



NFSAM REQUIREMENTS

Sec. 512.01 B - Standards for a Conservation System

A conservation system that is being used when planting agricultural commodities on HEL cropland must meet one of the following definitions:

- Provide for a substantial reduction in soil erosion where a prior cropping history has been established.
- Permit no substantial increase in erosion on HEL cropland converted from native vegetation after December 23, 1985.



WHAT IS EPHEMERAL EROSION?

- × Ephemeral means seasonal or temporary.
- Ephemeral gullies occur at the same place on the landscape year after year.
- Ephemeral gullies usually occur in areas of the field where runoff water concentrates.
- By definition an ephemeral gully can be crossed or filled with normal tillage equipment but cannot be totally "erased".













EPHEMERAL EROSION: TREATMENT

- In general, Residue Management (no-till) is an acceptable treatment method for ephemeral erosion only for concentrated flow areas with very small contributing drainage areas (less than 7 acres)
- Shaping ephemerals after harvest, preferably using a blade to minimize soil disturbance, and seeding them with an annual cover crop is also effective for small drainage areas.











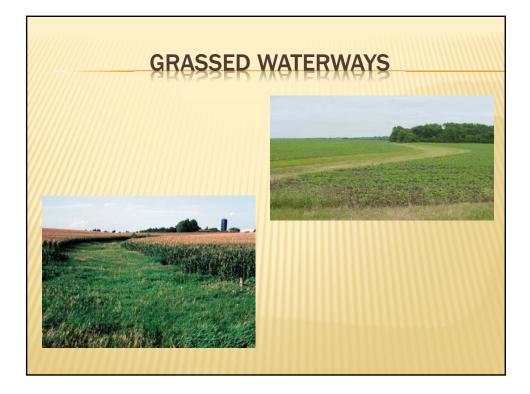




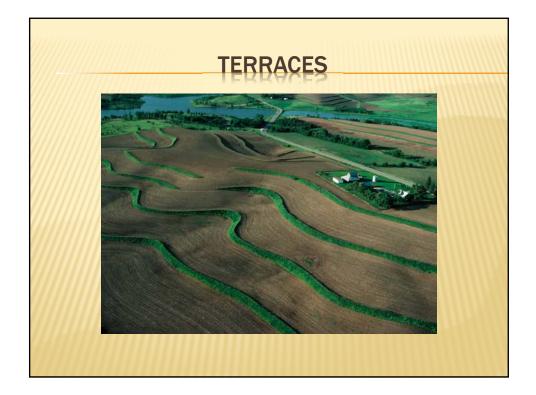
EPHEMERAL EROSION: TREATMENT

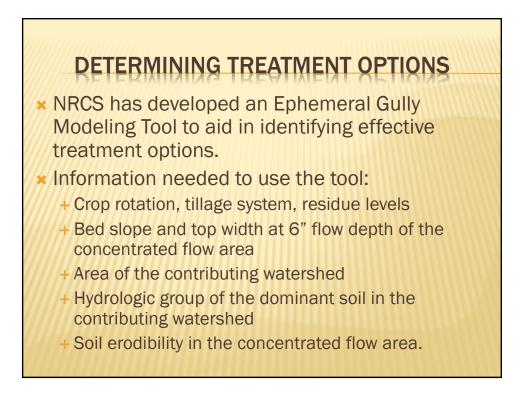
Other treatment options include:

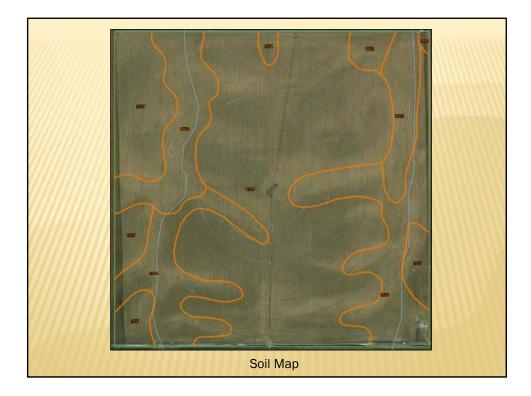
- × Critical Area Seeding
- × Grassed Waterways
- × Water and Sediment Control Basins
- × Terraces







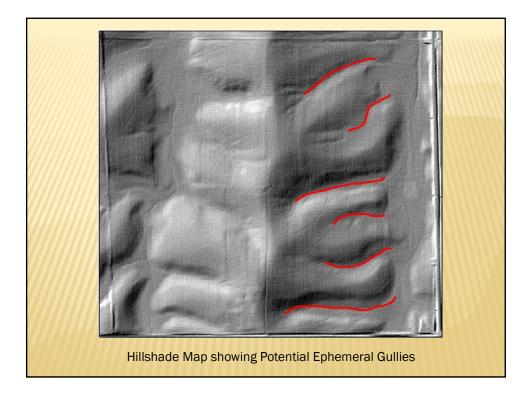


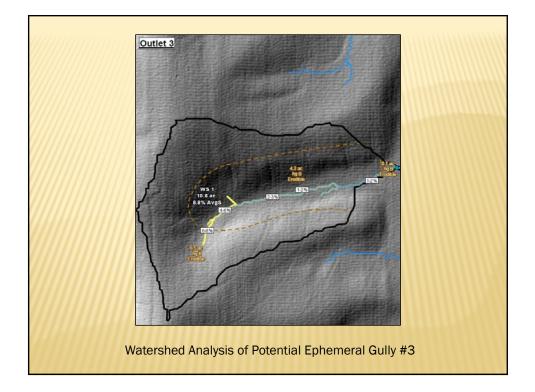


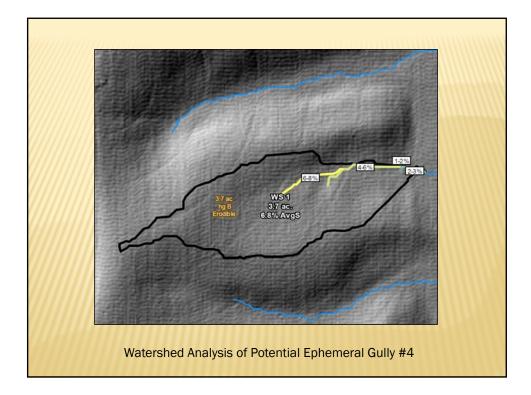
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2533	Coly silt loam, 11 to 30 percent slopes	18.8	12.19
2537	Coly silt loam, 6 to 11 percent slopes	98.3	63.59
2544	Coly, Uly and Hobbs soils, 3 to 30 percent slopes	14.0	9.1%
2671	Holdrege silt loam, 3 to 7 percent slopes, eroded	0.9	0.5%
2843	Uly, Holdrege and Coly soils, 6 to 11 percent slopes, eroded	0.3	0.2%
3562	Hobbs silt loam, occasionally flooded, cool	20.3	13.1%
8872	Hord silt loam, 3 to 6 percent slopes	2.2	1.4%
Totals for Area of Interest	-	154.9	100.09

	cie soi	L GRO	IPS	
RAFA		FARA	113	
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
2533	Coly silt loam, 11 to 30 percent slopes	В	18.8	12.1%
2537	Coly silt loam, 6 to 11 percent slopes	В	98.3	63.5%
2544	Coly, Uly and Hobbs soils, 3 to 30 percent slopes	В	14.0	9.1%
2671	Holdrege silt loam, 3 to 7 percent slopes, eroded	с	0.9	0.5%
2843	Uly, Holdrege and Coly soils, 6 to 11 percent slopes, eroded	В	0.3	0.2%
3562	Hobbs silt loam, occasionally flooded, cool	В	20.3	13.1%
8872	Hord silt loam, 3 to 6 percent slopes	В	2.2	1.4%
Totals for Area of Inte	rest		154.9	100.0%

ERODIBILITY		
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Erosion Categories for Grassed Wate	rways (NE)-Buffalo County, Ne	braska
Map unit symbol and soil name	Pct. of map unit	Erosion Category
2533-Coly silt loam, 11 to 30 percent slopes		
Coly	85	Erodible
2537—Coly slit loam, 6 to 11 percent slopes		
Coly	85	Erodible
2544-Coly, Uly and Hobbs soils, 3 to 30 percent slopes		
Coly	55	Erodible
Hobbs	20	Erodible
Uly	20	Erodible
2671-Holdrege silt loam, 3 to 7 percent slopes, eroded		
Holdrege	93	Erodible
2843—Uly, Holdrege and Coly soils, 6 to 11 percent slopes, eroded		
Uly	45	Erodible
Holdrege	30	Erodible
Coly	20	Erodible
3562-Hobbs silt loam, occasionally flooded, cool		
Hobbs	85	Erodible
8872-Hord silt loam, 3 to 6 percent slopes		
Hord	100	Erodible







Watershed	Area	Watershed Average Slope	Max Channel Grade	Dominant Soil	Hydrologic Group
1	8.3	7.4%	6%	2537	В
2	7.3	6.6%	6%	2537	В
3	10.8	8.8%	6%	2533	В
4	3.7	6.8%	7%	2537	B
5	6.7	7.8%	6%	2533	В
6	8.4	9.2%	6%	2533	B

		proentera	Guny Mode	ling Tool v. 2	2017-8-21			
Completed By:	Buffalo County Exa	mple		Date		office:		
Cooperator:				Tract	ž. U	Field Out	e #3	
Frequency	2 NUFFALD		our Rain Foll Amou		A seal fragments and the	and the set of the set of the	0. Engineering Field	
County Soil Map Unit	2537	2.74					ns, descriptions of t	
Hydrologic Group	0	-	in cal	culations:				
Drainage Area	10.8	10.00		pter 2, Estimating 8 pter 7, Grassed Wat				
Ave Watershed Slope	8.8					Evaluation Callege	ries for Nebraska Sc	11
Watershed Length	3230	first						
Actual Bed Slope at Gully	6							
Location Soil Enablity at Guly Location	6	-*						
(Select)	Erodible							
Gully Section Top Width @ 0.5" Depth (Select)	15' TW	feet						
	(Assumed to be parabolic) Measure flow depth and tog concentrated flow area as to were NOT present.					TW 10 00		
Watershed Cropping System (Select)	High Res. No-Till	1						
Maximum Allowable Bed Slope		3.11	Cropping Syst	em selected is	oot adequate t	o control ephe	meral gully ero	sion.
Sube		-		Max	imum Allowable G	ully Bed Slope, (p	eriert)	
000000000000000000000000000000000000000		0.232	AMUST SHOT	and by warry Deplets	Autologica (Lin)	1	odble Soil in Flow	Area
Cropping System	Runoff Curve Number	Pash Discharge		. It from Acea. or. and proge - dut			los. Soli Stress = 0.0	
LICENSES DECEMBER 1		10	with the	21.78	107.744	107 TW	25'TW	317 TW
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Spart TIM		- 713		- C - T				
Dear TH Committee of TH		12.2		63 6	42 %	· · · · · · ·		1.2. 8
	- 11	12.9	54 5	00 % 64 %	42.5	6.2 🙀	0.3 %	0.8 5
Somensbergi IV Nobel: THE 2 Loss Bars, New THE Nigh Res. No. THE	11 11 11	1155				0.9	0.3 N	0.3
Commission of TW Mylein TW / Lose Rev. No. 110	- 11	12.9				6.2 🙀	0.3 %	0.8 5
Somensbergi IV Nobel: THE 2 Loss Bars, New THE Nigh Res. No. THE	11 11 11	12.5 12.4 8.7 7.2 Cover cross	stem height = 6	84 <u>9</u> 87 % 70 %	0.8 %	0.5 % 0.9 % 1.8 %	0.3 N	0.3 % 1.4 %
Generalized TV Nath TE / Lee bes. No TV Ngh Res. No TV Control of the Guily Treatment Option	11 11 12 12	12.5 12.4 8.7 7.2 Cover cross	stem height = 6	5-5 % 5-7 % 7:0 %	0.8 %	0.5 % 0.9 % 1.8 %	0.3 N 1.3 N 3.2 N	0.3 % 1.4 %
Consentioned TB Workh TB2 Leve face. The TB2 Tbph Res. No: TB2 Guily Treatment Option (Select) Watershed Origoning System (From Above) Watershed Pask Discharge	To the second se	LISS LISS 8.7 ZZ Cover cray 0.5 (repres	stem height = 6	5-5 % 5-7 % 7:0 %	0.8 %	0.5 % 0.9 % 1.8 %	0.3 N 1.3 N 3.2 N	0.3 % 1.4 %
Committeed TR Output Did Law Rev. TR Traph Rev. Rev TR Gelly Treatment Option Gelly Treatment Option (From Above) Watershed Peak Discharge Lots Gally	20 20 Cover Crop	12.5 12.4 8.7 7.2 Cover cross	stem height = 6	5-5 % 5-7 % 7:0 %	0.6 %. 1.0 %. 12.0 %	0.5 % 0.9 % 1.8 %	0.3 N 1.3 N 3.2 N	0.3 % 1.4 %
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Committeed TR Output Did Law Rev. TR Traph Rev. Rev TR Gelly Treatment Option Gelly Treatment Option (From Above) Watershed Peak Discharge Lots Gally	Cover Crop High Res. No-Till 8.7	1555 1274 8.7 72 Cover cray 0.5 (reprin	stevn height = 0 ientiative of typi	ALL STATES	a steen density = . ubble)	0.7 % 0.9 % 1.8 % R stems per sev	03 % 13 % 33 % are foot: Vegeta	0.3 %
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Consolitant TB Orach TB Class for TB Tagh Res. Nor TB Earn Care Gally Treatment Option (Select) Watershed Crapping System (Iron Above) Watershed Pash Discharge Ison Solly Maximum Altenable Bed	Ze Ze Cover Crop High Res. No-Till 8.7	Cover crop 0.5 frepres cb Pask	stevn height = 0 ientiative of typi	54 5 57 5 70 5 inches; Cover cro al annual crop st int solected is n Max int solected is n Max	of s	62 % 0.9 % 1.8 % 20 stems per sp control ophe wity Bed Stope, (p	03 % 13 % 33 % are foot: Vegeta	0.3 % 18 % 6.0 % Cover Factor
Something (19) Something (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Ze Ze Cover Crop High Res. No-Till 8.7	ch	stevn height = 0 ientiative of typi	Ad a second seco	of s	0.3 % 0.9 % 1.8 % 10 stems per spo control ophe- wty Bel Stop, (p	0.3 % 1.3 % 2.3 % are foot: Vegetal meral gully eros eccent) oddate.Bol in Flow In Sin Sires = 8.0	0.1 % 1.8 % 6.0 % Cover Factor
Something (19) Something (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Ze Ze Cover Crop High Res. No-Till 8.7	Cover crop 0.5 frepres cb Pask	stevn height = 0 ientiative of typi	and solutions of the solution	of s	62 % 0.9 % 1.8 % 20 stems per sp control ophe wity Bed Stope, (p	0.3 % 1.3 % 3.2 % are foot: Vegetal meral gully oroi ecent) cotate.so(in Flow	0.3 % 18 % 6.0 % Cover Factor
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Generations (1) Generations (1) Generations (1) Generations (1) Generations (1) Watershald Charging Epitem (1) Watershald Charging Epitem (1) Watershald Charging Galary (1) Galary (1) Ga	15 27 Cover Crop High Res. No-TIE 8.7 eterent 10 10 10 10 10 10 10 10 10 10	ch 213 274 277 277 277 277 277 277 277	Guilty Treatme	An and a second a s	o s s 120 % p steer density = . deble) sot a dequarte to mum Alowable 0 	0.7 % 0.9 % 1.8 % 1.9 % 1.0 % 1.0 % 1.0 %	0.3 % 1.3 % 3.5 % are foot: Vegetal meral guily eros ecent) collide Sol in Flow models Sol Seese + 0.0 3.6 % %	0.1 % 1.4 % 6.0 % Cover Factor Cover Factor 2010 2010 2010 2010 301 301 301 301 301 301 301
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REDU	LTS FO	JR.	FR		FK			M	-	R
Watershed Cropping System	High Res. No-Till	1	_					111	III	W
(Select) Maximum Allowable Bed Slope	nign Kes. No-Till	5 %	Cropping Syste	em selected is r	ot adequate to	o control eph	emeral gully	erosio	n.	
Stope		-		Max	mum Allowable G	ully Bed Slope, (percent)			_
Cropping System	Runoff Curve Number	Peak Discharge		ant or Very Erosion in Flow Area tx. Soil Stress = 0.05			Erodible Soil in Flow Area (Max. Soil Stress = 0.03 psf)			
		cfs	10' TW	15' TW	20' TW	10' TW	15' TV	/	20' T	w
Clean Till	86	21.5	- %	- %	· %	· · · · 8	1.1	%		%
Conventional Till	85	19.9	- %	0.2 %	0.2 %	- %	1.00	%		%
Mulch Till / Low Res. No-Till	83	17.4	0.4 %	0.6 %	0.8 %	0.2 %		%	0.3	%
High Res. No-Till	74	8.7	1.9 %	2.7 %	3.4 %	0.9 %	_	%	1.6	%
Cover Crop	72	7.2	4.0 %	7.0 %	12.0 %	1.8 %	3.5	%	6.0	%
			sentative of typici	al annual crop stu	ibble)		uare foot; Ve	pertor co		
Watershed Cropping System (from Above)	High Res. No-Till		sentative of typici	al annual crop stu	ibble)		<i>uure joon, ve</i>	pertor co		
(from Above) Watershed Peak Discharge			entative of typic	al annual crop stu	ibble)		JUNE JUON, 44			
(from Above) Watershed Peak Discharge into Gully Maximum Allowable Bed	8.7	ds			,					
(from Above) Watershed Peak Discharge into Gully	8.7	ds S		nt selected is n	ot adequate to	control eph	meral gully			
(from Above) Watershed Peak Discharge into Gully Maximum Allowable Bed	8.7		Gully Treatme	nt selected is n Max	,	control ephi	meral gully	erosior	n.	
(from Above) Watershed Peak Discharge into Gully Maximum Allowable Bed	8.7		Gully Treatme	nt selected is n Max	ot adequate to mum Allowable Ge Resistant Soil	control ephi ully Bed Slope, (meral gully	erosion Flow Are	n. Na	
(from Above) Watershed Peak Discharge into Gully Maximum Allowable Bed Slope	8.7	Peak	Gully Treatme	nt selected is n Maxi ant or Very Erosion in Flow Area	ot adequate to mum Allowable G Resistant Soil psf) 20° TW	control ephy ully Bed Slope, (10' TW	meral gully percent) irodible Soil in Max. Soil Stress 15' TM	erosion Flow Are = 0.03 pt	n. Na	
(from Above) Watershed Peak Discharge into Gully Maximum Allowable Bed Slope Gully Tree Clean	8.7 3 stment	Peak Discharge cfs 8.7	Gully Treatme Erosion Resist (Mo 10' TW - %	nt selected is n Maxi ant or Very Erosion in Flow Area rx. Soil Stress 0.05 15'TW - %	ot adequate to mum Allowable Gr Resistant Soil psf) 20'TW 0.2 %	control epho ully Bed Slope, ((10' TW - %	meral gully percent) irodible Soil in Aax. Soil Stress	erosion Flow Are = 0.03 ps	n. 8a st) 	%
(from Above) Watershed Peak Discharge into Gully Maximum Allowable Bed Slope Gully Trea Clean Conventio	8.7 3 stment Till	Peak Discharge cfs 8.7 8.7	Gully Treatme Erosion Resist (Mo 10' TW - % 0.3 %	nt selected is n Maxi ant or Very Erosion In Flow Area or. Solf Stress = 0.05 2.5*TW - % 0.4 %	ot adequate to mum Allowable Gr nesistant Soil 20' TW 0.2 % 0.6 %	control ephy ully Bed Slope, (10' TW - % - %	meral gully percent) trodible Soil in Aax. Soil Stress 15' TW -	erosion Flow Are = 0.03 ps /	n. sa sf) 20' T - 0.3	%
(from Above) Watershed Peak Discharge Into Gulty Maximum Allowable Bed Slope Gulty Tree Clean Clean Ketch Tid / Low	8.7 3 stment 178 mai 170 . Res. No-Till	Peak Discharge cfs 8.7 8.7 8.7 8.7	Gully Treatme Erosion Resist (Mc 10' TW - % 0.3 % 0.8 %	nt selected is n Maxi ant or Very Erosion in Flow Area Solif Stress - Solif Stress - - % 0.4 % 0.4 % 1.2 %	ot adequate to mum Allowable Gr Resistant Soll 20'TW 0.2 % 0.6 % 1.5 %	control ephy lily Bed Slope, (10' TW - % - % 0.4 %	meral gully percent) irodible Soil in Aax. Soil Stress 15' TW 0.2 0.5	erosion Flow Are = 0.03 ps / % %	n. sa sf) 20' T - 0.3 0.7	% % %
(from Above) Watershed Peak Discharge into Gully Maximum Allowable Bed Slope Gully Trea Clean Conventio	8.7 3 stment 1781 1984 T01 2 Res. No-T01 10 No-T01	Peak Discharge cfs 8.7 8.7	Gully Treatme Erosion Resist (Mo 10' TW - % 0.3 %	nt selected is n Maxi ant or Very Erosion In Flow Area or. Solf Stress = 0.05 2.5*TW - % 0.4 %	ot adequate to mum Allowable Gr nesistant Soil 20' TW 0.2 % 0.6 %	control ephy ully Bed Slope, (10' TW - % - %	meral gully rodible Soil in <i>loc.</i> Soil Stress 0.2 0.5 1.3	erosion Flow Are = 0.03 ps /	n. sa sf) 20' T - 0.3	%

RESUL	1210	KI	-bH	EIVIE	HAA	F AI	KEH		
<u>1/11/11/14</u>									
Watershed Cropping System	Mulch Till / Low Res.								
(Select									
Maximum Allowable Bee Slope	0.	7 %	Cropping Syste	m selected is r	ot adequate t	o control ephe	meral gully ero	sion.	
					mum Allowable G	ully Bed Slope, (p	ercent)		
Cropping System	Runoff Curve Number	Peak	Erosion Resist	in Flow Area	Resistant Soil		rodible Soil in Flow		
cropping system	Runott Curve Number	Discharge	(Ms	x. Soil Stress = 0.05	osfl	(^	lax. Soil Stress = 0.0	3 psf)	
		cfs	10' TW	15' TW	20' TW	10' TW	15' TW	20' TV	
Clean Till	86	8.0	· %	- %	0.2 %	- %	- %	1.1	
Conventional Till	85	7.6	0.3 %	0.5 %	0.6 %	- %	0.2 %	0.3	
Mulch Till / Low Res. No-Till	83	6.6	1.0 %	1.5 %	1.9 %	0.5 %	0.7 %	0.9	
High Res. No-Till	74	3.4	4.5 %	6.0 %	8.0 %	2.1 %	3.0 %	3.9	
Cover Crop	72	2.9	30.0 %	30.0 %					
Gully Treatment Option				3010 75	30.0 %	16.0 %	30.0 %	30.0	
(Select			stem height = 6 entative of typic	nches; Cover cro	o stem density =			_	
	Cover Crop Mulch Till / Low Res.	0.5 (repres		nches; Cover cro	o stem density =			_	
(Select Watershed Cropping System (from Above	Cover Crop Mulch Till / Low Res. No-Till	0.5 (repres		nches; Cover cro	o stem density =			_	
(Select Watershed Cropping Systen (from Above Watershed Peak Discharg into Gulh	Cover Crop Mulch Till / Low Res. No-Till 6.6	0.5 (repres		nches; Cover cro	o stem density =			_	
(Select Watershed Cropping System (from Above Watershed Peak Dischargu into Gulh Maximum Allowable Bed	Cover Crop Mulch Till / Low Res. No-Till 6.6	0.5 (repres	sentative of typic	nches; Cover croj Il annual crop stu	o stem density = ibble)	30 stems per sq	are foot; Vegeta	Cover Facto	
(Select Watershed Cropping Systen (from Above Watershed Peak Discharg into Gulh	Cover Crop Mulch Till / Low Res. No-Till 6.6	0.5 (repres	sentative of typic	nches; Cover croj Il annual crop stu nt selected is n	o stem density = ibble) ot adequate to	30 stems per squ	vare foot; Vegeta meral gully ero	Cover Facto	
(Select Watershed Cropping System (from Above Watershed Peak Dischargu into Gulh Maximum Allowable Bed	Cover Crop Mulch Till / Low Res. No-Till 6.6	0.5 (repres	sentative of typic	nches; Cover cro al annual crop stu nt selected is n Maxi	o stem density = ibble)	30 stems per squ control ephe ully Bed Slope, (p	ware foot; Vegeta meral gully ero ercent}	l Cover Facto	
(Select Watershed Cropping System (from Above Watershed Peak Discharg into Guil) Maximum Allowable Bec Slope	Cover Crop Mulch Till / Low Res. No-Till 6.6	0.5 (repres	Gully Treatme	nches; Cover cro I annual crop sta nt selected is n Max ant or Very Erosion In Flow Area	o stem density = ibble) ot adequate to mum Allowable G Resistant Soil	30 stems per squ control ephe ully Bed Slope, (p	meral gully ero ercent)	l Cover Facto sion.	
(Select Watershed Cropping System (from Above Watershed Peak Discharg into Guil) Maximum Allowable Bec Slope	Cover Crop Mulch Till / Low Res. No-Till , 6.6	0.5 (repres	Gully Treatme	inches; Cover croy Il annual crop stu nt selected is n Max ant or Very Erosiol in Flow Area c Soll Stress = 0.05	o stem density = bbble) ot adequate to mum Allowable G . Resistant Soll orf)	30 stems per squ control ephe ully Bed Slope, (p (M	meral gully ero ercent) rodible Soil in Flow	ion.	
(Select Watershed Cropping System (from Above Watershed Peak Discharge into Guilt Maximum Allowable Slop Guilty Tr	Cover Crop Mulch Till / Low Res. No-Till 6.6	0.5 (repres	Gully Treatme	Inches; Cover crop I annual crop sta I annual crop sta I annual crop sta Max ant ar Very Erosion In Flow Area s. Soll Stress - S	o stem density = bbble) ot adequate to mum Allowable G Resistant Soil pal) 20'TW	20 stems per squ control ephe ully Bed Slope, (p (M 10' TW	meral gully ero ercent) codible <u>Soil</u> in Flow fax. Soil Stress = 0.0 15' TW	ion.	
(Select Watershed Cropping System (from Above Watershed Peak Discharge into Guill Maximum Allowable Bed Slops Guilly Tr	Cover Crop Mulch Till / Low Res. No-Till 6.6 eatment	0.5 (repres cfs 5 % Peak Discharge cfs 6.6	Gully Treatme	Inches; Cover crop annual crop ste nt selected is n Max ant or Very Ecosion in Flow Area a Soil Stress = 0.05 15'7W 0.2 %	ot adequate to mum Allowable G Resistant Soll 20' TW 0.2 %	20 stems per squ control ephe ully Bed Slope, (p (h 10' TW	meral gully ero ercent) rodible Soli in Flow 15' TW - %	Lion.	
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(Select Watershed Cropping System (from Above Watershed Peak Discharge into Gull Maximum Allowable Bee Slopp Gully Tr Clean Convent Mutch Till / U	Cover Crop Mulch Till / Low Res. No-Till 6.6 eatment	0.5 (repres cfs 5 % Peak Discharge cfs 6.6	Gully Treatme Erosion Resist (Ma 10' TW - % 0.4 %	Inches; Cover crop I annual crop ste I annual crop ste I annual crop ste Maximum Maximum I crover traslo In Flow Areas Soll Stress = 0.05 ISTW 0.6 %	o stem density = bibble) ot adequate to mum Allowable G Resistant Soil col? 0.2 % 0.7 %	control ephe ully Bed Slope, (p (// 10' TW - % 0.2 %	meral gully ero ercent) rodible Soil in Flow fax. Soil Stress = 0. 25' TW 0.3 %	Cover Factoria	

