

Conservation Practice Physical Effects - Access Road (560)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Slight +
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Not Applicable
(b) Soil Compaction	Moderate +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Moderate +
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Slight +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Not Applicable
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Not Applicable
(d) Inadequate Outlets	Slight +
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Slight +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Moderate +
(c) Salinity	Not Applicable
(d) Heavy Metals	Not Applicable
(e) Pathogens	Not Applicable
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Not Applicable
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Not Applicable
(l) Heavy Metals	Not Applicable
(m) Temperature	Not Applicable
(n) Pathogens	Not Applicable
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Access Road (560)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Slight -</p> <p>Significant +</p> <p>Not Applicable</p> <p>Not Applicable</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Slight +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Brush Management (Biological) (314)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Negligible
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Slight -
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Slight -
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Slight +
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Not Applicable
(h) Nutrients and Organics	Not Applicable
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Not Applicable
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Brush Management (Biological) (314)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Significant +</p> <p>Not Applicable</p> <p>Slight +</p> <p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Slight +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Slight -</p> <p>Slight -</p> <p>Moderate +</p> <p>Slight -</p> <p>Slight -</p> <p>Significant +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Brush Management (Chemical) (314)**

Soil	Resource Problem / Consideration	Effect
1. Erosion		
	(a) Sheet and Rill	Moderate +
	(b) Wind	Moderate +
	(c) Concentrated Flow: Ephemeral Gully	Moderate +
	(d) Concentrated Flow: Classic Gully	Moderate +
	(e) Streambank	Negligible
	(f) Irrigation Induced	Not Applicable
	(g) Soil Mass Movement	Slight -
	(h) Roadbank and Construction Sites	Negligible
	(i) Safety	Slight -
2. Condition		
	(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
	(b) Soil Compaction	Negligible
	<u>Soil Contaminants</u>	
	(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
	(d) Excess Animal Wastes & Other Organics	Not Applicable
	(e) Excess Fertilizer	Not Applicable
	(f) Excess Pesticides	Not Applicable
3. Deposition		
	(a) Damage: Onsite	Moderate +
	(b) Damage: Offsite	Moderate +
	(c) Safety: Onsite	Moderate +
	(d) Safety: Offsite	Slight +
Water	Resource Problem / Consideration	Effect
1. Quantity		
	(a) Excess Amounts: Seeps	Moderate +
	(b) Excess Amounts: Runoff / Flooding	Moderate +
	(c) Excess Amounts: Subsurface Water	Moderate +
	(d) Inadequate Outlets	Negligible
	(e) Water Management for Irrigated Land	Slight +
	(f) Water Management for Non- Irrigated Land	Moderate +
	(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
	(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
	(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality		
	<u>Groundwater Contaminants</u>	
	(a) Pesticides	Negligible
	(b) Nutrients and Organics	Negligible
	(c) Salinity	Negligible
	(d) Heavy Metals	Negligible
	(e) Pathogens	Negligible
	<u>Surface Water Contaminants (Streams and Lakes)</u>	
	(g) Pesticides	Negligible
	(h) Nutrients and Organics	Negligible
	(i) Suspended Sediment and Turbidity	Negligible
	(j) Low Dissolved Oxygen	Negligible
	(k) Salinity	Negligible
	(l) Heavy Metals	Negligible
	(m) Temperature	Negligible
	(n) Pathogens	Not Applicable
	(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants and Animals.

Conservation Practice Physical Effects - Brush Management (Chemical) (314)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight -</p> <p>Slight -</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Slight +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Slight -</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight -</p> <p>Moderate +</p> <p>Significant +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants and Animals.

Conservation Practice Physical Effects - **Brush Management (Mechanical) (314)**

Soil	Resource Problem / Consideration	Effect
1. Erosion		
	(a) Sheet and Rill	Moderate +
	(b) Wind	Moderate +
	(c) Concentrated Flow: Ephemeral Gully	Moderate +
	(d) Concentrated Flow: Classic Gully	Moderate +
	(e) Streambank	Negligible
	(f) Irrigation Induced	Not Applicable
	(g) Soil Mass Movement	Slight -
	(h) Roadbank and Construction Sites	Negligible
	(i) Safety	Slight -
2. Condition		
	(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
	(b) Soil Compaction	Negligible
	<u>Soil Contaminants</u>	
	(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
	(d) Excess Animal Wastes & Other Organics	Not Applicable
	(e) Excess Fertilizer	Not Applicable
	(f) Excess Pesticides	Not Applicable
3. Deposition		
	(a) Damage: Onsite	Moderate +
	(b) Damage: Offsite	Moderate +
	(c) Safety: Onsite	Moderate +
	(d) Safety: Offsite	Slight +
Water	Resource Problem / Consideration	Effect
1. Quantity		
	(a) Excess Amounts: Seeps	Moderate +
	(b) Excess Amounts: Runoff / Flooding	Moderate +
	(c) Excess Amounts: Subsurface Water	Moderate +
	(d) Inadequate Outlets	Negligible
	(e) Water Management for Irrigated Land	Slight +
	(f) Water Management for Non- Irrigated Land	Moderate +
	(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
	(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
	(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality		
	<u>Groundwater Contaminants</u>	
	(a) Pesticides	Negligible
	(b) Nutrients and Organics	Negligible
	(c) Salinity	Negligible
	(d) Heavy Metals	Negligible
	(e) Pathogens	Negligible
	<u>Surface Water Contaminants (Streams and Lakes)</u>	
	(g) Pesticides	Not Applicable
	(h) Nutrients and Organics	Negligible
	(i) Suspended Sediment and Turbidity	Negligible
	(j) Low Dissolved Oxygen	Negligible
	(k) Salinity	Negligible
	(l) Heavy Metals	Negligible
	(m) Temperature	Negligible
	(n) Pathogens	Not Applicable
	(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Brush Management (Mechanical) (314)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Significant +</p> <p>Not Applicable</p> <p>Slight +</p> <p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Slight +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Significant +</p> <p>Slight -</p> <p>Moderate +</p> <p>Significant +</p> <p>Slight -</p> <p>Moderate +</p> <p>Significant +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

**Conservation Practice Physical Effects - Brush Management
(Prescribed Burning) (314)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Negligible
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Slight -
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Slight -
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Slight +
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Not Applicable
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Not Applicable
(o) Aquatic Habitat Suitability	Negligible

*Additional guidance for determining effects for a specific practice can be found
in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.*

Conservation Practice Physical Effects - Brush Management (Prescribed Burning) (314)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Slight -</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Slight +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Significant +</p> <p>Slight -</p> <p>Moderate +</p> <p>Significant +</p> <p>Slight -</p> <p>Moderate +</p> <p>Significant +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Channel Vegetation (322)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Significant +
(d) Concentrated Flow: Classic Gully	Significant +
(e) Streambank	Significant +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Significant +
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Slight +
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Negligible
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Significant +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible- Slight +
(h) Nutrients and Organics	Negligible- Slight +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Moderate +
(n) Pathogens	Slight +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Channel Vegetation (322)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Clearing and Snagging (326)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Slight +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Slight +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Not Applicable
(b) Soil Compaction	Not Applicable
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Significant +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Slight +
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Significant +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Significant +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Significant +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Significant +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight -

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Clearing and Snagging (326)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Slight -</p> <p>Not Applicable</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Slight -</p> <p>Slight -</p> <p>Slight +</p> <p>Slight -</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Conservation Cover (327)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Significant +
(b) Wind	Significant +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Not Applicable
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
(b) Soil Compaction	Significant +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Slight +
(e) Excess Fertilizer	Slight +
(f) Excess Pesticides	Significant +
3. Deposition	
(a) Damage: Onsite	Significant +
(b) Damage: Offsite	Significant +
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Negligible
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Moderate +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Significant +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Negligible
(l) Heavy Metals	Not Applicable
(m) Temperature	Slight +
(n) Pathogens	Slight +
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Conservation Cover (327)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p> <p>Significant +</p> <p>Moderate +</p> <p>Significant +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Significant +</p> <p>Slight +</p> <p>Negligible</p> <p>Significant +</p> <p>Significant +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Conservation Crop Rotation (328)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Slight +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Negligible
(f) Irrigation Induced	Slight +
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Moderate +
(e) Excess Fertilizer	Moderate +
(f) Excess Pesticides	Moderate +
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Slight +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Slight +
(d) Inadequate Outlets	Slight +
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Slight +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Slight +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Moderate +
(b) Nutrients and Organics	Moderate +
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Slight +
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Conservation Crop Rotation (328)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Contour Farming (330)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Negligible
(f) Irrigation Induced	Moderate +
(g) Soil Mass Movement	Slight -
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Slight +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight -
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Slight -
(d) Inadequate Outlets	Slight -
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Moderate +
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Moderate +
(k) Salinity	Slight +
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Contour Farming (330)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Cover and Green Manure Crop (340)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Negligible
(f) Irrigation Induced	Slight +
(g) Soil Mass Movement	Slight +
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Moderate +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Slight +
(e) Excess Fertilizer	Slight +
(f) Excess Pesticides	Slight +
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Slight +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight +
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Slight +
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Slight +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Slight +
(d) Heavy Metals	Slight +
(e) Pathogens	Moderate +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Slight +
(m) Temperature	Slight +
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Cover and Green Manure Crop (340)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Significant +</p> <p>Significant +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Critical Area Planting (342)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Significant +
(b) Wind	Significant +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Significant +
(f) Irrigation Induced	Moderate +
(g) Soil Mass Movement	Significant +
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
(b) Soil Compaction	Significant +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Significant +
(d) Safety: Offsite	Significant +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight -
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Significant +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Significant +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Not Applicable
(b) Nutrients and Organics	Not Applicable
(c) Salinity	Slight +
(d) Heavy Metals	Negligible
(e) Pathogens	Not Applicable
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Significant +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Moderate +
(l) Heavy Metals	Moderate +
(m) Temperature	Slight +
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Cross Wind Ridges (589A)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Significant +
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Not Applicable
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Slight +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Not Applicable
(b) Excess Amounts: Runoff / Flooding	Not Applicable
(c) Excess Amounts: Subsurface Water	Not Applicable
(d) Inadequate Outlets	Not Applicable
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Not Applicable
(b) Nutrients and Organics	Not Applicable
(c) Salinity	Not Applicable
(d) Heavy Metals	Not Applicable
(e) Pathogens	Not Applicable
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Not Applicable
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Not Applicable
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Cross Wind Ridges (589A)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Significant +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Significant +</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Cross Wind Stripcropping (589B)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Significant +
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Negligible
(f) Irrigation Induced	Moderate +
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Slight +
(e) Excess Fertilizer	Slight +
(f) Excess Pesticides	Slight +
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Slight +
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Cross Wind Stripcropping (589B)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Significant +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Significant +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi) Moderate +</p>	<p>Moderate +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Cross Wind Trap Strips (589C)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Significant +
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Negligible
(f) Irrigation Induced	Moderate +
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Slight +
(e) Excess Fertilizer	Slight +
(f) Excess Pesticides	Slight +
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Significant +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Section V

Conservation Practice Physical Effects - Cross Wind Trap Strips (589C)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Significant +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Significant +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Dam (Diversion) (348)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Negligible
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Slight +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Slight +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Moderate +
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Negligible
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Dam (Diversion) (348)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Slight +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Dam (Floodwater Retarding) (402)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Slight +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Slight +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Negligible
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Significant +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Slight +
(d) Heavy Metals	Slight +
(e) Pathogens	Slight +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Slight +
(m) Temperature	Slight +
(n) Pathogens	Slight +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Dam (Floodwater Retarding) (402)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Dam (Multiple Purpose) (349)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Slight +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Negligible
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight -
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Slight -
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Slight +
(f) Water Management for Non- Irrigated Land	Negligible
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Significant +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Slight +
(m) Temperature	Slight +
(n) Pathogens	Slight +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Dam (Multiple Purpose) (349)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Slight +</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Deferred Grazing (352)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Significant +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Significant +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Moderate +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
(d) Excess Animal Wastes & Other Organics	Significant +
(e) Excess Fertilizer	Significant +
(f) Excess Pesticides	Slight +
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Slight +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Moderate +
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Slight +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Slight +
(d) Heavy Metals	Slight +
(e) Pathogens	Slight +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Negligible
(m) Temperature	Slight +
(n) Pathogens	Moderate +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Deferred Grazing (352)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p> <p>Moderate +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Significant +</p> <p>Significant +</p> <p>Moderate +</p> <p>Significant +</p> <p>Significant +</p> <p>Moderate +</p> <p>Significant +</p> <p>Significant +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Dike (356)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Slight +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Not Applicable
(b) Soil Compaction	Not Applicable
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Significant +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Slight +
(d) Heavy Metals	Slight +
(e) Pathogens	Slight +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Moderate +
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Moderate +
(n) Pathogens	Moderate +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Dike (356)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight -</p> <p>Slight +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Diversion (Gradient) (362)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Slight +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Negligible
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Significant +
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Moderate +
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight +
(b) Excess Amounts: Runoff / Flooding	Significant +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Significant +
(f) Water Management for Non- Irrigated Land	Significant +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight -
(b) Nutrients and Organics	Slight -
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Moderate +
(k) Salinity	Not Applicable
(l) Heavy Metals	Moderate +
(m) Temperature	Negligible
(n) Pathogens	Moderate +
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Diversion (Gradient) (362)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Not Applicable</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Slight -</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Slight +</p> <p>Significant +</p> <p>Slight +</p> <p>Slight +</p> <p>Significant +</p> <p>Slight +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Diversion (Level) (362)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Slight +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Significant +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Negligible
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Slight +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Slight +
(f) Excess Pesticides	Slight +
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Moderate +
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Slight +
(d) Heavy Metals	Slight +
(e) Pathogens	Slight +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Slight +
(m) Temperature	Slight +
(n) Pathogens	Slight +
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Diversion (Level) (362)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Slight +</p> <p>Negligible</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Emergency Tillage (365)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Negligible
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Slight +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Slight +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Negligible
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Slight -
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Emergency Tillage (365)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Moderate +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight -</p> <p>Slight -</p> <p>Negligible</p> <p>Slight -</p> <p>Slight -</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Fencing (382)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
(b) Soil Compaction	Significant +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Significant +
(d) Excess Animal Wastes & Other Organics	Significant +
(e) Excess Fertilizer	Significant +
(f) Excess Pesticides	Significant +
3. Deposition	
(a) Damage: Onsite	Significant +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Significant +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight +
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Not Applicable
(d) Inadequate Outlets	Slight +
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Slight +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Slight +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Slight +
(d) Heavy Metals	Moderate +
(e) Pathogens	Slight +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Moderate +
(k) Salinity	Slight +
(l) Heavy Metals	Slight +
(m) Temperature	Moderate +
(n) Pathogens	Moderate +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Field Border (386)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Slight +
(f) Irrigation Induced	Significant +
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Moderate +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Negligible
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Not Applicable
(c) Excess Amounts: Subsurface Water	Not Applicable
(d) Inadequate Outlets	Not Applicable
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Not Applicable
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Not Applicable
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Not Applicable
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Not Applicable
(b) Nutrients and Organics	Negligible
(c) Salinity	Not Applicable
(d) Heavy Metals	Not Applicable
(e) Pathogens	Not Applicable
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Not Applicable
(h) Nutrients and Organics	Not Applicable
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Not Applicable
(l) Heavy Metals	Not Applicable
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Field Border (386)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Significant +</p> <p>Significant +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Filter Strip (393)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Moderate +
(f) Irrigation Induced	Slight +
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Slight +
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Not Applicable
(c) Excess Amounts: Subsurface Water	Not Applicable
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight -
(b) Nutrients and Organics	Slight -
(c) Salinity	Negligible
(d) Heavy Metals	Slight -
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Moderate +
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Filter Strip (393)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Significant +</p> <p>Significant +</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight -</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight -</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Firebreak (394)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Moderate +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Slight -
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Significant +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Slight -
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Significant +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Moderate +
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Moderate +
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Firebreak (394)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Significant +</p> <p>Not Applicable</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Not Applicable</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Fish Stream Improvement (395)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Significant +
(f) Irrigation Induced	Moderate +
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Slight +
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
(d) Excess Animal Wastes & Other Organics	Moderate +
(e) Excess Fertilizer	Moderate +
(f) Excess Pesticides	Moderate +
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Slight +
(d) Inadequate Outlets	Moderate +
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Moderate +
(b) Nutrients and Organics	Moderate +
(c) Salinity	Moderate +
(d) Heavy Metals	Moderate +
(e) Pathogens	Moderate +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Significant +
(k) Salinity	Moderate +
(l) Heavy Metals	Moderate +
(m) Temperature	Moderate +
(n) Pathogens	Moderate +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Fish Stream Improvement (395)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Moderate +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Fishpond Management (399)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Significant +
(b) Wind	Slight +
(c) Concentrated Flow: Ephemeral Gully	Significant +
(d) Concentrated Flow: Classic Gully	Significant +
(e) Streambank	Significant +
(f) Irrigation Induced	Significant +
(g) Soil Mass Movement	Significant +
(h) Roadbank and Construction Sites	Significant +
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Slight +
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
(d) Excess Animal Wastes & Other Organics	Moderate +
(e) Excess Fertilizer	Significant +
(f) Excess Pesticides	Moderate +
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Slight +
(d) Inadequate Outlets	Moderate +
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Significant +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Significant +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Significant +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Significant +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Significant +
(b) Nutrients and Organics	Moderate +
(c) Salinity	Significant +
(d) Heavy Metals	Significant +
(e) Pathogens	Moderate +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Significant +
(h) Nutrients and Organics	Significant +
(i) Suspended Sediment and Turbidity	Significant +
(j) Low Dissolved Oxygen	Significant +
(k) Salinity	Significant +
(l) Heavy Metals	Significant +
(m) Temperature	Significant +
(n) Pathogens	Significant +
(o) Aquatic Habitat Suitability	Significant +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Fishpond Management (399)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Significant +</p> <p>Significant +</p> <p>Not Applicable</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Significant +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Floodwater Diversion (400)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Slight +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Slight +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Negligible
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Significant +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Slight +
(m) Temperature	Slight +
(n) Pathogens	Slight +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Floodwater Diversion (400)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Floodway (404)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Slight +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Moderate +
(e) Water Management for Irrigated Land	Slight +
(f) Water Management for Non- Irrigated Land	Negligible
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Slight +
(c) Salinity	Slight +
(d) Heavy Metals	Slight +
(e) Pathogens	Slight +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Slight +
(m) Temperature	Slight +
(n) Pathogens	Slight +
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Floodway (404)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Forest Harvest Trails & Landings (654)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Slight +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Slight -
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Slight -
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Slight -
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Slight -
(b) Damage: Offsite	Slight -
(c) Safety: Onsite	Slight -
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight -
(b) Excess Amounts: Runoff / Flooding	Negligible
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Moderate -
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Slight -
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Not Applicable
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Not Applicable
(h) Nutrients and Organics	Slight -
(i) Suspended Sediment and Turbidity	Slight -
(j) Low Dissolved Oxygen	Slight -
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Slight -
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight -

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Forest Stand Improvement (666)**

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Not Applicable
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Negligible
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Slight -
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Negligible
(b) Damage: Offsite	Negligible
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Negligible
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Slight -
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Slight -
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Forest Stand Improvement (666)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Significant +</p> <p>Not Applicable</p> <p>Significant +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Grade Stabilization Structure (410)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Not Applicable
(b) Wind	Not Applicable
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Significant +
(e) Streambank	Moderate +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Not Applicable
(b) Soil Compaction	Not Applicable
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Not Applicable
(b) Excess Amounts: Runoff / Flooding	Not Applicable
(c) Excess Amounts: Subsurface Water	Not Applicable
(d) Inadequate Outlets	Significant +
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Grade Stabilization Structure (410)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Significant +</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Significant +</p> <p>Not Applicable</p> <p>Not Applicable</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Negligible</p> <p>Not Applicable</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - **Grassed Waterway (412)**

Soil	Resource Problem / Consideration	Effect
1. Erosion		
	(a) Sheet and Rill	Negligible
	(b) Wind	Negligible
	(c) Concentrated Flow: Ephemeral Gully	Significant +
	(d) Concentrated Flow: Classic Gully	Significant +
	(e) Streambank	Not Applicable
	(f) Irrigation Induced	Not Applicable
	(g) Soil Mass Movement	Not Applicable
	(h) Roadbank and Construction Sites	Significant +
	(i) Safety	Negligible
2. Condition		
	(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
	(b) Soil Compaction	Negligible
	<u>Soil Contaminants</u>	
	(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
	(d) Excess Animal Wastes & Other Organics	Negligible
	(e) Excess Fertilizer	Negligible
	(f) Excess Pesticides	Negligible
3. Deposition		
	(a) Damage: Onsite	Slight +
	(b) Damage: Offsite	Slight +
	(c) Safety: Onsite	Slight +
	(d) Safety: Offsite	Moderate +
Water	Resource Problem / Consideration	Effect
1. Quantity		
	(a) Excess Amounts: Seeps	Negligible
	(b) Excess Amounts: Runoff / Flooding	Significant +
	(c) Excess Amounts: Subsurface Water	Negligible
	(d) Inadequate Outlets	Moderate +
	(e) Water Management for Irrigated Land	Negligible
	(f) Water Management for Non- Irrigated Land	Not Applicable
	(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
	(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Significant +
	(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality		
	<u>Groundwater Contaminants</u>	
	(a) Pesticides	Negligible
	(b) Nutrients and Organics	Negligible
	(c) Salinity	Negligible
	(d) Heavy Metals	Negligible
	(e) Pathogens	Negligible
	<u>Surface Water Contaminants (Streams and Lakes)</u>	
	(g) Pesticides	Moderate +
	(h) Nutrients and Organics	Moderate +
	(i) Suspended Sediment and Turbidity	Moderate +
	(j) Low Dissolved Oxygen	Slight +
	(k) Salinity	Negligible
	(l) Heavy Metals	Negligible
	(m) Temperature	Negligible
	(n) Pathogens	Negligible
	(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Grassed Waterway (412)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Significant +</p> <p>Significant +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Slight -</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Grazing Land Mechanical Treatment (Contour Furrowing) (548)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Slight +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Slight +
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Moderate +

*Additional guidance for determining effects for a specific practice can be found
in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.*

Conservation Practice Physical Effects - Grazing Land Mechanical Treatment (Contour Furrowing) (548)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Significant +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Significant +</p> <p>Moderate +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Grazing Land Mechanical Treatment (Pitting) (548)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Slight +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Moderate +
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Slight +
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Grazing Land Mechanical Treatment (Pitting) (548)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Significant +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Significant +</p> <p>Moderate +</p> <p>Significant +</p> <p>Not Applicable</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Significant +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Hedgerow Planting (422)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Slight +
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Not Applicable
(f) Irrigation Induced	Not Applicable
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Not Applicable
(b) Soil Compaction	Not Applicable
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Not Applicable
(b) Damage: Offsite	Not Applicable
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Slight +
(b) Excess Amounts: Runoff / Flooding	Not Applicable
(c) Excess Amounts: Subsurface Water	Not Applicable
(d) Inadequate Outlets	Not Applicable
(e) Water Management for Irrigated Land	Not Applicable
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Not Applicable
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Not Applicable
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Not Applicable
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Not Applicable
(b) Nutrients and Organics	Not Applicable
(c) Salinity	Not Applicable
(d) Heavy Metals	Not Applicable
(e) Pathogens	Not Applicable
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Slight +
(m) Temperature	Slight +
(n) Pathogens	Slight +
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Hedgerow Planting (422)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Slight +</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Significant +</p> <p>Slight +</p> <p>Moderate +</p> <p>Significant +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Herbaceous Wind Barriers (422A)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Significant +
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Negligible
(f) Irrigation Induced	Moderate +
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Moderate +
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Slight +
(e) Excess Fertilizer	Slight +
(f) Excess Pesticides	Slight +
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Significant +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Negligible
(f) Water Management for Non- Irrigated Land	Moderate +
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Slight +
(i) Suspended Sediment and Turbidity	Slight +
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Herbaceous Wind Barriers (422A)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Significant +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Significant +</p> <p>Moderate +</p> <p>Negligible</p> <p>Slight -</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Canal or Lateral (320)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Not Applicable
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Slight -
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Not Applicable
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight -
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Negligible
(b) Damage: Offsite	Negligible
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate -
(b) Excess Amounts: Runoff / Flooding	Negligible
(c) Excess Amounts: Subsurface Water	Moderate -
(d) Inadequate Outlets	Not Applicable
(e) Water Management for Irrigated Land	Slight -
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate -
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight -
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight -
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight -
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Canal or Lateral (320)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Slight -</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Field Ditch (388)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Not Applicable
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Slight -
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Not Applicable
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight -
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Negligible
(b) Damage: Offsite	Negligible
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate -
(b) Excess Amounts: Runoff / Flooding	Negligible
(c) Excess Amounts: Subsurface Water	Moderate -
(d) Inadequate Outlets	Not Applicable
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate -
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight -
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight -
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Negligible
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight -
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

*Additional guidance for determining effects for a specific practice can be found
in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.*

Conservation Practice Physical Effects - Irrigation Field Ditch (388)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Slight -</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Land Leveling (464)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Slight +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Negligible
(f) Irrigation Induced	Moderate +
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Slight +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Slight +
3. Deposition	
(a) Damage: Onsite	Slight +
(b) Damage: Offsite	Slight +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Slight +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Slight +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Moderate +
(b) Nutrients and Organics	Moderate +
(c) Salinity	Moderate +
(d) Heavy Metals	Moderate +
(e) Pathogens	Moderate +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Slight +
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Land Leveling (464)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Pit (552A)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Not Applicable
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Not Applicable
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Not Applicable
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Negligible
(b) Damage: Offsite	Negligible
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Negligible
(c) Excess Amounts: Subsurface Water	Negligible
(d) Inadequate Outlets	Not Applicable
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Not Applicable
(b) Nutrients and Organics	Not Applicable
(c) Salinity	Not Applicable
(d) Heavy Metals	Not Applicable
(e) Pathogens	Not Applicable
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Not Applicable
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Pit (552A)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Regulating Reservoir (552B)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Not Applicable
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Not Applicable
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Not Applicable
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Negligible
(b) Damage: Offsite	Negligible
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Negligible
(c) Excess Amounts: Subsurface Water	Slight +
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Not Applicable
(b) Nutrients and Organics	Not Applicable
(c) Salinity	Not Applicable
(d) Heavy Metals	Not Applicable
(e) Pathogens	Not Applicable
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Not Applicable
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Not Applicable
(l) Heavy Metals	Not Applicable
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Regulating Reservoir (552B)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Moderate +</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Storage Reservoir (436)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Not Applicable
(c) Concentrated Flow: Ephemeral Gully	Negligible
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Slight +
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Not Applicable
(h) Roadbank and Construction Sites	Not Applicable
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Not Applicable
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Not Applicable
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Negligible
(b) Damage: Offsite	Negligible
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Slight +
(d) Inadequate Outlets	Slight +
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Negligible
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Negligible
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Negligible
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Not Applicable
(c) Salinity	Not Applicable
(d) Heavy Metals	Not Applicable
(e) Pathogens	Not Applicable
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Negligible
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Not Applicable
(l) Heavy Metals	Not Applicable
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Storage Reservoir (436)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation System (Sprinkler) (442)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Slight +
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Slight +
(f) Irrigation Induced	Significant +
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Slight +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Significant +
(b) Damage: Offsite	Significant +
(c) Safety: Onsite	Slight +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Significant +
(e) Water Management for Irrigated Land	Significant +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Significant +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight +
(b) Nutrients and Organics	Moderate +
(c) Salinity	Moderate +
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Significant +
(j) Low Dissolved Oxygen	Moderate +
(k) Salinity	Significant +
(l) Heavy Metals	Moderate +
(m) Temperature	Slight +
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation System (Surface & Subsurface) (443)

Soil Resource Problem / Consideration	Effect
<p>1. Erosion</p> <ul style="list-style-type: none"> (a) Sheet and Rill (b) Wind (c) Concentrated Flow: Ephemeral Gully (d) Concentrated Flow: Classic Gully (e) Streambank (f) Irrigation Induced (g) Soil Mass Movement (h) Roadbank and Construction Sites (i) Safety <p>2. Condition</p> <ul style="list-style-type: none"> (a) Soil Tilth, Crusting, Water Infiltration, Organic Material (b) Soil Compaction <p><u>Soil Contaminants</u></p> <ul style="list-style-type: none"> (c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals (d) Excess Animal Wastes & Other Organics (e) Excess Fertilizer (f) Excess Pesticides <p>3. Deposition</p> <ul style="list-style-type: none"> (a) Damage: Onsite (b) Damage: Offsite (c) Safety: Onsite (d) Safety: Offsite 	<p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Slight +</p> <p>Significant +</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p>
Water Resource Problem / Consideration	Effect
<p>1. Quantity</p> <ul style="list-style-type: none"> (a) Excess Amounts: Seeps (b) Excess Amounts: Runoff / Flooding (c) Excess Amounts: Subsurface Water (d) Inadequate Outlets (e) Water Management for Irrigated Land (f) Water Management for Non- Irrigated Land (g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u>: Onsite (h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u>: Offsite (i) <u>Restricted Capacity For Sediment Deposition</u>: Water Bodies, Streams, Lakes <p>2. Quality</p> <p><u>Groundwater Contaminants</u></p> <ul style="list-style-type: none"> (a) Pesticides (b) Nutrients and Organics (c) Salinity (d) Heavy Metals (e) Pathogens <p><u>Surface Water Contaminants (Streams and Lakes)</u></p> <ul style="list-style-type: none"> (g) Pesticides (h) Nutrients and Organics (i) Suspended Sediment and Turbidity (j) Low Dissolved Oxygen (k) Salinity (l) Heavy Metals (m) Temperature (n) Pathogens (o) Aquatic Habitat Suitability 	<p>Slight +</p> <p>Negligible</p> <p>Slight +</p> <p>Significant +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Slight +</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight +</p> <p>Negligible</p> <p>Negligible</p> <p>Slight -</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation System (Surface & Subsurface) (443)

Air Resource Problem / Consideration	Effect
1. Quality (a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite (b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite (c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite (d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite (e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite (f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite (g) Airborne Sediment Particulates Causing Conveyance Problems (h) <u>Airborne Chemical Drift</u> : Onsite (i) <u>Airborne Chemical Drift</u> : Offsite (j) Airborne Odors	Negligible Negligible Negligible Negligible Negligible Negligible Negligible Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
2. Condition (a) Air Temperature (b) Air Movement (c) Humidity	Not Applicable Not Applicable Negligible
Plant Resource Problem / Consideration	Effect
1. Suitability (a) Plants are not well adapted to site (b) Plants are unsuitable for intended use	Not Applicable Not Applicable
2. Condition <u>Productivity (Kinds, Amounts, & Distribution)</u> (a) Cropland (b) Hayland and Pastureland (c) Rangeland (d) Seeded Rangeland (e) Annual Rangeland (f) Forestland (g) Other Land (Wildlife, Recreation, etc.) (h) Health and Vigor (i) Plant Damage by Wind Erosion	Negligible Negligible Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Negligible Negligible
3. Management (a) Establishment, Growth, and Harvest (b) Nutrient Management (c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)	Moderate + Negligible Not Applicable
Animal Resource Problem / Consideration	Effect
1. Habitat <u>Domestic Animals</u> (a) Food (b) Cover or Shelter (c) Quantity and Quality of Drinking Water <u>Wildlife</u> (d) Food (e) Cover or Shelter (f) Quantity and Quality of Drinking Water	Slight + Slight - Slight - Slight + Slight - Slight -
2. Management (a) Population / Resource Balance (b) Animal Health	Negligible Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation System (Tailwater Recovery) (447)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Moderate +
(f) Irrigation Induced	Negligible
(g) Soil Mass Movement	Negligible
(h) Roadbank and Construction Sites	Slight +
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Negligible
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Negligible
(d) Excess Animal Wastes & Other Organics	Negligible
(e) Excess Fertilizer	Negligible
(f) Excess Pesticides	Negligible
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Negligible
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Slight +
(d) Inadequate Outlets	Moderate +
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Slight +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Slight +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Slight -
(b) Nutrients and Organics	Slight -
(c) Salinity	Slight -
(d) Heavy Metals	Slight -
(e) Pathogens	Slight -
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Moderate +
(k) Salinity	Moderate +
(l) Heavy Metals	Moderate +
(m) Temperature	Negligible
(n) Pathogens	Moderate +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation System (Tailwater Recovery) (447)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Negligible</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight -</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Moderate +</p> <p>Slight +</p> <p>Moderate +</p> <p>Slight +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation System (Trickle/Drip) (441)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Moderate +
(b) Wind	Negligible
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Slight +
(e) Streambank	Slight +
(f) Irrigation Induced	Moderate +
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Moderate +
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Moderate +
(b) Soil Compaction	Moderate +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight -
(d) Excess Animal Wastes & Other Organics	Slight -
(e) Excess Fertilizer	Slight -
(f) Excess Pesticides	Slight -
3. Deposition	
(a) Damage: Onsite	Moderate +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Moderate +
(d) Safety: Offsite	Moderate +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Moderate +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Moderate +
(e) Water Management for Irrigated Land	Significant +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Moderate +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Moderate +
(b) Nutrients and Organics	Moderate +
(c) Salinity	Moderate +
(d) Heavy Metals	Moderate +
(e) Pathogens	Moderate +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Moderate +
(k) Salinity	Moderate +
(l) Heavy Metals	Moderate +
(m) Temperature	Negligible
(n) Pathogens	Moderate +
(o) Aquatic Habitat Suitability	Moderate +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation System (Trickle/Drip) (441)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Not Applicable</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Slight +</p> <p>Significant +</p> <p>Significant +</p> <p>Negligible</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Slight -</p> <p>Slight -</p> <p>Slight -</p> <p>Slight -</p> <p>Slight -</p> <p>Slight -</p> <p>Negligible</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Water Conveyance (Ditch or Canal Lining) (428)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <ul style="list-style-type: none"> (a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite (b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite (c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite (d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite (e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite (f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite (g) Airborne Sediment Particulates Causing Conveyance Problems (h) <u>Airborne Chemical Drift</u>: Onsite (i) <u>Airborne Chemical Drift</u>: Offsite (j) Airborne Odors <p>2. Condition</p> <ul style="list-style-type: none"> (a) Air Temperature (b) Air Movement (c) Humidity 	<p>Negligible</p> <p>Slight +</p> <p>Negligible</p> <p>Not Applicable</p> <p>Negligible</p> <p>Slight +</p> <p>Not Applicable</p> <p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <ul style="list-style-type: none"> (a) Plants are not well adapted to site (b) Plants are unsuitable for intended use <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <ul style="list-style-type: none"> (a) Cropland (b) Hayland and Pastureland (c) Rangeland (d) Seeded Rangeland (e) Annual Rangeland (f) Forestland (g) Other Land (Wildlife, Recreation, etc.) (h) Health and Vigor (i) Plant Damage by Wind Erosion <p>3. Management</p> <ul style="list-style-type: none"> (a) Establishment, Growth, and Harvest (b) Nutrient Management (c) Pests (Brush, Weeds, Insects, Diseases, and Fungi) 	<p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight +</p> <p>Slight +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight -</p> <p>Slight +</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Slight -</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <ul style="list-style-type: none"> (a) Food (b) Cover or Shelter (c) Quantity and Quality of Drinking Water <p><u>Wildlife</u></p> <ul style="list-style-type: none"> (d) Food (e) Cover or Shelter (f) Quantity and Quality of Drinking Water <p>2. Management</p> <ul style="list-style-type: none"> (a) Population / Resource Balance (b) Animal Health 	<p>Slight -</p> <p>Moderate -</p> <p>Negligible</p> <p>Negligible</p> <p>Slight -</p> <p>Moderate -</p> <p>Negligible</p> <p>Slight -</p> <p>Negligible</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Water Conveyance (Pipeline) (430)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Not Applicable
(c) Concentrated Flow: Ephemeral Gully	Moderate +
(d) Concentrated Flow: Classic Gully	Negligible
(e) Streambank	Negligible
(f) Irrigation Induced	Slight +
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Negligible
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Negligible
(b) Soil Compaction	Not Applicable
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Slight +
(d) Excess Animal Wastes & Other Organics	Not Applicable
(e) Excess Fertilizer	Not Applicable
(f) Excess Pesticides	Not Applicable
3. Deposition	
(a) Damage: Onsite	Negligible
(b) Damage: Offsite	Negligible
(c) Safety: Onsite	Negligible
(d) Safety: Offsite	Negligible
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Significant +
(b) Excess Amounts: Runoff / Flooding	Negligible
(c) Excess Amounts: Subsurface Water	Significant +
(d) Inadequate Outlets	Not Applicable
(e) Water Management for Irrigated Land	Moderate +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Significant +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Slight +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Negligible
(b) Nutrients and Organics	Negligible
(c) Salinity	Moderate +
(d) Heavy Metals	Negligible
(e) Pathogens	Negligible
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Slight +
(h) Nutrients and Organics	Negligible
(i) Suspended Sediment and Turbidity	Negligible
(j) Low Dissolved Oxygen	Negligible
(k) Salinity	Negligible
(l) Heavy Metals	Negligible
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Moderate -

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Air Resource Problem / Consideration	Effect
1. Quality	
(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite	Negligible
(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite	Negligible
(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite	Negligible
(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite	Negligible
(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite	Not Applicable
(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite	Not Applicable
(g) Airborne Sediment Particulates Causing Conveyance Problems	Not Applicable
(h) <u>Airborne Chemical Drift</u> : Onsite	Not Applicable
(i) <u>Airborne Chemical Drift</u> : Offsite	Not Applicable
(j) Airborne Odors	Not Applicable
2. Condition	
(a) Air Temperature	Not Applicable
(b) Air Movement	Not Applicable
(c) Humidity	Negligible
Plant Resource Problem / Consideration	Effect
1. Suitability	
(a) Plants are not well adapted to site	Not Applicable
(b) Plants are unsuitable for intended use	Not Applicable
2. Condition	
<u>Productivity (Kinds, Amounts, & Distribution)</u>	
(a) Cropland	Slight +
(b) Hayland and Pastureland	Slight +
(c) Rangeland	Not Applicable
(d) Seeded Rangeland	Not Applicable
(e) Annual Rangeland	Not Applicable
(f) Forestland	Not Applicable
(g) Other Land (Wildlife, Recreation, etc.)	Slight +
(h) Health and Vigor	Slight +
(i) Plant Damage by Wind Erosion	Not Applicable
3. Management	
(a) Establishment, Growth, and Harvest	Negligible
(b) Nutrient Management	Negligible
(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)	Moderate +
Animal Resource Problem / Consideration	Effect
1. Habitat	
<u>Domestic Animals</u>	
(a) Food	Slight -
(b) Cover or Shelter	Moderate -
(c) Quantity and Quality of Drinking Water	Negligible
<u>Wildlife</u>	
(d) Food	Slight -
(e) Cover or Shelter	Moderate -
(f) Quantity and Quality of Drinking Water	Negligible
2. Management	
(a) Population / Resource Balance	Slight -
(b) Animal Health	Negligible

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Water Management (449)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Negligible
(b) Wind	Moderate +
(c) Concentrated Flow: Ephemeral Gully	Slight +
(d) Concentrated Flow: Classic Gully	Moderate +
(e) Streambank	Moderate +
(f) Irrigation Induced	Significant +
(g) Soil Mass Movement	Moderate +
(h) Roadbank and Construction Sites	Negligible
(i) Safety	Not Applicable
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Significant +
(b) Soil Compaction	Moderate +
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Significant +
(d) Excess Animal Wastes & Other Organics	Significant +
(e) Excess Fertilizer	Significant +
(f) Excess Pesticides	Significant +
3. Deposition	
(a) Damage: Onsite	Significant +
(b) Damage: Offsite	Moderate +
(c) Safety: Onsite	Significant +
(d) Safety: Offsite	Significant +
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Moderate +
(b) Excess Amounts: Runoff / Flooding	Slight +
(c) Excess Amounts: Subsurface Water	Moderate +
(d) Inadequate Outlets	Negligible
(e) Water Management for Irrigated Land	Significant +
(f) Water Management for Non- Irrigated Land	Not Applicable
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Significant +
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Moderate +
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Moderate +
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Moderate +
(b) Nutrients and Organics	Moderate +
(c) Salinity	Moderate +
(d) Heavy Metals	Negligible
(e) Pathogens	Slight +
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Moderate +
(h) Nutrients and Organics	Moderate +
(i) Suspended Sediment and Turbidity	Moderate +
(j) Low Dissolved Oxygen	Slight +
(k) Salinity	Slight +
(l) Heavy Metals	Moderate +
(m) Temperature	Negligible
(n) Pathogens	Negligible
(o) Aquatic Habitat Suitability	Slight +

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Irrigation Water Management (449)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Negligible</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Not Applicable</p> <p>Moderate +</p> <p>Significant +</p> <p>Slight +</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Moderate +</p> <p>Slight +</p> <p>Slight -</p> <p>Moderate +</p> <p>Slight +</p> <p>Slight -</p> <p>Moderate +</p> <p>Slight +</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Header Information (Line 1) (1)

Soil Resource Problem / Consideration	Effect
1. Erosion	
(a) Sheet and Rill	Soil Erosion
(b) Wind	Soil Erosion
(c) Concentrated Flow: Ephemeral Gully	Soil Erosion
(d) Concentrated Flow: Classic Gully	Soil Erosion
(e) Streambank	Soil Erosion
(f) Irrigation Induced	Soil Erosion
(g) Soil Mass Movement	Soil Erosion
(h) Roadbank and Construction Sites	Soil Erosion
(i) Safety	Soil Erosion
2. Condition	
(a) Soil Tilth, Crusting, Water Infiltration, Organic Material	Soil Cond.
(b) Soil Compaction	Soil Cond.
<u>Soil Contaminants</u>	
(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals	Soil Cond.
(d) Excess Animal Wastes & Other Organics	Soil Cond.
(e) Excess Fertilizer	Soil Cond.
(f) Excess Pesticides	Soil Cond.
3. Deposition	
(a) Damage: Onsite	Soil Depos.
(b) Damage: Offsite	Soil Depos.
(c) Safety: Onsite	Soil Depos.
(d) Safety: Offsite	Soil Depos.
Water Resource Problem / Consideration	Effect
1. Quantity	
(a) Excess Amounts: Seeps	Water Quant.
(b) Excess Amounts: Runoff / Flooding	Water Quant.
(c) Excess Amounts: Subsurface Water	Water Quant.
(d) Inadequate Outlets	Water Quant.
(e) Water Management for Irrigated Land	Water Quant.
(f) Water Management for Non- Irrigated Land	Water Quant.
(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite	Water Quant.
(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite	Water Quant.
(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes	Water Quant.
2. Quality	
<u>Groundwater Contaminants</u>	
(a) Pesticides	Water Qualt.
(b) Nutrients and Organics	Water Qualt.
(c) Salinity	Water Qualt.
(d) Heavy Metals	Water Qualt.
(e) Pathogens	Water Qualt.
<u>Surface Water Contaminants (Streams and Lakes)</u>	
(g) Pesticides	Water Qualt.
(h) Nutrients and Organics	Water Qualt.
(i) Suspended Sediment and Turbidity	Water Qualt.
(j) Low Dissolved Oxygen	Water Qualt.
(k) Salinity	Water Qualt.
(l) Heavy Metals	Water Qualt.
(m) Temperature	Water Qualt.
(n) Pathogens	Water Qualt.
(o) Aquatic Habitat Suitability	Water Qualt.

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Header Information (Line 1) (1)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Air Quality</p> <p>Air Cond.</p> <p>Air Cond.</p> <p>Air Cond.</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Plant Suitab</p> <p>Plant Suitab</p> <p>Plant Cond.</p> <p>Plant Mgmt.</p> <p>Plant Mgmt.</p> <p>Plant Mgmt.</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Anml Habit.</p> <p>Anml Habit.</p> <p>Anml Habit.</p> <p>Anml Habit.</p> <p>Anml Habit.</p> <p>Anml Habit.</p> <p>Anml. Mgmt.</p> <p>Anml. Mgmt.</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Header Information (Line 2) (2)

Soil Resource Problem / Consideration	Effect
1. Erosion (a) Sheet and Rill (b) Wind (c) Concentrated Flow: Ephemeral Gully (d) Concentrated Flow: Classic Gully (e) Streambank (f) Irrigation Induced (g) Soil Mass Movement (h) Roadbank and Construction Sites (i) Safety 2. Condition (a) Soil Tilth, Crusting, Water Infiltration, Organic Material (b) Soil Compaction <u>Soil Contaminants</u> (c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals (d) Excess Animal Wastes & Other Organics (e) Excess Fertilizer (f) Excess Pesticides 3. Deposition (a) Damage: Onsite (b) Damage: Offsite (c) Safety: Onsite (d) Safety: Offsite	Sheet & Rill Wind Eph. Gully Class. Gully Streambank Irr. Induced Mass Movement Roads & Const Safety Tilth, Crust. Compaction Ex. Chemical Ex. An. Wste Ex. Fert. Ex. Pest. Damage On. Damage Off. Safety On. Safety Off.
Water Resource Problem / Consideration	Effect
1. Quantity (a) Excess Amounts: Seeps (b) Excess Amounts: Runoff / Flooding (c) Excess Amounts: Subsurface Water (d) Inadequate Outlets (e) Water Management for Irrigated Land (f) Water Management for Non- Irrigated Land (g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite (h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite (i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes 2. Quality <u>Groundwater Contaminants</u> (a) Pesticides (b) Nutrients and Organics (c) Salinity (d) Heavy Metals (e) Pathogens <u>Surface Water Contaminants (Streams and Lakes)</u> (g) Pesticides (h) Nutrients and Organics (i) Suspended Sediment and Turbidity (j) Low Dissolved Oxygen (k) Salinity (l) Heavy Metals (m) Temperature (n) Pathogens (o) Aquatic Habitat Suitability	Seeps Runoff/Flood Ex. Subsurfc Inadq Outlet Mgmt. (Irr.) Mgmt(No-Irr) Cap. Onsite Cap. Offsite Cap. Lakes GW-Pest. GW-Nutr & Og. GW-Salinity GW-Hvy Metal GW-Pathogens SW-Pest SW-Nutr & Og SW-Sus Sed SW-Low D.O. SW-Salinity SW-Hvy Metal SW-Temp. SW-Pathogens SW-Aq Habit.

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.

Conservation Practice Physical Effects - Header Information (Line 2) (2)

Air Resource Problem / Consideration	Effect
<p>1. Quality</p> <p>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</p> <p>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</p> <p>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</p> <p>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</p> <p>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</p> <p>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</p> <p>(g) Airborne Sediment Particulates Causing Conveyance Problems</p> <p>(h) <u>Airborne Chemical Drift</u>: Onsite</p> <p>(i) <u>Airborne Chemical Drift</u>: Offsite</p> <p>(j) Airborne Odors</p> <p>2. Condition</p> <p>(a) Air Temperature</p> <p>(b) Air Movement</p> <p>(c) Humidity</p>	<p>Safety On.</p> <p>Safety Off.</p> <p>Struct. On.</p> <p>Struct. Off.</p> <p>Health On.</p> <p>Health Off.</p> <p>Conveyance</p> <p>Chem Dft On</p> <p>Chem Dft Off</p> <p>Odors</p> <p>Temp.</p> <p>Movement</p> <p>Humidity</p>
Plant Resource Problem / Consideration	Effect
<p>1. Suitability</p> <p>(a) Plants are not well adapted to site</p> <p>(b) Plants are unsuitable for intended use</p> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, & Distribution)</u></p> <p>(a) Cropland</p> <p>(b) Hayland and Pastureland</p> <p>(c) Rangeland</p> <p>(d) Seeded Rangeland</p> <p>(e) Annual Rangeland</p> <p>(f) Forestland</p> <p>(g) Other Land (Wildlife, Recreation, etc.)</p> <p>(h) Health and Vigor</p> <p>(i) Plant Damage by Wind Erosion</p> <p>3. Management</p> <p>(a) Establishment, Growth, and Harvest</p> <p>(b) Nutrient Management</p> <p>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</p>	<p>Not Adapted</p> <p>Unsuitable</p> <p>Cropland</p> <p>Hay & Pasture</p> <p>Rangeland</p> <p>Seed. Range</p> <p>Ann. Range</p> <p>Forestland</p> <p>Other Land</p> <p>Health & Vgr</p> <p>Dmge by Wind</p> <p>Est,Gwth,Harv</p> <p>Nutr. Mgmt.</p> <p>Pests</p>
Animal Resource Problem / Consideration	Effect
<p>1. Habitat</p> <p><u>Domestic Animals</u></p> <p>(a) Food</p> <p>(b) Cover or Shelter</p> <p>(c) Quantity and Quality of Drinking Water</p> <p><u>Wildlife</u></p> <p>(d) Food</p> <p>(e) Cover or Shelter</p> <p>(f) Quantity and Quality of Drinking Water</p> <p>2. Management</p> <p>(a) Population / Resource Balance</p> <p>(b) Animal Health</p>	<p>Dom.- Food</p> <p>Dom. - Cover</p> <p>Dom. - Water</p> <p>Wild - Food</p> <p>Wild - Cover</p> <p>Wild - Water</p> <p>Pop./Balance</p> <p>Health</p>

Additional guidance for determining effects for a specific practice can be found in the FOTG, Section V-A-1: Soil, Water, Air, Plants, and Animals.