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Predicting Soil Losses in Tennessee under Different Management Systems

University of Tennessee Agricultural Experiment Station

C. H. Jent Jr.

F. F. Bell

M. E. Springer

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April 1967

Bulletin 418

PREDICTING SOIL LOSSES IN TENNESSEE UNDER DIFFERENT MANAGEMENT SYSTEMS

GUIDE FOR SELECTING SYSTEMS AND PRACTICES FOR SOIL AND WATER CONSERVATION

C. H. Jent, Jr. F. F. Bell M. E. Springer



FOREWORD

Soil-Loss Predicting Equation—Tennessee

The soil-loss equation serves as a guide to predict soil losses under widely different cropping systems, conservation practices, and climatic conditions for the many soils in Tennessee. Using the data, one can select combinations of crops and conservation practices to keep predicted soil losses within acceptable limits for any soil. This equation is a refinement of an earlier equation developed and used in the North Central and Northeastern states.

Many people have contributed in the development of the soilloss predicting equation. Approximately 10,000 plot-years of runoff, soil loss, and associated precipitation data from 47 scattered Federal-State research projects in 21 states have been assembled by the Soil and Water Conservation Research Division, Agricultural Research Service, U. S. Department of Agriculture. These data are the foundation of the equation.

The authors are indebted to Walter H. Wischmeier and D. D. Smith of the Agriculture Research Service for their help and guidance. The joint U.T.-SCS Committee adapted much of the research data to Tennessee conditions and provided many of the explanations contained in this bulletin. Committee members were:

F. F. Bell and M. E. Springer, University of Tennessee.

C. B. Breinig, Cal L. Roark, and D. K. Springer, Soil Conservation Service.

Availability of additional research data and use of the equation will likely bring about modifications of factor values in the future.



Figure 1. Actual photograph of a plastic calculator which operates like a slide rule to speed up calculations.

Reverse Calculator for planning conservation systems and predicting soil losses from rainfail erosion.	 I SAI LSG Particing Equation: I S NL/SG Pa	
8	 A Universal Soil-J A = A verage annu A = A verage annu A = A verage annu B = A verage annu C = Compingenta C = C = Compingenta C = C = Compingenta C = C = C = Compingenta C = C = C = C = C = C = C = C = C = C =	

Figure 2. On the back of the slide rule are brief instructions for using the calculator to select alternative systems of cropping and practices to predict soil losses. **Frequently-used** factors may be listed on a large section which slides over the instructions.

Hundreds of the calculators are in use in Tennessee and more than 20 other states. They help in selecting acceptable crop management systems and erosion control practices.

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PREDICTING SOIL LOSSES IN TENNESSEE UNDER DIFFERENT MANAGEMENT SYSTEMS Guide for Selecting Systems and Practices for Soil and Water Conservation

C. H. Jent, Jr., F. F. Bell, and M. E. Springer¹

INTRODUCTION

F ormerly soil conservationists and other professional agricultural workers were able to indicate expected soil losses from sloping cropland only in relative terms. Today quantitative soilloss estimates based on experimental data can be made for most land conditions in Tennessee. Furthermore, predictions as to probable soil losses are possible for a given field under alternative systems of land use and cropping-management, with or without special conservation practices. These advances were made possible by developing an empirical equation that includes several interrelated factors that contribute to soil loss by rainfall-induced erosion.

Factors influencing soil loss have been studied for many years. Analysis of accumulated data and refinement of early methods of predicting soil losses resulted in the introduction in 1961 of a "universal" equation for estimating rainfall-erosion losses $(2, 3, 9, 11)^2$. With appropriate adjustments for local conditions, it applies to all areas where soil loss is significant because of rainfall.

Tennessee has the distinction of being the first state where the new universal soil-loss predicting equation was adapted to local conditions and put to use by operational soil conservationists (11).

More than 10,000 plot-years of runoff, soil-loss, and associated precipitation and related data from 37 scattered Federal-State

¹Conservation Agronomist, U. S. Department of Agriculture, Soil Conservation Service, Tennessee: Professors of Agronomy, University of Tennessee, College of Agriculture, Knoxville. Tennessee, respectively.

² Italic numbers in parentheses refer to references cited, page 75.

research projects in 21 states were assembled and analyzed by the Soil and Water Conservation Research Division, Agricultural Research Service (3, 11). These data are the foundation of the present equation.

Quantitative estimates using the soil-loss predicting procedure provide a sound guide to farmers in making shifts in land use and in selecting combinations of crops and conservation practices that will keep estimated soil losses within acceptable limits for any soil. Such estimates can give the farmer and the professional worker who assists him more confidence in their recommendation (2).

THE EQUATION

The soil-loss predicting equation considers the effect of all the major factors known to influence rainfall erosion. The equation is A=RKLSCP. Predicted average annual soil loss in tons per acre, "A," is the product of the factors "R" (rainfall), "K" (soil erodibility), "LS" (length and steepness of slope), "C" (cropping-management), and "P" (supporting conservation practices) (1, 3, 4, 6, 9, 11).

How each factor influences erosion and how numerical values were determined for them is explained in sections that follow. In addition, the soil loss tolerance (T) value is discussed.

The last section of this bulletin, entitled "Using the Equation," gives examples of how to apply the equation to field conditions. Tables and figures giving values applicable to Tennessee conditions are included in the Appendix.

Average Annual Soil Loss (A)

The equation is used to calculate A which is the average annual soil loss in tons per acre that will occur over a period of years. Such predictions are valid only when applied over a period of time and will not necessarily be true for any 1 year because of year to year fluctuations. Thus, predicted soil losses should be considered only as a guide when used in planning conservation systems for sloping cropland.

Rainfall Factor (R)

The R factor in the soil-loss equation is the erosion potential of rainfall in a particular locality, that is, the ability of rain to erode soil from farm fields. Soil-loss measurements show that the erosion potential is not necessarily determined by the total amount of rainfall or any specific intensity-frequency (5, 10). The best indicator of rainfall erosion potential now known is the rainfall-erosion index (7, 9).

The rainfall-erosion index is a function of the characteristics of each individual rainstorm. Analysis of extensive soil-loss data and associated rainfall records revealed that when factors other than rainfall are held constant, storm soil losses from cultivated fallow fields are directly proportional to the product value of two rainstorm characteristics—total kinetic energy of the storm times its maximum 30-minute intensity. Among all the sets of fallow-plot data available for analysis, the energy times maximum 30-minute intensity values (E I values) explained a greater percentage of total soil loss variation than did the combination of any 3 of 41 other rainstorm characteristics and interaction terms investigated (5, 7, 9, 10).

The rainfall-erosion index for a given time period is the sum of the E I values computed for the individual storms occurring during the period. The average annual value of the erosion index in any specific locality is the rainfall factor (R) for the soil-loss predicting equation in that locality (7, 9).

Figure 2 is the iso-erodent map for Tennessee. Iso-erodents are lines joining areas with equal erosion index values (which implies equally erosive average annual rainfall). Values of the rainfall factor in those counties not crossed by one of the iso-erodents may be approximated by linear interpolation. If all other conditions were equal, identical plots in various sections of the state would be expected to have average soil losses in direct proportion to the index values shown on the map (4, 9, 10). Differences in index values do not necessarily conform with differences in total rainfall amount.

The iso-erodent map was developed by plotting the computed product, total storm energy times maximum 30-minute intensity, for those rains above an established minimum $(\frac{1}{2}-inch)$ from records of all the first-order weather stations in or near Tennessee. U. S. Weather Bureau records for a continuous 22-year period were used. Determinations between points represented by major weather stations were on the basis of rainfall amount and intensity probability data published by the Weather Bureau.

Rainfall factor values for all counties in the state are listed in Table 4 of the Appendix.



Figure 2. Values of the rainfall factor in Tennessee.

4

As pointed out earlier, the available data show that for tilled continuous fallow, annual rainfall-erosion index values are closely correlated with annual soil loss amounts. However, rate of soil loss per index unit varies with soil and slope characteristics. When cropping is introduced, the correlation still holds, but the rate of loss is influenced by the cropping and management (7). This is more fully discussed in the section dealing with the cropping-management (C) factor.

Soil-Erodibility Factor (K)

Different types of soil erode at different rates even when other factors affecting erosion are constant. Some of the important soil physical properties that influence erodibility are size and stability of structure, soil texture, percentage of coarse fragments—especially on soil surface—organic matter, infiltration, permeability, type of clay mineral, and depth of soil material (1, 3, 4, 6).

The soil-erodibility factor (K) in the erosion equation reflects the rates at which different kinds of soils erode. "K" values are expressed as soil loss in tons per acre per unit of rainfall-erosion index (R) from clean-tilled continuous fallow on a 9% slope, 72.6 feet long (4, 6, 11). This means that a cultivated, continuousfallow, Memphis silt loam which has a "K" value of 0.37 located on the "standard" slope in Shelby County where the rainfall-erosion index (R) is 300 would erode at the rate of 111 tons per acre per year ($0.37 \times 300 = 111$).

The "basic" slope of 9%, 72.6 feet long was selected, since these were the specifications of many plots used in early runoff and erosion experiments. The next section on length and steepness of slope (S and L factors) will explain how other slope conditions are related to the "basic" slope.

Continuous fallow is defined as any land that has been tilled and kept clear of vegetation for a period of at least 2 years or until prior crop residues have decomposed.

The influence of soil type on rate of soil loss has been determined for all soils for which fallow-plot research data were available. All soils of Tennessee have been assigned soil erodibility values. Available soil erodibility data were used as a base with properties of individual Tennessee soils related to those soils for which data were available as well as to each other.

Table 5 in the Appendix lists soils occurring in Tennessee with assigned soil erodibility (K) factors. Also, this table lists the as-

signed soil-loss tolerance (T) amounts along with computed T/K values for Tennessee soils.

Length and Steepness of Slope Factors (LS)

Soil losses are greater on the longer and steeper slopes. But the rate of erosion does not increase uniformly with increasing slope length or gradient. Soil losses per unit area have been found to increase exponentially with increases in slope length and steepness. The exponent in common use for increasing length is 0.50. The exponent presently used for increasing steepness is 1.40 (6, 12).

Solution of the soil-loss equation is made easier by combining the equations of the factors for length and steepness of slope and expressing them as a ratio of soil loss for any slope length and steepness to the "standard" 9%, 72.6-foot long slope. With the value for the "standard" set at 1 or any other value, charts or tables may be prepared for easy selection of SL ratios (4, 6). From Figure 6 in the Appendix, read directly for the desired slope conditions.

When using the soil-loss predicting equation to estimate soil loss, the length of slope is the distance from the point where overland flow begins to either of the following, whichever is limiting for the major part of the area under consideration: 1) the point where run-off water becomes concentrated in a watercourse that may be part of a drainage network or a constructed channel such as a terrace or diversion, or 2) the point where the slope decreases to the extent that deposition begins (4).

Much of the research data suggests that significant interactions exist between slope length and soil properties that affect run-off, detachment, and transportability. It is known that lower values of the slope length exponent are associated with soils on which run-off amounts decrease with increasing slope length. Practices such as contouring interact with the factor for steepness of slope. Research aimed at further defining these interaction effects is presently underway (11).

Cropping-Management Factor (C)

The cropping-management factor (C) is the expected ratio of soil loss from land cropped under specified conditions to corresponding soil loss from continuous fallow under identical rainfall, soil, and slope conditions. The cropping-management factor is the most complex of all the factors in the equation. When a field is cropped or management practices are used, the amount of erosion may be greatly reduced. How much depends on many factors and their interaction effects on each other. For example, the effects of a meadow crop turned under before cotton or corn depends upon the kind and quality of the meadow. The amount of cover crop, root growth, quantity of crop residue in plow layer, water used by growing crops, etc., all influence the amount of soil that will erode from a field. These conditions vary greatly within the growing season of a crop or within the rotation cycle. As indicated in the discussion of rainfall, the distribution of erosive rainstorms within the year differ from one location to another (8).

The erosion control effectiveness of each crop and practice was approximated on the basis of five crop-stage periods. These periods were established so that the effectiveness of each stage of crop development could be related to the amount of the annual rainfallerosion index occurring during that period at a specific location. Crop-stage periods were selected for relative uniformity of cover and residual effects within each period. They are as follows:

- Period F: Rough fallow. Turn plowing to seeding date.
- Period 1: Seedbed period. Seeding to 1 month after.
- Period 2: Establishment period. From 1 to 2 months after planting corn or spring grain. For lateseeded winter grain, 1 month after seeding to April 1.
- Period 3: Growing crop. From period 2 to crop harvest.
- Period 4: Stubble or residue period. Harvest to turnplow or new seedbed. (When meadow is established in small grain, grain-period 4 ends 2 months after grain harvest. Thereafter it is classified as established meadow.)

Corn yields were found to be a good indicator of the combined effects of quality of meadow turned under, quantity of prior crop residue, density of canopy, rate of water use by plants, quantity of root growth, and soil fertility. Differences due to crop sequences, tillage, and residue management were evaluated separately. Differences in antecedent soil moisture and degree of surface smoothing and sealing by prior rainfall were considered to be randomly distributed in time during a crop-stage period.

Ratios of soil losses from cropped plots to corresponding losses from continuous fallow were computed from the assembled re-

search data. These ratios were computed by each of the five crop-stage periods and for each crop under various combinations of crop sequence and yield level. The results were tabulated and published in ready-reference form as shown in Table 2 (8).

Table 1 contains the assumed mean dates for crop-stage periods used in calculating cropping-management values for Tennessee.

Table 1. Assumed mean dates for determining crop stage periods in calculations of "C" values—Tennessee

CORN: Grain—Turn-plow 4-10, plant 5-10, harvest 10-20 Silage—Turn-plow 5-1, plant 5-20, harvest 9-1 Late seeded winter cover (small grain-legume or grass-legume) after corn for grain residue left corn harvested 10-15, disk and plant 10-15 Early seeded winter cover (small grain-legume or •grass-legume) after silage—disk and plant 9-10

COTTON: Turn-plow, plant 5-1, harvest 11-1 Winter cover (small grain-legume or grass-legume) after cotton-disk and plant 11-1

Winter cover early seeded in cotton middles, plant 9-15

TOBACCO: Turn-plow 4-10, plant 5-15, harvest 9-1

Winter cover (small grain-legume or grass-legume) after tobacco-disk and plant 9-10

SOYBEANS: Turn-plow 4-20, plant 5-20, harvest 10-10 Winter cover (small grain-legume or grass-legume) after soybeans for beansdisk and plant 10-20

SMALL GRAIN: Early seeded-turn-plow or Disk 9-1, Plant 9-15 except after corn for silage plant 9-10, harvest 6-10

Late seeded-turn-plow or disk 10-15, plant 10-15, except after soybeans disk or turn-plow and plant 10-20, harvest 6-10

Late seeded, continuous small grain-turn-plow or disk 10-1, plant 10-15, harvest 6-10

SUDANGRASS or MILLET: Turn-plow 5-20, plant 6-1, harvest 9-1

Early seeded winter cover, disk or turn-plow and plant 9-10

- MEADOW: Annual lespedeza-plant 3-15, harvest 9-1
 - Sericea lespedeza-disk or turn-plow 3-1, plant 3-15

Grass-legume:

Spring-Disk or turn-plow 3-1, plant 3-15

- Fall-After small grain, harvest, disk or turn-plow 8-1, plant 9-1
- Fall—After corn for silage, disk or turn-plow 9-1, plant 9-10
- Fall—After corn for grain rd.l., late seeded, disk or turn-plow and plant 10-15

Fall---After tobacco, disk or turn-plow and plant 9-10

Table 2. Ready-reference table. Ratio of soil los from crops to corresponding loss from continuous fallow[†]

		Crop yi	elds		Crop-stage period ²						
Line No.	Cover, sequence & management ²	Meadow	Corn	F	1	2	3	4-RdL	4-RdR		
		tons	bu.	%	%	%	%	%	%		
1 2 3 4 5	Continuous corn, RdR no treatment 8 T./A. manure under fertilized, N-P-K fertilized, N-P-K		25 40 40 40 60	85 85 64 80 80	92 92 72 85 85	80 72 52 70 60	50 35 28 35 30		85 80 62 75 70		
6 7 8	Continuous corn, RdL w/o WC seeding w/o WC seeding w/o WC seeding		25 45 75	70 55 36	76 70 63	64 58 50	38 32 26	65 50 30			
9 10 11	with g & I WC ¹ with g & I WC with g & I WC		25 45 75	42 33 22	56 51 46	52 47 41	38 32 26	33 25 15			
12 13 14 15 16 17	Ist-yr. corn after M after g & I hay after g & I hay	<1 <1 1 to 2 1 to 2 2 to 3 >3	25 40 40 60 70 75	23 23 15 15 10 8	40 40 32 30 28 25	43 38 30 27 19 17	30 25 19 15 12 10	45 35 30 22 18 15	65 60 50 45 40 35		
18 19 20 21	after red cl hay after Scl hay after lespedeza hay after lespedeza seed, all RdL	2 2	40 40 25 30	21 23 60 25	35 45 76 40	32 38 58 35	25 28 35 25	35 35 65 45	60 60 80		
22 23 24	In meadow-less rotations after SG in SG & Scl-C-C after SG in SG & Scl-C or cot after SG w/o catch, after RC		30 60 40	30 25 55	45 38 70	42 35 60	30 24 32	40 30 50	 80		
25 26 27 28 29	2nd-yr, corn after g & I M prior-corn RdR prior-corn RdR prior-corn RdR prior-corn RdR prior-corn RdR	<1 <1 1 to 2 1 to 2 2 to 3	25 40 40 60 60	70 70 65 62 60	75 75 72 70 65	70 65 57 54 51	45 32 29 26 24		80 75 70 70 65		
30 31 32 33 34 35	prior-corn RdL prior-corn RdL prior-corn RdL prior-corn RdL prior-corn RdL prior-corn RdL	<1 <1 1 to 2 1 to 2 2 to 3 >3	25 40 40 60 70 75	55 46 42 35 32 25	66 62 57 54 51 48	60 54 49 45 41 37	35 30 28 24 22 20	65 50 42 28 26 24			
36 37 38 39 40 41 42	prior-corn RdL+WC ¹ prior-corn RdL WC prior-corn RdL WC prior-corn RdL WC prior-corn RdL WC prior-corn RdL WC Corn after 2 or more M	<1 <1 1 to 2 1 to 2 2 to 3 >3	25 40 40 60 70 75	33 28 25 21 20 18 20	48 45 42 39 37 33 35 2	49 44 40 36 33 5 30 2	35 30 28 24 22 20 2	33 25 21 15 15 14			

CORN

See footnotes at end of table.

Table 2. Ready-reference table. Ratio of soil loss from crops to corresponding loss from continuous fallow[†] (Continued)

		co	TTON					
					Crop	stage p	eriod ²	
Line C	Cover, sequence &	Meadow yield ¹	Fertility - level	F	1	2	3	4-RdL
NO.		tons		%	%	%	%	0
	Continuous cot		145	15	80	80	52	48
43	w/o WC seeding		MF HF	42	70	70	48	42
44 45	w/o WC seeding with g & I WC ¹ with g & I WC ²		MF HF	35 32	58 51	65 57	52 48	25 22
40	Ist-yr, cot		MF	45	70	70	48 35	42
47 48 49	in cot-O-lespedeza seed, Rd	L	MF MF	25 25 23	45 40 34	40 45 40	37 30	
50 51	in cot-O-lespedeza seed, Rd after lespedeza hay	ι	MF HF	62 28	76 40	73 45	50 35	22
52 53	after g & I meadow	<1	MF	23 15	40 34	54 45	45 35	42 30 30
54 55 56	after g & I meadow after g & I meadow after g & I meadow	1 to 2 3	HF	15 10	34 30	40 35	30 25	25
	2nd-yr, cot after g & I meadov	~		40	70	70	50	48
5) 5) 5	7 RdL, no WC 8 RdL, no WC 9 RdL, no WC	<1 1 to 2 1 to 2 3	MF MF HF HF	35 35 30	65 58 55	68 62 57	46 44 40	42 40 38
6	0 RdL, no WC .1 RdL g&IWC ¹	<1	MF	27 23	51 47	57 55	50 46	25 22
é	2 RdL g & I WC 3 RdL g & I WC	1 to 2 1 to 2 3	HF HF	23 20	42 40	50 46	44 40	20

SOYBEANS²

ESTABLISHED MEADOW

		All-year average
		%
65 66 67 68 69 70 71	Grass & legume mix (hay) yield less than 1 ton yield, 1 to 2 tons yield, 2½ or more tons Red clover, 2 tons Sweet clover, 2 tons Lespedeza hay or grazed Lespedeza for seed (RdU Continuous Sericeg after 2nd year	1.0 0.6 0.4 1.5 2.5 2.0 1.0 1.0
12		NEW MEADOW

74 Grass & legume seeded alone. Relate subjectively to small grain with meadow seeding.

See footnotes at end of table.

Table 2. Ready-reference table. Ratio cf soil loss from crops to corresponding loss from continuous fallow[†] (Continued)

1:	C	Crop y	ields	Crop-stage period ²						
Line No.	Cover, sequence & management	Meadow	Corn	1	2	3g	3р	4		
		tons	bu.	%	%	%	%	%		
	In RC residues, straw left, ade	q fert								
75	after 1 yr. C after M	<1	25	60	36	5	15	3		
76	after 1 yr. C after M	<1	40	48	29	5	15	3		
77	after 1 yr. C after M	1 to 2	40	41	25	4	15	2		
78	after 1 yr. C after M	1 to 2	60	30	18	3	15	2		
79	atter 1 yr. C atter M	3	75	20	12	2	10	1		
80	after 2 yrs. C after M	<1	25	75	45	6	15	3		
81	after 2 yrs. C after M	<1	40	65	38	5	15	3		
82	after 2 yrs. C after M	1 to 2	40	58	35	5	15	3		
83	after 2 yrs. C after M	1 to 2	60	40	24	5	15	3		
84	after 2 yrs. C after M	3	75	32	19	5	15	3		
85	in C-O & Scl rotation		60	30	18	4	15	3		
86	after 1 yr. cot after M			35	25	5	15	3		
87	after 2 yrs. cot after M			50	35	5	15	3		
88	In cotton middles after ScI or	lespedeza		30	22	10	15	3		
	On disked C stubble, RdR									
89	after 1 yr. C after M	I		80	45	7	15	3		
90	after 1 yr. C after M	2 to 3		50	40	5	15	3		
91	after 2 yrs. C after M	2 to 3		80	50	7	15	3		
92	after 3 or more RC or SG			92	55	7	15	3		
	GR	AIN w/o MEA	NOO	SEEDIN	G					
93	Straw left on			(Select	from	10	15	10		
74	Straw removed			lines 7	5-92)	10	15	20		
	GI	RAIN ON PLO	OWED	SEEDBEE)					
					Cro	op-stag	ge period			
				F	1	2	3	4		
95	Prior-crop RdR			65	70	45	(Səlect fr	om		
<i>•</i> 6	Moderate residues under			42	60	40	lines 75-	94}		
97	Heavy residues under			30	45	30				
		DOUBLE	CROPPE	D						
					Cro	op-staç	ge period			
				1	2	3	4	Winter		
8	Wheat (grain) & lespedeza (hay)		25	25	5	5			
9	Wheat & lespedeza both gro	zed		25	25	12	6			
0	Spring oats (hay) & lespedez	a (hay)		50	18	5	5	12		

GRAIN WITH MEADOW SEEDING

¹ Definition of abbreviations: cl-clover; C-corn; cot-cotton; g & l-grass & legume; HF-heavy fertilization; M-meadow; MF-moderate fertilization; O-oats; RC-row crop; RdL-crop residues left; RdR-crop residues removed; SG-small grain; WC-winter cover; w/o-without; W-wheat; Scl-sweetclover; V-vetch; Crot-crotolaria.

² Please refer to sub-section entitled Cropping-Management Factor (C) for explanations and supplemental information.

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These dates were established by a committee using recommended seeding dates and information contained in *Agricultural Trends* in *Tennessee 1866-1958*, published by the Tennessee Department of Agriculture.

To use the data in Table 2 to compute C factors, the expected distribution of the rainfall-erosion index within the year for the specified location must be known. In Tennessee the monthly distribution pattern of the rainfall-erosion index was found to be nearly identical for all locations in the eastern part of the state. Similarly, the distribution pattern for different locations in western Tennessee were nearly identical. But the distribution pattern in the eastern part of the state was quite different from that in the western part. The two curves are shown in Figure 3. The dividing



Figure 3. Cumulative monthly distribution of erosion potential in eastern and western Tennessee.

line between East and West Tennessee closely approximates the western escarpment of the Cumberland Plateau.

Figures 4 and 5 are rainfall-erosion index distribution curves for East and West Tennessee, respectively. In these curves, cumulative values of the index from April 1 are expressed as percentages of the annual index values and plotted against the days of the year. Conversions of the rainfall-erosion index values to percentages make possible the preparation of tables of cropping-management (C) values (4, 8).



% OF ANNUAL

Figure 4. Monthly distribution of rainfall erosion index for eastern Tennessee (Cumberland Mountains and all eastward).

The method for computing cropping-management (C) factor values based on seeding and harvest dates, probable level of produc-



Figure 5. Monthly distribution of rainfall erosion index for western Tennessee (all of Tennessee west of the Cumberland Mountains).

tion, and local rainfall pattern is illustrated by the following example:

Problem: Determine the cropping-management (C) factor value for a 3-year rotation of corn, oats-with-meadow-seeding, and meadow in eastern Tennessee. The fertility and management levels are such that average yield equivalent of 60 bushels of corn, 1 to 2 tons of hay, and at least 30 bushels of oats per acre can be expected. The corn is for silage. The oats are for grain and will be earlyseeded and the straw will be removed. The meadow will be a grasslegume mixture of orchardgrass and red clover seeded in the fall with the oat crop. Cultivation will be up and down across the slope not on the contour.

The use of Table 3, a work sheet for calculating C factor values, is demonstrated.

Tabel 3. Work sheet for calculating "C" factor values in soil-loss predicting equation

Cropping management system for Eastern Tennessee;

Three year cycle of Corn (silage)—Small Grain (early seeded) Rd. r. Meadow (gr. l.) seeded in Small gr. Yields—Corn 60 bu. equivalent, Meadow 1-2 tons.

(1)	(2 Point Reading	(2 (3) Point Reading Crop Stage		(4) (5) % of Rainfall Line			(7) Cropping-Mgmt "C" Factor Val.		
Dates	on R Curve	Period	Index	140.					
5/1	6	xxxxxxx	xxxxxx	-	XXXXX		XXXXXX		
5/20	11	F	5	15 ×	15	=	.0075		
6/20	22	C1	11	15 ×	30	=	.0330		
7/20	42	C2	20	15 ×	27	=	.0540		
9/1	61	C3	19	15 ×	15	=	.0285		
9/10	63	C4	2	15 ×	45	=	.0090		
10/10	68	Sg1	5	90 x	50	=	.0250		
11/10	72	Sg2	4	90 ×	40	=	.0160		
 		Sg3	45	90 ×	5	=	.0225		
8/10		Sg4	37	90 ×	3	=	.0111		
To 3rd	6	M3	152	66 X	0.6	=	0091		
				-					

Tota	300	Total for cycle	.2157
101a		Average annual "C" value	.072

Columns 1 and 3: Record in Table 3 column 1 the dates for plowing, seeding, and harvesting given in Table 1 for each crop in the rotation. Record the crop-stage periods as defined for each crop in the rotation in column 3.

Column 2: Refer to Figure 4, the monthly distribution of rainfall-erosion index for eastern Tennessee. Record in this column by dates the appropriate point readings from the rainfall-erosion index curve.

Column 4: Determine the percent of the rainfall-erosion index for each crop-stage period by finding the difference between the values for each crop-stage period ending date (see column 2 for these values). Example: Subtract period F value in column 2 from period 1 value and record the difference in column 4 opposite period 1. This value is the percent of the rainfall-erosion index for period 1. Complete by successive subtractions. Check for errors by totaling column 4. The total should equal 100 times the number of years in the rotation.

Column 5: Although not directly related to evaluating the C factor for the rotation, it is helpful to record the line numbers shown on Table 2 from which the values in column 6 are taken. This enables quick back-reference in case there is a need to do so.

Column 6: Read these values from pertinent lines in Table 2. In this problem the corn follows a grass-legume meadow yielding 1-2 tons per acre and the expected silage yield is equivalent to 60 bushels of corn (1 ton silage equivalent to 5 bushels of corn). Line 15 would be the correct line. The first five values in column 6 are read from line 15 of Table 1. Since the corn will be removed for silage, the value in column 4 Rdr would be applicable. The other values entered in column 6 for this problem were taken from the lines on Table 2 indicated in column 5.

Column 7: Enter here the product of column 4 times column 6. This is the ratio of soil loss by crop-stage periods to the corresponding loss from continuous fallow under identical soil and rainfall conditions. Both columns 4 and 6 are percentages; therefore, when the percent sign is dropped, the products in column 7 have four places to the right of the decimal point.

The total of column 7 (.2157 in this example) is the croppingmanagement value which would apply to this 3-year cropping system in eastern Tennessee. Since the average annual soil-loss estimates are desired, this value must be divided by the number of years in rotation. In the example, the average annual soil-loss (or C factor) would be .072 (or 7.2%) of the corresponding loss occurring under continuous fallow on the same field.

In selection of values from Table 2, the following interpretations are pertinent:

When the rotation to be evaluated involves crops or sequences not directly listed in Table 2, the line which most nearly represents the conditions should be used. Such comparisons should be made for each crop-stage period. Different lines can be used for different periods of the same crop year. For example, if corn follows first year cotton after meadow, values used for corn periods F and 1 should be taken from the line for second year cotton.

Table 2 is used by considering cover, crop sequence, residue management, and productivity, in that order. The crop yield value should be the expected average yield. This does not mean the yield attainable in the best years. If the incidence of meadow failures is high in the area due to climatic conditions, expected failures must be included in the estimate of the expected yield average. From an erosion standpoint, the adverse effects of a meadow failure in a rotation far outweighs the gains from an occasional good meadow year.

When small grain yields are equal to 15 or more bushels of wheat, column 3g in lines 75-94 of Table 2 applies. If yields are equivalent to less than 15 bushels of wheat, use column 3p.

Column 4 values in lines 75-92 of Table 2 assume new meadow growth in grain residues and are average values for the period from small grain harvest to 2 months later. After that date, values from lines 65-69 apply.

The values for winter cover (lines 9-10, 36-41, and 61-64 in Table 2) apply for vetch, rye and vetch, ryegrass, and grass-legume combinations seeded early enough to become established before winter. The values for period 4 result from winter cover established in the current year. Those for periods F, 1, and 2 are the result of residual effects of winter cover crops plowed under immediately preceding the current crop. When small grain is seeded alone as a winter cover crop between 2 years of row crop, all values are the same as for the row crop without winter-cover seeding except that wheat periods 1 and 2 are substituted for corn or cotton period 4 (4, 8, 11).

Values for corn are about the same as for cultivated soybeans. Close-drilled or broadcast beans have not been successfully evaluated.

For fertilized grass and legume meadows managed for sustained high productivity, values in lines 16, 17, 29, 34, and 35 of Table 2 may be reduced 10% for row crops following 2 or more years of meadow. But this reduction applies only for meadows yielding more than 2 tons of hay and where management does not permit meadow deterioration in succeeding years (8).

The detailed procedure described here for determining croppingmanagement factor values need not be used each time the soil-loss predicting equation is applied. Values can be computed for each of the common cropping systems and management levels and arranged in table form for any given location. Tables 6a and 6b in the Appendix are C factor values for most cropping-management systems used on Tennessee Farms.

Conservation Practice Factor (P)

The experimental plots from which the erodibility factor values were determined were up and down hill cultivated fallow. Factor values to measure the effects of contour farming, contour stripcropping, and terracing or certain combinations of these were established in 1956. Data used came from research results from using these practices at three different locations—LaCrosse, Wis., Bethany, Mo., and Urbana, Ill. (3, 4, 6, 11).

Contour farming is an effective conservation practice when properly used. Its effectiveness depends on row ridges, made with tillage implements, which retard water running down hill. Soil loss from contoured fields may range from 100% to 50% of that expected from up-and-down tillage, depending on the steepness of slope. Contouring appears to produce its maximum average effects on medium slopes. As the slope decreases, the erosion control effectiveness becomes less. As the slope increases, the amount of water retained by contour rows decreases and the rate of soil loss increases. Contouring provides almost complete protection for individual storms of low intensity, but for severe storms that cause excessive row breakage, it provides little or no protection.

Soil loss under contour stripcropping averages about 50% of that from contouring alone. However, this reduction only considers the off-field movement of soil. Much of the soil washed from cultivated strips in a contour stripcropped field is filtered out in the first few feet of the meadow strips. Soil movement and sedimentation within the field are not accounted for by the contour stripcropping factor.

Field stripcropping is growing crops in strips or bands across the general slope following the land contour where possible. Crops which are arranged so that a strip of grass or close-growing crop alternates with a clean-tilled crop are more effective in reducing soil loss than contouring alone, but less effective than contour stripcropping. Therefore, the practice values for field stripcroppings were set by the Tennessee committee at a point mid-way between the contouring and contour stripcropping factor values.

The contour stripcropping factor value is based on the cropping systems used in the research work. This was a corn-small grain-2 years meadow rotation with the meadow strips alternating with grain. When the cropping system used in stripcropping is less effective, a larger factor value should be used which will reflect the reduced effectiveness of the rotation (system) in reducing soil loss.

Terraces intercept and divert water running down the slope before it reaches velocities that cause damaging erosion. Soil saved is due to the shortened slope length and deposition in the terrace channel along with the effectiveness of contour farming.

Wischmeier and Smith (4) state that "If all furrow slices between terraces were turned up slope periodically with a two-way plow, most or all the soil washed into the terrace channel would be effectively moved back up the slope and a factor value based on the off-the-field rate of loss could be safely applied. Limited data indicate the terrace factor in this case should be about 20%of that for contouring. But in most farming operations, conventional plows are used and the soil deposited in the terrace channel is not returned to the interterrace interval to help maintain soil productivity.

"It is logical to assume that the total movement of soil within a terrace interval is equal to that with contouring alone on the same length and percentage of slope. Erosion control between terraces depends upon the crop rotation and other management practices. Therefore, if a control level is desired that will maintain soil movement between terraces within the soil-loss tolerance limit, the practice factor for terracing should equal the contour practice factor."

In Tennessee, most workers now have the objective of keeping soil movement between terraces within the soil loss tolerance limit. Therefore, when computing soil loss from terraced fields, use the contouring factor value, and for determining the combined SL factor, use a slope length equal to the recommended horizontal spacing between terraces for the percent slope of the field. No adjustment is made in slope length for contoured and stripcropped fields. The full field slope length is used for determining the combined SL factor value. Table 7 in the Appendix lists the conservation practice factor values. Table 8 gives the recommended horizontal spacing between terraces for different percent slopes in Tennessee.

If the soil-loss predicting equation is being used to compute gross erosion in sedimentation studies, a terrace practice factor 20%of the contour factor shown in Table 7 is suggested. This more accurately reflects the off-field soil loss. Use of the full contour factor accounts for both off-field losses and soil that is eroded and deposited in the terrace channels (4, 6, 11).

Soil Loss Tolerance Values (T)

The soil loss tolerance (T) value is the estimated average annual soil loss than can be tolerated and yet achieve the degree of conservation needed for sustained, economical production in the foreseeable future. It is expressed as average annual soil loss in tons per acre per year.

Tolerance values give meaning to the soil loss predicting equation. A comparison of the calculated predicted soil loss (A) arrived at through use of the equation with the tolerance value (T) for a soil indicates the degree to which present cropping-management and conservation practices are adequate. Furthermore, such comparison suggests the kind of cropping-management and conservation practices needed to keep predicted soil losses equal or less than the tolerance rate for the field under study (3, 4).

At the present time, tolerance values are estimates. Data are not available with which to evaluate precisely the many items that must be considered in setting an erosion tolerance standard for a soil. Tolerance values for Tennessee soils were established by multiple judgment decisions after considering various pertinent factors, and relating Tennessee soils to a few benchmark soils for which tolerance levels had been established. The more important items taken into account in arriving at soil-loss tolerance values were:

- The maintenance of an adequate soil depth favorable for plant roots.
- The maintenance of tilth favorable for crop production.
- The reduction in crop yields per inch of topsoil lost.
- Changes in soil moisture relationships due to changes in texture, infiltration, percolation, or water storage capacity.
- Seeding losses.
- Off-site sedimentation damage such as deposition in lakes and

flood retention reservoirs, stream channels, and on overflow cropland.

It is generally agreed that the maximum soil-loss tolerance for even the most favorable situation should not be greater than 5 tons per acre per year. The consensus of opinion is that rates greater than this will cause serious sedimentation and other problems. Soil-loss tolerances for Tennessee range from 1 to 5 tons per acre per year.

One acre-inch of soil weighs about 150 tons. At a soil-loss tolerance (T) of 5 tons per acre per year, it would require 30 years to erode 1 acre-inch of soil. However, erosion does not occur at a uniform rate from the top to the bottom of the slope. Since the 5-ton tolerance is an average for the entire slope, this would mean that one part of the slope might be losing 10 tons of soil per acre annually, resulting in a loss of 1 inch in 15 years. And, of course, another part might be losing at the rate of only 2.5 tons per acre per year.

Table 5 in the Appendix gives the soil-loss tolerance values for most Tennessee soils. Two values are given for most soil types depending on the degree of existing erosion in the field. Table 5 also lists the calculated T/K values by soil types and degree of erosion. The need for a ready reference of these values is explained in the next section.

USING THE EQUATION

 $U\,$ se of the soil-loss predicting equation can best be explained by considering the following example:

Assume a field in Maury County, Tennessee which consists of a Maury silty clay loam soil moderately eroded on an 8% slope that is 300 feet long.

The cropping-management of recent years has been a 3-year cycle of corn-wheat-meadow; an average production of 60 bushels of corn per acre (residue left on the field), and 1-2 tons of hay has been realized. Straight-row cultivation up and down the slope has been practiced.

To develop information on soil losses, first write down the equation (Page 2) A = RKLSCP. Then assign values to the factors RKLS as given for the field above:

R = 240 (See Table 4, Appendix, and Figure 2, page 11) K = 0.34 (See Table 5 alphabetical listing) LS = 1.7 (See Figure 6) Multiplying these factors together gives a value of 138.7 tons of soil which would erode from this field if it were tilled continuous fallow. But the field as cropped and managed has a C-factor value of .079 (See Table 6b, Appendix) which means that the expected erosion would be only 7.9% of the 138.7 tons or 11 tons per acre per year.

Since the cultivation has been up and down the slope, the practice factor value for this initial calculation would be 1 and would not change the calculated soil loss.

Now check to see what the soil-loss tolerance (T) is for moderately eroded (2 erosion) Maury soil (See Table 5 Appendix alphabetical listing). You will note that T = 4 tons per acre per year. However, the calculated soil loss for the recently followed cropping-management with up and down hill tillage gives an annual soil loss of 11 tons per acre. The problem now is to find a management system that will reduce the expected annual soil loss to 4 tons per acre or less.

To explore the possible alternatives, calculate the effect of contour cultivation on the 11 tons per acre soil loss. (See Table 7 Appendix). The P factor for contouring on an 8% slope is 0.60. Thus by using contour cultivation, soil loss should be only 60% of that resulting from up-and-down hill tillage. Multiplying 11 by 0.60 gives 6.6 tons per acre—still more than the established 4-ton tolerance. Further reduction must be accomplished.

Now, check the effect of field stripcropping on the 11 ton-peracre soil loss. The P factor value for field stripcropping on an 8%slope is 0.45 (Table 7 Appendix), or midway between contouring and contour stripcropping. This means that by field stripcropping, soil loss will be 45% of that with up-and-down hill tillage. Eleven times 0.45 gives nearly 5 tons per acre per year. This approaches tolerance but does not quite reduce losses to the 4-ton level.

Next, try contour stripcropping. The P factor value for contour stripcropping on an 8% slope is 0.30 (Table 7 Appendix). Multiply 11.0 x 0.30. This gives an expected average annual soil loss of 3.3 tons per acre per year if contour stripcropping is used—well below the established tolerance for this soil.

It is now known that this farmer can continue to use his present cropping-management and reduce expected soil loss below tolerance if he will practice contour stripcropping. But he may not wish or need to install contour stripcropping. Therefore, other methods of keeping soil losses to realistic levels need to be considered.

Terraces could be constructed on the field. The P factor value for terracing plus contouring on an 8% slope is 0.60 (Table 7 Appendix). But before applying this factor, a new SL factor must be calculated for the slope length of one horizontal terrace spacing on an 8% slope. (See Table 8 Appendix for terrace spacings, which is 56 feet for an 8% slope.) The combined SL value for an 8% slope 56 feet long is 0.7 (Figure 6 Appendix). Substitute this factor in the initial calculation for 1.7. The product of the values for RKLS now is 57.1 tons per acre expected average annual soil loss for this field with an 8%, 56-foot long slope in tilled, continuous fallow. Applying the cropping-management factor—.079 for the 3-year rotation and practice factor of 0.60 (P factor for a terraced, 8% slope)—gives 3.2 tons per acre, the average annual soil loss to be expected from the field if terraced and farmed on the contour.

Next, assume the farmer does not want to install either contour stripcropping or terraces but will practice contour farming. The problem would then become one of selecting a cropping-management system that would limit the expected soil loss within 4 tons per acre per year with contouring. The initial calculation (R times K times LS) times 0.60 (practice factor for contouring on an 8% slope) gives 83.2 tons per acre. This is the expected average annual soil loss from the field when in tilled continuous contour fallow.

To find a cropping-management factor that will reduce the soil loss to 4 tons per acre per year, place the 83.2 value in a proportion as follows: 83.2 : 1.00 = 4:X. Solving this proportion, X = 0.043. This is the maximum value that the C factor can have to give an expected soil loss of 4 tons. To make selections of adequate cropping-management systems, refer to Table 6b Appendix. Note that the systems in this table are arrayed in order of increasing frequency of row crops in the cropping system. Systems 1 through 11 with contouring would result in expected soil losses of less than 4 tons per acre per year. The cropping system listed on line 11, Table 6b, consisting of corn-small grain (residue left), and 4 years of a grass-legume meadow yielding 2-3 tons with the corn crop yielding 70 bushels per acre, can be used. The C factor value for this cropping-management system is .037, and the expected average annual soil loss will be 3.07 tons per acre (83.2 times .037).

Any of the above three management systems will keep expected soil losses within tolerable limits on this field and yet allow the farmer to grow the crops he wishes to grow.

The factors in the equation over which the farmer has some control, such as cropping-management (C) and conservation practice (P), would be easier to handle if considered apart from the other factors in the equation. Various combinations of values for these two factors, C and P, will keep expected soil loss below tolerance limits. The equation can be adapted so that different croppingmanagement systems and conservation practices or combinations of the two can be arrived at more easily.

The fixed factors for a given situation may be easily determined. The rainfall (R) and soil erodibility (K) factors may be found in Tables 4 and 5, Appendix for a given location and soil. Since the length (L) and steepness (S) of slope (except when terraced) may be considered characteristics of the soil, they too may be combined with those factors over which the farmer has no control. The combined value for S and L may be determined from Figure 6, Appendix.

Since the objective is to keep soil losses below tolerance, substitute tolerance (T) for the annual soil loss (A) in the basic equation. This will help in determining the necessary croppingmanagement (C) and conservation practice (P) for a given soil situation.

Dividing both sides of the basic equation (A = RKLSCP) by the factors over which the farmer has no control, RKLS, the equation becomes $\frac{A}{RKLS} = CP$. Substituting T for A as discussed above, the equation is now written $\frac{T}{RKLS} = CP$ or $\frac{1}{R} \times \frac{T}{K} \times \frac{1}{LS} = CP^1$. Solving this equation for any given soil situation, we can determine what combination of C and P that is necessary to keep expected soil loss equal to the tolerance. By equating P to 1, we can determine what value C must have to keep the soil loss equal to tolerance without the bene fit of a conservation practice.

Using the equation in this form, Tables 9-150 through 9-310, Appendix have been developed for each constant R value for intervals of 20. The necessary cropping-management (C) factor values can be found in these tables with or without conservation practices. Calculations were made for slopes ranging from 2% through 12%, and lengths ranging from 100 feet through 400 feet for each $\frac{T}{K}$ value. Straight line interpolations can be made for R and $\frac{T}{K}$ values between those listed. Also, the necessary C value for field

¹ Necessary value to meet soil-loss tolerance (T)

stripcropping can be determined by interpolating between the values given for contouring and contour stripcropping.

To use the tables for the Maury County field described in previous examples, first turn to Tables 9-230 and 9-250, Appendix. Use of both tables will be necessary since there is no table for an R factor of 240—the rainfall factor for Maury County (Table 4, page 34, Appendix). Next refer to Table 5 page 35 and find the T/K value for Maury silty clay loam. This value is 12 for the moderately eroded phase. Now on Table 9-230, find the lines designated 12 under the T/K column.

To determine the C factor value for the 8%, 300-foot slope when contour stripcropped, find the appropriate slope length and percent column and line for the T/K value of 12. From Table 9-230, Appendix, a C value of .100 is listed for this slope length and steepness and on Table 9-250 the C value is .094. By linear interpolation, a cropping-management value of .097 will be necessary to keep annual soil losses equal to the established 4-ton tolerance.

A slide calculator that makes possible rapid calculations of the necessary cropping-management (C) factor value, with or without practices, was developed. Instructions for use of the slide calculator are under the back of the calculator. Also, a number of graphs and curves have been devised for fast solution of the equation.

APPENDIX

COUNTY	R-Factor Values	COUNTY	R-Factor Values
Anderson	190	Lauderdale	280
Bedford	230	Lawrence	270
Benton	230	Lewis	250
Bledsoe	230	Lincoln	250
B!ount	200	Loudon	210
Bradley	260	McMinn	230
Campbell	180	McNairy	310
Cannon	230	Macon	200
Carroll	210	Madison	260
Carter	150	Marion	250
Cheatham	210	Marshall	240
Chester	300	Maury	240
Claiborne	150	Meigs	230
Clay	200	Monroe	220
Cocke	170	Montgomery	200
Coffee	230	Moore	240
Crockett	270	Morgan	200
Cumberland	220	Obion	260
Davidson	210	Overton	210
Decatur	250	Perry	250
eKalb	220	Pickett	200
Dickson	220	Polk	250
yer	260	Putnam	220
ayette	320	Rhea	230
entress	200	Roane	210
ranklin	250	Robertson	200
Gibson	250	Rutherford	230
Giles	260	Scott	180
Grainger	170	Sequatchie	250
Greene	150	Sevier	180
Grundy	240	Shelby	300
lamblen	170	Smith	210
Hamilton	260	Stewart	210
Hancock	150	Sullivan	140
lardeman	320	Sumner	200
Hardin	300	Tipton	300
lawkins	150	Trousdale	210
lavwood	300	Unicoi	150
lenderson	250	Union	170
lenrv	230	Van Buren	230
lickman	230	Warren	230
louston	220	Washington	150
lumphreys	230	Wavne	280
ackson	210	Weakley	250
efferson	180	White	200 201
ohnson	150	Williamson	230
ίποχ	190	Wilson	210
aka	240	1110011	210

Table 4. Rainfall-erosion index factor "R" values by counties—Tennessee

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							1				Erosio	n			
K T			E	rosion		。				1 & 2			3		
Al-coa0.30413310Donerail0.373825Allan0.3241339Dulac0.433725Altavisto0.3241339Dulac0.433725Ansour0.3241339Elk0.433725Armour-ch0.28414311Elliber cherty0.2431339Ashe. Mod.0.3239261311529529Ashe. Mod.0.322814Emory0.284113127Barbourville0.3239266Frankstown,725Bodrer0.3239266673825Bodrer0.3239266673825Bodrer0.323926667255Bodrer0.323926667255Bodrer0.32392666725551225512255121128 <td< th=""><th></th><th>1</th><th>& 2</th><th>TV</th><th><u>т</u></th><th><u>з</u> т/к</th><th>-</th><th></th><th>К</th><th>Т</th><th>т/к</th><th>т</th><th>Т/1</th><th>¢</th></td<>		1	& 2	TV	<u>т</u>	<u>з</u> т/к	-		К	Т	т/к	т	Т/1	¢	
		ĸ	I	1/N	1				0.07	3	8	2	5		
Alban 0.32 4 13 3 9 Dowellion 0.43 2 5 1 2 Alavisa 0.32 4 13 3 9 Dunore 0.43 3 7 2 5 Armour 0.32 4 13 3 9 Elike 0.32 4 13 3 9 Armour-6 0.43 2 5 1 2 5 1 2 5 Armour-6 0.43 2 5 1 2 5 1 2 5 Ashe. 0.43 2 5 1 2 5 13 3 9 2 Ashe. Mod. 0.44 17 3 12 5 7 2 5 2 5 Barbourville 0.32 3 9 2 6 Freelond 0.37 3 8 2 5 Barbourville 0.32 3 7 2 5 5 5 1 2 6 <	- 100 - 100	0.30	4	13	3	10	C)onerail	0.37	2	4	ĩ	2		
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	Altevisto	0.32	4	13	3	9		Dulac	0.43	3	7	2	5		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Andrison	0.37	3	8	2	5		Junmore	0.32	4	13	3	9		
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	Ashburn	0.32	3	9	2	6	· 1 '	Eliueis	0.32	4	13	3	9	?	
Shallow0.242814Losis0.433725Ashwood0.28414311Fannin0.373825Barbourville0.28414311Frankstown,7gr.0.323926Fansiown,7Baxter0.323926Fulleron0.323926Bedford0.374113725Fulleron-0.2831127Bende0.4325122Greenada0.433725Bodine0.432512Greenada0.433725Bodino0.432512Gueroscio0.433725Brandon0.373825Hagestown0.323926Bradon0.323926Hampshire0.423725Callowy0.433725Hagestown0.32261339Camp0.324133926Harpshire0.423725Callowy0.433 <td< td=""><td>Ashe Mod.</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ellowan</td><td>0.17</td><td>5</td><td>29</td><td>5</td><td>29</td><td>7</td></td<>	Ashe Mod.							Ellowan	0.17	5	29	5	29	7	
Ashwood 0.32 2 6 1 3 11 12 7 Barbourville 0.28 4 17 3 11 2 7 Baxter ch 0.32 3 9 2 6 6 $cherty$ 0.28 3 11 2 7 Baxter ch 0.32 3 9 2 6 $cherty$ 0.28 3 11 2 7 Bedford 0.43 3 7 2 5 1 2 6 $cherty$ 0.28 3 11 2 8 Band 0.43 2 5 1 2 6 $chenoda$ 0.43 3 7 2 5 Bolino 0.34 4 12 3 9 2 6 $Greenoda$ 0.43 3 7 2 5 Bodine ch 0.43 2 5 1 2 $Greenoda$ 0.32 3 9 2 6 Brandon 0.37 3 8 2 5 1 2 $Halgevood$ 0.32 3 7 2 5 Brotitoin 0.32 3 7 2 4 $Haltheie$ 0.43 3 7 2 5 Brandon 9 0.32 4 13 3 9 2 6 $Harsells$ 0.28 4 14 3 11 Calboary 0.43 3 7 2 4 $Harsells$ 0.28 4 <td>Shallow</td> <td>0.24</td> <td>2</td> <td>8</td> <td>1</td> <td>4</td> <td></td> <td>Eannin</td> <td>0.43</td> <td>3</td> <td>7</td> <td>· 2</td> <td>-</td> <td>5</td>	Shallow	0.24	2	8	1	4		Eannin	0.43	3	7	· 2	-	5	
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$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c}$	Barbourville	0.28	4	14	3	11		Frankstown						_	
Baxter ch0.323926FreeInd0.373825Baxter0.323926FreeInd0.323926Baxter0.433725FreeInd0.323926Bedford0.433725FreeInd0.323926Bolton0.3441239Greendale0.28414311Bland0.373825FreeInd0.1721216Borndon0.373825Hagerstown0.323926Brandon gr0.323926Hampshire0.423725Brandon gr0.323926Hampshire0.423725Brandon gr0.323926Hampshire0.423725Brandon gr0.3241339Hector0.322613Calloway0.433725Hagyter0.3241339Captina0.433725Hicks0.3241339Captina0.373825Hicks0.32<	" gr.	0.24	4	17	3	14		cherty	0.28	3	1.	12		7	
Boxter0.323926Inclusion0.323926Bedford0.433725127610.2831137Bendeyville0.374113777660.28414311Bind0.43251276Greendale0.433725Bolton0.34412392613725Brandon0.32261337256Brandon gr0.3239266Hampshire0.423725Brandon gr0.3239266Hampshire0.423725Brandon gr0.3239266Hampshire0.423725Bratton0.423725Hatyter0.3241311Calloway0.433725Hatyter0.3241339Caphao0.433725Hicks0.373825Caphao0.433725Hicks0.373825Caphao0.	Baxter ch	0.32	3	9	2	. (Freeland	0.37	3	. 8	32	2	5	
Bedford0.433/23Interpretation0.2831128Bewleyville0.374113725Greendale0.28414311Bland0.4325122Greendale0.28414311Boliton0.3441239Groseclose0.433725Bolton0.344123926Guin0.1721216Boradon0.373825124Hagerstown0.323926Brandon0.323926Hampshire0.423725Brandon0.323926Hampshire0.423725Brandon0.323926Hatsells0.2431328Calloway0.433725Hactor0.3241311Calloway0.433725Hector0.3241339Capshaw0.433725Hicks0.373825Capshaw0.433725Hicks0.373825Capla0.32<	Baxter	0.32	3	9	2		5	Fullerton	0.32	3		9 2	2	6	
	Bedford	0.43	3	7				" ch	0.28	3	3 1	1 2	2	8	
	Bewleyville	0.37	4	11		5	21	Greendale	0.28	4	L 1	4 3	3 1	1	
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Botton0.34412512Botton0.432512Brandon0.373825Brandon0.322613Brandon0.323926Brandon0.323926Brandon0.323926Bratton0.423724Brittain0.423724Hattein0.432512Brittain0.432512Calloway0.433725Captina0.433725Captina0.433725Captina0.433725Captor0.3241339Chilbowie0.322613Captor0.3241339Chilbowie0.322613Captor0.3241339Chilbowie0.322613Captor0.3241339Captor0.3241339Captor0.3241339Captor0.3241339Captor0.3241337<	Bodine ch	0.24	2	8		1	1	Groseclose	0.43	:	3	7	2	5	
Boswell 0.43 2 5 1 2 2 1 3 3 9 2 6 Brandon 0.32 2 6 1 3 3 9 2 6 Brandon 0.32 3 9 2 6 1 3 1 1 3 9 2 6 Braxton 0.32 3 9 2 6 1 <td>Bolton</td> <td>0.34</td> <td>4</td> <td>. 12</td> <td></td> <td>3</td> <td>2</td> <td>Guin</td> <td>0.17</td> <td>:</td> <td>21</td> <td>2</td> <td>1</td> <td>6</td>	Bolton	0.34	4	. 12		3	2	Guin	0.17	:	21	2	1	6	
Brandon 0.37 3 8 2 3 Halewood 0.32 3 9 2 6 Brandon gr 0.32 3 9 2 6 1 3 1 1 3 7 2 5 Braxton 0.32 3 9 2 6 1 3 7 2 5 Braxton 0.32 3 9 2 6 1 3 7 2 5 Brittain 0.42 3 7 2 4 1 1 3 2 5 Calloway 0.43 2 5 1 2 2 4 13 3 9 Capshaw 0.43 3 7 2 5 5 1 2 1 1 Caplan 0.43 3 7 2 5 5 1 2 1 3 Caplar 0.43 3 7 2 5 5 1 2 1 3 Caplar 0.43 3 7 2 5 1 1 1 3 9 Caylor 0.32 4 13 3 9 1 1 1 3 9 Caylor 0.32 2 6 1 3 3 9 1 1 1 3 9 Charlor 0.32 2 6 1 3 3 7 2 5 Caylor 0.37 3 </td <td>Boswell</td> <td>0.43</td> <td>2</td> <td>2 5</td> <td></td> <td>1</td> <td>2</td> <td>Hagerstown</td> <td>0.32</td> <td></td> <td>4 1</td> <td>3</td> <td>3</td> <td>9</td>	Boswell	0.43	2	2 5		1	2	Hagerstown	0.32		4 1	3	3	9	
Brandon gr 0.32 2 2 6 1 3 Hampshire 0.42 3 7 2 5 Braxton 0.32 3 9 2 6 Hampshire 0.42 3 13 2 8 Brittain 0.42 3 7 2 4 Hatchie 0.43 2 5 1 2 Brittain 0.42 3 7 2 5 Hampshire 0.28 4 14 3 11 Calloway 0.43 2 5 1 2 4 Hatchie 0.32 2 6 1 3 Capshaw 0.43 3 7 2 5 Hernitage 0.34 4 12 3 9 Capton 0.32 4 13 3 9 Holtson sil 0.32 4 13 3 9 Caylor 0.32 2 6 1 3 9 Holtson sil 0.32 4 13 3 9 Chandler shallow 0.32 2 6 1 3 1 1 13 3 9 Chandler shallow 0.32 2 6 1 3 1 1 13 3 9 Chandler shallow 0.32 2 6 1 3 1 1 1 14 3 11 Chandler shallow 0.32 2 5 1 2 1 14 3 7 2 <td>Brandon</td> <td>0.37</td> <td>3</td> <td>38</td> <td></td> <td>2</td> <td>2</td> <td>Halewood</td> <td>0.32</td> <td></td> <td>3</td> <td>9</td> <td>2</td> <td>6</td>	Brandon	0.37	3	38		2	2	Halewood	0.32		3	9	2	6	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Brandon ar	0.32	2	26			3	Hampshire	0.42	2	3	7	2	5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Braxton	0.32	:	3 9		2	o ∡	Hartsells	0.24	Ļ	3	13	2	8	
Brittain 0.42 3 7 2 4 Hayter 0.28 4 14 3 11 Calloway 0.32 4 13 3 9 Hayter 0.32 2 6 1 3 Camp 0.32 4 13 3 9 Hermitage 0.34 4 12 3 9 Captina 0.43 3 7 2 5 Hicks 0.37 3 8 2 5 Captina 0.43 3 7 2 5 Hikwasse 0.32 4 13 3 9 Caylor 0.32 4 13 3 9 Holston sil 0.32 4 13 3 9 Caylor 0.32 2 6 1 3 1 1 13 3 9 Chandler shallow 0.32 2 6 1 3 1 1 13 3 9 Chandler shallow 0.32 2 6 1 3 1 1 1 11 3 9 Chandler shallow 0.32 2 6 1 3 11 11 3 9 Chandler shallow 0.32 4 13 3 9 1 11 3 11 11 3 Chandler shallow 0.32 4 13 3 9 13 3 7 2 5 Claiborne 0.32 4 13 3 </td <td>" ch</td> <td>0.32</td> <td></td> <td>3 5</td> <td>,</td> <td>2</td> <td>4</td> <td>Hatchie</td> <td>0.43</td> <td>3</td> <td>2</td> <td>5</td> <td>1</td> <td>2</td>	" ch	0.32		3 5	,	2	4	Hatchie	0.43	3	2	5	1	2	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Brittain	0.42		3 /	_	2	2	Havter	0.28	3	4	14	3	11	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Calloway	0.43		2	2	2	2 0	Hector	0.32	2	2	6	1	3	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Camp	0.32		4 1	5	3	5	Hermitage	0.34	4	4	12	3	9	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Capshaw	0.43	5	3	<u>_</u>	2	5	Hicks	0.3	7	3	8	2	5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Captina	0.43	3	3	/	2	5	Hiwassee	0.3	2	4	13	3	9	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	" cherty	y 0.37	7	3	8	2	0	Holston sil	0.3	2	4	13	3	.9	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Caylor	0.32	2	4 1	3	3	5	" si	0.2	8	4	14	3	10	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Center	0.37	7	3	8	1	3	Humphreys	0.3	2	4	13	3	, 9	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Chandler shall	low 0.3	2	2	°,	1	3	" ch	0.2	28	4	14	3	11	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Chilhowie	0.3	2	2	0	2	5	Inman	0.4	13	3	7	2	5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Christian sil	0.3	7	3	0	2	5	Jefferson	0.2	28	4	14	5	11	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	'' sì	0.3	7	3	0	2	9	Johnsburg	0.4	43	3	7	2	00	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Claiborne	0.3	2	4	13	2	8	Lakeland	0.1	17	5	29	5	29	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Clarksville	0.2	.4	3	13	3	9	Landisburg	0.4	43	3	/	2	5	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Clifton	0.3	52	4	5	ĩ	2	lax	0.3	37	3	8	2	5	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Colbert	0.4	13	4	õ	3	7	Leadvale	0.	43	3	~	2 0	4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Conasauga	0.4	13	4	, 8	2	5	Lehew	0.	32	3	9	2	5	
Crider 0.37 4 11 2 7 Crossville 0.24 2 8 1 4 Linker 0.28 3 11 2 7 Culleoka 0.28 3 11 2 7 Lintonia 0.37 4 11 3 8 Culleoka 0.22 3 14 2 9 Litz sil. 0.32 3 9 2 6 Culleoka flag 0.32 4 13 3 9 Loring 0.37 4 11 3 8 Culbeoka flag 0.32 4 13 3 9 Loring 0.37 3 8 2 5 Cuthbert 0.43 2 5 1 2 Luverne 0.37 3 8 2 5 Cuthbert 0.43 2 5 1 2 Magnolia 0.32 4 14 3 11 Decatur 0.32 3 9 2 6 Masada 0.34 </td <td>Cookeville</td> <td>0</td> <td>5/ 7</td> <td>4</td> <td>ň</td> <td>3</td> <td>8</td> <td>Lexington</td> <td>0.</td> <td>37</td> <td>3</td> <td>,0</td> <td>2</td> <td>7</td>	Cookeville	0	5/ 7	4	ň	3	8	Lexington	0.	37	3	,0	2	7	
Crossville 0.24 2 0 7 Lintonia 0.37 4 11 3 5 Culleoka 0.28 3 14 2 9 Litz sil. 0.32 3 9 2 6 Culleoka 0.32 4 13 3 9 Loring 0.37 4 11 3 8 Cumberland 0.32 4 13 3 9 Loring 0.37 4 11 3 8 Cumberland 0.32 4 13 3 9 2 6 Magnolia 0.32 4 13 3 9 Dandridge 0.32 3 9 2 6 Masnolia 0.32 4 13 3 9 Dectaur 0.32 3 9 2 6 Masnol 0.34 3 9 2 6 Dellrose 0.20 4 20 3 15 Masada 0.34 3 9 2 6 Dewey 0.32 3 </td <td>Crider</td> <td>0</td> <td>3/ D 4</td> <td>2</td> <td>8</td> <td>1</td> <td>4</td> <td>Linker</td> <td>0.</td> <td>28</td> <td>3</td> <td>11</td> <td>2</td> <td>, 8</td>	Crider	0	3/ D 4	2	8	1	4	Linker	0.	28	3	11	2	, 8	
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Culleoka flag 0.22 3 13 3 9 Loring 0.37 4 11 3 5 Cumberland 0.32 4 13 3 9 Luverne 0.37 3 8 2 5 Cuthbert 0.43 2 5 1 2 Luverne 0.37 3 8 2 5 Dandridge 0.32 3 9 2 6 Magnolia 0.32 4 13 3 9 Decatur 0.32 3 9 2 6 Mase 0.28 4 14 3 11 Decatur 0.32 3 9 2 6 Mased 0.34 3 9 2 6 Dellrose 0.20 4 20 3 15 Masada 0.32 4 12 3 9 Dewey 0.32 3 9 2 6 Matry 0.32 4 13 3 5 Dexter 0.37 3 8 <t< td=""><td>Culleoka</td><td>0.</td><td>28</td><td>3</td><td>14</td><td>2</td><td>9</td><td>Litz sil.</td><td>0.</td><td>.32</td><td>3</td><td>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td><td>2</td><td>0 8</td></t<>	Culleoka	0.	28	3	14	2	9	Litz sil.	0.	.32	3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2	0 8	
Cumberland 0.32 4 15 1 2 Luverne 0.37 3 8 2 5 Cuthbert 0.43 2 5 1 2 Magnolia 0.37 3 8 2 5 3 9 2 6 Magnolia 0.32 4 13 3 9 2 6 Manse 0.28 4 14 3 11 Decatur 0.32 3 9 2 6 Manse 0.34 3 9 2 6 Dellrose 0.20 4 20 3 15 Mosada 0.34 3 9 2 6 Dewey 0.32 3 9 2 6 Maury 0.32 4 12 3 9 Dexter 0.37 4 11 3 8 Mothey 0.32 4 13 3 9 Dexter 0.37 3 7 2 4 McAfee 0.37 3 8 1 3	Culleoka fla	g 0.	22	4	13	3	9	Loring	0	.37	4	11	ა ი	5	
Cuthbert U.4.5 Z G Magnolia 0.32 4 13 3 7 Dandridge 0.32 3 9 2 6 Manse 0.28 4 14 3 11 Decatur 0.32 3 9 2 6 Mased 0.34 3 9 2 6 Dellrose 0.20 4 20 3 15 Masada 0.34 3 9 2 6 Dellrose 0.20 4 20 3 15 Masada 0.34 3 9 2 6 Dewey 0.32 3 9 2 6 Maury 0.32 4 12 3 9 Dexter 0.37 4 11 3 8 Motney 0.32 4 13 3 9 Dexter 0.37 3 7 2 4 McAfee 0.37 3 8	Cumberland	0.	12	2	5	1	2	Luverne	0	.37	3	0	2	0	
Dandridge 0.32 3 9 2 6 Manse 0.28 4 14 3 11 Decatur 0.32 3 9 2 6 Mased 0.34 3 9 2 6 Dellrose 0.20 4 20 3 15 Masada 0.34 3 9 2 6 Dellrose 0.20 4 20 3 15 Masada 0.32 4 12 3 9 Dewey 0.32 3 9 2 6 Matney 0.32 4 13 3 9 Dexter 0.37 4 11 3 8 Matney 0.32 4 13 3 9	Cuthbert	0.	43	∡ 3	9	2	6	Magnolia	0	.32	4	13	ა ი	11	
Decatur 0.32 3 7 2 Masada 0.34 3 9 2 o Dellrose 0.20 4 20 3 15 Masada 0.34 3 9 2 o Dellrose 0.20 4 20 3 15 Maury 0.32 4 12 3 9 Dewey 0.32 3 9 2 6 Matry 0.32 4 13 3 9 Dexter 0.37 4 11 3 8 Mathey 0.32 4 13 3 9 Dexter 0.42 3 7 2 4 McAfee 0.37 3 8 1 3	Dandridge	0.	.3Z	2	ó	2	6	Manse	0	.28	4	14	ა ი	11	
Dellrose 0.20 4 20 7 6 Maury 0.32 4 12 3 9 Dewey 0.32 3 9 2 6 Maury 0.32 4 13 3 9 Dewey 0.37 4 11 3 8 Matney 0.32 4 13 3 9 Dexter 0.37 3 7 2 4 McAfee 0.37 3 8 1 3	Decatur	0	.32	3	20	3	15	Masada	C).34	3	, 9	2	- C	
Dewey 0.32 3 7 2 4 13 3 9 Dexter 0.37 4 11 3 8 Matney 0.32 4 13 3 9 Dexter 0.37 3 7 2 4 McAfee 0.37 3 8 1 3	Dellrose	0	.20	4	0	2	6	Maury	C).32	4	12	3	ל י	
Dexter 0.37 4 1 2 4 McAfee 0.37 3 8 1 3	Dewey	0	.32	3	ú	3	8	3 Matney	C).32	4	13	3		
	Dexter	0	.3/	4	7	2	4	t McAfee	(0.37	3	0)	•	

Table 5. Soil-erodibility factor (K) values, soil loss tolerance (T) values, and T/K values by soils and erosion class—Tennessee

See footnote at end of table.

Dickson

0.43

			Erosion						Erosion		
		1 &	2		3			1&2	2		3
	К	Т	T/K	T	T/K		к	T	T/K	т	T/K
Memphis	0.37	5	14	5	14	Ruston fsl.	0.28	4	14	3	11
Mercer	0.43	3	7	2	5	Saffell	0.20	4	20	3	15
Mimosa	0.43	2	5	1	2	Sango	0.43	3	7	2	5
Minvale	0.32	4	13	3	9	Savannah fsl.	0.37	3	8	2	5
Minvale ch	0.28	3	11	2	7	Sequatchie	0.28	4	14	3	11
Mobely	0.43	3	7	2	5	Sequoia	0.43	3	7	2	5
Mononaahela	0.43	3	7	2	5	Shouns	0.28	4	14	3	11
Montevallo	0.32	2	6	1	3	Shubuta	0.43	2	5	1	2
Mountview	0.37	3	8	2	5	Silerton	0.42	3	7	2	4
Muse	0.32	3	9	2	6	State	0.28	4	14	3	11
Muskingum	0.28	3	11	2	7	Steekee	0.37	2	5	1	3
Needmore	0.43	3	7	2	5	Sulphura	0.32	2	6	1	3
Neubert	0.28	4	14	3	11	Sumter	0.49	2	4	1	2
Nolichucky	0.28	3	11	2	7	Susquehanna	0.49	2	4	1	2
Oktibbeha	0.43	2	5	1	2	Swaim	0,43	2	5	1	2
Olivier	0.42	2	5	1	2	Talbott	0.43	2	5	1	2
Ora	0.32	3	9	2	6	Talladaga	0.37	2	5	1	3
Orangeburg	0.28	4	14	3	11	Tate	0.28	4	14	3	11
Pace sil.	0.32	3	9	2	6	Teas sil.	0.32	3	9	2	6
" ch	0.32	3	11	2	7	Tellico	0.32	4	13	3	9
Paden	0.43	3	7	2	5	Tickfaw	0.43	2	5	1	2
Pearman	0.43	3	7	2	5	Tilsit	0.43	3	7	2	5
Pembroke	0.32	4	13	3	9	Tippah	0.43	2	5	1	2
Perkinsville	0.28	3	11	2	7	Tupelo	0.43	2	5	1	2
Pickaway	0.43	3	7	2	5	Tusquitee	0.24	4	17	3	12
Pickwick	0.32	4	13	3	9	Tyler	0.43	2	- 5	I	2
Porters	0.24	2	8	1	4	Upshur	0.43	3	7	2	5
Providence	0.37	3	8	2	5	Vaiden	0.43	2	5	1	2
Rabun	0.32	4	13	3	9	Watauga	0.34	4	12	3	9
Ramsev	0.28	2	7	1	4	Waynesboro	0.32	4	13	3	9
Ranaer	0.37	2	5	1	3	Wellston	0.32	4	13	3	9
Richland	0.42	3	7	2	4	Westmoreland	0.37	3	8	2	5
Rockcastle	0.43	2	5	1	2	Wolftever	0.43	3	7	2	5
Russellville	0.37	3	8	2	5	Woolper	0.32	3	9	2	6

Table 5. Soil-erodibility factor (K) values, soil loss tolerance (T) values, and T/K values by soils and erosion class—Tennessee (Continued)

¹ Soil-erodibility factor (K) value applies to all erosion classes.


SOIL LOSS RATIO



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Line	CYCLE	MEADOW Tons	CORN Bu.	AV. ANNUA "C" VALUE
1	Meadow, well established, Grass-leaume	2.5+		.004
2	Meadow, well established, Grass-legume	1-2		.006
3	Meadow, well established, Grass-legume			.010
4	Meadow, Annual lespedeza for seed rd.l.			.010
5	Meadow, Continuous sericea after second year			.010
6	Meadow, renovated 1 in 6 years, turn-plow and fallow (Aug. 1-30)	2.5+		.013
7	Meadow, well established, Red Clover	2		.015
8	Meadow, well established, annual lespedeza, hay or grazed			.020
9	Meadow, well established, sweet clover	2		.025
10	4 Small Grain, rd.l. (early seeded)-M-M-M (gr. leg. seeded after sm. gr. harvest)	1-2	(wh.15+)	.037
11	6 Corn, rd.lsm.gr. (late seeded) rd.lM-M-M-M (ar.lea. meadow seeded after sm.ar. harvest)	2-3	70	.037
12	4 Wheat, rd.l. (late seeded)-M-M-M (gr. leg. seeded after wheat harvest)	1-2	(wh.15+)	.046
13	3 Small Grain, early seeded rd.lM-M (gr. leg. seeded after sm. gr. harvest)	1-2	(wh.15+)	.047
14	4 Wheat, rd.r. (late seeded and overseeded with a. lesp.) -M-M-M (a. lesp.)	1-2	(wh.15+)	.048
15	6 Corn, rd.lsm.gr. (late seeded) rd.lM-M-M- (gr. leg. meadow seeded after sm.gr. harvest)	1-2	60	.051
16	5 Corn, rd.l. sm. gr. (late seeded) rd.lM-M-M (gr. leg. seeded after sm.gr. harvest)	2-3	70	.051
17	3 Corn, (silage)-M-M (early seeded gr. leg.)	2-3	70	.053
18	2 Small Grain, early seeded and overseeded with a.lesp. rd.rM (a.lesp)		(wh.15+)	.053
19	3 Wheat, late seeded and overseeded with a.lesp. rd.rM-M (a.lesp.)	1-2	(wh.15+)	.057
20	3 Wheat, late seeded rd.lM-M (gr.leg. seeded after wheat harvest)	er 1-2	(wh.15+)	.059
21	3 Corn. (silage)-sm.gr. (early seeded) rd.rM	2-3	70	.062

Cropping-management factors (average annual C factor values) Table 6a. for cropping systems in Eastern Tennessee

(gr.leg.) See code to symbols at end of table.

(gr.leg. seeded in sm.gr.) 3 Tobacco, sm.gr. (early seeded and gr. leg.

overseeded) rd.r.-M (gr.leg.)

6 Corn, rd.1.-sm.gr. (late seeded) rd.1.-M-M-M-M

(gr.leg. seeded after sm.gr. harvest)

(gr.leg. seeded after sm.gr. harvest)

5 Corn, rd.l.-sm.gr. (late seeded) rd.l.-M-M-M

(gr.leg. seeded after sm.gr. harvest)

(gr.leg. seeded after sm.gr. harvest) 3 Corn, (silage)-sm.gr. (early seeded) rd.r.-M

(gr.leg. seeded in sm.gr.)

6 Tobacco, sm.gr. (early seeded) rd.r.-M-M-M-M

6 Corn (silage) with W.C.-Corn (silage) -M-M-M-M

3 Corn, (silage)-M-M (early seeded gr.leg.)

(gr.leg. meadow seeded after sm.gr. harvest) 4 Corn, rd.1.-sm.gr. (late seeded) rd.l.-M-M

6 Corn, (silage)-sm.gr.(early seeded) rd.r.-M-M-M-M

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2-3

1-2

2 - 3

2-3

1 - 2

1-2

2-3

1-2

2-3

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067

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.073

Table 6a. Cropping-management factors (average annual C factor values) for cropping systems in Eastern Tennessee (Continued)

Line	CYCLE	MEADOW Tons	CORN Bu.	AV. ANNUAL ''C'' VALUE
		1.2	60	.074
31	6 Corn (silage)-sm.gr. (early seeded) rd.rM-M-W-W- (gr.leg. seeded after sm.gr. harvest)	1-2	(wh.15+)	.075
32	2 Wheat, late seeded and overseeded with thesp. rd.rM (aliesp.)	1.2	60	.077
33	6 Tobacco, sm.gr. (early seeded) rd.rM-M-M-M- (gr.leg. seeded ofter sm.gr. harvest)	2.3	70	.078
34	5 Corn (silage) sm.gr. (early seeded) rd.rM-M- (gr.leg. early seeded following sm.gr. harvest)	1.0	60	.079
35	3 Tobacco, sm.gr. (early seeded and gr.leg. overseeded) r.d.rM (gr.leg.)			
36	3 Corn, rd.l. sm.gr.(late seeded and overseeded in	1-2	60	.079
	spring with red ci.i - Milled ci.i	1-2	40	.081
37 38	3 Corn (silage) -M-M (early seeded grM-M-M 6 Cotton-sm.gr. (late seeded) rd.rM-M-M	2-3	HF	.081
39	(gr.leg. seeded atter sm.gr. narves) 5 Corn, rd.l. sm.gr. (late seeded) rd.lM-M-M	1-2	40	.082
40	(gr.leg. seeded after sm.gr. harvest) 4 Corn, rd.l. sm.gr. (late seeded) rd.lM-M (gr.leg. seeded after sm.gr. harvest)	1-2	60	.082
	6 Corn, (silage)-sm.gr. (early seeded) rd.rM-M-M	-M 1-2	40	.083
42	(gr.leg. seeded after sm.gr. harvest) 1 Small grain, continuous, rd.r. (early seeded) with		(wh.15+	.086
43	a.lesp. overseeded 3 Corn, (silage) sm.gr. {early seeded} rd.rM	1-2	40	.086
44	(gr.leg. seeded in sm.gr.) 6 Corn. (silage) with W.C. Corn (silage)-M-M-M-1	vi 1-2	60	.087
45	(gr.leg.) 5 Corn, (silage)-sm.gr. (early seeded) rd.rM-M-N (ar.leg. early seeded following sm.gr. harvest	1-2	60	.087
46	5 Corn, rd.lM-M-M-M (sericea)	1-2 1-2	40 MF	.089 .093
47	(gr.leg. seeded after sm.gr. harvest) 4 Corn. (silage) -sm.gr. (early seeded) rd.rM-M	2-3	70	.097
49	(gr.leg. early seeded after sm.gr. harvest) 6 Corn. (silage) with W.CCorn (silage)-M-M-M-	M 1-2	40	.098
50	(gr.leg.) 5 Corn, (silage)-sm.gr. (early seeded) rd.rM-M-N (gr.leg. early seeded following sm.gr. harves	A 1-2	40	.099
5	4 Corn, rd.lsm.gr. (late seeded) rd.lM-M	1-2	40	.100
5	(gr.leg. seeded after sm.gr. harvest) 2 4 Tobacco-sm.gr. (early seeded) rd.rM-M	2-3	70	.100
	(gr.leg. seeded after sm.gr, harvest) 3 3 Corn rd.L-sm.gr, (late seeded and overseeded	in 1-2	40	.105
5	spring with red cl.)-M (red cl.) 4 (Corn (silage)-sm.ar. (early seeded) overseede	d 1-2	60	.105
5	with a.lesp. rd.rM-M (a.lesp.) 5 4 Corn, (silage)-sm.gr. (early seeded) rd.rM-M (gr.leg. early seeded after sm.gr. harvest)	1-2	60	.107
	6 4 Corn, (silage) with W.CCorn (silage)-M-M	2-3	70	.108
5	(gr.leg.) 57 4 Corn, rd.!M-M-M (sericea)	1-2	40	.108

Table 6a. Cropping-management factors (average annual C factor values) for cropping systems in Eastern Tennessee (Continued)

Line	CYCLE	MEADOW Tons	CORN Bu.	AV. ANNUAL "C" VALUE
			75	108
58	4 Tobacco, with early seeded W.CTobacco-M-M	3+	/5	.100
	(gr.leg.)	2-3	HF	.110
59	A Tabasso smar (early seeded) rd.rM-M	1-2	60	.112
60	(gr.leg. seeded after sm.gr. harvest)			
	4 Soybeans, rd.lsm.gr. rd.r. (late seeded)-M-M	1-2	60	.114
62	(gr.leg. seeded after sm.gr. harvest) 4 Corn, rd.lsm.gr. (late seeded) overseeded with	1-2	60	.115
43	a.lesp. rd.rM-M (a.lesp.) 8. Cotton- Cotton- sm.gr. rd.r. (late seeded)	2-3	HF	.115
00	-M-M-M-M (gr.leg. seeded after sm.gr. harv	est) 2-3	70	.117
64	4 Tobacco, with early seeded W.C. Tobacco			110
65	4 Corn, (silage)-sm.gr. (early seeded) overseeded with a.lesp. rd.rM-M (a. lesp.)	1-2	45	.118
66	4 Corn, (silage)-sm.gr. (early seeded) rd.rM-M	1-2	40	.122
47	(gr.leg. early seeded after sm.gr. harvest) 4. Sovbeans, rd.lsm.gr. rd.r. (late seeded)-M-M	1-2	40	.125
07	(gr.leg. seeded after sm.gr. harvest)	1-2	60	.126
68	(gr.leg.)		(wh.15+)	.132
69	with a lesp. overseeded		10	120
70	4 Corn, rd.lsm.gr. (late seeded) overseeded with a.lesp. rd.rM-M (a.lesp.)	1-2	40	.152
	3 Corn, (silage)-sm.gr. (early seeded) overseeded	1-2	60	.133
72	with a. lesp. rd. rl-M (a.lesp.) 4 Corn, rd.lCorn, rd.l. with late seeded gr.leg.	1-2	60	.135
	-M-M (gr.leg.)	1-2	60	.136
73	4 Corn, rd.lM-M-M (a.lesp.)	1-2	MF	.137
74	3 Cotton-M-M (gr.leg. spring seeded)	1-2	40	.143
75	4 Corn, (silage) with W.CCorri (silage) with (gr.leg.)	. –		
			(wh.15+	-) .145
76	1 Small grain, continuous, rd.l. (early seeded)	1-2	60	.147
77	3 Corn, rd.lsm.gr. (late seeded) overseeded with			
	a.lesp. rd.rM la.lesp.l	1-2	45	.150
78	4 Corn, rd.1M-M-M (a.lesp.)	1-2	60	.150
79	3 Soybeans, rd.1sm.gr. (late seeded) overseeded			
80	 With a.lesp. ra.r. (all applied overseeded) 3 Corn, (silage)-sm.gr. (early seeded) overseeded with a.lesp. rd.rM (a.lesp.) 	1-2	45	.150
81	3 Soybeans, rd.l. (W.C.)-Soybeans, rd.l. (W.C.)-N	1 2-3	70	.156
	(buttonclover for seed) rd.l.	1-2	MF	.160
82	4 Cotton, -M-M-M (arleg, late seeded)		HF 60 bu	162
83 84	4 Corn, rd.ICorn rd.I. (with late seeded gr.leg.)	1-2	40	.165
85	-M-M (gr.leg.) 3 Corn, rd.lsm.gr. (late seeded) overseeded wit a.lesp. rd.rM (a.lesp.)	h 1-2	40	.170

Table 6a. Cropping-management factors (average annual C factor values) for cropping systems in Eastern Tennessee (Continued)

16 3 Soybeans, rd.L.sm.gr. (lote seeded) overseeded 1-2 40 .173 17 3 Corn, rd.L.M.M (aclesp.) 1.2 60 .175 17 3 Corton, Corton, M.M.M. (sciece) 1.2 60 .179 17 3 Soybeans, rd.L.M.M (aclesp.) rd.r 1.2 60 .179 17 3 Corton, Corn rd.L.M.M (gr.leg. lote seeded) 2.3 MF .186 17 3 Corton, Corn rd.L.M.M (gr.leg. lote seeded) .12 60 .190 18 Corton, rd.L.M.M (aclesp.) 1.2 45 .193 19 3 Corton, rd.L.M.M (aclesp.) 1.2 45 .193 19 3 Corn, rd.L.M.M (aclesp.) 1.2 MF .207 19 2 Corn, rd.L.M.M (aclesp.) 1.2 MF .207 10 2 Corn, rd.L.M.M (aclesp.) 1.2 MF .221 10 2 Corn, rd.L.M.M. (aclesp.) 1.2 MF .222 10 4 Corton, rd.L.M.M. (aclesp.) 1.2 45 .215	Line	CYCLE	MEADOW Tons	CORN Bu.	AV. ANNUAL "C" VALUE
63 3 Soybeans, rd.Lsm.gr. (late seeded) overseeded 1.2 60 1.75 3 Corton, rd.LM.M. (al.esp.) 1.2 60 179 3 Soybeans, rd.LM. M. (latesp.) rd.r 1.2 60 179 3 Soybeans, rd.LM. M. (latesp.) rd.r 1.2 60 179 3 Soybeans, rd.LM. M. (latesp.) rd.r 1.2 60 179 3 Soybeans, rd.LM. M. (latesp.) rd.r 1.2 60 190 4 Cotton, Corn rd.LM. M. (latesp.) 1.2 45 193 3 Corton, rd.LM. M. (latesp.) 1.2 45 193 3 Corton, rd.LM. M. (latesp.) 1.2 45 193 3 Corton, rd.LM. M. (latesp.) 1.2 MF 207 72 Corn, rd.LM. M. (latesp.) 1.2 MF 221 72 Corn, rd.LM. M. (latesp.) 1.2 MF 221 73 Corton, rd.LM. M. (latesp.) 1.2 MF 222 74 Cotton, rd.LM. M. (latesp.)			1.2	40	.173
y 3 Corr, rd.IM.M. (alesp.) 1.2 MF 1.72 8 6 Cotton, Cotton, M.M.M. (alesp.) 1.2 60 1.79 90 4 Cotton, Cotton, M.M. (gr.leg., lote seeded) 2.3 HF 1.86 91 4 Cotton, Corn rd.IM.M (gr.leg., lote seeded) 2.3 HF 1.86 92 2 Corn, rd.IM.M (gr.leg., lote seeded) 1.2 60 1.90 93 3 Cotton, Corn rd.IM.M (gr.leg., lote seeded) 1.2 45 1.93 94 3 Corn, rd.IM.M (alesp.) 1.2 45 1.93 95 3 Soybeans, rd.IM.M (alesp.) 1.2 MF .207 96 3 Cotton, -M.M (alesp.) 1.2 MF .210 97 2 Corn, rd.IM.M (alesp.) 1.2 MF .221 97 2 Corn, rd.IM.M (alesp.) 1.2 MF .222 101 4 Corn, rd.IM.M (gr.leg. spring seeded) 1.2 MF .222	86	3 Soybeans, rd.lsm.gr. (late seeded) overseeded	1-2	60	.175
88 6 Cotton, Cotton, M.M. M. (sericea) 1-2 60 179 93 5 Sopbeans, rd.IM. M. (ajelg. spring seeded) 2-3 HF .186 91 4 Cotton, Corr rd.IM.M. (gr.leg. late seeded) MF 40 bu. .187 92 2 Corn, (slidgel smgr. learly seeded) overseeded 1-2 60 .190 93 3 Cotton, with W.C. Cotton with W.CM-M HF .193 (button clover for seed) rd.I. 1-2 45 .193 94 3 Cotton, rd.IM.M (al.esp.) 1-2 45 .193 95 3 Soybeans, rd.IM.M (al.esp.) 1-2 45 .198 96 3 Cotton, -M-M (al.esp.) 1-2 45 .210 97 2 Corn, rd.IM.M (al.esp.) 1-2 45 .215 97 2 Corn, rd.IM.M (gr.leg, spring seeded) 1-2 45 .221 98 3 Soybeans, rd.I. W.C.D-Soybeans, rd.I. (W.C.J-M 1-2 40 .224 98 4 Cotton, Cotton, M-M (gr.leg, spring seeded) 1-2 40 .224 99 1 Wheat, continuous (late s	87	3 Corn, rd.IM-M (a.lesp.)	1-2	ME	.177
39 3 Soybeans, rd.IM.M (gr.leg. spring seeded) 2-3 HF .186 91 4 Cotton, Corn rd.IM.M (gr.leg. late seeded) 2-3 HF .187 92 2 Corn, Isilagel smar, learly seeded) overseeded 1-2 60 .190 93 3 Cotton, with W.C. Cotton with W.CM-M HF .193 94 3 Corn, rd.IM.M (a.lesp.) 1-2 45 .193 95 3 Soybeans, rd.IM.M (a.lesp.) 1-2 45 .193 96 3 Cotton, -M-M (a.lesp.) 1-2 45 .193 97 2 Corn, rd.IM.M (a.lesp.) 1-2 45 .210 98 3 Soybeans, rd.I. W.M (a.lesp.) 1-2 45 .212 96 3 Cotton, -M-M (a.lesp.) 1-2 MF .207 97 2 Corn, rd.ISmar, Itar seeded) overseeded 1-2 MF .221 98 3 Soybeans, rd.I. (W.C.I-Soybeans, rd.I. (W.C.I-M 1-2 60 .224 104 Corn, rd.IM.M (a.lesp.) 1-2 60 .224 105 4 Corn, rd.IM.M (a.lesp.) 1-2 40 .244 105 </td <td>88</td> <td>6 Cotton, Cotton, -M-M-M-M (sericed)</td> <td>1.2</td> <td>60</td> <td>.179</td>	88	6 Cotton, Cotton, -M-M-M-M (sericed)	1.2	60	.179
4 Cotton, Cotton, M.M. (gr.leg. spring sected) L 0 91 4 Cotton, Corn rd.IM.M (gr.leg. late seeded) MF 40 bu. .187 92 2 Corn, (sliggel sm.gr. (early seeded) overseeded 1-2 60 .190 93 3 Cotton, with W.C. Cotton with W.CM-M HF .193 94 3 Cotton, rd.IM.M (al.esp.) 1-2 45 .193 95 3 Soybeans, rd.I. M.M (al.esp.) 1-2 45 .193 96 3 Cotton, -M-M (al.esp.) 1-2 45 .193 97 2 Corn, rd.IM.M (al.esp.) 1-2 45 .215 98 2 Corn, (sliggel-sm.gr. learly seeded) overseeded with 1-2 45 .2215 99 1 Wheat, continuous (lare seeded) rd.r. (wh.15+) .221 MF .222 101 4 Corn, rd.IM.M (al.esp.) 1-2 60 .224 .234 102 3 Soybeans, rd.I. (W.C.ISoybeans, rd.I. (W.C.IM 1-2 40 .244 <	8 9	3 Soybeans, rd.IM-M (a.lesp.) rd.r	2.3	HF	.186
914Cotton, Corn rd.IM-M (gr.leg. late seeded)MF 40 bu187922 Corn, (sliage) smg.r. (early seeded) overseeded1-260.190933 Cotton, with W.C. Cotton with W.CM-MHF.193943Corn, rd.IM-M (a.lesp.)1-245.193953 Soybeans, rd.IM. (a.lesp.)1-2MF.207963Cotton, -M-M (a.lesp.)1-2MF.207972Corn, rd.I. Smg.r. (late seeded) overseeded with1-260.210983Cotton, -M-M (a.lesp.)1-2MF.207972Corn, (sliage) smg.r. (early seeded) overseeded1-245.215984Cotton, -Cotton, -M-M (gr.leg. spring seeded)1-2MF.222991Wheat, continuous late seeded) rd.r.1-260.224904Corn, rd.ICorn rd.L-M-M (a.lesp.)1-260.224913Soybeans, rd.I. (W.C.I-Soybeans, rd.I, (W.C.I-M)1-240.244923Soybeans, rd.I. (W.C.I-M)1-240.244932Corn, rd.IMA (a.lesp.)1-245.257934Corn, rd.IMA (a.lesp.)1-245.257944Corn, rd.IMA (a.lesp.)1-245.257954Cotton, with W.CCotton with W.CCotton withHF.278963Soybeans, rd.ISoybeans rd.IM (a.lesp.)1-2MF.288	90	4 Cotton, Cotton,-M-M (gr.leg. spring seeded)			
1 2 Corn, Isilagel sm.gr. learly seeded) overseeded 1-2 60 170 with a lesp. rd.r. with W.C. Otton with W.CM-M HF .193 3 Cotton, with W.C. Cotton with W.CM-M HF .193 4 3 Corn, rd.IM.M (a.lesp.) 1-2 45 .198 95 3 Soybeans, rd.IM.M (a.lesp.) 1-2 45 .198 96 3 Cotton, -M.M (a.lesp.) 1-2 MF .207 7 2 Corn, rd.IM.M (a.lesp.) 1-2 45 .215 97 2 Corn, rd.IM.M (a.lesp.) 1-2 MF .221 98 2 Corn, rd.IM.M (a.lesp.) 1-2 MF .221 98 2 Corn, rd.IM.M (a.lesp.) 1-2 40 .234 99 1 Wheat, continuous (late seeded) overseeded with a.lesp. 1-2 40 .244 104 Corn, rd.IM.M (a.lesp.) 1-2 40 .244 .245 .255 105 4	01	4 Cotton Corn rd.lM-M (gr.leg. late seeded)		MF 40 bu.	.187
with a. lesp. 7d.: HF .193 3 3 Corn, rd.IM.M (a.lesp.) 1-2 45 .193 94 3 Corn, rd.IM.M (a.lesp.) 1-2 45 .198 95 3 Soybeans, rd.IM.M (a.lesp.) 1-2 45 .198 96 3 Cotton, rd.I. sm.gr. (late seeded) overseeded with a.lesp. (grazed or hay) 1-2 45 .210 97 2 Corn, (sliage)-sm.gr. (early seeded) overseeded with a.lesp. (grazed or hay) 1-2 45 .215 98 2 Corn, rd.ICorn rd.IM.M (gr.leg. spring seeded) 1-2 MF .222 101 4 Corton, cotton, -M.M (gr.leg. spring seeded) 1-2 40 .234 102 3 Soybeans, rd.ICorn rd.IM.M (a.lesp.) 1-2 40 .244 103 2 Corn, rd.ICorn rd.IM.M (a.lesp.) 1-2 40 .244 103 2 Corn, rd.ICorn rd.IM.M (a.lesp.) 1-2 40 .244 104 4 Corn, rd.ICorn rd.IM.M (a.lesp.) 1-2 40 .244 105 4 Corton, with W.CCotton with W.CCotton with W.CCotton with W.CCotton with W.C	92	2 Corn, (silage) sm.gr. (early seeded) overseeded	1-2	60	.170
32 32 Cotton, With W.C. Cotton With Median Med		with a lesp. ra.r.		HF	.193
Ibition clover for seed form 1-2 4.5 .193 3 Corn, rd.IM-M (a.lesp.) 1-2 4.5 .193 95 3 Soybeans, rd.IM-M (a.lesp.) 1-2 4.5 .193 96 3 Cotton, -M-M (a.lesp.) 1-2 MF .207 7 2 Corn, rd.I. sm.gr. (late seeded) overseeded with a.lesp. (grazed or hay) 1.2 4.5 .215 97 1 Wheat, continuous (late seeded) rd.r. (wh.15++) .221 .222 101 4 Corn, rd.ICorn rd.IM-M (a.lesp.) 1-2 60 .224 102 3 Soybeans, rd.I. (W.C.)-Soybeans, rd.I. (W.C.)-M 1-2 40 .234 102 3 Soybeans, rd.I. (W.C.)-Soybeans, rd.I. (W.C.)-M 1-2 40 .244 a.lesp. (grazed or hay) 1-2 45 .257 103 2 Corn, rd.IGran rd.IM-M (a.lesp.) 1-2 45 .257 104 4 Corn, cortin, A.M. (a.lesp.) 1-2 45 .257 105 4 Corton, Cortin, M-M (a.lesp.) 1-2 60 .300 105	93	3 Cotton, with W.C. Cotton with Mission			
94 3 Corn, rd.IM-M (a.lesp.) 1-2 45 .198 95 3 Soybeans, rd.IM-M (a.lesp.) 1-2 MF .207 96 3 Cotton, -M-M (a.lesp.) 1-2 MF .207 97 2 Corn, rd.I. sm.gr. (late seeded) overseeded with a.lesp. (grazed or hay) 1-2 45 .215 98 2 Corn, rd.I. grazed or hay) 1-2 45 .215 98 2 Corn, rd.I. grazed or hay) 1-2 45 .215 99 1 Wheat, continuous (late seeded) rd.r. (wh.15+1) .221 100 4 Cotton, Cotton, M-M (gr.leg, spring seeded) 1-2 40 .234 101 4 Corn, rd.ICorn rd.IM-M (a.lesp.) 1-2 40 .234 102 3 Soybeans, rd.I. (W.C.)-Soybeans, rd.I. (W.C.)-M 1-2 40 .244 103 2 Corn, rd.IM-M (a.lesp.) 1-2 45 .257 104 4 Corn, rd.IM-M (a.lesp.) 1-2 45 .257 105 4 Cotton, with W.CCotton with W.CCotton with W.CM (buttonclover for seed) rd.I. 1-2 MF .228 105 4 Cotton, Cotton,M-M (a.lesp.)		(button clover for seed) full	1-2	45	.193
95 3 Soybeans, rd.IM-M (d.lesp.) 1.2 MF 207 96 3 Cotton, -M-M (d.lesp.) 1.2 MF 207 97 2 Corn, rd.L. smgr. (late seeded) overseeded with 1.2 60 .210 98 2 Corn, (slidge)-sm.gr. (learly seeded) overseeded 1.2 45 .215 98 2 Corn, (slidge)-sm.gr. (learly seeded) rd.r. (wh.15++) .221 99 4 Cotton, Cotton,-M-M (gr.leg. spring seeded) 1.2 MF .222 101 4 Corn, rd.ICorn rd.IM-M (a.lesp.) 1.2 60 .224 102 3 Soybeans, rd.I. (W.C.)-Soybeans, rd.I. (W.C.)-M 1.2 40 .234 102 1.2 60 .224 .234 103 2 Corn, rd.Ism.gr. (late seeded) overseeded with 12 40 .244 103 2 Corn, rd.ICorn rd.IM-M (a.lesp.) 1.2 45 .257 104 4 Corn, rd.ICorn rd.IM-M (a.lesp.) 1.2 45 .257 105 4 Cotton, Cotton with W.CCotton with HF .278 .278 105 4 Cotton, Cotton, M-M (a.lesp.) 12 MF .299	94	3 Corn, rd.IM-M (d.lesp)	1-2	45	.198
96 3 Cotton, -M-M (a.lesp.) 1-2 MF .207 97 2 Corn, rd.I. sm.gr. (late seeded) overseeded with alesp. igrozed or hay) 1-2 60 .210 98 2 Corn, (sidgel-sm.gr. (early seeded) overseeded identication overseeded in the alesp. rdr. 1.2 45 .215 99 1 Wheat, continuous (late seeded) rdr. (wh.15+) .221 100 4 Corn, rd.ICorn rd.IM-M (a.lesp.) 1-2 60 .224 101 4 Corn, rd.ICorn rd.IM-M (a.lesp.) 1-2 60 .224 102 3 Soybeans, rd.I. (W.C.I-Soybeans, rd.I. (W.C.J-M 1-2 40 .234 103 2 Corn, rd.Isoyn, and (a.lesp.) 1-2 40 .244 103 2 Corn, rd.IM-M (a.lesp.) 1-2 40 .244 103 2 Corn, rd.IM-M (a.lesp.) 1-2 40 .244 104 Corn, rd.IM-M (a.lesp.) 1-2 40 .244 105 4 Cotton, with W.CCotton with early seeded W.C. 75 .335 104 1	95	3 Soybeans, rd.lM-M (d.lesp.)			
96 3 Cotton, -M.M. (al.ep.). 1-2 60 .210 97 2 Corn, rdl. smj. (late seeded) overseeded with al.esp. (grazed or hay) 1-2 45 .215 98 2 Corn, (sliggel-sm.gr. (early seeded) overseeded ind.r. (wh.15+) .221 100 4 Cotton, -Cotton, -M. M (gr.leg. spring seeded) 1-2 MF .222 101 4 Corn, rd.lCorn rd.L-M.M (a.lesp.) 1-2 60 .224 102 3 Soybeans, rd.l. (W.C.J-Soybeans, rd.l. (W.C.J-M 1-2 40 .234 103 2 Corn, rd.lsm.gr. (late seeded) overseeded with al.esp. (grazed or hay) 1-2 40 .244 103 2 Corn, rd.lCorn rd.l-M.M (al.esp.) 1-2 45 .257 104 4 Corn, rd.lCorn rd.l-M.M (al.esp.) 1-2 45 .257 105 4 Corn, rd.lCorn rd.l-M.M (al.esp.) 1-2 45 .257 105 4 Cotton, with W.CCotton with W.CCotton with W.CCotton with W.CCotton with W.CCotton with W.CCotton with W.CCotton, continuous, rd.l. Soybeans rd.lM. (al.esp.) 1-2 MF .299 105 4 Cotton, Cotton, -M.M (al.esp.) 1-2 MF .300 106 1		- O MANA (-l-on)	1-2	MF	.207
972Corn, rd.l. singl. (lule sected order)982Corn, (silage)-sm.gr. (early seeded) overseeded1-245.21591Wheat, continuous (late seeded) rd.r.(wh.15+1).2211004Cotton, -Cotton, -M-M (gr.leg. spring seeded)1-2MF.2221014Corn, rd.lCorn rd.L-M.M (a.lesp.)1-260.2241023Soybeans, rd.l. (W.C.J-Soybeans, rd.l. (W.C.J-M1-240.2341032Corn, rd.lsm.gr. (late seeded) overseeded with1-240.2441044Corn, rd.lCorn rd.L-M.M (a.lesp.)1-245.2571054Corn, rd.lCorn oxith W.CCotton with1-245.2571054Corton, Cotton, with W.CCotton with werly seeded W.C.75.3351061Sudan Millet, or Hybrid Crosses, continuous, rd.r. with early seeded W.C.MF.2281074Corton, Cotton, -M-M (a.lesp.)1-2MF.2991083Soybeans, rd.lSoybeans rd.lM (a.lesp.)1-260.3001101Tobacco, continuous, with early seeded W.C.75.3441111Corn, continuous, rd.l. without W.C. seeding.75.3441123Soybeans, rd.lSoybeans rd.l-M (a.lesp.)1-245.3461131Co	96	3 Cotton, -M-M (d.lesp.)	1-2	60	.210
a.lesp. tgrazed of Hoyr a.lesp. tgrazed of Hoyr 1-2 45 .215 98 2 Corn, fislagel sm.gr. tearly seeded) rd.r. (wh.15+) .221 100 4 Cotton, -Cotton, -M. M (gr.leg. spring seeded) 1-2 MF .222 101 4 Corn, rd.lCorn rd.LM.M (a.lesp.) 1-2 60 .224 102 3 Soybeans, rd.l. (W.C.)-Soybeans, rd.l. (W.C.)-M 1-2 40 .234 103 2 Corn, rd.L-sm.gr. (late seeded) overseeded with 1-2 40 .244 a.lesp. (grazed or hay) 1-2 40 .244 a.lesp. (grazed or hay) 1-2 45 .257 104 4 Corn, rd.LGorn rd.LM.M (a.lesp.) 1-2 45 .257 105 4 Cotton, with W.CCotton with W.CCotton with HF .278 105 4 Cotton, Cort on, -M-M (a.lesp.) 1-2 MF .299 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. MF .288 107 4 Cotton, colton, -M-M (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.lMoybeans rd.lM (a.lesp.) 1-2 60 .300 <t< td=""><td>97</td><td>2 Corn, rd.1. sm.gr. (late seeded) of observer</td><td></td><td></td><td></td></t<>	97	2 Corn, rd.1. sm.gr. (late seeded) of observer			
with a.lesp. rd.r.(wh.15+).22199I Wheat, continuous (late seeded) rd.r.(wh.15+).2221004 Cotton, -Cotton, -M-M (gr.leg. spring seeded)1-2MF.2221014 Corn, rd.lCorn rd.lM-M (a.lesp.)1-260.2241023 Soybeans, rd.l. (W.C.)-Soybeans, rd.l. (W.C.)-M1-240.2341032 Corn, rd.lsm.gr. (late seeded) overseeded with1-240.2441032 Corn, rd.lCorn rd.lM. (a.lesp.)1-245.2571044 Corn, rd.lCorn rd.lM. (a.lesp.)1-245.2571054 Cotton, with W.CCotton with W.CCotton withHF.2781061 Sudan Millet, or Hybrid Crosses, continuous, rd.r.MF.2881074 Cotton, Cotton, -M-M (a.lesp.)1-260.3001083 Soybeans, rd.lSoybeans rd.lM (a.lesp.)1-260.3001091 Corn, (silage) continuous with early seeded W.C.75.3351001 Tobacco, continuous, with early seeded W.C.75.3441123 Soybeans, rd.lSoybeans rd.lM (a.lesp.)1-245.3661131 Corn (silage) continuous with early seeded W.C.75.3441123 Soybeans, rd.l. with late seeded W.C.2-3.75.3761141 Corn, continuous, rd.l. without W.C.2-3.75.3761151 Soybeans, continuous, rd.l. without W.C.2-3.75.3761141 Corn, continuous, rd.l. with late seeded W.C.	98	a.lesp. (grazed of hay) 2 Corn, (silage)-sm.gr. (early seeded) overseeded	1-2	45	.215
99 1 Wheat, continuous llote seeded rd.r. IMIN 19 17 100 4 Cotton, -Cotton, -M-M (gr.leg. spring seeded) 1-2 MF .222 101 4 Corn, rd.LCorn rd.L-M-M (a.lesp.) 1-2 60 .224 101 4 Corn, rd.L-Corn rd.L-M-M (a.lesp.) 1-2 40 .234 102 3 Soybeans, rd.l. (W.C.)-Soybeans, rd.l. (W.C.)-M 1-2 40 .234 103 2 Corn, rd.L-sm.gr. (late seeded) overseeded with 1-2 40 .244 a.lesp. (grazed or hay) 1-2 40 .244 a.lesp. (grazed or hay) 1-2 45 .257 105 4 Corn, rd.L-Corn rd.L-M-M (a.lesp.) 1-2 45 .257 105 4 Corton, with W.CCotton with W.CCotton with W.CCotton with W.CCotton with W.CCotton with W.C. HF .278 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. MF .288 107 4 Cotton, -M-M (a.lesp.) 1-2 60 .300 108 Soybeans, rd.ISoybeans rd.IM (a.lesp.) 1-2 60 .301 109 1 Corn, (sliage) continuous, with early seeded W.C. 75 .334 </td <td>10</td> <td>with a lesp. rd.r.</td> <td></td> <td>luch 15+</td> <td>1 221</td>	10	with a lesp. rd.r.		luch 15+	1 221
100 4 Cotton, -Cotton, -M-M (gr.leg. spring seeded) 1-2 101 1-2 101 101 4 Corn, rd.lCorn rd.L-M-M (a.lesp.) 1-2 40 .234 102 3 Soybeans, rd.l. (W.C.)-Soybeans, rd.l. (W.C.)-M 1-2 40 .234 102 2 Corn, rd.lsm.gr. (late seeded) overseeded with 1-2 40 .234 103 2 Corn, rd.lsm.gr. (late seeded) overseeded with 1-2 40 .244 103 2 Corn, rd.lCorn rd.lM-M (a.lesp.) 1-2 45 .257 104 4 Cotton, with W.CCotton with W.CCotton with HF .278 105 4 Cotton, with W.CCotton with W.CCotton with HF .278 105 4 Cotton, Cotton, -M-M (a.lesp.) 1-2 MF .299 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. MF .288 107 4 Cotton, Cotton, -M-M (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.lSoybeans rd.l-M (a.lesp.) 1-2 60 .300 109 1 Corn, continuous, with early seeded W.C. 75 .344 1101 1 Corn, continuous, rd.l. without W.C. <td>99</td> <td>I Wheat, continuous (late seeded) rd.r.</td> <td>1.0</td> <td>AAE</td> <td>,</td>	99	I Wheat, continuous (late seeded) rd.r.	1.0	AAE	,
101 4 Corn, rd.lCorn rd.lM-M (a.lesp.) 1-2 60 .224 102 3 Soybeans, rd.l. (W.C.ISoybeans, rd.l. (W.C.IM 1-2 40 .234 103 2 Corn, rd.lsm.gr. (late seeded) overseeded with 1-2 40 .244 103 2 Corn, rd.lsm.gr. (late seeded) overseeded with 1-2 40 .244 104 4 Corn, rd.lGorn rd.lM-M (a.lesp.) 1-2 45 .257 105 4 Cotton, with W.CCotton with W.CCotton with HF .278 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. MF .288 107 4 Cotton, Cotton, -M-M (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 60 .300 109 1 Corn, (slidgel continuous with early seeded W.C. 75 .334 110 1 Tobacco, continuous, rd.l. with late seeded W.C. 75 .344 112 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 45 .346 110 1 Corn, continuous, rd.l. with late seeded W.C. 75 .344 112 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.)	100	4 Cotton,-Cotton,-M-M (gr.leg. spring seeded)	1-2		
101 4 Corn, rd.lCorn Id.L. W.C.JSoybeans, rd.l. (W.C.JM 1-2 40 .234 102 3 Soybeans, rd.l. (W.C.JSoybeans, rd.l. (W.C.JM 1-2 40 .244 103 2 Corn, rd.L-sm.gr. (late seeded) overseeded with a.lesp. (grazed or hay) 1-2 45 .257 104 4 Corn, rd.L-Corn rd.L-M-M (a.lesp.) 1-2 45 .257 105 4 Cotton, with W.CCotton with W.CCotton with W.CM (buttonclover for seed) rd.l. HF .278 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. with early seeded W.C. rd.r. MF .288 107 4 Cotton, Cotton, -M-M (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 MF .300 109 1 Corn, (slidge) continuous with early seeded W.C. (sm.gr.) 75 .334 110 1 Tobacco, continuous, rd.l. with late seeded W.C. (sm.gr.) 1-2 45 .346 112 3 Soybeans, rd.lSoybeans rd.l-M (a.lesp.) 1-2 45 .356 113 1 Corn, continuous, rd.l. without W.C. seeding		L C L C L C L C L C L C L C L C L C L C	1-2	60	.224
102 3 Soybeans, rd.i. twi.c. 103 year main full that the seeded overseeded with a lesp. (grazed or hay) 1-2 40 .244 103 2 Corn, rd.lsm.gr. (late seeded) overseeded with a lesp. (grazed or hay) 1-2 45 .257 104 4 Corn, rd.lCorn rd.lM-M (a.lesp.) 1-2 45 .257 105 4 Corn, rd.lCorn rd.lM-M (a.lesp.) 1-2 45 .257 105 4 Corn, rd.lCorn rd.lM-M (a.lesp.) 1-2 45 .278 104 4 Corn, rd.lCorn rd.lM-M (a.lesp.) 1-2 45 .278 105 4 Cotton, with W.CCotton with W.CCotton with W.CCotton with W.CM (buttonclover for seed) rd.l. HF .278 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. MF .288 107 4 Cotton, Cotton, -M-M (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 40 .300 109 1 Corn, (silagel continuous with early seeded W.C. 75 .344 112 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 45 .346 113 1 Corn, continuous, rd.l. with out W.C. seeding 75	101	4 Corn, rall-Corri rall-M-M talloops rd.L (W.C.)-M	1-2	40	.234
1032Corn, rd.LSm.gr. (late seeded) overseeded with a.lesp. (grazed or hay)1-240.2441044Corn, rd.LCorn rd.LM. (a.lesp.)1-245.2571054Cotton, with W.CCotton with W.CCotton with W.C M (buttonclover for seed) rd.l.1-245.2781061Sudan Millet, or Hybrid Crosses, continuous, rd.r. with early seeded W.C. rd.r.MF.2881074Cotton, Cotton, -MM (a.lesp.)1-260.3001083Soybeans, rd.lSoybeans rd.lM (a.lesp.)1-260.3001091Corn, (silagel continuous with early seeded W.C. (sm.gr.)75.3441101Tobacco, continuous, rd.l. with late seeded W.C. (sm.gr.)75.3441123Soybeans, rd.lSoybeans rd.lM (a.lesp.)1-240.3561131Corn, continuous, rd.l. with late seeded W.C. (sm.gr.)2-375.3441141Corn, continuous, rd.l. without W.C. (sm.gr.)2-375.3701151Soybeans, continuous, rd.l. without W.C. and leg. W.C. and 8 tons of manure2-375.3781161Soybeans, continuous, rd.l. with late seeded W.C. (sm.gr.)2-375.3781161Soybeans, continuous, rd.l. with late seeded W.C. (sm.gr.)4-5.455.4361171Tobacco, continuous, with early seeded grain and leg. W.C. and 8 tons of manure2-375.378116 <td< td=""><td>102</td><td>3 Soybeans, rail. (VV.C.1250) Sound, rail</td><td></td><td></td><td></td></td<>	102	3 Soybeans, rail. (VV.C.1250) Sound, rail			
103 2 Corn, rd.ISm.gr. tube seducts of observations allesp. (grazed or hay) 1-2 45 .257 104 4 Corn, rd.ICorn rd.IM-M (allesp.) 1-2 45 .257 105 4 Cotton, with W.CCotton with W.CCotton, with W.C. allogs, continuous, rd.r. MF .288 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. MF .299 107 4 Cotton, Cotton, M-M (allesp.) 1-2 MF .299 108 3 Soybeans, rd.lSoybeans rd.l-M (allesp.) 1-2 60 .300 109 1 Corn, (silagel continuous, with early seeded W.C. 75 .344 110 1 Tobacco, continuous, rd.l. with late seeded W.C. 75 .344 112 3 Soybeans, rd.lSoybeans rd.l-M (allesp.) 1-2 45 .346 113 1 Corn (silagel continuous with early seeded W.C. 2-3 75 .370 114 1 Corn, continuous, rd.l. with out W.C. 2-3 <td></td> <td>(buttonclover for seed) overseeded with</td> <td>1-2</td> <td>40</td> <td>.244</td>		(buttonclover for seed) overseeded with	1-2	40	.244
1044Corn, rd.ICorn rd.IM-M (a.lesp.)1-245.2571054Cotton, with W.CCotton with W.CM (buttonclover for seed) rd.l.HF.2781061Sudan Millet, or Hybrid Crosses, continuous, rd.r. with early seeded W.C. rd.r.MF.2881074Cotton, Cotton, -M-M (a.lesp.)1-2MF.2991083Soybeans, rd.ISoybeans rd.IM (a.lesp.)1-260.3001091Corn, (silage) continuous with early seeded W.C.75.3351101Tobacco, continuous, with early seeded grain and leg. W.C. and 8 tons of manure3+75.3441123Soybeans, rd.ISoybeans rd.IM (a.lesp.)1-245.3461131Corn, continuous with early seeded W.C.75.3561141Corn, continuous rd.I. with late seeded W.C.2-375.3701151Soybeans, continuous, rd.I. with late seeded W.C.2-375.3781161Soybeans, continuous, rd.I. with late seeded W.C.2-375.3781171Tobacco, continuous, with early seeded grain2-345.3951141Cotton, continuous, rd.I. with late seeded W.C.45.4361151Soybeans, continuous, rd.I. with late seeded W.C.45.4361161Soybeans, continuous, with early seeded grain2-345.395	103	2 Corn, rd.Ism.gr. (late seeded) overseeded			
104 4 Corn, rd.1Contron With W.CCotton with W.CCotton with W.CCotton with W.CCotton with W.CM (buttonclover for seed) rd.t. HF .278 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. with early seeded W.C. rd.r. MF .288 107 4 Cotton, Cotton, -M-M (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.1Soybeans rd.1M (a.lesp.) 1-2 60 .300 109 1 Corn, (silagel continuous with early seeded W.C. 75 .335 110 1 Tobacco, continuous, with early seeded grain and leg. W.C. and 8 tons of manure 3+ 75 .344 112 3 Soybeans, rd.1Soybeans rd.1M (a.lesp.) 1-2 45 .346 113 1 Corn, continuous, rd.1. with late seeded W.C. 75 .344 112 3 Soybeans, rd.1Soybeans rd.1M (a.lesp.) 1-2 45 .346 113 1 Corn, continuous rd.1. without W.C. seeding 75 .356 114 1 Corn, continuous, rd.1. with late seeded W.C. 2-3 75 .378 114 1 Corn, continuous, rd.1. with late seeded W.C. 2-3 75 .378 115 1 Soybeans, continuous, rd.1. with late seeded W.C. <td< td=""><td></td><td>a.lesp. (grazed or hay)</td><td>1-2</td><td>45</td><td>.257</td></td<>		a.lesp. (grazed or hay)	1-2	45	.257
105 4 Cotton, with W.CCotton with W.CConton with W.CCotton with early seeded response on the with early seeded W.C. rd.r. MF .288 106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. with early seeded W.C. rd.r. MF .299 107 4 Cotton, Cotton, -M-M (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.ISoybeans rd.IM (a.lesp.) 1-2 60 .300 109 1 Corn, Isilagel continuous with early seeded W.C. 75 .335 110 1 Tobacco, continuous, with early seeded grain and leg. W.C. and 8 tons of manure 3+ 75 .344 112 3 Soybeans, rd.ISoybeans rd.IM (a.lesp.) 1-2 40 .356 111 1 Corn, continuous, rd.I. with late seeded W.C. 75 .344 112 3 Soybeans, rd.ISoybeans rd.IM (a.lesp.) 1-2 45 .346 113 1 Corn (silage) continuous with early seeded W.C. 60 .356 114 1 Corn, continuous, rd.I. without W.C. seeding 75 .378 115 1 Soybeans, continuous, rd.I. with late seeded W.C. 2-3 75 .378 115 1 Soybeans, continuous, rd.I. with late seeded W.C. 2-3 7	104	4 Corn, rd.lCorn ra.lWi-Wi (d.lespin	th	HF	.278
106 1 Sudan Millet, or Hybrid Crosses, continuous, rd.r. with early seeded W.C. rd.r. MF .288 107 4 Cotton, Cotton, -M-M (a.lesp.) 1-2 MF .299 108 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 60 .300 109 1 Corn, (silage) continuous with early seeded W.C. 75 .334 110 1 Tobacco, continuous, with early seeded W.C. 75 .344 123 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 45 .344 112 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 45 .344 112 3 Soybeans, rd.lSoybeans rd.lM (a.lesp.) 1-2 45 .346 113 1 Corn (silage) continuous with early seeded W.C. 75 .356 114 1 Corn, continuous rd.l. without W.C. seeding 75 .370 115 1 Soybeans, continuous, rd.l. with late seeded W.C. 2-3 75 .378 116 1 Soybeans, continuous, rd.l. with late seeded W.C. 2-3 75 .378 115 1 Soybeans, continuous, rd.l. with late seeded W.C. 45 .436 117 1 Tobacco, continuous, with early seed	105	4 Cotton, with W.CCotton with W.CCotton with			
1061Sudan Millet, or Hybrid Crosses, continuous, rd.r. with early seeded W.C. rd.r.MF.2881074Cotton, Cotton, -M-M (a.lesp.)1-2MF.2991083Soybeans, rd.lSoybeans rd.lM (a.lesp.)1-260.3001091Corn, (silage) continuous with early seeded W.C. leg. W.C. and 8 tons of manure75.3351111Corn, continuous, rd.l. with late seeded W.C. (sm.gr.)75.3441123Soybeans, rd.lSoybeans rd.lM (a.lesp.)1-2451131Corn (silage) continuous with early seeded W.C. (sm.gr.)60.3561141Corn (silage) continuous with early seeded W.C. (sm.gr.)1-245.3461131Corn (silage) continuous with early seeded W.C. (sm.gr.)60.3561141Corn, continuous, rd.l. without W.C. seeding and leg. W.C. and 8 tons of manure75.3781151Soybeans, continuous, rd.l. with late seeded W.C. and leg. W.C. and 8 tons of manure2-375.3781151Cotton, continuous, rd.l. with late seeded W.C. (sm.gr.)2-345.3951161Soybeans, continuous, with early seeded grain and leg. W.C. and 8 tons of manureHF.4071181Cotton, continuous, with early seeded W.C. (sm.gr.)45.4361201Cotton, continuous, with late seeded W.C. (sm.gr.)45.436		W.C M Ibuttonclover for seed, full.			
with early seeded W.C. rd.r.1-2MF.2991074 Cotton, Cotton, -M-M (a.lesp.)1-260.3001083 Soybeans, rd.lSoybeans rd.l-M (a.lesp.)1-260.3011091 Corn, (slidge) continuous with early seeded W.C.75.3341101 Tobacco, continuous, with early seeded grain and leg. W.C. and 8 tons of manure3+75.3441111 Corn, continuous, rd.l. with late seeded W.C. (sm.gr.)75.3441123 Soybeans, rd.lSoybeans rd.l-M (a.lesp.)1-245.3461131 Corn (silage) continuous with early seeded W.C. (sm.gr.)60.3561141 Corn, continuous rd.l. without W.C. seeding75.3701151 Soybeans, continuous, rd.l. without W.C.2-375.3781161 Soybeans, continuous, rd.l. with late seeded W.C. and leg. W.C. and 8 tons of manure2-345.3951181 Cotton, continuous, with early seeded grain (sm.gr.)2-345.3451181 Cotton, continuous, with early seeded W.C. (sm.gr.)45.436.4361201 Cotton, continuous, with late seeded W.C.HF.436	106	1 Sudan Millet, or Hybrid Crosses, continuous, rd.	·.	MF	.288
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113 1 Corn, continuous rd.l. without W.C. seeding 75 .356 114 1 Corn, continuous rd.l. without W.C. 2-3 75 .370 115 1 Soybeans, continuous, rd.l. without W.C. 2-3 75 .378 116 1 Soybeans, continuous, rd.l. with late seeded W.C. 2-3 75 .378 117 1 Tobacco, continuous, with early seeded grain 2-3 45 .395 117 1 Tobacco, continuous, with early seeded W.C. HF .407 118 1 Cotton, continuous, rd.l. with late seeded W.C. 45 .436 (sm.gr.) 1 Cotton, continuous, with late seeded W.C. HF .436 120 1 Cotton, continuous, with late seeded W.C. HF .436	112	1 Corp (silgge) continuous with early seeded W.	с.	60	.356
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115 1 Soybeans, continuous, rd.l. with late seeded W.C. 2-3 75 .378 116 1 Soybeans, continuous, rd.l. with late seeded W.C. 2-3 45 .395 117 1 Tobacco, continuous, with early seeded grain 2-3 45 .395 118 1 Cotton, continuous, with early seeded W.C. HF .407 118 1 Cotton, continuous, with early seeded W.C. 45 .436 119 1 Corto, continuous, with late seeded W.C. 45 .436 120 1 Cotton, continuous, with late seeded W.C. HF .436	114	Corri, continuous rd without W.C.	2-3	75	.370
1161Soybeans, continuous, rd.l. with late seeded W.C.2-375.3781171Tobacco, continuous, with early seeded grain2-345.395and leg. W.C. and 8 tons of manureHF.4071181Cotton, continuous, with early seeded W.C.45.4361191Corn, continuous, rd.l. with late seeded W.C.45.4361201Cotton, continuous, with late seeded W.C.HF.436	115	T Soybeans, commoous, ran miles			
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11711 <t< td=""><td>116</td><td>1 Tabasso continuous with early seeded arain</td><td>2-3</td><td>45</td><td>.395</td></t<>	116	1 Tabasso continuous with early seeded arain	2-3	45	.395
1181Cotton, continuous, with early seeded W.C.HF.4071191Corn, continuous, rd.l. with late seeded W.C.45.436(sm.gr.)1Cotton, continuous, with late seeded W.C.HF.436	117	1 Lobacco, commoods, with outry secure grant			
1181 Cotton, continuous, will early second Wile45.4361191 Corn, continuous, rd.l. with late seeded W.C.45.436(sm.gr.)1 Cotton, continuous, with late seeded W.C.HF.436		and leg. w.c. and b fors of manore		HF	.407
119 1 Corn, continuous, rati, with the second trice is second trice. 120 1 Cotton, continuous, with late seeded W.C. HF .436	118	Cotton, continuous, will early seeded WC.		45	.436
(sm.gr.) 120 1 Cotton, continuous, with late seeded W.C. HF .436	119	1 Corn, continuous, rd.1. with falle seeded w.C.			
120 1 Cotton, continuous, with the second trial		(sm.gr.)		HF	.436
	120	1 Cotton, continuous, with the second tree			

Table 6a.Cropping-management factors (average annual C factor values)for cropping systems in Eastern Tennessee (Continued)

Line	CYCLE	MEADOW Tons	CORN Bu.	AV. ANNUAL "C" VALUE
121	 Cotton, continuous, with early seeded W.C. 		MF	.452
122	1 Soybeans, continuous, rd.l. with late seeded W.C.	1-2	45	.469
123	1 Corn, continuous, rd.l. without W.C. seeding		45	.474
124	1 Soybeans, continuous, rd.1. without W.C.	1-2	45	.493
125	1 Cotton, continuous, with late seeded W.C.		MF	.503
126	1 Cotton, continuous, without W.C.		HF	.507
127	1 Cotton, continuous, without W.C.		MF	.565
128	1 Tobacco, continuous, without W.C.	2-3	60	.613
129	 Corn, (silage) continuous without W.C. 		60	.625
130	1 Tobacco, continuous, without W.C.	1-2	40	.665
131	1 Corn, (silage) continuous, without W.C. seeding		40	.677
132	Continuous fallow (2 or more years)			1.000

Code to symbols used

gr. leg.—grass legume mixture; M—meadow used for hay or grazed with residue removed unless otherwise indicated; MF—1 bale or less per acre of lint cotton. HF—more than 1 bale per acre of lint cotton; rd.1—residue left; rd.r.—residue removed; wh—wheat; sm.gr.—small grain; W.C.—winter cover; Early seeded—seeding made by 9/15; Late seeded—seeding made by 10/15.

Table 6b.Cropping-management factors (average annual C factor values)for cropping systems in Western Tennessee

Line	CYCLE	MEADOW Tons	CORN Bu.	AV. ANNUAL "C" VALUE
1	Meadow, well established, Grass-legume	2.5+		.004
2	Meadow, well established, Grass-legume	1-2		.006
3	Meadow, well established, Grass-legume			.010
4	Meadow, well established, a.lesp., for seed rd.l.			.010
5	Meadow, well established, Cont. Sericea after second year			.010
6	Meadow, renovated 1 in 6 years, Turn-plow and fallow (Aug. 1-30)	21/2 +		.013
7	Meadow, well established, Red Clover	2		.015
8	Meadow, well established, a.lesp, hay or grazed			.020
9	Meadow, well established, Sweet Clover	2		.025
10	Small Grain, rd.l. (early seeded) M-M-M	1-2	(wh.15+)	.038
	(gr.leg. seeded after sm.gr. harvest)			
11	6 Corn, rd.lsm.gr. (late seeded) rd.lM-M-M- (gr.leg. meadow after sm.gr. harvest)	2-3	70	.041
12	5 Corn, rd.lsm.gr. (late seeded) rd.lM-M-M (ar.lea. seeded after sm.gr. harvest)	2-3	70	.049
13	3 Small Grain, early seeded rd.lM-M (ar.lea, seeded after sm.ar, harvest)	1-2	(wh.15+)	.049
14	4 Wheat, rd.l. (late seeded)-M-M-M (gr.leg. seeded after wheat harvest)	1-2	(wh.15+)	.051
15	3 Corn, (silage) -M-M (early seeded gr.leg.)	2-3	70	.052
n	1 1 4 . 3 . 6 4 . 1 .			

Table 6b.Cropping-management factors (average annual C factor values)for cropping systems in Western Tennessee (Continued)

Line	CYCLE	MEADO W Tons	CORN Bu.	AV. ANNUAL "C" VALUE
16	6 Corn, rd.lsm.gr. (late seeded) rd.lM-M-M-M (gr.leg. meadow seeded after sm.gr. harvest)	1-2	60	.055
17	4 Wheat, rd.r. (sp.late seeded and overseeded with a.lespl.) -M-M-M (a.lesp.)	1-2	(wh.15+)	.055
18	2 Small Grain (early seeded) overseeded with a.lesp. rd.rM (a.lesp.)		(wh.15+)	.056
19	3 Corn (silage)-sm.gr. (early seeded) rd.rM (ar.lea, seeded in sm.ar.)	2-3	70	.058
20	4 Corn, rd.lsm.gr. (late seeded) rd.lM-M (gr.leg. seeded after sm.gr. harvest)	2-3	70	.060
21	6 Corn, (silage)-sm.gr. (early seeded) rd.rM-M-M-M (gr.leg, seeded after sm.gr. harvest)	2-3	70	.061
22	3 Corn. (silage)-M-M (early seeded ar. leg.)	1-2	60	.062
23	3 Tobacco-sm.gr. (early seeded and gr.leg. overseed rd.rM (gr.leg.)	ied) 2-3	70	.064
24	6 Tobacco -sm.gr. (early seeded) rd.rM-M-M-M (gr.leg. seeded after sm.gr. harvest)	2-3	70	.064
25	3 Corn, (silage)-sm.gr. (early seeded)rd.rM (gr.leg. seeded in sm.gr.)	1-2	60	.065
26	5 Corn, rd.lsm.gr. (late seeded) rd.lM-M-M	1-2	60	.065
27	3 Wheat, rd.r. (late seeded)-overseeded with	1-2	(wh.15+)	.066
28	3 Wheat, rd.lM-M (gr.leg. seeded after wheat harvest)	1-2	(wh.15+)	.066
29	6 Corn, (silage)-sm.gr. (early seeded) rd.rM-M-M- (ar lea, seeded after sm.ar, harvest)	1-2	60	.067
30	6 Corn, rd.lsm.gr. (late seeded) rd.lM-M-M-M (gr.leg. meadow seeded after sm. gr. harvest)	1-2	40	.068
31	6 Corn, (silage) with W.CCorn (silage)-M-M-M-M	2-3	70	.069
32	6 Tobacco-sm.gr. (early seeded) rd.rM-M-M-M (ar.lea, seeded after sm.ar. harvest)	1-2	60	.072
33	5 Corn, (silage)-sm.gr. (early seeded) rd.rM-M-M	2-3	70	.073
34	3 Corn, (silage)-M-M (early seeded gr.leg.)	1-2	40	.075
35	4 Cotton-sm.gr. (late seeded) rd.rM-M-M-M (gr.leg, seeded after sm.gr. harvest)	2-3	HF	.076
36	6 Corn, (silage)-sm.gr. (early seeded) rd.r.	1-2	40	.077
37	3 Corn, rd.Lsm.gr. (late seeded and overseeded in spring with red cl) -M (red cl)	1-2	60	.079
38	 5 Corn, (silage)-sm.gr. (early seeded) rd.r. -M-M-M (gr.leg. early seeded following sm.gr. harvest) 	1-2	60	.079
39	6 Corn, (silage) with W.CCorn (silage)-M-M-M-M	1-2	60	.079
40	3 Corn, (silage)-sm.gr. (early seeded) rd.rM (gr.leg. seeded in sm.gr.)	1-2	40	.080
41	4 Corn, rd.lsm.gr. (late seeded) rd.lM-M (gr.leg. seeded after sm.gr. harvest)	1-2	60	.080

Line	CYCLE	MEADOW Tons	CORN Bu.	AV. ANNUAL "C" VALUE
40	E Corn rd I smar flate seeded) rd I M.M.M.	1-2	40	.080
42	(ar.lea. seeded after sm.ar. harvest)	1 - 2~	10	1000
43	3 Tobacco-sm.gr. learly seeded and gr.leg.	1-2	60	.081
	overseeded) rd.rM (gr.leg.)	1-2	MF	.086
44	(ar. leg. seeded after sm.gr. harvest)			,
45	6 Corn, (silage) with W.CCorn (silage)-M-M-M- (gr.leg.)	1-2	40	.089
46	2 Wheat, (late seeded) overseeded with a.lesp.rd.r. -M (a.lesp.)	1-2	(wh.15+)	.089
47	4 Corn, (silage)-sm.gr. (early seeded) rd.rM-M	2-3	70	.090
49	(gr.leg. early seeded atter sm.gr. harvest)	1-2	60	.092
40	with a.lesp.rd.rM-M (a.lesp.)			
49	5 Corn, rd.lM-M-M (sericea)	1-2	40	.092
50	5 Corn, (silage)-sm.gr. (early seeded) rd.rM-M-M	1-2	40	.092
	gr.leg. early seeded following sm.gr. harvesh			
51	1 Small Grain, continuous, rd.r. early seeded with		(wh.15+)	.092
50	a,lesp. (overseeded) 4. Tobacco.sm.ar. (early seeded) rd.rM-M	2-3	70	.094
52	(gr.leg. seeded after sm.gr. harvest)			
53	4 Corn, (silage)-sm.gr. (early seeded) rd.rM-M	1-2	60	.098
54	(gr.leg. early seeded after sm.gr. harvest)	1-2	40	.099
34	(ar.leg. seeded after sm.gr. harvest)			
55	4 Corn, (silage) with W.CCorn (silage)-M-M(gr.leg.) 2-3	70	.101
56	3 Corn, rd.Lsm.gr. llate seeded and overseeded in	1.2	40	.105
57	4 Corn, (silage)-sm.gr. (early seeded) overseeded	1-2	45	.106
58	4 Tobacco,-sm.gr. (early seeded) rd.rM-M (gr.leg.	1-2	60	.106
59	seeded after sm.gr. harvesti 4. Tobacco, with early seeded W.Ctobacco-M-M	3+	75	.106
07	(gr,leg.)			10/
60	4 Soybeans, rd.1sm.gr. rd.r. (late seeded)- M-M (gr.leg. seeded after sm.gr. harvest)	2-3	60	.106
61	8 Cotton, Cotton-sm.gr. rd.r. (late seeded)	2-3	HF	.111
40	4 Corn rd L-M-M-M (sericea)	1-2	40	.112
63	4 Corn, (silage)-sm.gr. (early seeded) rd.rM-M	1-2	40	.113
	(gr.leg. early seeded after sm.gr. harvest)	0.0	70	112
64	4 Tobacco, with early seeded W.CTobacco	2-3	70	.115
65	3 Corn, (silage)-sm.gr. (early seeded) overseeded	1-2	60	.114
	with a.lesp., rd.rM (a.lesp.)			
	1 Comment late acaded) overseeded with	1.2	60	.114
66	a.lesp., rd.rM-M (a.lesp.)	1-2		••••
67	3 Cotton-M-M (gr.leg. spring seeded)	2-3	HF	.114
68	4 Corn, (silage) with W.CCorn (Silage)-M-M (ar.lea.)	1-2	60	.115

Table 6b.Cropping-management factors (average annual C factor values)for cropping systems in Western Tennessee (Continued)

		MEADOW Tons	CORN Bu.	AV. ANNUAL "C" VALUE
Line	CYCLE			
69	4 Soybeans, rd.lsm.gr. rd.r. (late seeded) -M-M	1-2	40	.118
70	(gr.leg. seeded after sm.gr. harvest) 4 Corn, (silage) with W.CCorn (silage)-M-M	1-2	40	.130
	(gr.leg.)	1-2	40	.134
71	4 Corn, rd.t.sm.gr. (die soldout and a.lesp., rd.rM-M (a.lesp.)	1-2	45	.135
72	3 Corn, tsilager smight tours of the seeded gr.leg.)	1-2	60	.138
73	-M.M. (gr.leg.)	1.0	ME	.138
74 75	3 Cotton, -M-M (gr.leg. spring seeded) 3 Corn, rd.lsm.gr. (late seeded) overseeded with	1-2	60	.145
	a.lesp., fa.tiwi (a.lesp),	1.2	60	.145
76 77	4 Corn, rd.lM-M-M (a.lesp.) 3 Soybeans, rd.l. (W.C.)-soybeans, rd.l. (W.C.)-M	2-3	70	.146
78	(button clover for seed) rd.l. 3 Soybeans, rd.lsm.gr. (late seeded) overseeded	1-2	60	.148
79	with a.lesp., rd.rM (a.lesp.) 1 Small Grain continuous, early seeded, rd.l.	1-2	(wh.15+ 45) .158 .160
80 	4 Corn, rd.lM-Million (d.lesp.) 4 Cotton-Corn rd.lM-M (gr.leg. late seeded)	th	HF 60 bu. (wh.15+)	.160 .160
82	1 Wheat, continuous, rd.r. Wheat take second a. a.lesp. overseeded	1-2	60	.166
83	2 Corn, Islager-shingt, terry sectors with a lesp, rd.r.	1-2	40	.167
84	- M-M (gr.leg.)	1-2	MF	.168
85	2 Sachages rd Lism gr. (late seeded) overseeded	1-2	40	.168
86	with a lesp. rd.rM (a.lesp.)	1-2	40	.172
07	a.lesp. rd.rM (a.lesp.)		MF	.178
88	6 Cotton-Cotton-M-M-M (sericed)	ion	HF	.179
89	4 Cotton with W.CCotton marked clover for seed) rd.l. 2 Soubcase rd I-M-M (a.lesp.)	1-2	60	.184
		1-2	60	.186
91	3 Corn, rd.IM-M (a.lesp.)	2-3	HF	.186
92	2 4 Cotton-Cotton-M-M (gr.leg, spring seeded)		MF 40 b	U186 103
93	4 Cotton-Corn rall-ivi (gridge tele overseede	d 1-2	45	.175
9,	with a lesp, rd.r.	1-2	45	.204
9.	5 3 Soybeans, ra.iM-M Raiospin	12	45	.207
9	6 3 Corn, rd.lM-M (a.lesp.) 7 2 Corn, rd.lsm.gr. (late seeded) overseeded wi	ith 1-2	60	.208
,	a.lesp. (grazed or hay)	1-2	MF	.217
5	8 3 Cotton-M-M (a.lesp.)	1-2	MF	.220
9 10	 4 Cotton-Cotton-IVI-WI (gr.leg. spring document) 3 Soybeans, rd.l. (W.C.)-Soybeans, rd.l. (W.C.)- (button clover for seed) rd.l. 	M 1-2	40	.220

Table 6b. Cropping-management factors (average annual C factor values) for cropping systems in Western Tennessee (Continued)

Table 6b. Cropping-management factors (average annual C factor values) for cropping systems in Western Tennessee (Continued)

Line	CYCLE	MEADOW Tons	CORN Bu.	AV. ANNUAL "C" VALUE
				_
101] Sudan Millet, or Hybrid Crosses, continuous, rd.r. w	ith early	MF	.228
102	4 Corn rd1-Corn rd.L-M-M (a.lesp.)	1-2	60	.231
102	2 Corn, rd.lsm.gr. (late seeded) overseeded with a less (arazed or hay)	1-2	40	.249
104	4 Cotton with W.CCotton with W.CCotton with W.CM (button clover for seed) rd.l.		HF	.259
105	1 Wheat, continuous (late seeded) rd.l.		(wh.15+)	.260
	4 Comental Comental M M (glesp)	1-2	45	.271
106	Corn, continuous, rd.r. (silage) with early		75	.297
	seeded W.C.		60	.299
108	3 Soybeans, rd.1Soybeans rd.1IVI (d.1esp.)	1-2	MF	.307
109	4 Cotton-Cotton-W-W (d. esp.)	. –	60	.314
110	seeded W.C.			
111	1 Tobacco, continuous, with (early seeded) Sm.gr.	3+	75	.327
112	Corn, continuous, rd.l. with late seeded		75	.334
112	VV.C. (sm.gr.)		75	.350
114	1 Soubeans, continuous, rd.L. without W.C.	2-3	75	.351
115	3 Soybeans, rd.1Soybeans rd.1M (a.lesp.)		45	.353
	1. So have continuous rd I with W C late seeded	2-3	75	.361
118	1 Tobacco, continuous, with early seeded (sm.gr)	2-3	45	.377
110	1 Cotton continuous with early seeded W.C.		HF	.380
110	1 Cotton, continuous, with late seeded W.C.		HF	.413
120	1 Cotton, continuous, with early seeded W.C.		MF	.422
121	1 Corn, continuous, rd.l. with late seeded W.C. (sm.	gr.)	45	.438
122	1 Soybeans, continuous, rd.I. with late seeded W.C.	1-2	45	.402
123	 Cotton, continuous, with late seeded W.C. 		MF	.402
124	1 Corn, continuous, rd.l. without W.C.		45	.407
125	1 Soybeans, continuous, rd.1. without W.C.	1-2	45	.474
126	1 Cotton, continuous, without W.C.		HF	.497
127	1 Cotton, continuous, without W.C.	0.2	۱۷۱۲ ۲۰	.000
128	1 Tobacco, continuous, without W.C.	2-3	6U (0	.000
129	1 Corn, continuous, rd.r. (silage) without W.C.	1.0	60	.005
130	1 Tobacco, continuous, without W.C.	1-2	40	./00
131	1 Corn, continuous, rd.r. (silage) without W.C.		40	.711
132	1 Continuous fallow (2 or more years)			

Code to symbols used

gr.-leg.—grass legume mixture; M—meadow used for hay or grazed with residue removed unless otherwise indicated; MF-1 bale or less per acre of lint cotton. HF—more than 1 bale per acre of lint cotton; rd.l.—residue left; rd.r.—residue removed; sm.gr.—small grain, W.C. winter cover; Early seeded—seeding made by 9/15; Late seeded—seeding made by 10/15. cl. clover; wh—wheat.

ntour ¹ ning or acing ²	Contour stripcropping ¹ (Includes contouring)	Field stripcropping ¹
).60	0.30	0.45
	0.25	0.375
0.50	0.20	0.45
0.60	0.30	0.40
0.80	0.40	0.60
0.00	a 15	0.675
0.90	0.45	
	0.80 0.90	0.80 0.40 0.90 0.45

Table 7. Conservation practice factor (P) values-Tennessee

¹ Slope length for selection of combined SL value for contouring and stripcropping is the field length.

² Slope length for selection of combined SL value for terracing is the recommended horizontal terrace spacing.

Table 8. Spacing of terraces

Average land slope ft. per 100 ft. (%)	Vertical spacing between terraces, ft.	Horizontal spacing between terraces, fi
2		
3	3.0	
4	35	
5	4.0	67
6	4.3	61
7	4.5	
8		

To	ıble	9	1	50
R	Fact	or	15	50

		Ne	with no	"C" valu practice	Jes					Neces	sary "C	" values	with pr	actices			
T/K	Slope %	100/	(000)		400/		Conto (Slope	ouring length)		Cor	ntour st (Slope	ripcropp length)	ing	c	ontouring (Spa	with terrac cings}	es
		100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	Juring with terraces (Spacings) 75' 67' XXX XXXX .158 XXXX XXX .084 XXX XXXX XXX .148 XXX XXXX XXX XXXX	56′
	2	.133	.089	.067	.059	.221	.148	.111	.098	ΧΧΧΧα	.296	.222	.196	.221	XXXX	XXXX	XXXX
	4	.067	.044	.037	.032	.134	.088	.074	.064	.268	.176	.148	.128	XXXX	.158	XXXX	XXXX
4	6	.041	.028	.023	.020	.082	.054	.047	.040	.164	.108	.094	.080	XXXX	XXXX	.084	XXXX
	8	.027	.019	.016	.013	.045	.031	.026	.022	.090	.062	.052	.044	XXXX	XXXX	XXXX	.060
	10	.020	.015	.012	.010	.033	.025	.020	.016	.066	.050	.040	.032	XXXX	XXXX	XXXX	XXXX
	12	.015	.011	.009	.008	.025	.018	.015	.013	.050	.036	.030	.026	XXXX	XXXX	XXXX	XXXX
	2	.200	.133	.100	.090	.333	.221	.166	.150	XXXX	.442	.332	.300	.333	XXXX	XXXX	XXXX
	4	.100	.067	.057	.051	.200	.134	.114	.102	.400	.268	.228	.204	XXXX	.234	XXXX	XXXX
6	6	.057	.042	.034	.030	.114	.084	.068	.060	.228	.168	.136	.120	XXXX	XXXX	.148	XXXX
	8	.040	.028	.024	.020	.066	.046	.040	.033	.132	.092	.080	.066	XXXX	XXXX	XXXX	.090
	10	.030	.021	.017	.014	.050	.035	.028	.023	.100	.070	.056	.046	XXXX	XXXX	XXXX	XXXX
	12	.023	.016	.013	.012	,036	.026	.021	.020	.072	.052	.042	.040	XXXX	XXXX	XXXX	XXXX
	2	.267	.179	.133	.120	.445	.298	.223	.200	XXXX	.596	.446	.400	.445	XXXX	XXXX	XXXX
	4	.133	.089	.067	.067	.266	.178	.152	.134	.532	.356	.304	.268	XXXX	.312	XXXX	XXXX
8	6	.082	.059	.044	.041	.164	.118	.088	.082	.328	.236	.176	.164	XXXX	XXXX	.196	XXXX
-	8	.053	.039	.032	.027	.088	.065	.053	.045	.176	.130	.106	.090	XXXX	XXXX	XXXX	.144
	10	.040	.028	.020	.019	.066	.046	.033	.031	.132	.092	.066	.062	XXXX	XXXX	XXXX	XXXX
* Spaces w	12 ithout crow	029.	.021	.017	.015	.048 ate that	.035 the pr	.028 actice is	.025 	.096 eeded to	.070 keep s	.056 soil loss	.050 es withi) XXXX n toleranc	XXXX e under t	XXXX hese soil,	XXXX slope, and

rainfall conditions.

Table 9. Cropping-management	t values f	or selected	IR,	Τ/К,	and	slopes	(continued)
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Table 9—150 R Factor 150

	Т/К 10 12 14		Ne	ecessary with no (Slope	"C" val practice length)	ues]				Nece	ssary "C	'' values	with pr	actices			
	Т/К	Slope %						Conto (Slope	ouring length)		Co	ntour st (Slope	ripcropp length)	oing		ontouring (Spa	with terrac cings)	es
			100'	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	with terrac cings) 67' XXXX XXXX .262 XXXX XXXX XXXX XXXX .312 XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX	56'
		2	.333	.223	.167	.150	.555	.361	.278	.250	XXXX	.722	.556	.500	.555	XXXX	XXXX	XXXX
		4	.167	1.111	.095	.084	.334	.222	.190	.168	.668	.444	.380	.336	XXXX	.390	XXXX	XXXX
	10	6	.095	.075	.056	.051	.190	.150	.112	.102	.380	.300	.224	.204	XXXX	ХХХХ	.262	XXXX
		8	.067	.048	.039	.033	.112	.080	.065	.055	.224	.160	.130	.110	XXXX	XXXX	XXXX	.150
		10	.050	.035	.028	.025	.083	.058	.046	.041	.166	.116	.092	.082	ХХХХ	XXXX	XXXX	XXXX
		12	.037	.027	.023	.019	.061	.045	.038	.031	.122	.090	.076	.062	XXXX	XXXX	XXXX	XXXX
49		2	.400	.300	.200	.180	.666	.500	.333	.300	XXXX	XXXX	.666	.600	.666	XXXX	XXXX	XXXX
	4	.200	.133	.115	.100	.400	.266	.230	.200	.800	.532	.460	.400	XXXX	.500	XXXX	XXXX	
	12	6	.115	.089	.067	.061	.230	.178	.134	.122	.460	.356	.268	.244	XXXX	XXXX	.312	XXXX
		8	.080	.057	.047	.040	.133	.095	.078	,066	.266	.190	.156	.132	XXXX	XXXX	XXXX	.192
		10	.059	.043	.034	.029	.098	.072	.056	.046	.196	.144	.112	.092	XXXX	XXXX	XXXX	XXXX
		12	.044	.031	.025	.022	.073	.051	.041	.036	.146	.102	.082	.072	XXXX	XXXX	XXXX	XXXX
~		2	.467	.312	.233	.210	.778	.520	.388	.350	XXXX	XXXX	.776	.700	.778	XXXX	XXXX	XXXX
		4	.233	.156	.133	.117	.466	.312	.266	.234	.932	.624	.532	.468	XXXX	.544	XXXX	XXXX
	14	6	.133	.104	.077	.072	.266	.208	.154	.144	.532	.416	.308	.288	XXXX	XXXX	.344	XXXX
		8	.093	.067	.055	.047	.155	.112	.092	.078	.310	.224	.184	.156	XXXX	XXXX	XXXX	.221
		10	.070	.049	.039	.034	.117	.082	.065	.057	.234	.164	.130	.114	XXXX	XXXX	XXXX	XXXX
12 12	12	.052	.036	.029	.026	.087	.060	.048	.043	.174	.120	.096	.086	XXXX	XXXX	XXXX	XXXX	

	т/к		Ne	cessary with no (Slope	"C" valu practice lenath)	les					Nece	ssary "C	'' values	with pr	actices	······		
	т/К	Slope %	100′	200/	300'	400'		Conto (Slope	ouring length)		Co	ntour st (Slope	ripcropp length)	ing	c	ontouring (Spa	with terrac cings)	es
				100		400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75'	67′	56′
		2	.533	.356	.267	.240	.888	.593	.445	.400	XXXX	XXXX	.890	.800	.888	XXXX	XXXX	XXXX
		4	.267	.177	.152	.133	.534	.354	.304	.266	XXXX	.708	.608	.532	XXXX	.622	XXXX	XXXX
	16	6	.152	.119	.089	.083	.304	.238	.178	.166	.608	.476	.356	.332	XXXX	XXXX	.390	XXXX
		8	.107	.076	.063	.053	.178	.123	.105	.088	.356	.246	.210	.176	XXXX	XXXX	XXXX	.253
		10	.080	.056	.045	.040	.133	.093	.075	.066	.266	.186	.150	.132	XXXX	XXXX	XXXX	XXXX
		12	.059	.042	.034	.030	.098	.070	.057	.050	.196	.140	.114	.100	XXXX	XXXX	XXXX	XXXX
50		2	.600	.400	.300	.270	XXXX	.666	.500	.450	XXXX	XXXX	XXXX	.900	XXXX	XXXX	XXXX	XXXX
		4	.300	.200	.172	.150	.600	.400	.344	.300	XXXX	.800	.688	.600	XXXX	.500	XXXX	XXXX
	18	6	.172	.133	.100	.092	.344	.266	.200	.184	.688	.532	.400	.368	XXXX	XXXX	.540	XXXX
		8	.120	.085	.071	.060	.210	.162	.118	.100	.420	.324	.236	.200	XXXX	XXXX	XXXX	.286
		10	.088	.063	.050	.044	.147	.105	.083	.073	.294	.210	.166	.146	XXXX	XXXX	XXXX	XXXX
		12	.067	.046	.038	.034	.112	.077	.063	.057	.224	.154	.126	.114	XXXX	XXXX	XXXX	XXXX
		2	.667	.444	.333	.300	XXXX	.740	.555	.500	XXXX	XXXX	хххх	XXXX	XXXX	XXXX	XXXX	XXXX
		4	.333	.223	.191	.167	.666	.446	.382	.334	XXXX	.892	.764	.668	XXXX	.776	XXXX	XXXX
	20	6	.191	.148	.111	.103	.382	.296	.222	.206	.764	.592	.444	.412	XXXX	XXXX	.490	XXXX
		8	.133	.095	.079	.067	.222	.158	.132	.112	.444	.316	.264	.224	XXXX	XXXX	XXXX	.316
		10	.099	.071	.056	.049	.165	.118	.093	.082	.330	.236	.186	.164	XXXX	XXXX	XXXX	XXXX
		12	.075	.051	.042	.032	.125	.085	.070	.053	.250	.170	.140	.106	XXXX	XXXX	XXXX	XXXX

Table 9-170 R Factor 170

т/к Sh 4 4 6		Ne	cessary with no (Slope	"C" valu practice lenath)	Jes					Nece	ssary ''C	" values	with pr	actices				
	Slope %	100/		200/	400/		Conto (Slope	ouring length)		Co	ntour st (Slope	ripcropp length)	ping	c	ontouring (Spa	with terrac cings)	es	
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	th practices 00' 100' 176 .197 116 XXXX 020 XXXX 0240 XXXX 026 XXXX 020 XXXX 020 XXXX 026 XXXX 026 XXXX 026 XXXX 026 XXXX 026 XXXX 036 XXXX 036 XXXX 036 XXXX 036 XXXX 026 XXXX 036 XXXX 036 XXXX 026 XXXX 036 XXXX 026 XXXX 027 XXXX	75'	67′	56′
_		2	.118	.079	.059	.053	.197	.132	.098	.088	.394	.264	.196	.176	.197	XXXX	XXXX	XXXX
		4	.059	.039	.034	.029	.118	.078	.068	.058	.236	.156	.136	.116	XXXX	.138	XXXX	XXXX
	4	6	.034	.026	.020	.018	.068	.052	.040	.036	.136	.104	.080	.072	XXXX	XXXX	.086	XXXX
		8	.024	.016	.014	.012	.040	.027	.023	.020	.080	.054	.046	.040	XXXX	XXXX	XXXX	.057
		10	.017	.013	.010	.008	.028	.022	.017	.013	.056	.044	.034	.026	XXXX	XXXX	XXXX	XXXX
		12	.013	.008	.007	.006	.022	.013	.012	.010	.044	.026	.024	.020	XXXX	XXXX	XXXX	XXXX
57		2	.176	.118	.088	.079	.293	.191	.147	.132	.586	.394	.294	.264	.293	XXXX	XXXX	XXXX
	4	.088	.059	.051	.045	.176	.118	.102	.090	.352	.236	.204	.180	XXXX	.206	XXXX	XXXX	
	6	6	.051	.039	.029	.027	.102	.078	.058	.054	.204	.156	.116	.108	XXXX	XXXX	.130	XXXX
		8	.035	.025	.021	.018	.058	.042	.035	.030	.116	.084	.070	.060	XXXX	XXXX	XXXX	.085
		10	.026	.019	.015	.013	.043	.031	.025	.021	.086	.062	.050	.042	XXXX	XXXX	XXXX	XXXX
		12	.020	.013	.012	.011	.033	.022	.020	.018	.066	.044	.040	.036	XXXX	XXXX	XXXX	XXXX
		2	.235	.158	.118	.106	.391	.263	.197	.177	.782	.526	.394	.354	.392	XXXX	XXXX	XXXX
		4	.118	.079	.067	.059	.236	.158	.134	.118	.472	.316	.268	.236	XXXX	.276	XXXX	XXXX
	8	6	.067	.052	.039	.036	.134	.104	.078	.072	.268	.208	.156	.144	XXXX	XXXX	.172	XXXX
		8	.047	.034	.028	.024	.078	.056	.047	.040	.156	.112	.094	.080	XXXX	XXXX	XXXX	.112
	8	10	.035	.025	.020	.017	.058	.041	.033	.028	.116	.082	.066	.056	XXXX	XXXX	XXXX	XXXX
		12	.026	.018	.014	.013	.043	.030	.023	.022	.086	.060	.046	.044	XXXX	XXXX	XXXX	XXXX

Table 9.	Cropping-management	values	for	selected	R,	Т/К,	and	slopes	(continued)
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Τc	able	9-	-1	70
R	Fact	or	17	0

			Ne	cessary with no	"C" valu practice	Jes					Neces	ssary "C	" values	with pr	actices			
	T/K	Slope %		(Siope	iengin/			Conto (Slope	ouring length)		Co	ntour st (Slope	ripcropp length)	ping	c	ontouring (Spa	with terrac cings)	es
т/К 10 12 14		100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′	
		2	.294	.196	.147	.132	.490	.327	.245	.220	.980	.654	.490	.440	.490	XXXX	XXXX	XXXX
		4	.147	.098	.083	.074	.294	.196	.166	.148	.588	.392	.332	.296	хххх	.342	XXXX	XXXX
	10	6	.083	.066	.049	.045	.166	.132	.098	.090	.332	.264	.196	.180	XXXX	XXXX	.216	XXXX
		8	.059	.042	.034	.029	.098	.070	.057	.048	.196	.140	.114	.096	XXXX	XXXX	XXXX	.138
		10	.043	.031	.025	.022	.072	.052	.042	.037	.144	.104	.084	.074	XXXX	XXXX	XXXX	XXXX
		12	.033	.023	.018	.016	.055	.038	.030	.027	.110	.076	.060	.054	XXXX	XXXX	XXXX	XXXX
57 20		2	.353	.235	.176	.158	.588	.392	.293	.263	хххх	.784	.586	.526	.588	XXXX	XXXX	XXXX
	4	.176	.118	.101	.088	.352	.236	.202	.176	.704	.472	.404	.352	XXXX	.410	XXXX	XXXX	
	12	6	.101	.079	.059	.054	.202	.158	.118	.108	.404	.316	.236	.216	XXXX	XXXX	.258	XXXX
		8	.071	.051	.041	.035	.118	.085	.068	.058	.236	.170	.136	.116	XXXX	XXXX	XXXX	.168
		10	.052	.038	.029	.026	.086	.063	.048	.043	.172	.126	.096	.086	XXXX	XXXX	XXXX	XXXX
		12	.039	.027	.022	.020	.065	.045	.037	.033	.130	.090	.074	.066	XXXX	XXXX	XXXX	XXXX
		2	.412	.275	.206	.185	.687	.458	.343	.308	XXXX	.916	.686	.616	.687	XXXX	XXXX	XXXX
		4	.206	.138	.118	.103	.412	.276	.236	.206	.824	.552	.472	.412	XXXX	.480	XXXX	XXXX
	14	6	.118	.092	.068	.064	.236	.184	.136	.128	.472	.368	.272	.256	XXXX	XXXX	.302	XXXX
	14 — — —	8	.082	.059	.048	.041	.137	.098	.080	.068	.274	.196	.160	.136	XXXX	XXXX	XXXX	.197
		10	.061	.044	.035	.030	.102	.073	.058	.050	.204	.146	.116	.100	XXXX	XXXX	XXXX	XXXX
		12	.046	.029	.025	.023	.077	.048	.042	.038	.154	.096	.084	.096	XXXX	XXXX	XXXX	XXXX

Table 9.	Cropping-management	values for	selected	R, T/K,	and	slopes	(continued)	
				• •				

Table y-1/0
R Factor 170

		Ne	cessary with no (Slope	"C" valu practice	Jes					Nece	ssary "C	" values	with pr	actices			
т/к	Slope %		(0.0 pc				Conto (Slope	ouring length)		Co	ontour sti (Slope	ripcropp length)	ing	c	ontouring (Spa	with terrac cings)	es
		100′	200′	300′	400′	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	vith terrac ings) 67' XXXX	56'
	2	.470	.314	.235	.211	.783	.523	.392	.352	XXXX	XXXX	.784	.704	.783	XXXX	XXXX	XXXX
	4	.235	.156	.134	.118	.470	.312	.268	.236	.940	.624	.536	.472	XXXX	.538	XXXX	XXXX
16	6	.134	.105	.079	.073	.268	.210	.158	.146	.536	.420	.316	.292	XXXX	ХХХХ	.344	XXXX
	8	.094	.067	.055	.047	.157	.112	.092	.078	.314	.224	.184	.156	XXXX	XXXX	XXXX	.223
	10	.070	.049	.036	.035	.117	.082	.060	.058	.234	.164	.120	.116	XXXX	XXXX	XXXX	XXXX
	12	.052	.037	.030	.026	.087	.062	.050	.043	.174	.124	.100	.086	XXXX	XXXX	XXXX	XXXX
55	2	.529	.353	.265	.238	.882	.588	.442	.397	XXXX	XXXX	.884	.794	.882	XXXX	XXXX	XXXX
	4	.265	.176	.152	.133	.530	.352	.304	.266	XXXX	.704	.608	.532	XXXX	.618	XXXX	XXXX
18	6	.152	.118	.088	.081	.304	.236	.176	.162	.608	.472	.352	.324	ХХХХ	XXXX	.388	XXXX
	8	.106	.075	.062	.053	.177	.125	.103	.088	.354	.250	.206	.176	XXXX	XXXX	XXXX	.253
	10	.078	.055	.040	.038	.130	.092	.067	.063	.260	.184	.134	.126	XXXX	XXXX	XXXX	XXXX
	12	.059	.041	.033	.030	.098	.068	.055	.050	.196	.136	.110	.100	XXXX	XXXX	XXXX	XXXX
	2	.588	.392	.294	.225	.988	.653	.490	.375	XXXX	XXXX	.980	.750	.980	XXXX	XXXX	XXXX
	4	.294	.196	.168	.147	.588	.392	.336	.294	XXXX	.784	.672	.588	XXXX	.686	XXXX	XXXX
20	6	.168	.131	.098	.091	.336	.262	.196	.182	.672	.524	.392	.364	XXXX	XXXX	.430	XXXX
	8	.118	.083	.069	.059	.197	.138	.115	.098	.394	.276	.230	.196	XXXX	XXXX	XXXX	.280
	10	.087	.062	.049	.043	.145	.103	.082	.072	.290	.206	.164	.144	XXXX	XXXX	XXXX	XXXX
	12	.066	.045	.037	.033	.110	.075	.062	.055	.220	.150	.124	.110	XXXX	XXXX	XXXX	XXXX

Table 9. Cropping-managemen	t values	for	selected	R,	Т/К,	and	slopes	(continued))
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Т	able 9-	-1 9 0
R	Factor	1 9 0

			Ne	cessary with no	"C" valu practice	Jes		_ 1			Nece	ssary "C	" value:	with pr	actices			
	T/K 4 6	Slope %		(Slope				Conto (Siope	ouring length)		Co	ntour st (Slope	ripcrop length)	oing	c c	ontouring (Spa	with terrac cings)	es
			100'	200'	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′
		2	.105	.071	.053	.047	.175	.118	.088	.078	.350	.236	.176	.156	.175	XXXX	XXXX	XXXX
		4	.053	.035	.031	.026	.106	.070	.062	.052	.212	.140	.124	.104	XXXX	.124	XXXX	XXXX
	4	6	.031	.023	.018	.016	.062	.046	.036	.032	.124	.092	.072	.064	XXXX	XXXX	.076	XXXX
		8	.021	.015	.013	.011	.035	.025	.022	.018	.070	.050	.044	.036	XXXX	XXXX	XXXX	.052
		10	.014	.012	.009	.008	.023	.020	.015	.013	.046	.040	.030	.026	XXXX	XXXX	XXXX	XXXX
		12	.012	.007	.006	.005	.020	.012	.010	.008	.040	.024	.020	.016	XXXX	XXXX	XXXX	XXXX
5 4		2	.158	.105	.079	.071	.263	.175	.132	.118	.526	.350	.264	.236	.263	XXXX	XXXX	XXXX
	л	4	.079	.053	.045	.040	.158	.106	.090	.080	.316	.212	.180	.160	XXXX	.184	XXXX	XXXX
	6	6	.045	.035	.026	.024	.090	.070	.052	.048	.180	.140	.104	.096	XXXX	XXXX	.116	XXXX
		8	.032	.022	.019	.016	.053	.044	.032	.027	.106	.088	.064	.054	XXXX	XXXX	XXXX	.075
		10	.023	.017	.014	.012	.038	.028	.023	.020	.076	.056	.046	.040	XXXX	XXXX	XXXX	XXXX
		12	.018	.011	.009	.008	.030	.018	.015	.013	.060	.036	.030	.026	XXXX	XXXX	ХХХХ	ХХХХ
		2	.210	.141	.105	.094	.350	.235	.175	.157	.700	.470	.350	.314	.350	XXXX	XXXX	ХХХХ
		4	.105	.071	.060	.053	.210	.142	.120	.106	.420	.284	.240	.212	XXXX	.246	XXXX	ХХХХ
	8 -	6	.060	.046	.035	.033	.120	.092	.070	.066	.240	.184	.140	.132	XXXX	XXXX	.154	XXXX
		8	.042	.031	.025	.021	.070	.052	.042	.035	.140	.104	.084	.070	XXXX	XXXX	ХХХХ	.100
		10	.032	.022	.018	.015	.053	.037	.030	.025	.106	.074	.060	.050	XXXX	XXXX	XXXX	хххх
		12	.023	.016	.012	.011	.038	.027	.020	.018	.076	.054	.040	.036	XXXX	XXXX	XXXX	XXXX

Table 9.	Cropping-management	values	for	selected	R,	Т/К,	and	slopes	(continued)

Table 9-—190 R Factor 190

	{	Ne	with no	"C" val	ues					Neces	ssary "C	'' values	with pr	actices			
т/к 10 12 14	Slope %		(Slope	length)			Conte (Slope	ouring length)		Co	ntour st (Slope	ripcropp length)	oing	c	ontcuring (Spa	with terrac cings)	es
		100′	200′	300′	400′	100'	200′	300′	400′	100′	200′	300′	400′	100′	75'	67′	56′
	2	.263	.176	.132	.129	.438	.293	.220	.215	.876	.586	.440	.430	.438	XXXX	XXXX	XXXX
	4	.132	.087	.075	.066	.264	,174	.150	.132	.528	.348	.300	.264	XXXX	.308	XXXX	XXXX
10	6	.075	.059	.044	.040	.150	.118	.088	.080.	.300	.236	.176	,160	XXXX	XXXX	.192	XXXX
	8	.053	.038	.031	.026	.088	.063	.052	.043	.176	.126	.104	.086	XXXX	хххх	XXXX	.125
	10	.039	.027	.020	.019	.065	.045	.033	.032	.130	.090	.066	.064	XXXX	ХХХХ	XXXX	XXXX
	12	.029	.020	.017	.014	.048	.033	.028	.023	.096	.066	.056	.046	XXXX	XXXX	XXXX	XXXX
	2	.316	.211	.158	.142	.527	.352	.263	.237	XXXX	.704	.526	.474	.477	хххх	XXXX	XXXX
	4	.158	.105	.091	.079	.316	.210	.182	.158	.632	.420	.364	.316	XXXX	.332	XXXX	XXXX
12	6	.091	.071	.053	.048	.182	.142	.106	.096	.364	,284	.212	.192	XXXX	XXXX	.208	XXXX
	8	.063	.045	.037	.032	.105	.075	.062	.053	.210	.150	.124	.106	XXXX	XXXX	XXXX	. 137
	10	.046	.034	.024	.023	.077	.057	.040	.038	.154	.114	.080	.076	XXXX	XXXX	XXXX	XXXX
	12	.035	.024	.020	.015	.058	.040	.033	.025	.116	.080	.066	.050	XXXX	XXXX	XXXX	XXXX
	2	.369	.246	.184	.165	.615	.410	.307	.275	XXXX	.820	.614	.550	.555	XXXX	XXXX	XXXX
	4	.184	.123	.105	.093	.368	.246	.210	.186	.736	.492	.420	.372	XXXX	.390	XXXX	XXXX
14	6	.105	.082	.061	.057	.210	.164	.122	.114	.420	.328	.244	.228	XXXX	XXXX	.244	XXXX
	8	.074	.053	.043	.037	.123	.088	.072	.062	.246	.176	.144	.124	XXXX	XXXX	XXXX	.158
	10	.055	.039	.030	.026	.092	.065	.050	.043	.184	.130	.100	.086	XXXX	XXXX	XXXX	XXXX
	12	.041	.028	.023	.020	.068	.047	.038	.033	.136	.094	.076	.066	XXXX	XXXX	XXXX	XXXX

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		Ne	cessary with no	"C" valu practice	Jes					Neces	ssary "C	" values	with pr	actices			
т/К	Slope %		Giope	iengiii)			Conto (Slope	ouring length)		Co	ntour st (Slope	ripcropp length)	ping	c	ontouring (Spa	with terrace cings)	es
		100'	200'	300′	400'	100'	200′	300′	400′	100'	200′	300′	400′	100′	75'	67′	56′
	2	.421	.218	.211	.189	.702	.363	.352	.315	хххх	.726	.704	.630	.635	XXXX	XXXX	XXXX
	4	.211	.140	.120	.105	.422	.280	.240	.210	.844	.560	.480	.420	хххх	.444	XXXX	XXXX
16	6	.120	.094	.071	.065	.240	.188	.142	.130	.480	.376	.284	.260	XXXX	XXXX	.278	XXXX
	8	.084	.066	.049	.042	.140	.110	.082	.070	.280	.220	.164	.140	XXXX	XXXX	хххх	.182
	10	.066	.044	.035	.031	.110	.073	.058	.052	.220	.146	.116	.104	XXXX	XXXX	XXXX	XXXX
	12	.046	.033	.026	.023	.077	.055	.043	.038	.154	.110	.086	.076	XXXX	XXXX	XXXX	XXXX
	2	.474	.316	.237	.213	.790	.527	.395	.355	XXXX	XXXX	.790	.710	.715	XXXX	XXXX	XXXX
	4	.237	.158	.136	.119	.474	.316	.272	.238	.948	.632	.544	.476	хххх	.500	XXXX	XXXX
18	6	.136	.105	.079	.073	.272	.210	.158	.146	.544	.420	.316	.292	XXXX	XXXX	.312	XXXX
	8	.095	.067	.056	.047	.158	.112	.093	.078	.316	.224	.186	.156	ХХХХ	XXXX	XXXX	.205
	10	.070	.049	.040	.035	.117	.082	.067	.058	.234	.164	.134	.116	XXXX	XXXX	XXXX	хххх
	12	.053	.037	.030	.026	.088	.062	.050	.043	.176	.124	.100	.086	XXXX	XXXX	XXXX	XXXX
	2	.527	.350	.263	.237	.878	.583	.438	.395	XXXX	XXXX	.876	.790	.793	XXXX	XXXX	XXXX
	4	.263	.176	.151	.132	.526	.352	.302	.264	хххх	.704	.604	.528	XXXX	.544	XXXX	XXXX
20	6	.151	.117	.087	.081	.302	.234	.174	.162	.604	.468	.348	.324	XXXX	XXXX	.348	XXXX
	8	.105	.074	.062	.053	.175	.123	.103	.088	.350	.246	.206	.176	XXXX	XXXX	XXXX	.227
	10	.077	.056	.048	.042	.128	.093	.080	.070	.256	.186	.160	.140	XXXX	XXXX	XXXX	XXXX
	12	.059	.041	.033	.030	.098	.068	.055	.050	.196	.136	.110	.100	XXXX	XXXX	XXXX	XXXX

Table 9—190 R Factor 190

Table 9—210 R Factor 210

		Ne	with no	"C" valu practice	Jes					Neces	ssary ''C	'' values	with pr	actices			
T/K	Slope %		(Slope				(Slope Conto	length) ouring		Co	ontour st (Slope	ripcropp length)	oing	с	ontouring Spa	with terrac cings)	es
		100'	200′	300′	400′	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′
	2	.095	.064	.048	.043	.158	.107	.080	.072	.316	.214	.160	.144	.158	XXXX	XXXX	XXXX
	4	.048	.031	.028	.024	.096	.062	.056	.048	.192	.124	.112	.096	XXXX	.112	XXXX	XXXX
4	6	.028	.021	.016	.014	.056	.042	.032	.028	.112	.084	.064	.056	XXXX	хххх	.066	XXXX
	8	.019	.013	.011	.010	.032	.022	.018	.017	.064	.044	036	.034	XXXX	XXXX	XXXX	.047
	10	.013	.010	.008	.007	.022	.017	.013	.012	.044	.034	.026	.024	XXXX	XXXX	XXXX	XXXX
	12	.010	.008	.007	.006	.017	.013	.012	.010	.034	.026	.024	020	XXXX	XXXX	XXXX	XXXX
	2	.143	.095	.071	.064	.238	.158	.118	.107	.476	.316	.236	214	.238	хххх	XXXX	XXXX
	4	.071	.048	.041	.036	.142	.092	.082	.072	.284	.184	.164	.144	XXXX	.166	XXXX	XXXX
6	6	.041	.031	.024	.022	.082	.062	.048	.044	.164	.124	.096	.088	XXXX	XXXX	.104	XXXX
	8	.029	.020	.017	.014	.048	.033	.028	.023	.096	.066	.056	.046	XXXX	XXXX	XXXX	.068
	10	.021	.015	.012	.010	.035	.025	.020	.017	.070	.050	.040	.034	XXXX	XXXX	XXXX	XXXX
	12	.016	.011	.010	.009	.027	.018	.017	.015	.054	.036	.034	.030	XXXX	XXXX	XXXX	XXXX
	2	.190	.128	.095	.085	.317	.213	.158	.142	.634	.426	.316	.284	.316	XXXX	XXXX	XXXX
	4	.095	.064	.054	.048	.190	.128	.108	.096	.380	.256	.216	.192	XXXX	.222	XXXX	XXXX
8	6	.054	.042	.031	.030	.108	.084	.062	.060	.216	.168	.124	.120	XXXX	XXXX	.140	XXXX
	8	.038	.028	.023	.019	.063	.047	.038	.032	.126	.094	.076	.064	XXXX	XXXX	XXXX	.090
	10	.029	020	.015	.013	.048	.033	.025	.022	096	.066	.050	.044	XXXX	XXXX	XXXX	XXXX
	12	.021	.015	.011	.010	.035	.025	.018	.017	.070	.050	.036	.034	XXXX	.158 XXXX XXX .112 XXX XXXX XXX .166 XXX XXXX XXX XXXX XXX XXXX XXX XXXX XXX .222 XXX	XXXX	XXXX

			Ne	cessary with no (Slope	"C" valu practice	Jes					Naces	sary "C	" values	with pr	actices			
	T/K 10 12 14	Slore %	100′	200/	200'	400/		Conto (Slope	ouring length)		Co	entour st (Slope	ipcropp length)	ing	с	ontouring (Spa	with terrac cings)	es
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	40u′	100'	75'	67′	56'
		2	.238	.159	.119	.107	.397	.265	.198	.178	.794	.530	.396	.356	.397	XXXX	ХХХХ	XXXX
		4	.119	.079	.068	.060	.238	.158	.136	.120	.476	.316	.272	.240	XXXX	.278	ХХХХ	XXXX
	10	6	.068	.053	.040	.036	.136	.106	.080	.072	.272	.212	.160	.144	XXXX	XXXX	.174	XXXX
		8	.048	.034	.028	.024	.080	.057	.047	.040	.160	.114	.094	.080	XXXX	XXXX	XXXX	.113
		10	.035	.025	.020	.017	.058	.042	.033	.028	.116	.050	.040	.034	XXXX	XXXX	XXXX	XXXX
		12	.027	.018	.015	.013	.045	.030	.025	.022	.090	.060	.050	.044	XXXX	XXXX	XXXX	XXXX
ບ 8	•	2	.286	.190	.143	.133	.477	.317	.238	.222	.994	.634	.476	.444	.477	XXXX	XXXX	XXXX
		4	.143	.095	.082	.071	.286	.190	.164	.142	.572	.380	.328	.284	XXXX	.332	XXXX	XXXX
	12	6	.082	.064	.048	.044	.164	.128	.096	.088	.328	.256	.192	.176	XXXX	XXXX	.208	XXXX
		8	.057	.041	.033	.029	.095	.068	.055	.048	.190	.136	.110	.096	XXXX	XXXX	XXXX	.137
		10	.042	.030	.024	.021	.070	.050	.040	.035	.140	.100	.080	.070	XXXX	XXXX	XXXX	XXXX
		12	.031	.022	.018	.016	.052	.037	.030	.027	.104	.074	.060	.054	XXXX	XXXX	XXXX	XXXX
		2	.333	.223	.167	.150	.555	.372	.278	.250	XXXX	.744	.556	.500	.555	XXXX	XXXX	XXXX
		4	.167	.111	.095	.084	.334	.222	.190	.168	.668	.444	.380	.336	XXXX	.390	XXXX	XXXX
	14	6	.095	.074	.0.55	.051	.190	.148	.110	.102	.380	.296	.220	.204	XXXX	XXXX	.244	XXXX
		8	.067	.048	.039	.033	.112	.080	.065	.055	.224	.160	.130	.110	XXXX	XXXX	XXXX	.158
		10	.049	.035	.026	.024	.082	.058	.043	.040	.164	.116	.086	.080	XXXX	XXXX	XXXX	XXXX
		12	.037	.026	.021	.019	.062	.043	.035	.032	.124	.086	.070	.064	XXXX	XXXX	XXXX	XXXX

Table 9—210 R Factor 210

		Ne	cessary with no	"C" valı practice	Jes					Neces	ssary "C	" values	with pro	actices			
т/К 16 18 20	Slope %		(Slope	length)			Conto (Slope	ouring length)		Co	ntour st (Slope	ripcrop; length)	ping	C	ontouring (Spac	with terrac cings)	es
		100′	200′	300′	400′	100′	200′	300′	400′	100′	200′	300′	400′	100′	75'	67′	56′
	2	.381	.254	.190	.171	.635	.423	.317	.285	XXXX	.846	.634	.570	.635	XXXXX	XXXX	XXXX
	4	.190	.127	.109	.095	.380	.254	.218	.190	.760	.508	.436	.380	XXXX	.444	XXXX	XXXX
16	6	.109	.085	.064	.059	.218	.170	.128	.118	.436	.340	.256	.236	XXXX	XXXX	.278	XXXX
	8	.076	.054	.045	.038	.127	.090	.075	.063	.254	.180	.150	.126	XXXX	XXXX	XXXX	.182
	10	.057	.040	.031	.028	.095	.067	.052	.047	.190	.134	.104	.094	XXXX	XXXX	XXXX	XXXX
	12	.042	.029	.025	.022	.070	.048	.042	.037	.140	.096	.084	.074	XXXX	XXXX	XXXX	XXXX
	2	.429	.256	.214	.192	.715	.477	.357	.320	XXXX	.954	.714	.640	.715	XXXX	XXXX	XXXX
	4	.214	.142	.123	.108	.428	.284	.246	.216	.856	.568	.492	.432	XXXX	.500	XXXX	XXXX
18	6	.123	.095	.071	.066	.246	.190	.142	.132	.492	.380	.284	.264	XXXX	XXXX	.312	XXXX
	8	.086	.061	.050	.043	.143	.102	.083	.072	.286	.204	.166	.144	XXXX	XXXX	XXXX	.205
	10	.063	.045	.033	.031	.105	.075	.055	.052	.210	.150	.110	.104	XXXX	XXXX	XXXX	XXXX
	12	.048	.033	.028	.025	.080	.055	.047	.042	.160	.110	.094	.084	XXXX	XXXX	XXXX	XXXX
	2	.476	.317	.238	.214	.793	.528	.397	.357	XXXX	XXXX	.794	.714	.793	XXXX	XXXX	XXXX
	4	.238	.159	.136	.119	.476	.318	.272	.238	.952	.636	.544	.476	XXXX	.544	XXXX	XXXX
20	6	.136	.106	.079	.073	.272	.212	.158	.146	.544	.424	.316	.292	XXXX	XXXX	.348	XXXX
	8	.095	.068	.056	.048	.158	.113	.093	.080	.316	.226	.186	.160	XXXX	XXXX	XXXX	.227
	10	.070	.050	.040	.034	.117	.083	.067	.057	.234	.166	.134	.114	XXXX	XXXX	XXXX	XXXX
	12	.053	.037	.030	.028	.088	.062	.050	.047	.176	.124	.100	.094	XXXX	XXXX	XXXX	XXXX

-			Ne	cessary with no (Slope	"C" val practice lenath)	Ųes					Nece	ssary "C	C'' value	s with p	ractices			
	Т/К 4 6 	Slope %				400/		Conto (Slope	ouring length)		C	ontour s (Slope	tripcrop length)	oing	c	ontouring (Spa	with terrad cings)	ces
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′
		2	.087	.058	.043	.039	.145	.097	.072	.065	.290	.194	.144	.130	.145	XXXX	XXXX	XXXX
		4	.043	.029	.025	.022	.086	.058	.050	.044	.172	.116	.100	.088	XXXX	.100	XXXX	XXXX
	4	6	.025	.019	.015	.013	.050	.038	.030	.026	.100	.076	.060	.052	XXXX	XXXX	.064	XXXX
		8	.017	.012	.010	.009	.028	.020	.017	.015	.056	.040	.034	.030	XXXX	XXXX	XXXX	.042
		10	.012	.010	.007	.006	.020	.017	.012	.010	.040	.034	.024	.020	XXXX	XXXX	XXXX	XXXX
		12	.010	.007	.006	.005	.017	.012	.010	.008	.034	.024	.020	.016	XXXX	XXXX	XXXX	XXXX
60		2	.130	.087	.065	.058	.217	.145	.108	.097	.434	.290	.216	.194	.217	XXXX	XXXX	XXXX
		4	.065	.043	.037	.033	.130	.086	.074	.066	.260	.172	.148	.132	XXXX	.152	XXXX	XXXX
	6	6	.037	.029	.022	.020	.074	.058	.044	.040	.148	.116	.088	.080	XXXX	XXXX	.094	XXXX
		8	.026	.018	.016	.013	.043	.030	.027	.022	.086	.060	.054	.044	XXXX	XXXX	XXXX	.062
		10	.019	.014	.011	.009	.032	.023	.018	.015	.064	.046	.036	.030	XXXX	XXXX	XXXX	XXXX
		12	.015	.010	.009	.008	.025	.017	.015	.013	.050	.034	.030	.026	XXXX	XXXX	XXXX	XXXX
		2	.174	.117	.087	.078	.290	.195	.145	.130	.580	.390	.290	.260	.290	XXXX	XXXX	XXXX
		4	.087	.058	.050	.043	.174	.116	.100	.086	.348	.232	.200	.172	ХХХХ	.204	XXXX	XXXX
	8	6	.050	.038	.029	.027	.100	.076	.058	.054	.200	.152	.116	.108	XXXX	XXXX	.128	XXXX
		8	.035	.025	.021	.017	.058	.042	.035	.028	.116	.084	.070	.056	XXXX	XXXX	XXXX	.083
		10	.026	.018	.015	.012	.043	.030	.025	.020	.086	.060	.050	.040	XXXX	XXXX	XXXX	XXXX
		12	.019	.013	.011	.010	.032	.022	.018	.017	.064	.044	.036	.034	XXXX	XXXX	XXXX	XXXX

Table 9--230 R Factor 230

			Ne	cessary with no	"C" valu practice	ies					Neces	ssary "C	" values	with pr	actices			
	τ/κ	Slope %		(Slope	length)			Conto (Slope	ouring length)		Co	ntour st (Slope	ripcropp length)	oing	c	ontouring (Spac	with terrace cings)	es
			100′	200′	300′	400′	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′
-		2	.217	.145	.109	.098	.362	.242	.182	.163	.724	.484	.364	.326	.362	XXXX	XXXX	XXXX
		4	.109	.072	.062	.055	.218	.144	.124	.110	.436	.288	.248	.220	XXXX	.254	XXXX	XXXX
	10	6	.062	.049	.037	.033	.124	.098	.074	.066	.248	.196	.148	.132	XXXX	XXXX	.158	XXXX
		8	.043	.031	.025	.022	.072	.052	.042	.037	.144	.104	.084	.074	XXXX	XXXX	XXXX	.103
		10	.032	.023	.018	.016	.053	.038	.030	.027	.106	.076	.060	.054	XXXX	XXXX	XXXX	XXXX
		12	.024	.017	.014	.012	.040	.028	.023	.020	.080	.056	.046	.040	XXXX	XXXX	XXXX	XXXX
61		2	.261	.174	.130	.117	.435	.290	.217	.195	.890	.580	.434	.390	.435	XXXX	XXXX	XXXX
		4	.130	.087	.075	.065	.260	.174	.150	.130	.520	.348	.300	.260	XXXX	.310	XXXX	XXXX
	12	6	.075	.058	.043	.040	.150	.116	.086	.080	.300	.232	.172	.160	XXXX	XXXX	.190	XXXX
		8	.052	.037	.030	.026	.087	.062	.050	.043	.174	.124	.100	.086	XXXX	XXXX	XXXX	.125
		10	.038	.028	.022	.019	.063	.047	.037	.032	.126	.094	.074	.064	XXXX	XXXX	XXXX	XXXX
		12	.029	.020	.016	.014	.048	.033	.027	.023	.096	.066	.054	.046	XXXX	XXXX	XXXX	XXXX
-		2	.304	.203	.152	.137	.507	.338	.253	.228	XXXX	.676	.506	.456	.507	XXXX	XXXX	XXXX
		4	.152	.102	.087	.077	.304	.204	.174	.154	.608	.408	.348	.308	XXXX	.354	XXXX	XXXX
	14	6	.087	.068	.050	.047	.174	.136	.100	.094	.348	.272	.200	.188	XXXX	XXXX	.224	XXXX
		8	.061	.043	.036	030	.102	.072	.060	.050	.204	.144	.120	.100	XXXX	XXXX	XXXX	.145
		10	.045	.032	.025	.022	.075	.053	.042	.037	.150	.106	.084	.074	XXXX	XXXX	XXXX	XXXX
		12	.034	.023	.019	.017	.057	.038	.032	.028	.114	.076	.064	.056	XXXX	XXXX	XXXX	xxxx

R Factor 230

Table 9.	Cropping-management	values	for	selected	R,	Т/К,	and	slopes	(continued)
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			Ne	ecessary with no (Slope	"C" val practice lenath)	Jes					Nec	essary "	C'' value	es with p	oractices			
т,	/κ	Slope %	100'	2001	300'	400′		Conto (Slope	ouring length)		Co	ntour sti (Slope	ipcropp length)	ing		Contouring (Spa	with terrac icings)	es
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′
		2	.348	.232	.174	.156	.580	.387	.290	.260	XXXX	.774	.580	.520	.580	XXXX	XXXX	XXXX
		4	.174	.116	.099	.087	.348	.232	.198	.174	.696	.464	.396	.348	XXXX	.406	XXXX	XXXX
16	6	6	.099	.077	.058	.054	.198	.154	.116	.108	.396	.308	.232	.216	XXXX	XXXX	.254	XXXX
		8	.070	.050	.041	.035	.117	.083	.068	.058	.234	.166	.136	.116	XXXX	XXXX	XXXX	.165
	1	10	.052	.037	.029	.025	.087	.062	.048	.042	.174	.124	.096	.084	XXXX	XXXX	XXXX	XXXX
		12	.038	.027	.022	.019	.063	.045	.037	.032	.126	.090	.074	.064	XXXX	XXXX	XXXX	XXXX
62		2	.391	.260	.196	.176	.652	.433	.327	.293	XXXX	.866	.654	.586	.652	XXXX	XXXX	XXXX
		4	.196	.130	.112	.098	.392	.260	.224	.196	.784	.520	.448	.392	XXXX	.456	XXXX	XXXX
18	8	6	.112	.087	.065	.060	.224	.174	.130	.120	.448	.318	.260	.240	XXXX	XXXX	.286	XXXX
		8	.078	.056	.046	.039	.130	.093	.077	.065	.260	.186	.154	.130	XXXX	XXXX	XXXX	.187
		10	.058	.041	.029	.028	.097	.068	.048	.047	.194	.136	.096	.094	XXXX	XXXX	XXXX	XXXX
		12	.043	.030	.025	.022	.072	.050	.042	.037	.144	.100	.084	.074	XXXX	XXXX	XXXX	XXXX
		2	.435	.290	.217	.195	.725	.483	.362	.325	XXXX	.966	.724	.650	.725	ⁱ XXXX	XXXX	XXXX
		4	.217	.145	.124	.109	.434	.290	.248	.218	.868	.580	.496	.436	XXXX	.506	XXXX	XXXX
20	C	6	.124	.097	.072	.067	.248	.194	.144	.134	.496	.388	.144	.134	XXXX	XXXX	.318	XXXX
		8	.087	.062	.051	.043	.145	.103	.085	.072	.290	.206	.170	.144	XXXX	XXXX	XXXX	.207
		10	.065	.046	.036	.032	.108	.077	.060	.053	.216	.154	.120	.106	XXXX	XXXX	XXXX	XXXX
		12	.049	.034	.028	.025	.082	.057	.047	.042	.164	.114	.094	.084	XXXX	XXXX	XXXX	xxxx

	1	Ne	cessary with no	"C" valu practice	ues					Nece	ssary ''C	" values	with pr	actices			
т/к	Slope %	100/	(0)0pe	200/	400/		Conto (Slope	ouring length)		Co	ontour st (Slope	rípcropp length)	ing	c	ontouring (Spa	with terrac cings)	es
		100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75'	67′	56'
	2	.080	.054	.040	.036	.133	.090	.067	.060	.286	.180	.134	.120	.133	XXXX	XXXX	XXXX
	4	.040	.026	.023	.020	.080	.052	.046	.040	.160	.104	.092	.080	XXXX	.086	XXXX	XXXX
4	6	.023	.018	.014	.012	.046	.036	.028	.024	.092	.072	.056	.048	XXXX	XXXX	.058	XXXX
	8	.016	.011	.010	.008	.027	.018	.017	.013	.054	.036	.034	.026	XXXX	XXXX	XXXX	.038
	10	.011	.009	.006	.005	.018	.015	.010	.010	.036	.030	.020	.020	XXXX	XXXX	XXXX	XXXX
	12	.009	.006	.005	.004	.015	.010	.010	.008	.030	.020	.020	.016	XXXX	XXXX	XXXX	XXXX
	2	.120	.080	.060	.054	.200	.133	.100	.090	.400	.266	.200	.180	.200	XXXX	XXXX	XXXX
	4	.060	.040	.034	.030	.120	.080	.068	.060	.200	.133	.113	.060	XXXX	.140	XXXX	XXXX
6	6	.034	.026	.020	.018	.068	.052	.040	.036	.113	.104	.080	.072	XXXX	XXXX	.088	XXXX
	8	.024	.017	.014	.012	.040	.028	.023	.020	.080	.056	.046	.040	XXXX	XXXX	XXXX	.057
	10	.017	.013	.010	.009	.028	.022	.017	.015	.056	.044	.034	.030	XXXX	XXXX	XXXX	XXXX
	12	.014	.010	.008	.007	.023	.017	.013	.012	.046	.034	.026	.021	XXXX	XXXX	XXXX	XXXX
·	2	.160	.107	.080	.067	.267	.178	.133	.112	.534	.356	.266	.224	.267	XXXXX	XXXX	XXXX
	4	.080	.054	.046	.040	.133	.090	.077	.067	.266	.180	.154	.134	XXXX	.186	XXXX	XXXX
8	6	.046	.035	.026	.025	.092	.070	.052	.050	.184	.140	.104	.100	XXXX	XXXXX	.108	XXXX
	8	.032	.023	.019	.016	.064	.046	.038	.032	.128	.092	.076	.064	XXXX	XXXXX	XXXX	.077
	10	.024	.017	.013	.011	.040	.028	.022	.018	.080	.056	.044	.036	XXXX	XXXXX	XXXX	XXXX
	12	.018	.013	.010	.009	.030	.022	.017	.015	.060	.044	.034	.030	XXXX	XXXXX	XXXX	XXXX

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	Table 9.	Cropping-management	values f	for selected	R, '	Т/К,	and	slopes	(continued	(b
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Table 9—250 R Factor 250

			Ne	cessary with no (Slope	"C" valı practice length)	Jes					Nece	ssary "C	" values	with pr	actices			
	τ/κ	Slope %	1.00/	200/	200/	400/		Conto (Slope	ouring length)		Co	ontour st (Slope	ripcropp length)	oing		ontouring (Spa	with terrac Icings)	es
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56'
_		2	.200	.134	.100	.090	.333	.223	.167	.150	.666	.446	.334	.300	.333	XXXX	XXXX	XXXX
		4	.100	.066	.057	.050	.200	.132	.114	.100	.400	.264	.228	.200	XXXX	.234	XXXX	XXXX
	10	6	.057	.045	.034	.030	.114	.090	.068	.060	.228	.180	.136	.120	XXXX	XXXX	.146	XXXX
		8	.040	.029	.023	.020	.067	.048	.038	.033	.134	.096	.076	.066	XXXX	XXXX	XXXX	.095
		10	.029	.021	.017	.015	.048	.035	.028	.025	.096	.070	.056	.050	XXXX	XXXX	XXXX	XXXX
		12	.022	.016	.013	.011	.037	.027	.022	.018	.074	.054	.044	.036	XXXX	XXXX	XXXX	XXXX
64		2	.240	.160	.120	.108	.400	.267	.200	.180	.800	.534	.400	.360	.400	XXXX	XXXX	XXXX
		4	.120	.080	.069	.060	.240	.190	.138	.120	.480	.380	.276	.240	XXXX	.280	XXXX	XXXX
	12	6	.069	.054	.040	.037	.138	.108	.080	.074	.276	.216	.160	.148	XXXX	XXXX	.176	XXXX
		8	.048	.034	.028	.024	.080	.057	.047	.040	.160	.114	.094	.080	XXXX	XXXX	XXXX	.115
		10	.035	.026	.020	.017	.058	.043	.033	.028	.116	.086	.066	.056	XXXX	XXXX	XXXX	XXXX
		12	.026	.019	.016	.014	.043	.032	.027	.023	.086	.064	.054	.046	XXXX	XXXX	XXXX	XXXX
_		2	.280	.187	.140	.126	.467	.312	.233	.210	.934	.624	.466	.373	.467	XXXX	XXXX	XXXX
		4	.140	.094	.080	.070	.280	.188	.160	.140	.560	.376	.320	.280	XXXX	.326	XXXX	XXXX
	14	6	.080	.062	.046	.043	.160	.124	.092	.086	.320	.248	.184	.172	XXXX	XXXX	.206	XXXX
		8	.056	.040	.033	.028	.093	.067	.055	.047	.186	.134	.110	.094	XXXX	XXXX	XXXX	.133
		10	.041	.030	.023	.020	.068	.050	.038	.033	.136	.100	.076	.066	XXXX	XXXX	XXXX	XXXX
		12	.031	.020	.018	.016	.052	.033	.030	.027	.104	.066	.060	.054	XXXX	xxxx	XXXX	XXXX

Table 9. Croppin	g-management	values	for	selected	R,	Τ/К,	and	slopes	(continued	I)
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Table 9—250 R Factor 250

1917 The second distance of the

	т/к			ecessary with no (Slope	C'' val practice lenath)	lues e					Nece	ssary "(C" value:	with pr	actices			
	т/к	Slope %	100/	000/	0.000/	400/		Conte (Slope	ouring e length)		Co	ontour s (Slope	tripcropp e length)	oing		Contouring Spc}	with terra cings)	ces
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′
		2	.320	.214	.160	.144	.533	.357	.267	.240	XXXX	.714	.534	.480	,533	XXXX	XXXX	XXXX
		4	.160	.106	.091	.080	.320	.212	.182	.160	.640	.424	.364	.320	XXXX	.374	XXXX	XXXX
	16	6	.091	.071	.054	.050	.182	.142	.108	.100	.364	.284	.216	.200	XXXX	XXXX	.234	XXXX
		8	.064	.046	.038	.032	.107	.077	.063	.053	.214	.154	.126	.106	ХХХХ	XXXX	XXXX	.151
		10	.048	.034	.027	.023	.080	.057	.045	.038	.160	.114	.090	.076	XXXX	ХХХХ	XXXX	XXXX
		12	.035	.026	.022	.018	.058	.043	.037	.030	.116	.086	.074	.060	XXXX	XXXX	XXXX	XXXX
, ,	18	2	.360	.240	.180	.162	.600	.400	.300	.270	XXXX	.800	.600	.540	.600	хххх	XXXX	XXXX
		4	.180	.120	.103	.090	.360	.240	.206	. 180	.720	.480	.412	.360	XXXX	.420	XXXX	XXXX
		6	.103	.080	.060	.055	.206	.160	.120	.110	.412	.320	.240	.220	XXXX	XXXX	.264	XXXX
		8	.072	.046	.042	.036	.120	.077	.070	.060	.240	.154	.140	.120	XXXX	XXXX	XXXX	.172
		10	.053	.038	.030	.026	.088	.063	.050	.043	.176	.126	.100	.086	XXXX	XXXX	XXXX	XXXX
		12	.040	.028	.023	.021	.067	.047	.038	.035	.134	.094	.076	.070	XXXX	XXXX	XXXX	XXXX
		2	.400	.266	.200	.180	.667	.443	.333	.300	XXXX	.886	.666	.600	.667	XXXX	XXXX	XXXX
		4	.200	.134	.114	.100	.400	.268	.228	.200	.800	.536	.456	.400	XXXX	.466	XXXX	XXXX
	20 -	6	.114	.089	.066	.062	.228	.178	.132	.124	.456	.356	.264	.248	XXXX	XXXX	.294	XXXX
		8	.080	.057	.047	.040	.133	.095	.078	.067	.266	.190	.156	.134	XXXX	XXXX	XXXX	.190
		10	.059	.042	.033	.029	.098	.070	.055	.048	.196	.140	.110	.096	XXXX	XXXX	XXXX	XXXX
		12	.045	.031	.025	.023	.075	.052	.042	.038	.150	.104	.084	.076	XXXX	XXXX	XXXX	XXXX

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Table 9. Cro	pping-management	values	for	selected	R,	T/K,	and	slopes	(continued)
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Τc	ıble	9-	270
R	Fact	or	270

		Ne	cessary with no (Slope	"C" val practice length)	ues					Nece	ssary ''C	.'' values	with pr	actices			
T/K	Slope %	100/	200/	200/	400/		Conto (Slope	ouring length)		Co	ontour st (Slope	tripcrop length)	ping	C	Contouring (Spa	with terra cings)	ces
		100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400'	100′	75′	67′	56'
	2	.074	.050	.037	.030	.123	.083	.062	.050	.246	.166	.124	.100	. 123	XXXX	XXXX	XXXX
	4	.037	.024	.021	.019	.074	.048	.042	.038	.148	.096	.084	.076	XXXX	.086	XXXX	XXXX
4	6	.021	.016	.013	.011	.042	.032	.026	.022	.084	.064	.052	.044	хххх	XXXX	.054	XXXX
	8	.015	.010	.009	.007	.025	.017	.015	.012	.050	.034	.030	.024	XXXX	XXXX	XXXX	.035
	10	.010	.008	.006	.005	.017	.013	.010	.008	.034	.026	.020	.016	XXXX	XXXX	XXXX	XXXX
	12	.008	.006	.005	.004	.013	.010	.008	.006	.026	.020	.016	.012	XXXX	XXXX	XXXX	XXXX
	2	.111	.074	.056	.044	.185	.123	.093	.073	.370	.246	.186	.146	.185	хххх	XXXX	XXXX
	4	.056	.037	.032	.028	.112	.074	.064	.056	.224	.148	.128	.112	XXXX	.130	XXXX	XXXX
6	6	.032	.024	.019	.017	.064	.048	.038	.034	.128	.096	.076	.068	XXXX	XXXX	.080	XXXX
	8	.022	.016	.013	.011	.037	.027	.022	.018	.074	.054	.044	.036	XXXX	XXXX	XXXX	.053
	10	.016	.012	.009	.008	.027	.020	.015	.013	.054	.040	.030	.026	XXXX	XXXX	XXXX	XXXX
	12	.013	.009	.007	.007	.022	.015	.012	.012	.044	.030	.024	.024	XXXX	XXXX	хххх	XXXX
	2	.148	.099	.074	.063	.247	.165	.123	.105	.514	.330	.246	.210	.247	XXXX	XXXX	XXXX
	4	.074	.050	.042	.037	.148	.100	.084	.076	.296	.200	.168	.152	XXXX	.172	XXXX	XXXX
8	6	.042	.033	.024	.023	.084	.066	.048	.046	.112	.332	.096	.092	XXXX	XXXX	.108	XXXX
	8	.030	.021	.018	.015	.050	.035	050.	.025	.100	.070	.060	.050	ХХХХ	XXXX	XXXX	.070
	10	.022	.016	.012	.011	.037	.027	.020	.018	.074	.054	.040	.036	XXXX	XXXX	хххх	XXXX
	12	.016	.012	.010	.008	.027	.020	.017	.013	.054	.040	.054	.026	XXXX	xxxx	XXXX	XXXX

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		Ne	cessary with no	"C" valu practice	Jes					Nece	ssary ''C	." value	s with pr	actices	<u> </u>		
Т/К	Slope %		(Slope				Conto (Slope	ouring length)		Co	ntour st (Slope	ipcropy length)	oing	c	ontouring (Spa	with terrac cings)	:es
		100'	200'	300'	400′	100'	200′	300′	400′	100′	200′	300′	400'	100′	75′	67′	56′
	2	. 185	.124	.093	.083	.308	.207	.155	.138	.616	.414	.310	.276	.308	XXXX	XXXX	XXXX
	4	.093	.061	.053	.047	.188	.122	.106	.094	.376	.244	.212	.188	XXXX	.216	XXXX	XXXX
10	6	.053	.041	.031	.028	.106	.082	.062	.056	.212	.164	.124	.112	XXXX	XXXX	.134	XXXX
	8	.037	.027	.021	.019	.062	.045	.035	.032	.124	.090	.070	.064	XXXX	XXXX	XXXX	.088
	10	.027	.019	.016	.014	.045	.032	.027	.023	.090	.064	.054	.046	ХХХХ	XXXX	XXXX	XXXX
	12	.021	.015	.012	.010	.035	.025	.020	.017	.070	.050	.040	.034	XXXX	XXXX	XXXX	XXXX
	2	.222	.148	.111	.100	.370	.247	.185	.167	.617	.414	.370	.334	.370	XXXX	XXXX	XXXX
	4	.111	.074	.064	.056	.222	.148	.128	.112	.444	.296	.256	.224	XXXX	.258	XXXX	XXX <
12	6	.064	.050	.037	.034	.128	.100	.074	.068	.256	.200	.148	.136	XXXX	XXXX	.162	XXXX
	8	.044	.032	.026	.022	.073	.053	.043	.037	.146	.106	.086	.074	XXXX	XXXX	XXXX	.107
	10	.033	.024	.019	.016	.055	.040	.032	.027	.110	.080	.064	.054	XXXX	XXXX	XXXX	XXXX
	12	.024	.018	.015	.013	.040	.030	.025	.022	.080	.060	.050	.044	XXXX	XXXX	XXXX	XXXX
	2	.259	.173	.130	.117	.432	.288	.217	.195	.864	.576	.434	.390	.432	XXXX	XXXX	XXXX
	4	.130	.087	.074	.065	.260	.174	.148	.130	.520	.348	.296	.260	XXXX	.342	XXXX	XXXX
14	6	.074	.058	.043	.040	.148	.116	.086	.080	.296	.232	.172	.160	XXXX	XXXX	.190	XXXX
	8	.052	.037	.030	.026	.087	.062	.050	.043	.174	.124	.100	.086	XXXX	XXXX	XXXX	.123
	10	.038	.027	.022	.019	.063	.045	.037	.032	.126	.090	.074	.064	XXXX	XXXX	XXXX	XXXX
	12	.029	.020	.017	.015	.048	.033	.028	.025	.096	.066	.056	.050	XXXX	XXXX	XXXX	XXXX

Statistics of the

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Table 9--270 R Factor 270

Heaven Development

Table 9. Cropping-management values	for selected	R, T/K, a	nd slopes	(continued)
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To	able	9-	-270
R	Fact	or	270

~			Ne	Necessary "C" values with no practice (Slope length)							Nece	ssary "C	." value:	s with pr	actices											
	τ/κ	Slope %	100/	200/	200/	400/	Contouring (Slope length)				Contour stripcropping (Slope length)				Contouring with terraces (Spacings)											
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75'	67′	56′								
_		2	.296	.198	.148	.133	.493	.330	.247	.222	.986	.660	.494	.444	.493	XXXX	XXXX	ХХХХ								
		4	.148	.098	.084	.074	.247	.163	.140	.123	.494	.326	.280	.246	XXXX	.366	XXXX	ХХХХ								
	16	6	.084	.066	.050	.046	.168	.132	.100	.092	.336	.264	.200	.184	XXXX	XXXX	.216	ХХХХ								
		8	.059	.042	.035	.030	.098	.070	.058	.050	.196	.140	.116	.100	XXXX	хххх	XXXX	.140								
		10	.044	.031	.023	.022	.073	.052	.038	.037	.146	.104	.076	.074	XXXX	XXXX	XXXX	XXXX								
		12	.033	.023	.016	.015	.055	.038	.027	.025	.110	.076	.054	.050	XXXX	XXXX	XXXX	XXXX								
68		2	.333	.222	.167	.150	.555	.370	.278	.250	XXXX	.740	.556	.500	.555	XXXX	хххх	XXXX								
		4	.167	.113	.095	.084	.354	.222	.190	.168	.708	.444	.380	556 .500 380 .336	XXXX	.388	XXXX	XXXX								
	18	6	.095	.074	.056	.051	.190	.158	.112	.102	.380	.316	.224	.204	XXXX	XXXX	.244	XXXX								
		8	.067	.047	.039	.033	.112	.078	.065	.055	.224	.156	.130	.110	XXXX	XXXX	XXXX	.158								
		10	.049	.035	.026	.024	.082	.058	.043	.040	.164	.280	.086	.080	XXXX	XXXX	XXXX	XXXX								
		12	.037	.026	.023	.021	.062	.043	.038	.035	.123	.086	.076	.070	XXXX	XXXX	XXXX	XXXX								
-		2	.370	.246	.185	.166	.617	.410	.308	.277	XXXX	.820	.616	.554	.617	XXXX	XXXX	XXXX								
		4	.185	.124	.106	.093	.410	.248	.212	.186	.820	.496	.424	.372	XXXX	.470	XXXX	XXXX								
	20	6	.106	.082	.061	.057	.212	.164	.122	.114	.424	.328	.244	.228	XXXX	XXXX	.272	XXXX								
		8	.074	.053	.044	.037	.123	.088	.073	.062	.246	.176	.146	.124	XXXX	XXXX	XXXX	.177								
	!	10	.055	.039	.031	.027	.092	.065	.052	.045	.184	,130	.104	.090	XXXX	XXXX	хххх	XXXX								
		12	.041	.029	.023	.021	.068	.048	.038	.035	.136	.096	.076	.070	XXXX	XXXX	XXXX	XXXX								

т/к		with no practice (Slope length)				Necessary "C" values with practices												
	т/к	Slope %				1001		Conto (Slope	ouring length)		C	ontour st (Slope	tripcrop length)	ping		Contouring with ter (Spacings) 75' 67 XXXX XXXX .080 XXXX XXXX .055 XXXX XXXX XXXX </th <th>with terra icings)</th> <th>ces</th>	with terra icings)	ces
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	with terrac cings) 67' XXXX	56′
		2	.069	.046	.034	.031	.115	.077	.057	.052	.230	.154	.114	.104	.115	XXXX	XXXX	XXXX
		4	.034	.023	.020	.017	.068	.046	.040	.034	.092	.092	.080	.068	XXXX	.080	XXXX	XXXX
	4	6	.020	.015	.012	.010	.040	.030	.024	.020	.080	.060	.048	.040	XXXX	XXXX	.050	ХХХХ
		8	.014	.010	.008	.007	.023	.017	.013	.012	.046	.034	.026	.024	XXXX	XXXX	XXXX	.033
		10	.010	.008	.006	.005	.017	.013	.010	.008	.034	.026	.020	.016	XXXX	XXXX	XXXX	XXXX
		12	.008	.006	.005	.004	.013	.010	.008	.007	.026	.020	.016	.014	XXXX	XXXX	XXXX	XXXX
S	<u> </u>	2	.103	.069	.052	.046	.172	.115	.087	.077	.344	.230	.174	.154	.172	XXXX	XXXX	XXXX
		4	.052	.034	.030	.026	.104	.068	.060	.052	.208	.136	.120	.104	XXXX	.120	XXXX	XXXX
	6	6	.030	.023	.017	.016	.060	.046	.034	.032	.120	.092	.068	.064	XXXX	XXXX	.074	XXXX
		8	.021	.014	.012	.010	.035	.023	.020	.017	.070	.046	.040	.034	XXXX	XXXX	ХХХХ	.050
		10	.015	.011	.008	.007	.025	.018	.013	.012	.050	.036	.026	.024	XXXX	XXXX	XXXX	XXXX
		12	.012	.008	.007	.006	.020	.013	.012	.010	.040	.026	.024	.020	XXXX	XXXX	XXXX	XXXX
		2	.138	.092	.069	.062	.230	.153	.115	.103	.460	.306	.230	.206	.230	XXXX	XXXX	XXXX
		4	.069	.046	.039	.034	.138	.092	.078	.068	.276	.184	.156	.136	XXXX	.160	XXXX	XXXX
	8	6	.039	.030	.023	.021	.078	.060	.046	.042	.156	.120	.092	.(81	XXXX	XXXX	.100	XXXX
		8	.028	.020	.017	.014	.047	.033	.028	.023	.094	.066	.056	.046	XXXX	XXXX	XXXX	.065
		10	.020	.014	.011	.010	.033	.023	.018	.017	.066	.046	.036	.034	XXXX	XXXX	XXXX	XXXX
		12	.015	.011	.009	.008	.025	.018	.015	.013	.050	.036	.030	.026	XXXX	XXXX	XXXX	XXXX

Table 9-290 R Factor 290

Table 9.	Cropping-management	values	for	selected	R,	Т/К,	and	slopes	(continued)

Table 9—290 R Factor 290

			Ne	with no	"C" valu practice	Jes	Ī				Nece	ssary "C	" values	with pr	actices			races									
	τ/κ	Slore %		(Slope			- Contouring (Slope length)				Co	ontour st (Slope	ripcrop length)	oing	Contouring with terraces (Spacings)												
			100'	200'	300'	400'	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′									
		2	.172	.115	.086	.078	.287	.192	.143	.130	.574	.384	.286	.260	.287	ХХХХ	XXXX	XXXX									
		4	.086	.057	.049	.043	.172	.114	.098	.086	.344	.228	.196	.172	XXXX	.200	XXXX	XXXX									
	10	6	.049	.039	.029	.026	.098	.078	.058	.052	.196	.156	.116	.104	XXXX	XXXX	.126	XXXX									
		8	.034	.025	.020	.017	.057	.042	.033	.028	.114	.084	.066	.056	XXXX	XXXX	XXXX	.082									
		10	.025	.018	.014	.013	.042	.030	.023	.022	.084	.060	.046	.044	XXXX	XXXX	XXXX	XXXX									
		12	.019	.014	.011	.610	.032	.023	.018	.017	.064	.046	.036	.034	XXXX	XXXX	XXXX	XXXX									
70		2	.207	.138	.103	.093	.345	.230	.172	.155	.690	.460	.406	.310	.345	XXXX	XXXX	XXXX									
		4	.103	.069	.059	.052	.206	.138	.118	.104	.412	.276	.236	.208	XXXX	.240	XXXX	XXXX									
	12	6	.059	.046	,034	.032	.118	.092	.068	.064	.236	.184	. 136	.128	XXXX	XXXX	.152	XXXX									
		8	.041	.030	.024	.021	.068	.050	.040	.035	.136	.100	.080	.070	XXXX	XXXX	XXXX	.098									
		10	.031	.022	.018	.015	.052	.037	.030	.025	.104	.074	.060	.050	XXXX	XXXX	XXXX	XXXX									
		12	.023	.017	.013	.012	.038	.028	.022	.020	.076	.056	.044	.040	XXXX	XXXX	XXXX	XXXX									
		2	.241	.161	.121	.109	.402	.268	.202	.182	.804	.536	.404	.364	.402	XXXX	XXXX	XXXX									
		4	.121	.080	.069	.061	.242	.160	.138	.122	.484	.320	.276	.244	XXXX	.282	XXXX	XXXX									
	14	6	.069	.054	.040	.037	.138	.108	.080	.074	.278	.216	.160	.148	XXXX	XXXX	.176	XXXX									
		8	.048	.034	.028	.024	.080	.057	.047	.040	.160	.114	.094	.080	XXXX	XXXX	XXXX	.115									
		10	.035	.026	.020	.017	.058	.043	.033	.028	.116	.086	.066	.056	XXXX	XXXX	XXXX	XXXX									
		12	.027	.019	.015	.014	.045	.032	.025	.023	.090	.064	.050	.046	XXXX	XXXX	XXXX	XXXX									

		11 6	•	•							-						RF	actor 290
-			Ne	ecessary with no (Slope	"C" valı practice lenath)	values tice Necessary "C" values with practices th)												
	Τ'K	Slope °				400/	Contouring (Slope length)				Contour stripcropping (Slope length)				Contouring with terraces (Spacings)			
			100′	200′	300′	400	100'	200′	300′	400′	100′	200′	300′	400′	100′	75'	67′	56′
		2	.276	.184	.138	.124	.460	.307	.230	.207	.920	.614	.460	.414	.460	XXXX	XXXX	XXXX
		4	.138	.092	.079	.069	.276	.184	.158	.138	.552	.368	.316	.276	XXXX	.322	XXXX	XXXX
	16	6	.079	.061	.046	.043	.158	.122	2 .092 .086 .316 .244 .184 5 .053 .047 .184 .130 .106	.172	XXXX	XXXX	.202	XXXX				
		8 .055 .039 .032 .028 .092 .065 .053 .047 .184	.130	.106	.094	XXXX	XXXX	XXXX	.132									
		10	.041	.029	.023	.020	.068	.048	.038	.033	.136	.096	.076	.066	XXXX	XXXX	XXXX	XXXX
		12	.030	.022	.018	.016	.050	.037	.030	.027	.100	.074	.060	.0.54	XXXX	XXXX	XXXX	ХХХХ
71		2	.310	.207	.155	.139	.517	.345	.258	.232	XXXX	.690	.516	.464	.517	XXXX	XXXX	XXXX
		4	.155	.103	.089	.078	.310	.206	.178	.156	.620	.412	.356	.312	XXXX	.362	XXXX	XXXX
	18	6	.089	.069	.052	.048	.178	.138	.104	.096	.356	.276	.208	.192	XXXX	XXXX	.226	XXXX
		8	.062	.C44	.037	.031	.103	.073	.062	.052	.206	.146	.122	.104	XXXX	XXXX	XXXX	.148
		10	.046	.032	.026	.023	.077	.053	.043	.038	.154	.106	.086	.076	XXXX	XXXX	ХХХХ	XXXX
		12	.034	.024	.020	.018	.057	.040	.033	.030	.114	.080	.066	.060	XXXX	XXXX	XXXX	XXXX
-		2	.345	.230	.172	.155	.575	.383	.287	.258	XXXX	.766	.574	.516	.575	XXXX	XXXX	XXXX
		4	.172	.115	.099	.086	.344	.230	.198	.172	.688	.460	.396	.344	XXXX	.412	XXXX	XXXX

.228

.136

.096

.212

.114

.084

.074 .064

XXXX

XXXX

XXXX

XXXX

.396

.230

.170

.130 .090

.308

.164

.124

XXXX

XXXX

XXXX

XXXX

.252

XXXX

XXXX

XXXX

XXXX

XXXX

XXXX

.165

Table 9. Cropping-management values for selected R, T/K, and slopes (continued)

.057

.041

.029

.022

.077

.049

.037

.027

.099

.069

.051

.039

6

8

10

12

20

.053

.034

.025

.019

.198

.115

.085

.065

.154

.082

.062

.045

.114

.068

.048

.037

: .106

.042

.032

.057

Table 9—290 R Factor 290

Table 9. Cropping-management vo	alues for selected	R, T/K, and	slopes (co	ontinued)
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Tc	ıble	9-	-3	10
R	Fact	or	3	10

_		Slope	Necessary "C" values with no practice (Slope length)				Necessary "C" values with practices											
	T∕K		100′	200/	200'	400/		Conte (Slope	ouring length)		Co	ontour st (Slope	ripcropp length)	oing	Contouring with terraces (Spacings)			
			100	200	300	400	100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56'
		2	.065	.043	.032	.029	.108	.072	.053	.048	.216	.144	.106	.096	.108	XXXX	ХХХХ	XXXX
		4	.032	.021	.019	.016	.064	.042	.038	.032	.128	.084	.076	.064	XXXX	.074	ХХХХ	XXXX
	4	6	.019	.014	.011	.010	.038	.028	.022	.020	.076	.056	.044	.040	XXXX	XXXX	.046	XXXX
72	4	8	.013	.009	.008	.006	.022	.015	.013	.010	.044	.030	.026	.020	XXXX	XXXX	ХХХХ	.032
		10	.009	.007	.005	.005	.015	.012	.008	.008	.030	.024	.016	.016	XXXX	XXXX	ХХХХ	XXXX
		12	.007	.005	.C05	.004	.012	.008	.008	.007	.024	.016	.016	.014	XXXX	XXXX	ХХХХ	XXXX
		2	.097	.065	.048	.043	.162	.108	.080	.072	.324	.216	.160	.144	.162	XXXX	XXXX	XXXX
		4	.048	.032	.032 .028 .025 .096 .064 .056 .050 .192 .128 .1 .021 .016 .015 .056 .042 .032 .030 .112 .084 .0	.112	.100	ХХХХ	,112	ХХХХ	XXXX							
	,	6	.028	.021		.030	.112	.084	.064	.060	XXXX	XXXX	.070	XXXX				
	0	8	.019	.014	.012	.010.	.032	.023	.020	.017	.064	.046	.040	.034	XXXX	XXXX	XXXX	.047
		10	.014	.010	800.	.007	.023	.017	.013	.012	.046	.034	.026	.024	XXXX	XXXX	XXXX	ХХХХ
		12	.011	.008	.006	.006	.018	.013	.010	.010	.036	.026	.020	.020	XXXX	ХХХХ	XXXX	ХХХХ
		2	.129	.C86	.065	.058	.215	.143	.108	.097	.430	.286	.216	.194	.215	XXXX	XXXX	XXXX
		4	.065	.043	.037	.032	.130	.C86	.074	.064	.260	.172	.148	.128	XXXX	.150	XXXX	ХХХХ
	9	6	.037	.028	.021	.020	.074	.056	.042	.040	.148	.112	.084	.080	XXXX	XXXX	.094	XXXX
	0	8	.026	.019	.015	.013	.043	.032	.025	.022	.086	.064	.050	.044	XXXX	XXXX	XXXX	.062
		10	.019	.014	.010	.009	.032	.023	.017	.015	.064	.046	.034	.030	XXXX	XXXX	XXXX	XXXX
		12	.014	.010	.008	.007	.023	.017	.013	.012	.046	.034	.026	.024	xxxx	xxxx	XXXX	XXXX
Table 9. Cropping-management values for selected R, T/K, and slopes (continued)

Table 9-310 R Factor 310

		Slope ଙ	Necessary "C" values with no practice (Slope length)				Necessary "C" values with practices											
	тк			loope	300'	400'	Contouring (Slope length)				Contour stripcropping (Slope length)				Contouring with terraces (Spacings)			
			100'	200′			100′	200′	300′	400′	100′	200′	300′	400′	100′	75′	67′	56′
		2	.161	.108	.081	.068	.268	.180	.135	.113	.536	.360	.270	.226	.268	XXXX	ХХХХ	XXXX
		4	.081	.054	.046	.041	.162	.108	.092	.082	.324	.216	.184	.164	XXXX	.188	ХХХХ	XXXX
	10	6	.046	.036	.027	.025	.092	.072	.054	.050	.184	.144	.108	1.00	XXXX	XXXX	.108	XXXX
		8	.032	.023	.019	.016	.053	.038	.032	.027	.106	.076	.064	.054	XXXX	XXXX	ХХХХ	.077
		10	.024	.017	.013	.012	.040	.028	.022	.020	.080	.056	.044	.040	XXXX	XXXX	XXXX	XXXX
		12	.018	.013	.010	.009	.030	.022	.017	.015	.060	.044	.034	.030	XXXX	ХХХХ	XXXX	XXXX
73		2	.194	.129	.097	.087	.323	.215	.162	.145	.646	.430	.324	.290	.323	XXXX	XXXX	XXXX
		4	.097	.065	.055	.048	.194	.130	.110	.096	.388	.260	.220	.192	ХХХХ	.226	XXXX	XXXX
	12	6	.055	.043	.032	.030	.110	.086	.064	.060	.220	.172	.128	.120	XXXX	XXXX	.142	XXXX
		8	.039	.028	.023	.019	.065	.047	.038	.032	.130	.094	.076	.064	XXXX	XXXX	XXXX	.092
		10	.029	.021	.016	.012	.048	.035	.027	.020	.096	.070	.054	.040	XXXX	XXXX	XXXX	XXXX
		12	.021	.014	.012	.011	.035	.023	.020	.018	.070	.046	.040	.036	XXXX	XXXX	XXXX	XXXX
		2	.226	.151	.113	.101	.377	.252	.188	.168	.774	.504	.376	.336	.377	XXXX	XXXX	XXXX
	14	4	.113	.075	.065	.057	.226	.150	.130	.114	.452	.300	.260	.228	XXXX	.264	XXXX	XXXX
		6	.065	.050	.037	.035	.130	.100	.074	.070	.260	.200	.148	.140	ХХХХ	XXXX	.164	XXXX
		8	.045	.032	.026	.023	.075	.053	.043	.038	.150	.106	.086	.076	XXXX	XXXX	XXXX	.108
		10	.034	.024	.019	.016	.057	.040	.032	.027	.114	.080	.064	.054	XXXX	XXXX	XXXX	XXXX
		12	.025	.017	.014	.013	.042	.028	.023	.022	.084	.056	.046	.044	XXXX	XXXX	XXXX	XXXX

		Necessary "C" values with no practice				Necessary "C" values with practices											
τ/κ	Slope		(Slope	300′	400′	Contouring (Slope length)				Contour stripcropping (Slope length)				Contouring with terraces (Spacings)			
		100′	200′			100′	200′	300′	400′	100′	200′	300′	400′	100′	75'	67′	56'
	2	.258	.172	.129	.116	.430	.287	.215	.193	.860	.574	.430	.386	.430	XXXX	XXXX	XXXX
	4	.129	.086	.074	.065	.258	.172	.148	.130	.516	.344	.296	.260	XXXX	.300	XXXX	XXXX
16	6	.074	.057	.043	.040	.148	.114	.086	.080	.296	.228	.172	.160	XXXX	XXXX	.188	XXXX
	8	.052	.037	.030	.026	.087	.062	.050	.043	.174	.124	.100	.086	ХХХХ	XXXX	XXXX	.123
	10	.038	.027	.022	.019	.063	.045	.037	.032	.126	.090	.074	.064	XXXX	XXXX	XXXX	XXXX
	12	.028	.020	.016	.015	.047	.033	.027	.025	.094	.066	.054	.050	ХХХХ	XXXX	XXXX	XXXX
	2	.290	.194	.145	.130	.483	.323	.242	.217	.966	.646	.484	.434	.483	ХХХХ	XXXX	XXXX
74	4	.145	.097	.083	.073	.290	.194	.166	.146	.580	.388	.332	.292	XXXX	.338	XXXX	XXXX
18	6	.083	.065	.048	.045	.166	.130	.096	.090	.332	.260	.192	.180	XXXX	XXXX	.21	XXXX
	8	.058	.041	.034	.029	.097	.068	.057	.048	.194	.136	.114	.096	XXXX	XXXX	XXXX	.138
	10	.043	.030	.024	.021	.072	.050	.040	.035	.144	.100	.080	.070	XXXX	ХХХХ	XXXX	XXXX
	12	.032	.022	.018	.017	.053	.037	.030	.028	.106	.074	.060	.056	XXXX	XXXX	XXXX	XXXX
	2	.323	.215	161	.145	.538	.358	.268	.242	1.076	.716	.536	.484	.538	XXXX	XXXX	XXXX
	4	.161	.108	.092	.081	.322	.216	.184	.162	.644	.432	.368	.324	XXXX	.376	XXXX	XXXX
20	6	.092	.072	.054	.050	.184	,144	,108	.100	.368	.288	.216	.200	хххх	XXXX	.236	XXXX
	8	.065	.046	.038	.032	.108	.077	.063	.053	.216	.154	.126	.106	XXXX	XXXX	XXXX	.153
	10	.048	.034	.027	.023	.080	.057	.045	.038	.160	.114	.090	.076	XXXX	XXXX	XXXX	XXXX
	12	036	025	020	.019	.060	.042	.033	.032	.120	.084	.066	.064	XXXX	XXXX	XXXX	XXXX

Table 9. Cropping-management values for selected R, T/K, and slopes (continued)

Table 9—310 R Factor 310

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