

CONSERVATION ENHANCEMENT ACTIVITY

E328D



Leave standing grain crops unharvested to benefit wildlife

Conservation Practice 328: Conservation Crop Rotation

APPLICABLE LAND USE: Crop (Annual & Mixed)

RESOURCE CONCERN: ANIMALS

ENHANCEMENT LIFE SPAN: 1 Year

Enhancement Description

Implement a crop rotation which allows a portion of grain crops to be left in fields unharvested to provide food and cover for wildlife during winter months.

Criteria

- Crops must be grown in a planned sequence as outlined in the plan. The crop rotation shall include a minimum of three different crops. For this purpose, a cover crop is considered a different crop.
- Where applicable, plan suitable crop substitutions when the planned crop cannot be planted due to weather, soil conditions, or other local situations.
- Select the crops and crop management activities that provide food, cover, and shelter for the targeted wildlife species using an approved habitat evaluation procedure.
- Leave a minimum ½ acre of unharvested, standing grain crops for each 40 acres of cropland. Unharvested plots shall be located in a single location on the 40 acre unit and additional plots shall be located on different 40 acres. This enhancement is to be planned, contracted, and implemented on an entire field, not just the unharvested acres.

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unharvested to benefit wildlife		



 Locate the unharvested plots adjacent to permanent cover such as brushy fence rows, field borders, forest land, or wetlands (this does not include newly established vegetation).

CONSERVATION STEWARDSHIP PROGRAM

• Leave unharvested crops standing over winter until it is time to prepare the soil for planting the next crop.





Participant will:

United States Department of Agriculture

Documentation and Implementation Requirements

CONSERVATION STEWARDSHIP PROGRAM

•
Prior to implementation, provide NRCS with the
planned crop rotation.

	pla	nned cr	op rotation.							
Fi	eld	Acres	Length of Crop Rotation (years)							
			(,11							
	acr	eage of	plementation, develop a map showing planned location(s), cro crops to be left unharvested. lementation, notify NRCS of any planned changes in crops, cro							
	unh	narveste	ed areas to verify the planned system meets the enhancement	criteria.						
	During implementation, take photos of all unharvested plots. Photos must indicate field location and date.									
	After implementation, if changes to the rotation were made, complete the tables above to document the applied Conservation Crop Rotation for the contract period and provide to NRCS.									
	After implementation, make a map showing implemented location(s), crop type(s), and acreage of crops that were left unharvested each year available for review by NRCS to verify implementation of the enhancement.									
	After implementation, make photos of the unharvested plots available for review by NRCS to verify implementation of the enhancement.									
NR	CS w	vill:								
	As needed, provide technical assistance in selecting crop rotations or substitute crops that would meet the criteria of the enhancement.									
			provide technical assistance in selecting crops for food, cover to the approved habitat evaluation procedure.	, and shelter						
	As ı	needed,	provide additional assistance to the participant as requested.							

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During implementation, evaluate planned crop changes, crop rotation, or unharvested areas to verify the planned system meets the enhancement criteria.
After implementation, review the map(s) showing



- ☐ After implementation, review the map(s) showing implemented location(s), crop type(s), and acreage of crops that were left unharvested each year, to verify implementation of the enhancement.
- ☐ After implementation, review photos of unharvested plots to verify implementation of the enhancement.

NRCS Documentation Review:

I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements.

Participant Name	Contract Number
Total Amount Applied	Fiscal Year Completed
NRCS Technical Adequacy Signature	Date

SOUTH DAKOTA (SD) SUPPLEMENT TO CONSERVATION ENHANCEMENT ACTIVITY



E328D

Additional Criteria for SD:

In addition to the criteria specified in the national job sheet E328D, the following additional criteria apply in SD:

- Any annually planted commodity crop left standing over winter, is adequate for wildlife.
- In SD the approved habitat evaluation guide is the SD-CPA-19 (WHEG).
- If using a cover crop, see table 1 below for acceptable species:



	Table 1: Cover Crop - Common Species and Properties																			
6	Full seeding rate Ibs/acre/4	Seeding depth, inches	Reduce erosion	Increase soil organic matter	S cavenge nutrients	Biological N fixation	Suppress weeds	Provide supplemental hay	Provide supplemental grazing	Rooting depth / Plant water use A	Minimize / Reduce surface soil compaction	Minimize/ Reduce subsoil compaction	S eed size (Large or Fine)	Grop type and seeding dates/2	WinterSurvival	Salinity Tolerance	CN Ratio	Mycorrhizal fungi association	Seeds/Ib	Shade Toler-ance
Cover Crop Alfalfa	6.5	.2575	G	G	G	Υ	G	G	F	DH	G G	G	رم F	СВ	Υ	P	L	<u>-</u>	210,000	F
Barley	50	.75 - 2.0	G	G	G	N	G	G	G	MM	G	F	L	CG	N	G	M	M	14,000	F
-	7	.255	F	F	G	N	G	F	G	MM	G	G	F	СВ	N	G	L	N	180,000	P
Brassica hybrids Buckwheat / 5	50	.5 - 1.5	P P	Р	F	N	F	P	P	SL	F	P	L	WB	N	P	L	N	19,000	G
	5		F	F				F				G	F							F
Cabbage, African	3	.2575	F	F	G F	N	F P	P	F P	MM	G P	F	F	CB	N S	G P	L	N	180,000	Р
Camelina, Winter Canola	5	.2575	F	F	G	N N	G	F	F	ML	G	G	F	CB CB	S	G	L	N N	400,000 140,000	F
	5		F	P	F	Y	P	P	F	SL	Р	P	F	СВ	N	P	L			F
Clover, Balansa		.2575	F	F	F	Y	Р	F	F		Р	Р	F	СВ	S	P	L	M	500,000	F
Clover, Crimson Clover, Red	15 5	.2575	G	F	F	Y	F	F	F	SM SL	F	F	F	CB	γ	Р	L	M	275,000	G
	4	.25 - 1.0	G	G	F	Y	G	F	F	MM	G	G	F	СВ	Y	F	L	M		G
Clover, Sweet Collards or Kale	5	.255	F	F	G	N	G	F	G	MM	G	G	F	СВ	N	G	L	N	260,000 175,000	F
Corn	12	1 - 1.5	G	G	G	N	G	F	G	DH	G	G	L	WG	N	Р	Н	Н	2,500	F
Cowpeas or Dry	12	1-1.5	0	U	0	IN.	0	-	0	DII	-	0	L	WG	IN .	F	"		2,300	•
Beans	30	1 - 1.5	Р	F	F	Υ	Р	Р	F	SL	F	F	L	WB	N	Р	L	М	4,000	F
Fava beans	75	1 - 1.5	F	F	F	Υ	F	G	G	DM	F	F	L	СВ	N	F	L	Р	2,500	Р
Flax	30	.2575	F	F	F	Ν	Р	Р	Р	SM	F	Р	F	СВ	N	Р	Н	Н	80,000	Р
Lentils	30	1 - 1.5	Р	Р	Р	Υ	Р	Р	Р	SL	Р	Р	F	СВ	N	Р	L	М	20,000	Р
Millet, hay	15	.5 - 1.0	G	G	G	N	G	G	G	SL	G	F	F	WG	N	Р	М	Н	180,000	Р
Millet, proso	25	.5 - 1.0	G	G	G	N	G	G	G	SL	G	F	F	WG	N	Р	М	Н	80,000	Р
Mustard	6	.2575	F	F	F	N	G	F	Р	МН	G	F	F	СВ	N	Р	L	N	140,000	Р
Oats	70	.5 - 1.5	G	G	G	N	G	G	G	MM	G	F	L	CG	N	F	М	Н	16,000	F
Peas	70	1.5 - 3.0	F	Р	Р	Υ	F	G	G	SL	F	F	L	СВ	N	Р	L	М	3,500	F
Phacelia	4	.255	F	F	F	N	Р	Р	Р	DH	F	Р	F	СВ	N	Р	L	М	225,000	F
Radishes	8	.2575	F	F	G	N	G	Р	G	DH	G	G	F	СВ	N	P	L	N	25,000	Р
Rapeseed	5	.2575	F	F	G	N	G	F	G	ММ	G	G	F	СВ	Υ	G	L	N	140,000	F
Rye, Cereal	60	.75 - 2.0	G	G	G	N	G	G	G	МН	G	G	L	CG	Υ	G	Н	М	18,000	G
Ryegrass, Annual	15	.5 - 1.5	G	G	G	N	F	G	G	MM	G	F	F	CG	S	F	М	М	190,000	G
Safflowers	30	.5 - 1.0	F	F	G	N	F	Р	Р	DM	F	G	L	WB	N	F	М	М	15,000	Р
Sorghum, Forage and Sudan Hybrids	15	.5 - 1.5	G	G	G	N	G	G	G	ММ	G	G	L	WG	N	F	М	Н	17,000	Р
Sorghum, Grain	5	.5 - 1.5	G	G	G	N	G	G	G	MM	G	G	L	WG	N	F	М	Н	17,000	Р
Soybeans	35	1 - 1.5	F	Р	F	Υ	F	F	F	SM	F	F	L	WB	N	Р	L	М	3,000	F
Sudangrass	20	.5 - 1.5	G	G	G	N	G	G	G	MM	G	G	L	WG	N	F	М	H	25,000	Р
Sugar beets	4	.255	F	Р	G	N	F	Р	G	DH	G	G	F	СВ	N	G	L	N	22,000	Р
Sunflowers	7	.5 - 1.0	F	F	G	N	F	Р	G	DM	F	G	L	WB	N	F	М	М	8,000	Р
Sunn hemp	15	1.5 - 2.0	F	F	F	Υ	F	Р	F	DM	F	F	L	WB	N	Р	L	М	15,000	Р
Teff grass	5	.1325	G	G	F	N	F	G	G	SM	G	F	F	WG	N	Р	М	Н	1M	N
Triticale	60	.5 - 1.5	G	G	G	N	G	G	G	МН	G	F	L	CG	Υ	G	М	М	15,000	F
Turnips	4	.255	F	Р	G	N	G	Р	G	DH	G	G	F	СВ	S	Р	L	N	175,000	Р
Vetch, Chickling	50	.5 - 1.5	F	F	F	Υ	F	F	Р	SL	F	F	L	СВ	N	Р	L	М	2,500	F
Vetch, Common	25	.5 - 1.5	F	F	F	Υ	F	F	G	SM	F	F	L	СВ	N	Р	L	М	8,000	F
Vetch, Hairy	15	.5 - 1.5	G	F	F	Υ	F	F	F	SM	G	F	L	СВ	Υ	Р	L	М	14,000	G
Wheat, Spring	60	.5 - 1.5	G	G	G	N	G	G	G	МН	G	F	L	CG	N	G	М	М	15,000	F
Wheat, Winter	60	.75 - 2.0	G	G	G	N	G	G	G	МН	G	F	L	CG	Υ	G	М	М	15,000	F

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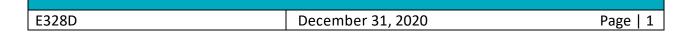




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Cover Crop																				
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Clover, Balansa	5	.2575	F	P	F	Y	P	P	F	SL	P	P	F	CB	N	Р	L	M	500,000	F
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Vetch, Common	25	.5 - 1.5	F	F	F	Υ	F	F	G	SM	F	F	L	CB	N	Р	L	M	8,000	
Vetch, Hairy	15	.5 - 1.5	G	F	F	Υ	F	F	F	SM	G	F	L	СВ	Υ	Р	L	M	14,000	
Wheat, Spring	60	.5 - 1.5	G	G	G	N	G	G	G	MH	G	F	L	CG	N	G	M	M	15,000	
Wheat, Winter	60	.75 - 2.0	G	G	G	N	G	G	G	MH	G	F	L	CG	Υ	G	M	M	15,000	F

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