ozone precursors		Roof Runoff Structure (558)
	4) Odors, ammonia		Sediment Basin (350)
	<b>PLANTS</b>		Surface Roughening (609)
	1) Not adapted or suited		Upland Wildlife Habitat Management (645)
	2) Condition		Use Exclusion (472)
	a) Noxious or invasives		Vegetated Treatment Area (635)
	<b>ANIMALS</b>		Waste Storage Facility (313)
	1) Domestic		Waste Treatment Lagoon (359)
	a) Inadequate feed, forage, shelter, stock water		Waste Utilization (633)
	b) Stress and mortality		Well Decommissioning (351)
			Wetland Wildlife Habitat Management (644)
			Windbreak/Shelterbelt Establishment (380)
			Windbreak/Shelterbelt Renovation (650)

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<b>URBAN</b>	<b>SOIL</b>	Irrigation Water Management (449) <sup>1</sup>	Critical Area Planting (342)
	1) Erosion	Nutrient Management (590) <sup>2</sup>	Diversion (362)
	a) Sheet & Rill	Pest Management (595) <sup>3</sup>	Grade Stabilization Structure (410)
	b) Wind	Use Exclusion (472)	Grassed Waterways (412)
	c) Gully: classic, ephemeral		Mulching (484)
	<b>WATER</b>		Open Channel (582)
	1) Quantity		Sediment Basin (350)
	a) Excessive seepage, runoff, flooding or ponding		Surface Roughening (609)
	b) Inefficient water use		Terrace (600)
	c) Aquifer overdraft		Use Exclusion (472)
	2) Quality		
	a) Groundwater or surface water contaminants: nutrients, pathogens, pesticides, salts, sediment		
	<b>AIR</b>		
	1) Particulate matter		
	2) Excessive greenhouse gasses		
	3) Ozone precursors		
	4) Odors, ammonia		
	<b>PLANTS</b>		
	1) Not adapted or suited		
	2) Condition		
	a) Noxious or invasives		
<b>ANIMALS</b>			
1) Fish and wildlife			
a) Inadequate food, shelter, water			
b) Habitat fragmentation			
c) T&E Species			

**FOOTNOTES:**

- <sup>1</sup> Plan and apply for irrigated sites
- <sup>2</sup> Plan and apply when any form of nutrients and or soil amendments are applied, i.e., organic, inorganic, irrigation water, etc.
- <sup>3</sup> Plan and apply when any form of integrated pest management is applied, i.e., Prevention, Avoidance, Monitoring and or Suppression.
- <sup>4</sup> Plan and apply when grazing animals are included in the system. Provide an adequate water supply for the species of concern.
- <sup>5</sup> Plan and apply when 1-the landowner identifies fish and/or wildlife resource concerns or 2-Federal or State threatened or endangered species or State Species of Special Concern are identified resource concerns.
- <sup>6</sup> Plan and apply only one of these practices per site.