

SECTION IV

PRACTICE STANDARDS AND SPECIFICATIONS

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Conservation Practice Standards and Specifications

This table of contents is a record of NRCS conservation practices applicable to all programs for which NRCS has technical responsibility. The standards and specifications maintained in this Technical Guide are the official copies for all conservation practices currently in effect in the field office. They will be used in all technical assistance provided by NRCS. Whenever unusual site conditions not covered by these standards and specifications occur, special designs and/or specifications will be developed.

Classification of Conservation Practices for Cultural Resources Review

A symbol indicates if application of the practice must be reviewed (+), generally is not reviewed (-), or if limited aspects of it are to be reviewed (✓) for purposes of complying with requirements of the National Historic Preservation Act, as amended. Practices are classified; specifications are not classified.

If a practice listed in the standards and specifications is not listed here, the Cultural Resources Specialist (CRS) should be contacted for guidance about whether or not installation of the practice should be reviewed regarding potential effects on cultural resources.

The CRS should be contacted during planning to assist in determining if a cultural resources review may be necessary for any listed practice whenever unusual site conditions not covered by standards and specifications occur, or special designs and (or) specifications are needed.

Practice Name and Unit	Code	Cultural Resources Review		Issue Date	Date of Last Review	Responsible Staff
		Status	Comments			
Access Road (Ft)	560	+		7/02	7/02	Engr
Anaerobic Digester - Ambient Temperature	365	+		12/03	12/03	Engr
Anaerobic Digester - Controlled Temperature	366	+		12/03	12/03	Engr
Anionic Polyacrylamide (PAM) Erosion Control (Ac)	450	-		10/01	10/01	Engr
Anionic Polyacrylamide (PAM) Erosion Control	S450			10/01	10/01	Engr
Brush Management (Ac)	314	+		12/00	12/00	Range
Channel Vegetation (Ac)	322	-		12/81	7/02	Agron
Clearing and Snagging (Ft)	326	✓	Review debris burial	2/01	2/01	Engr
Closure of Waste Impoundments (No)	360	✓	Review fill source if not previously disturbed	10/01	10/01	Engr
Conservation Crop Rotation (Ac)	328	-		7/02	7/02	Agron

Cultural Resources Review						
Practice Name and Unit	Code	Status	Comments	Issue Date	Date of Last Review	Responsible Staff
Contour Buffer Strips (Ac)	332	-		11/97	7/02	Agron
Contour Farming (Ac)	330	-		11/97	7/02	Agron
Contour Stripcropping (Ac)	585	-		11/97	7/02	Agron
Cover Crop (Ac)	340	-		7/02	7/02	Agron
Critical Area Planting (Ac)	342	✓	Review shaping	8/02	8/02	Agron
Critical Area Planting Design Procedures	342DP			8/02	8/02	Agron
Cross Wind Ridges (Ac)	589A	-		7/02	7/02	Agron
Cross Wind Stripcropping (Ac)	589B	-		7/02	7/02	Agron
Cross Wind Trap Strips (Ac)	589C	-		7/02	7/02	Agron
Dam, Diversion (Ft)	348	+		6/76	7/02	Engr
Dam, Floodwater Retarding (No. and Ac/Ft)	402	+		4/80	7/02	Engr
Dam, Multiple Purpose (No)	349	+		4/77	7/02	Engr
Deep Tillage (Ac)	324	+		5/02	5/02	Agron
Dike (Ft)	356	+		7/02	7/02	Engr
Diversion (Ft)	362	+		4/80	7/02	Engr
	S-362			3/94	7/02	Engr
Dry Hydrant (Each)	432	+		7/02	7/02	Engr
Early Successional Habitat Development/Management	647	-		7/03	7/03	Bio
Disking	S-647a			8/02	8/02	Bio
LoDensity Seeding	S-647b			8/02	8/02	Bio
Fencing (Ft)	382	✓	Review related ground disturbance beyond post	12/01	12/01	Range
	S-382			12/01	12/01	Range
Field Border (Ft)	386	✓	Review previously undisturbed area	12/00	12/00	Bio
Filter Strip (Ac)	393	✓	Review previously undisturbed area	4/98	4/98	Agron
	S-393			4/98	4/98	Agron
Firebreak (Ft)	394	+		12/00	12/00	Rng & For
Fish Passage (Ft)	396	+		5/02	5/02	Bio
Fishpond Management (No)	399	-		8/02	8/02	Bio
Flood Water Diversion (Ft)	400	+		4/80	7/02	Engr

		Cultural Resources Review					
Practice Name and Unit	Code	Status	Comments	Issue Date	Date of Last Review	Responsible Staff	
	S-400			4/80	7/02	Engr	
Floodway (Ft)	404	+		8/84	7/02	Engr	
Forage Harvest Management (Ac)	511	-		10/98	10/98	Range	
	S-511			10/98	10/98	Range	
Forest Stand Improvement	666	✓	Review soil disturbance in previously undisturbed areas	8/02	8/02	For	
Forest Stand Improvement Design Procedures	666DP			802	8/02	For	
Grade Stabilization Structure (No)	410	+		4/02	7/02	Engr	
	M-410			2/01	7/02	Engr	
Grassed Waterway (Ac)	412	+		8/02	8/02	Engr/Agron	
	S-412			8/02	8/02	Engr/Agron	
	M-412			8/02	8/02	Engr/Agron	
Herbaceous Wind Barriers (Ft)	422A	+		12/96	7/02	For	
Irrigation Canal or Lateral (Ft)	320	+		4/80	5/02	Engr	
	M-320			5/02	5/02	Engr	
Irrigation Field Ditch (Ft)	388	+		4/80	7/02	Engr	
	M388			7/02	7/02	Engr	
Irrigation Land Leveling (Ac)	464	+		4/02	4/02	Engr	
	S-464			5/02	5/02	Engr	
	M-464			5/02	5/02	Engr	
Irrigation Pit or Regulating Reservoir							
Irrigation Pit (No)	552-A	+		7/81	7/02	Engr	
Irrigation Pit or Regulating Reservoir							
Regulating Reservoir (No)	552-B	+		4/76	7/02	Engr	
	M552			7/02	7/02	Engr	
Irrigation Storage Reservoir (No. and Ac/Ft)	436	+		5/83	7/02	Engr	
	M436			7/02	7/02	Engr	
Irrigation System Micro Irrigation (No. and Ac)	441	-		7/02	7/02	Engr	
	S441			7/02	7/02	Engr	

Practice Name and Unit	Cultural Resources Review			Issue Date	Date of Last Review	Responsible Staff
	Code	Status	Comments			
	M441			7/02	7/02	Engr
Irrigation System (No & Ac) Sprinkler	442	✓	Review previously undisturbed area	3/95	7/02	Engr
	M-442			8/02	8/02	Engr
Irrigation System (No. and Ac) Surface and Subsurface	443	✓	Review previously undisturbed area	3/95	7/02	Engr
Irrigation System, Tailwater Recovery (No)	447	+		8/02	8/02	Engr
	M-447			8/02	8/02	Engr
Irrigation Water Conveyance (Ft) Nonreinforced Concrete Ditch and Canal Lining	428-A	-		4/87	7/02	Engr
	S-428-A			4/87	7/02	Engr
	M-428-A			7/02	7/02	Engr
Irrigation Water Conveyance Pipeline (Ft) Nonreinforced Concrete	430-CC	+		3/81	7/02	Engr
	S-430-CC			3/81	7/02	Engr
Irrigation Water Conveyance Pipeline (Ft) High-Pressure, Underground Plastic Pipeline	430-DD	+		8/02	8/02	Engr
	S-430-DD			4/87	7/02	Engr
Irrigation Water Conveyance Pipeline (Ft) Low-Pressure, Underground Plastic Pipeline	430-EE	+		7/02	7/02	Engr
	S-430-EE			4/87	7/02	Engr
Irrigation Water Conveyance Pipeline (Ft) Steel	430-FF	+		3/81	7/02	Engr
	S-430-FF			3/81	7/02	Engr

Irrigation Water Conveyance Pipeline (Ft) Rigid Gated Pipeline	430-HH	+		3/87	7/02	Engr
	S-430-HH			3/87	7/02	Engr
(applies to all types of pipeline)	M-430			7/02	7/02	Engr
Irrigation Water Management (Ac)	449	-		12/00	5/02	Engr
Lined Waterway or Outlet (Ft)	468	✓	Review related ground disturbance	4/80	7/02	Engr
	S-468			4/80	7/02	Engr
Manure Transfer	634	+		8/02	8/02	Engr
Mulching (Ac)	484	-		7/02	7/02	Agron
Nutrient Management (Ac)	590	-		12/00	12/00	Agron
Appendix A				1/03	1/03	Agron
Appendix B				12/00	12/00	Agron
Obstruction Removal (Ac)	500	+		7/02	7/02	Engr
Open Channel (Ft)	582	+		4/80	7/02	Engr
Pasture and Hay Planting (Ac)	512	-		4/98	4/98	Range
	S-512			11/99	11/99	Range
Pest Management (Ac)	595	-		10/95	7/02	Agron
	S-595			10/95	7/02	Agron
Pipeline (Ft)	516	+		7/03	7/03	Engr
	S-516			4/94	7/02	Engr
	M-516			7/02	7/02	Engr
Pond (No)	378	+		1/95	7/02	Engr
	M-378			1/95	7/02	Engr
Pond Sealing or Lining (No)						
Bentonite Sealant	521-C	-		4/80	7/02	Engr
	S-521-C			4/80	7/02	Engr
Pond Sealing or Lining (No)						
Flexible Membrane	521-A	-		8/00	8/00	Engr
Pond Sealing or Lining (No)						
Soil Dispersant	521-B	-		4/80	7/02	Engr
	S-521-B			4/80	7/02	Engr
Prescribed Burning (Ac)	338	✓	Review related ground disturbance	12/00	12/00	Range & For
Prescribed Grazing (Ac)	528A	-		1/99	1/99	Range

Pumping Plant for Water Control (No)	533	+		4/76	7/02	Engr
	S-533			8/02	8/02	Engr
	M-533			8/02	8/02	Engr
Range Planting (Ac)	550	-		4/98	4/98	Range
	S-550			10/98	10/98	Range
Residue Management, No-Till/Strip Till (Ac)	329A	-		7/02	7/02	Agron
Residue Management, Mulch Till (Ac)	329B	-		7/02	7/02	Agron
Residue Management, Ridge Till (Ac)	329C	-		7/02	7/02	Agron
Residue Management, Seasonal (Ac)	344	-		7/02	7/02	Agron
Restoration and Management of Declining Habitats (Ac)	643	✓	Review mechanical removal or burial of woody vegetation	10/98	10/98	Bio
	S-643			1/99	1/99	Bio
Riparian Forest Buffer (Ac)	391	✓	Review mechanical removal or burial of woody vegetation	2/03	2/03	For
	S-391			10/98	7/02	For
Row Arrangement (Ac)	557	-		3/92	7/02	Engr
Sediment Basin (No)	350	+		8/02	8/02	Engr
Spring Development (No)	574	+		10/02	10/02	Engr
	S-574			4/80	7/02	Engr
Streambank and Shoreline Protection (Ft)	580	+		8/00	8/00	Engr
Stream Channel Stabilization (Ft)	584	+		4/76	7/02	Engr
	S-584			4/76	7/02	Engr
Stripcropping Field (Ac)	586	-		7/02	7/02	Agron
Structure for Water Control (No)	587	+		4/83	7/02	Engr
Subsurface Drain (Ft)	606	+		4/80	7/02	Engr
	S-606			4/80	7/02	Engr
Surface Drainage Field Ditch (Ft)	607	+		4/80	7/02	Engr
	S-607			4/80	7/02	Engr
Surface Drainage Main or Lateral (Ft)	608	+		4/80	7/02	Engr
	S-608			4/80	7/02	Engr

Surface Roughening (Ac)	609	-		7/02	7/02	Agron
Terrace (Ft)	600	+		4/88	7/02	Engr
				5/88	7/02	Engr
	S-600			7/91	7/02	Engr
	M-600			7/02	7/02	Engr
Toxic Salt Reduction (Ac)	610	-		7/86	7/02	Agron
Tree/Shrub Establishment (Ac)	612	✓	Review previously treeless areas	2/03	2/03	For
Tree/Shrub Planting Design Procedures	612DP			8/02	8/02	For
Tree/Shrub Planting Procedures	380TPP			2/03	2/03	For
Tree/Shrub Pruning	660	-		8/02	8/02	For
Tree/Shrub Pruning Design Procedures	660DP	-		8/02	8/02	For
Underground Outlet (Ft)	620	+		10/91	7/02	Engr
Materials	S-620			4/86	7/02	Engr
Underground Outlet (Ft)						
Operation and Maintenance Plan	M-620			6/93	7/02	Engr
Upland Wildlife Habitat Mgt. (Ac)	645	✓	Review associated ground disturbance	7/02	7/02	Bio
Wildlife Food Plot	S-645a			7/03	7/03	Bio
Use Exclusion (Ac)	472	✓	Review associated ground disturbance	12/00	12/00	For
Waste Facility Cover	367	-		12/03	12/03	Engr
Waste Storage Facility (No)	313	+		7/02	7/02	Engr
Waste Treatment Lagoon (No)	359	+		7/02	7/02	Engr
Waste Utilization (Ac)	633	-		7/02	7/02	Agron
Watering Facility	614	+		8/02	8/02	Engr
Watering Facility	S-614			8/02	8/2	Engr
Water and Sediment Control Basin (No)	638	+		4/87	5/02	Engr
Water-Harvesting Catchment (No)	636	+		7/02	7/02	Engr
Waterspreading (Ac)	640	✓	Review associated ground disturbance	4/87	7/02	Engr
	M-640			7/02	7/02	Engr
Water Well (No)	642	+		7/02	7/02	Engr
Well Decommissioning (No)	351	-		7/02	7/02	Engr

Wetland Restoration (Ac)	657	✓	Review pre-Modern sediment to be disturbed	2/01	2/01	Bio/Engr
Wetland Creation (Ac)	658	✓	Review pre-Modern sediment to be disturbed	2/01	2/01	Bio/Engr
Wetland Enhancement	659	✓	Review pre-Modern sediment to be disturbed	7/00	7/00	Bio/Engr
Wildlife Watering Facility	648	+		4/98	4/98	Bio
	S-648			4/98	4/98	Bio
Wetland Wildlife Habitat Mgt. (Ac)	644	-		5/02	5/02	Bio
Windbreak Renovation (Ac)	650	✓	Review removal and planting in previously treeless areas	7/94	7/02	For
Windbreak/Shelterbelt Establishment (Ft)	380	✓	Review removal and planting in previously treeless areas	10/01	10/01	For
Windbreak/Shelterbelt Establishment Design Procedures	380 DP			8/02	8/02	For

- Agron - State Conservation Agronomist
- Bio - State Wildlife Biologist
- Engr - State Conservation Engineer
- For - State Forester
- Range - State Range Management Specialist

SECTION IV

NUMERICAL CROSS REFERENCE FOR

PRACTICE STANDARDS AND SPECIFICATIONS

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Code	Practice Name and Unit
313	Waste Storage Facility (No)
314	Brush Management (Ac)
320	Irrigation Canal or Lateral (Ft)
322	Channel Vegetation (Ac)
324	Deep Tillage (Ac)
326	Clearing and Snagging (Ft)
328	Conservation Crop Rotation (Ac)
329A	Residue Management, No-Till/Strip Till (Ac)
329B	Residue Management, Mulch Till (Ac)
329C	Residue Management, Ridge Till (Ac)
330	Contour Farming (Ac)
332	Contour Buffer Strips (Ac)
338	Prescribed Burning (Ac)
340	Cover Crop (Ac)
342	Critical Area Planting (Ac)
344	Residue Management, Seasonal (Ac)
348	Dam, Diversion (No)
349	Dam, Multiple Purpose (No)
350	Sediment Basin (No)
351	Well Decommissioning (No)
356	Dike (Ft)
359	Waste Treatment Lagoon (No)
360	Closure of Waste Impoundments No)
362	Diversion (Ft)

Code	Practice Name and Unit
365	Anaerobic Digester - Ambient Temperature
366	Anaerobic Digester - Controlled Temperature
367	Waste Facility Cover
378	Pond (No)
380	Windbreak/Shelterbelt Establishment (Ft)
382	Fencing (Ft)
386	Field Border (Ft)
388	Irrigation Field Ditch (Ft)
391	Riparian Forest Buffer (Ac)
393	Filter Strip (Ac)
394	Firebreak (Ft)
396	Fish Passage (No)
399	Fishpond Management (Ac)
400	Flood Water Diversion (Ft)
402	Dam, Floodwater Retarding (No. and Ac/Ft)
404	Floodway (Ft)
410	Grade Stabilization Structure (No)
412	Grassed Waterway (Ac)
422A	Herbaceous Wind Barriers (Ft)
428-A	Irrigation Water Conveyance (Ft) Nonreinforced Concrete Ditch and Canal Lining
430-CC	Irrigation Water Conveyance Pipeline Nonreinforced Concrete (Ft)
430-DD	Irrigation Water Conveyance Pipeline High-Pressure, Underground Plastic Pipeline (Ft)
430-EE	Irrigation Water Conveyance Pipeline Low-Pressure, Underground Plastic Pipeline (Ft)
430-FF	Irrigation Water Conveyance Pipeline Steel (Ft)
430-HH	Irrigation Water Conveyance Pipeline Rigid Gated Pipeline (Ft)
432	Dry Hydrant (Each)
436	Irrigation Storage Reservoir (No. and Ac/Ft)
441	Irrigation System Micro Irrigation (No. and Ac)
442	Irrigation System Sprinkler (No. and Ac)
443	Irrigation System Surface and Subsurface (No. and Ac)
447	Irr. System, Tailwater recovery (No)
449	Irrigation Water Management (Ac)
450	Anionic Polyacrylamide (PAM) Erosion Control (Ac)
464	Irrigation Land Leveling (Ac)
468	Lined Waterway or Outlet (Ft)
472	Use Exclusion (Ac)
484	Mulching (Ac)
500	Obstruction Removal (Ac)

Code	Practice Name and Unit
511	Forage Harvest Management (Ac)
512	Pasture and Hay Planting (Ac)
516	Pipeline (Ft)
521-A	Pond Sealing or Lining (No) Flexible Membrane
521-B	Pond Sealing or Lining (No) Soil Dispersant
521-C	Pond Sealing or Lining (No) Bentonite
528A	Prescribed Grazing (Ac)
533	Pumping Plant for Water Control (No)
550	Range Planting (Ac)
552-A	Irrigation Pit or Regulating Reservoir Irrigation Pit (No)
557	Row Arrangement (Ac)
560	Access Road (Ft)
574	Spring Development (No)
580	Streambank and Shoreline Protection (Ft)
582	Open Channel (Ft)
584	Stream Channel Stabilization (Ft)
585	Contour Stripcropping (Ac)
586	Stripcropping Field (Ac)
587	Structure for Water Control (No)
589A	Cross Wind Ridges (Ac)
589B	Cross Wind Stripcropping (Ac)
589C	Cross Wind Trap Strips (Ac)
590	Nutrient Management (Ac)
595	Pest Management (Ac)
600	Terrace (Ft)
609	Surface Roughening (Ac)
610	Toxic Salt Reduction (Ac)
612	Tree/Shrub Establishment (Ac)
614	Watering Facility (No)
620	Underground Outlet (Ft)
633	Waste Utilization (Ac)
634	Manure Transfer
636	Water-Harvesting Catchment (No)
638	Water and Sediment Control Basin (No)
640	Waterspreading (Ac)
642	Water Well (No)
643	Restoration and Management of Declining Habitats (Ac)
644	Wetland Wildlife Habitat Mgt. (Ac)
645	Upland Wildlife Habitat Mgt. (Ac)
647	Early Successional Habitat Development/Management
648	Wildlife Watering Facility (No)
650	Windbreak Renovation (Ac)
657	Wetland Restoration (Ac)
658	Wetland Creation (Ac)

Code	Practice Name and Unit
659	Wetland Enhancement (Ac)
660	Tree/Shrub Pruning (Ac)
666	Forest Stand Improvement (Ac)