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Rating South Dakota Soils According to Productivity

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RATING SOUTH DAKOTA SOILS ACCORDING TO PRODUCTIVITY



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South Dakota State University, Brookings
In cooperation with the Soil Conservation Service, USDA

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Cover Photo by F. C. Westin

A view of Slim Buttes in northwest South Dakota (Harding County). A primary use of the soils in this area is for rangeland which is depicted here. One of the challenges facing soil scientists in rating soils is to achieve a comparison between soils used for rangeland and those used for crop production.

RATING SOUTH DAKOTA SOILS ACCORDING TO PRODUCTIVITY¹

by

D. D. Malo and F. C. Westin²

ABSTRACT

Since yield predictions for 1,874 South Dakota soil phases were available it was decided to develop a method to rate soils according to their relative crop and grass producing ability. The method developed to rate soils can be adapted for a county, region, land resource area, or for an entire state. Range yields in terms of animal unit months and yields for adapted or widely grown crops under non-irrigated conditions were used to calculate the final soil productivity rating for each soil phase. There are three steps in the procedure used to calculate the final soil productivity rating: 1) determine a comparative crop rating for each soil phase for soils capable of being cropped; 2) calculate a comparative range rating for soils adapted for grass or range; and 3) determine a balance point factor used to relate crop ratings with range ratings. Results are printed by computer in two formats, a high-low array and an alphabetical array. Ratings correlate with soil properties, precipitation and land sale figures. Ratings can be used to evaluate land and to compare soils which have different properties and environments within a county or between counties.

INTRODUCTION

Soils may be thick or thin, stony or non-stony, salty or non-salty, sandy or clayey or of medium texture, sloping or flat or in basins, and may occur where climates are moist or dry and warm or cool. Soil variability affects soil behavior including what crops can be grown and what yields of crops and grass can be expected.

Soil maps show where various soils occur. Soil map units are defined in terms of a national soil classification system, and the basic unit of soil classification is the soil series. Two examples are the Kranzburg series and the Sioux series. Kranzburg is defined as having a deep permeable silty profile on a sloping landscape, while the Sioux series has a thin gravelly profile generally on flat terraces or steep slopes. From this brief description it is obvious that Kranzburg has characteristics that would make it productive for a large number of crops, while Sioux is thin and droughty and would produce only a poor growth of grass.

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South Dakota soils have been organized into about 510 soil series--each of which is described in detail by the National Cooperative Soil Survey. Soil series are subdivided into phases to make predictions more precise. Most soil phases are made on the basis of slope. Thus, the Kranzburg series may have several phases such as Kranzburg 0-2% slopes, Kranzburg 3-5% slopes, etc.

In addition to slope phases, South Dakota soils have defined geographic ranges. These coincide generally with Land Resource Regions and Areas shown in Figure 1. Some soil series (Houdek, for example) occur in more than one resource area. Since the climate is slightly different between areas the yields of crops also will be different. Thus, in the tables different ratings for a soil series slope phase will be given for different resource areas. The resource area is given in column 6 of the tables in the appendix.

In addition to the description of its landscape and profile (a cut exposing a vertical section of the soil), each soil series and many soil phases have been observed on research fields, demonstration plots, or farm fields to determine which crops grow well and what crop yields normally can be expected.

Because yield predictions for South Dakota soil phases are available, it was decided to rate their relative crop and grass producing ability. Other researchers have examined the productivity relationships between crops, soils, and climate (Kellogg and Ableiter, 1935; Storie and Weir, 1942; Scholtes and Riecken, 1952; Klingelhoets and Westin, 1954; Fehrenbacher *et al.*, 1978). A soil rating procedure described by Aandahl *et al.* in 1954 was applied to some South Dakota soils by Westin *et al.* in 1974.

The ratings developed in this paper are comparative ratings, and they apply to the soil series taxonomic unit, which, in some cases, includes phases of soil series for a Land Resource Area.

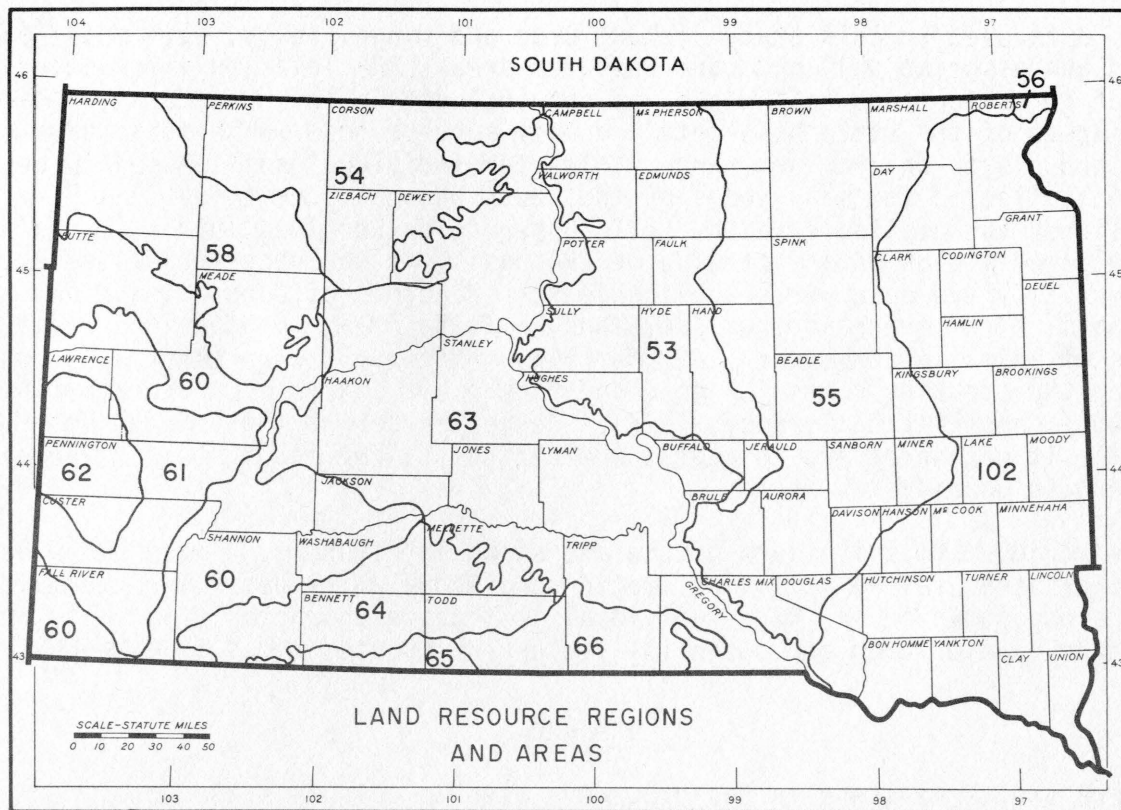
When land is evaluated using a detailed soil survey, the mapping unit represents the phase or mapping unit complex as it applies to the climatic conditions for the soils of a particular county. Thus, the soil phase rating used in this publication is a regional rating and will differ somewhat from a soil map unit rating developed for detailed county soil surveys.

Additional information about the extent of the major soil series found in South Dakota is available (Westin and Bannister, 1971; Westin and Malo, 1978). The modern published detailed soil surveys and your local USDA Soil Conservation Service officer are other sources of soil series information.

Soil ratings determined by the methods described in this publication compare soils and should not change relative to each other with fluctuations in economic conditions since they are based on the physical and chemical properties of soils. Advancements in technology also should not greatly alter the ranking of soils, because soils tend to behave similarly. The potential yield advantage of one soil over another usually does not change because a new form of fertilizer or a new grain variety has been developed.

An important feature of the method is that it can be used statewide. Crop yields and/or range production in terms of animal-unit months were used to calculate the final soil ratings for each soil phase.

Figure 1. Land Resource Regions in South Dakota



LEGEND

SOUTH DAKOTA LAND RESOURCE REGIONS AND AREAS

Central Feed Grains and Livestock Region

102 Loess, Till, and Sandy Prairies

Northern Great Plains Spring Wheat Region

53 Dark Brown Glaciated Plain

54 Rolling Soft Shale Plain

55 Black Glaciated Plains

56 Red River Valley of the North

Western Great Plains Range and Irrigated Region

58 Northern Rolling High Plains

60 Pierre Shale Plains and Badlands

61 Black Hills Footslopes

62 Black Hills

63 Rolling Pierre Shale Plains

64 Mixed Sandy and Silty Tableland

65 Nebraska Sand Hills

66 Dakota-Nebraska Eroded Tableland

Reference: Predicted Yields for the Soils of South Dakota.
USDA - Soil Conservation Service, 1973.

DATA

The data used in this study include crop and range yields, soil maps (both detailed and association), and Land Resource Area (LRA) location information. The number of acres for each soil phase was not included in the procedures, because not all areas of the state have detailed soil surveys from which these data could be obtained. Data on crop and range yields for individual soil phases in each LRA have been collected for many years by the South Dakota Cooperative Soil Survey and are published and available (USDA, Soil Conservation Service, 1973). In using crop and range yields on a statewide or LRA basis, it was necessary to select and use potential yield data where applicable for the crops of corn, winter and spring wheat, oats, flax, grain sorghum, soybeans, alfalfa forage production, range yield in terms of animal unit months (AUMs). The AUM ratings were determined by averaging the stocking rates for good and fair range conditions for each range site (USDA, Soil Conservation Service, 1971). To better define the AUM ratings for certain soils it was necessary to adjust AUM ratings to reflect agronomic factors not otherwise considered.

The various LRA's in South Dakota are shown in Figure 1. These LRA's correspond to areas of fairly uniform climatic conditions which determine the major adapted crops grown in an LRA. Individual soil phase characteristics also influence the type of crop and potential yields for adapted crops in each LRA.

METHODS

There are three steps in the procedure used to calculate the final ratings of a soil phase based on productivity: 1) determine a comparative crop rating for each soil phase which has a land capability class of I through IV; 2) calculate a comparative range rating for soils in all land capability classes, I through VII; and 3) determine a balance-point factor used to relate crop ratings with range ratings.

Step 1

Comparative crop ratings were prepared for each soil phase in the state which had yield predictions for one or more of the major crops. The ratings are for soil phases of each land subclass of Capability Classes I through IV. A sample listing of soils and yield information to be used as an example is presented in Table 1. The purpose of this step is to determine the comparative yielding ability of each soil phase for each adapted crop individually and to obtain an average adapted crop rating.

The crop yields used in this step are based on high levels of management under non-irrigated conditions. Since the ratings are comparative the use of a high management level affects all soils about equally. High levels of management for crop production include the following practices:

1. Soil fertility levels are monitored and maintained for high crop production.
2. Crop residues, green manure crops, and/or animal wastes are returned to the soil to help maintain soil organic matter content and improve soil structure.
3. Conservation tillage and cropping practices are followed so wind and water erosion losses are kept within the established guidelines.

Table 1. Sample Soils and Their Predicted Yields*

Soil	Land Resource Area	Phase **	Slope (PCT)	Land Capability Subclass	Range Site	Corn Bu/A	Oats Bu/A	Flax Bu/A	-Wheat- Wtr. Bu/A	Spr. Bu/A	Soybeans Bu/A	Sorghum Grain Bu/A	Alfalfa T/A	Range Yield lbs/A	Range Yield AUM
A	58		2-6	4E	Sandy	NA	22	NA	18	14	NA	NA	1.1	1900	0.30
B	60		0-2	4S	Clay Pan	NA	21	NA	15	12	NA	NA	0.9	1200	0.19
C	102		0-2	1	Silty	96	90	29	NA	NA	38	81	4.4	4000	0.72
D	102		0-2	4W	Subirrigated	40	49	NA	NA	NA	NA	NA	2.1	4500	1.35
E	102	E	2-6	4E	Thin Upland	40	50	13	NA	NA	NA	NA	1.5	3200	0.53
F	58		9-15	6S	Shallow	NA	NA	NA	NA	NA	NA	NA	NA	1300	0.23
G	102	S	0-6	4S	Clay Pan	NA	36	13	NA	NA	13	NA	1.4	2500	0.48
H	102	E	6-9	4E	Silty	57	59	NA	NA	NA	24	54	2.8	3600	0.64
I	53		9-15	4E	Silty	NA	39	NA	26	17	NA	28	1.5	2600	0.47
J	55		0-2	2C	Silty	53	64	18	NA	27	NA	57	2.2	3100	0.55
K	55		0-2	2C	Silty	63	71	NA	43	38	NA	NA	2.7	3000	0.54
L	53		0-2	4S	Clay Pan	17	32	10	25	15	NA	24	1.2	2100	0.33
M	55		0-2	2C	Silty	48	61	NA	36	26	NA	54	1.9	3100	0.55
N	102	DNF	0-2	5W	Subirrigated	NA	NA	NA	NA	NA	NA	NA	NA	6000	1.80
O	102		0-2	1	Silty	94	94	NA	NA	NA	40	84	4.3	4000	0.72

* Crop yields based on high level of management, grass yields based on good to fair range conditions.

** Phase Abbreviations: E = Eroded; S = Saline; HWT = High Water Table; DF = Drainage Feasible; DNF = Drainage Not Feasible
NA = Crop not adapted or widely grown in the LRA listed.

4. All pests (primarily weeds, insects, and microorganisms) are controlled by cultural or chemical methods.

5. Adapted crop varieties, high quality seed, and correct plant populations used are those recommended for a particular soil and climatic area.

6. Surface and/or internal drainage is provided for maximum crop production in soils having restricted drainage or excess water.

The soil phase having the highest predicted corn yield was given a rating of 100 percent, and the other soils were given percentage ratings determined by their adapted ability to produce corn when compared to the 100 percent soil (Table 2). Ratings were prepared for each crop. Where no yield data were given, no rating was calculated for that crop. A composite adapted crop rating was then calculated by adding the percentage ratings of each crop where yields were given and dividing by the total number of crops. For example, the average adapted crop rating for Soil C is 98% based on six crops while the average rating for Soil D is 47% based on three crops. The soil having the highest average adapted crop percentage rating was assigned a 100% final crop rating and other soils were given final percentage crop ratings determined by their ability to produce crops when compared to the 100 percent soil. Thus, the final percentage crop rating for each soil phase reflects the comparative ability of the soils to produce adapted crops.

Step 2

Comparative grass or range ratings were prepared for each soil phase in the state. The ratings are for each land subclass of Capability Class I through VII. The grass or range AUM values listed in Table 1 are based on good to fair range conditions. The purpose of this step is to determine the comparative range grazing capacity of each soil phase. No ratings were prepared for Class VIII land because it is non-agricultural.

The soil phase having the highest predicted animal unit month (AUM) value was given a rating of 100 percent, and the other soils were given range percentage ratings determined by their ability to produce grass when compared to the 100 percent soil (Table 3).

Step 3

If equalization is to be achieved, it is necessary for the AUM ratings to be in balance with adapted crop ratings determined in Step 1. This is done by using the final adapted crop ratings and AUM ratings for Class IV soils over all capability subclasses. Class IV soils have the same degree of limitation or hazard for cultivation. These soils have about equal potential for adapted crops or range.

In practice most soils in capability classes I, II, and III are used for cultivated crops while soils in capability classes V, VI, and VII are used to raise grass. Soils in capability class IV are used for crop production and for raising grass. Class IV soils are useful to establish the relationship between the soils used mainly for cropland and those soils used mainly for raising grass.

The soils in class IV vary however, some are wet, some are steep, and some are shallow. Therefore, although all soils in class IV have an equally severe limitation for crop production they are not of equal productivity.

In evaluating land it is necessary to rate all soils--those used for cropland and those used for grass production. If this is to be done equitably there has to be some common means of comparison. Soils in class IV are unique in that they are used for both cropland and grass production. They are a logical group of soils to establish the relationship between cropland and grassland. Class IV soils represent a "balance point" between the final crop ratings presented in Table 2 and the AUM ratings presented in Table 3.

In Table 4, the method used to calculate a balance-point factor for Class IV soils is presented. This factor represents how the two arrays are related. An adjusted range rating is calculated for each soil by using the balance-point factor and the AUM rating. The adjusted range rating represents equalization with the final percent adapted crop rating, so that comparisons can be made among soils.

The final percent crop rating is used as the ultimate soil rating for Class I through IV soils and the adjusted range ratings were used for the ultimate soil rating for Class V through VII soils (see Table 5). Adjusted range ratings are listed for Class I through IV soils in case a range rating is needed for further consideration.

In the Appendix, soil phase ratings--developed by estimated adapted crop and range yields for all the land resource areas in South Dakota--are listed. In Appendix Table A, the soil phases are listed in alphabetical order, while in Appendix Table B, the soils are listed numerically from the highest soil rating percentage to the lowest. Remember that the soil ratings given in the Appendix tables of this bulletin are for phases of individual soil series which may or may not be soil mapping units found in detailed soil surveys.

Table 2. Predicted Crop Yields and Comparative Crop Ratings for Sample Soils Presented in Table 1

Soil	Land Resource Area	Corn		Oats		Flax		Winter Wheat	
		Bu/A	% Rating	Bu/A	% Rating	Bu/A	% Rating	Bu/A	% Rating
A	58		NA	22	23		NA	18	42
B	60		NA	21	22		NA	15	35
C	102	96	100	90	96	29	100		NA
D	102	40	42	49	52		NA		NA
E	102	40	42**	50	53	13	45		NA
F	58		NA		NA		NA		NA
G	102		NA	36	38	13	45		NA
H	102	57	59	59	63		NA		NA
I	53		NA	39	41		NA	26	60
J	55	53	55	64	68	18	62		NA
K	55	63	66	71	76		NA	43	100
L	53	17	18	32	34	10	34	25	58
M	55	48	50	61	65		NA	36	84
N	102		NA		NA		NA		NA
O	102	94	98	94	100		NA		NA

* For adapted crops only

** $42\% = \frac{40}{96} \times 100\%$

NA = Crops not adapted or widely grown in the LRA listed

*** $98\% = \frac{100\% + 96\% + 100\% + 95\% + 96\% + 100\%}{6 \text{ (number of adapted crop yields added together)}} \times 100\%$ (percentage ratings for all adapted crops added together)

**** $99\% = \frac{98\% \text{ (from composite rating)}}{99\% \text{ (highest composite rating of soils examined)}} \times 100\%$

Spring Wheat		Soybeans		Sorghum Grain		Alfalfa		Composite	Final
Bu/A	% Rating	Bu/A	% Rating	Bu/A	% Rating	T/A	% Rating	Crop Rating*	% Crop Rating*
14	37		NA		NA	1.1	25	32	32
12	32		NA		NA	0.9	20	27	27
	NA	38	95	81	96	4.4	100	98***	99****
	NA		NA		NA	2.1	48	47	47
	NA		NA		NA	1.5	34	44	44
	NA		NA		NA	NA	NA	NA	NA
	NA	13	33		NA	1.4	32	37	37
	NA	24	60	54	64	2.8	64	62	63
17	45		NA	28	33	1.5	34	43	43
27	71		NA	57	68	2.2	50	62	63
38	100		NA		NA	2.7	61	81	82
15	39		NA	24	29	1.2	27	34	34
26	68		NA	54	64	1.9	43	62	63
	NA		NA		NA		NA	NA	NA
	NA	40	100	84	100	4.3	98	99	100%

Table 3. Predicted Range Yields and Comparative Ratings for Sample Soils Presented in Table 1

Soil	Land Resource Area	Range Yield AUM	AUM Rating %
A	58	0.30	17*
B	60	0.19	11
C	102	0.72	40
D	102	1.35	75
E	102	0.53	29
F	58	0.23	13
G	102	0.48	27
H	102	0.64	36
I	53	0.47	26
J	55	0.55	31
K	55	0.54	30
L	53	0.33	18
M	55	0.55	31
N	102	1.80	100
O	102	0.72	40

$$* 17\% = \frac{0.30}{1.80} \times 100\%$$

Table 4. Calculation of Balance Point Factor Using Class IV Soils

Soil	Land Resource Area	Land Capability Subclass	Final % Crop Rating	AUM Rating %
A	58	4E	32	17
B	60	4S	27	11
D	102	4W	47	75
E	102	4E	44	29
G	102	4S	37	27
H	102	4E	63	36
I	53	4E	43	26
L	53	4S	34	18

$$\text{Balance Point Factor} = \frac{(\text{Avg. AUM Rating})}{(\text{Avg. Final \% Crop Rating})} = \frac{29.9}{40.9} = 0.731$$

Table 5. Final Soil Rating Determination*

Soil	Land Resource Area	Land Capability Subclass	AUM Rating %	Adjusted** Range Rating %	Final % Crop Rating	Soil Rating %
A	58	4E	17	12	32	32
B	60	4S	11	8	27	27
C	102	1	40	29	99	99
D	102	4W	75	55	47	47
E	102	4E	29	21	44	44
F	58	6S	13	10	NA	10
G	102	4S	27	20	37	37
H	102	4E	36	26	63	63
I	53	4E	26	19	43	43
J	55	2C	31	23	63	63
K	55	2C	30	22	82	82
L	53	4S	18	13	34	34
M	55	2C	31	23	63	63
N	102	5W	100	73	NA	73
O	102	1	40	29	100	100

* Final Soil Rating % = Final % Crop Rating for Class I through IV Land, for Class V through VII Land the Final Soil Rating % = Adjusted Range Rating %.

** Adjusted Range Rating % = AUM Rating % x 0.731

Acknowledgement

The authors wish to thank Don Bannister for his guidance and assistance in developing this method of equalization and we wish to thank Warren Hovland for his untiring effort in the development of the computer program used to calculate all the soil ratings.

Literature Cited

1. Aandahl, A. R., W. O. Murray, and W. H. Scholtes. 1954. Economic Rating of Soils for Tax Assessment. *Journal of Farm Economics*, Vol. 36, No. 3, pp. 483-499.
2. Fehrenbacher, J. B., R. A. Pope, I. J. Jansen, J. D. Alexander and B. W. Ray. 1978. Soil Productivity in Illinois. Cooperative Extension Service Circular 1156. Univ. of Illinois at Urbana-Champaign. Urbana.
3. Kellogg, C. E. and J. K. Ableiter. 1935. A Method of Rural Land Classification, USDA - Technical Bulletin 469.
4. Klingelhoets, A. J. and F. C. Westin. 1954. Soil Survey and Land Valuation for Tax Purposes. Circular 109, Agron. Dept. and Agricultural Experiment Station, South Dakota State University, Brookings, 57007.
5. Scholtes, W. H. and F. F. Riecken. 1952. Use of Soil Survey Information of Tax Assessment in Taylor County, Iowa. *Soil Sci. Soc. Amer. Proc.* 16:270-273.
6. Storie, R. E. and W. W. Weir. 1942. The Use of Soil Maps for Assessment Purposes in California. *Soil Sci. Soc. Amer. Proc.* 7:416-418.
7. Westin, F. C. and D. D. Malo. 1978. Soils of South Dakota. Bulletin 656. Agricultural Experiment Station, South Dakota State University, Brookings, 57007.
8. Westin, F. C. and D. L. Bannister. 1971. Soil Associations of South Dakota. AES Info Series No. 3. Agricultural Experiment Station, South Dakota State University, Brookings, 57007.
9. Westin, F. C., M. Stout, Jr., D. L. Bannister, and C. J. Frazee. 1974. Soil Surveys for Land Evaluation. *Assessors Journal* (October):16-31.
10. USDA - Soil Conservation Service. 1973. Predicted Yields for the Soils of South Dakota. Huron, South Dakota.
11. USDA - Soil Conservation Service. 1971. Technical Guide for South Dakota. Part II-E, Range Sites. Lincoln, Nebraska.

Appendix A.
Ratings Developed by Crop and Range Yield Estimates for
South Dakota Soils
(Alphabetical Array)

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
AASTAD	0-2	1	OV	102	77.0	NA NA	83.0	24.0	NA	24.0	3.3	1.25	55.9	78.9
AASTAD	0-2	2C	OV	55	68.0	NA NA	38.0	21.0	NA	NA	3.2	1.12	50.0	79.6
AASTAD	2-6	2E	SI	55	65.0	NA NA	36.0	18.0	NA	NA	3.0	0.64	28.6	74.2
AASTAD	2-6	2E	SI	102	73.0	NA NA	81.0	22.0	NA	22.0	3.2	0.68	30.4	74.7
ABERDEEN	0-2	2S	CY	102	54.0	NA NA	56.0	18.0	NA	19.0	2.7	0.66	29.5	58.5
ABERDEEN	0-2	3S	CY	55	42.0	NA NA	31.0	51.0	16.0	NA NA	2.5	0.58	25.9	58.7
ABERDEEN	2-6	3E	CY	55	40.0	NA NA	28.0	49.0	15.0	NA NA	2.4	0.54	24.1	55.1
ABERDEEN	2-6	3E	CY	102	52.0	NA NA	54.0	16.0	NA NA	2.6	0.62	27.7	57.7	57.7
ABSHER	0-9	6S	TCP	54	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	0.24	10.7	10.7
ABSHER	0-9	6S	TCP	58	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	0.15	6.7	6.7
AGAR	0-2	2C	SI	53	43.0	32.0 27.0	60.0	17.0	49.0	NA	2.1	0.50	22.3	59.6
AGAR	0-2	2C	SI	55	52.0	38.0 27.0	62.0	21.0	55.0	NA	2.1	0.54	24.1	66.2
AGAR	0-2	2C	SI	63	39.0	35.0 26.0	54.0	NA	49.0	NA	1.9	0.43	19.2	57.7
AGAR	2-6	2E	SI	53	41.0	30.0 25.0	56.0	16.0	46.0	NA	2.0	0.47	21.0	56.0
AGAR	2-6	2E	SI	55	50.0	35.0 26.0	60.0	19.0	54.0	NA	2.0	0.50	22.3	62.7
AGAR	2-6	2E	SI	63	37.0	33.0 24.0	50.0	NA	47.0	NA	1.9	0.39	17.4	54.6
AGAR	6-9	3E	SI	53	32.0	26.0 22.0	50.0	NA	39.0	NA	1.9	0.44	19.7	48.7
AGAR	6-9	3E	SI	55	39.0	NA 24.0	49.0	NA	44.0	NA	2.0	0.47	21.0	50.9
AGAR	6-9	3E	SI	63	30.0	29.0 19.0	44.0	NA	39.0	NA	1.6	0.36	16.1	46.0
AKASKA	0-2	3S	SI	53	31.0	NA 20.0	39.0	NA	35.0	NA	1.5	0.47	21.0	40.5
AKASKA	0-2	3S	SI	63	30.0	30.0 20.0	33.0	NA	NA	NA	1.4	0.39	17.4	43.5
AKASKA	2-6	3E	SI	53	29.0	NA 19.0	37.0	NA	34.0	NA	1.4	0.43	19.2	38.5
AKASKA	2-6	3E	SI	63	28.0	28.0 19.0	32.0	NA	NA	NA	1.3	0.36	16.1	41.0
AKASKA	6-9	4E	SI	53	NA	NA NA	NA NA	NA NA	NA NA	NA NA	1.3	0.41	18.3	30.0
AKASKA	6-9	4E	SI	63	NA	NA NA	NA NA	NA NA	NA NA	NA NA	1.2	0.34	15.2	27.7
ALBATON	DF 0-2	3W	CY	102	68.0	NA NA	50.0	13.0	NA	27.0	3.3	1.13	50.5	63.5
ALBATON	DNF 0-2	5W	WL	102	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	1.00	44.7	44.7
ALCESTER	0-2	1	OV	102	88.0	NA NA	82.0	26.0	84.0	37.0	4.2	1.15	51.4	94.2
ALCESTER	0-2	2C	OV	55	67.0	NA NA	78.0	NA	NA	NA	3.5	1.02	45.6	79.3
ALCESTER	2-6	2E	SI	55	63.0	NA NA	75.0	NA	NA	NA	3.4	0.54	24.1	76.0
ALCESTER	2-6	2E	SI	102	85.0	NA NA	80.0	24.0	76.0	33.0	3.9	0.68	30.4	87.7
ALCESTER	6-9	3E	SI	102	78.0	NA NA	71.0	18.0	70.0	26.0	3.3	0.65	29.0	74.8
ALICE	0-2	4E	SY	60	NA	26.0 15.0	26.0	NA	NA	NA	1.3	0.30	13.4	38.6
ALICE	0-2	4E	SY	61	NA	30.0 17.0	30.0	NA	NA	NA	1.5	0.32	14.3	44.3
ALICE	2-6	4E	SY	60	NA	24.0 14.0	25.0	NA	NA	NA	1.2	0.28	12.5	36.0
ALICE	2-6	4E	SY	61	NA	28.0 15.0	26.0	NA	NA	NA	1.4	0.30	13.4	40.3
ALICE	6-9	6E	SY	60	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	0.27	12.1	12.1
ALICE	6-9	6E	SY	61	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	0.25	11.2	11.2
ALTVAN	0-2	3S	SI	63	29.0	31.0 21.0	33.0	NA	28.0	NA	1.4	0.41	18.3	42.4
ALTVAN	0-2	3S	SI	64	28.0	30.0 NA	35.0	NA	24.0	NA	1.3	0.38	17.0	38.6

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE 1. RANGING RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
ALTVAN		0-2	4S	SI	60	18.0	26.0	18.0	25.0	NA	NA	NA	1.1	0.32	14.3	35.0
ALTVAN		0-2	4S	SI	61	20.0	28.0	NA	28.0	NA	NA	NA	1.2	0.33	14.7	35.4
ALTVAN		2-6	3E	SI	63	26.0	29.0	19.0	30.0	NA	25.0	NA	1.2	0.38	17.0	38.4
ALTVAN		2-6	3E	SI	64	25.0	28.0	NA	33.0	NA	22.0	NA	1.2	0.35	15.6	35.7
ALTVAN		2-6	4E	SI	60	17.0	24.0	17.0	24.0	NA	NA	NA	1.0	0.29	13.0	32.8
ALTVAN		2-6	4E	SI	61	19.0	25.0	NA	25.0	NA	NA	NA	1.1	0.30	13.4	32.1
ALTVAN		6-9	4E	SI	63	NA	22.0	15.0	24.0	NA	21.0	NA	1.0	0.38	17.0	32.2
ALTVAN		6-9	4E	SI	64	NA	24.0	NA	27.0	NA	16.0	NA	1.0	0.35	15.6	31.2
ALTVAN		9-15	6E	SI	63	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
ALTVAN		9-15	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
AMOR		2-6	2E	SI	54	32.0	29.0	25.0	43.0	NA	NA	NA	1.3	0.35	15.6	47.8
AMOR		2-6	3E	SI	58	NA	28.0	22.0	31.0	NA	NA	NA	1.2	0.31	13.9	44.9
AMOR		6-9	3E	SI	54	NA	25.0	21.0	36.0	NA	NA	NA	1.2	0.35	15.6	44.0
AMOR		6-9	4E	SI	58	NA	NA	NA	28.0	NA	NA	NA	1.1	0.27	12.1	28.2
ANSELMO		0-2	3E	SY	64	31.0	29.0	NA	39.0	NA	35.0	NA	1.5	0.40	17.9	43.2
ANSELMO		0-2	3E	SY	65	NA	NA	NA	36.0	NA	NA	NA	1.5	0.40	17.9	37.2
ANSELMO		0-2	3E	SY	66	35.0	NA	NA	44.0	NA	36.0	NA	2.0	0.46	20.6	43.6
ANSELMO		0-2	4E	SY	60	NA	23.0	NA	28.0	NA	NA	NA	1.2	0.30	13.4	36.5
ANSELMO		0-2	4E	SY	61	NA	25.0	NA	31.0	NA	NA	NA	1.3	0.35	15.6	39.8
ANSELMO		2-6	3E	SY	64	28.0	25.0	NA	36.0	NA	30.0	NA	1.4	0.37	16.5	38.5
ANSELMO		2-6	3E	SY	65	NA	NA	NA	34.0	NA	NA	NA	1.4	0.37	16.5	34.9
ANSELMO		2-6	3E	SY	66	33.0	NA	NA	39.0	NA	30.0	NA	1.9	0.43	19.2	39.3
ANSELMO		2-6	4E	SY	60	NA	21.0	NA	26.0	NA	NA	NA	1.0	0.27	12.1	32.7
ANSELMO		2-6	4E	SY	61	NA	23.0	NA	29.0	NA	NA	NA	1.2	0.35	15.6	36.9
ANSELMO		6-9	4E	SY	64	NA	23.0	NA	32.0	NA	26.0	NA	1.2	0.37	16.5	36.1
ANSELMO		6-9	4E	SY	65	NA	NA	NA	28.0	NA	NA	NA	1.1	0.34	15.2	28.2
ANSELMO		6-9	4E	SY	66	29.0	NA	NA	33.0	NA	24.0	NA	1.5	0.40	17.9	32.5
ANSELMO		6-15	6E	SY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
ANSELMO		6-15	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
ANSELMO		9-15	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
ANSELMO		9-15	6E	SY	65	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
ANSELMO		9-15	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
ANSELMO		15-25	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ANSELMO		15-25	6E	SY	65	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
ANSELMO		15-25	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
ANTLER		0-2	2E	SI	102	62.0	NA	NA	71.0	16.0	NA	20.0	2.4	0.59	26.4	61.3
ARCHIN		0-2	4S	CP	54	NA	23.0	18.0	31.0	NA	NA	NA	0.7	0.30	13.4	36.7
ARCHIN		0-2	4S	CP	58	NA	NA	17.0	28.0	NA	NA	NA	0.7	0.19	8.5	30.1
ARCHIN		2-9	6E	CP	54	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
ARCHIN		2-9	6S	CP	58	NA	NA	NA	NA	NA	NA	NA	NA	0.13	5.8	5.8

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
ARNEGARD		0-2	2C	OV	53	50.0	NA	31.0	69.0	20.0	NA	NA	3.1	0.94	42.0	69.9
ARNEGARD		0-2	2C	OV	54	40.0	37.0	30.0	55.0	NA	NA	NA	2.1	0.83	37.1	61.9
ARNEGARD		0-2	3C	OV	58	30.0	36.0	24.0	44.0	NA	NA	NA	1.9	0.75	33.5	52.9
ARNEGARD		2-6	2E	SI	53	46.0	NA	28.0	66.0	19.0	NA	NA	3.1	0.52	23.2	66.2
ARNEGARD		2-6	2E	SI	54	36.0	35.0	26.0	51.0	NA	NA	NA	1.9	0.40	17.9	56.3
ARNEGARD		2-6	3E	SI	58	28.0	33.0	22.0	42.0	NA	NA	NA	1.7	0.36	16.1	48.8
ARVADA		0-6	6S	TCP	54	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
ARVADA		0-6	6S	TCP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.11	4.9	4.9
ARVADA		0-6	6S	TCP	61	NA	NA	NA	NA	NA	NA	NA	NA	0.12	5.4	5.4
ARVESON	DNF	0-2	5W	SB	55	NA	NA	NA	NA	NA	NA	NA	NA	1.25	55.9	55.9
ARVESON	DNF	0-2	5W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.44	64.3	64.3
ARVILLA		0-2	3S	SWG	102	29.0	NA	NA	36.0	13.0	NA	NA	1.2	0.50	22.3	35.9
ARVILLA		0-2	3E	SWG	55	NA	NA	15.0	32.0	11.0	NA	NA	1.0	0.33	14.7	33.8
ARVILLA		2-6	3E	SWG	55	NA	NA	14.0	30.0	10.0	NA	NA	1.0	0.33	14.7	31.7
ARVILLA		6-9	4E	SWG	55	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
ARVILLA		9-25	6E	SWG	55	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
ASCALON		0-2	4E	SY	60	NA	23.0	NA	29.0	NA	NA	NA	1.2	0.30	13.4	36.9
ASCALON		0-2	4E	SY	61	NA	25.0	NA	31.0	NA	NA	NA	1.4	0.35	15.6	40.6
ASCALON		2-6	4E	SY	60	NA	NA	NA	28.0	NA	NA	NA	1.1	0.27	12.1	28.2
ASCALON		2-6	4E	SY	61	NA	NA	NA	30.0	NA	NA	NA	1.3	0.32	14.3	31.6
ASCALON		6-15	6E	SY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
ASCALON		6-15	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
ASSINNIBOINE		0-2	4E	SY	58	NA	21.0	15.0	25.0	NA	NA	NA	1.2	0.30	13.4	35.0
ASSINNIBOINE		2-6	4E	SY	58	NA	NA	14.0	22.0	NA	NA	NA	1.1	0.28	12.5	28.4
ASSINNIBOINE		6-9	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
ATHELWOLD		0-2	1	OV	102	90.0	NA	NA	82.0	25.0	NA	31.0	3.3	1.20	53.6	85.7
BACA		0-2	3S	CY	60	NA	28.0	19.0	28.0	NA	NA	NA	1.4	0.31	13.9	43.3
BACA		0-2	3S	CY	61	NA	31.0	23.0	32.0	NA	NA	NA	1.5	0.37	16.5	49.2
BACA		2-6	4E	CY	60	NA	25.0	17.0	25.0	NA	NA	NA	1.2	0.29	13.0	38.4
BACA		2-6	4E	CY	61	NA	28.0	21.0	29.0	NA	NA	NA	1.4	0.33	14.7	44.9
BADUS	DF	0-2	2W	OV	102	60.0	NA	NA	62.0	16.0	43.0	23.0	2.8	1.10	49.2	60.3
BADUS	DNF	0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.10	49.2	49.2
BALTIC	DF	0-2	3W	WL	102	61.0	NA	NA	65.0	16.0	47.0	23.0	3.0	0.90	40.2	62.6
BALTIC	DNF	0-2	5W	WL	102	NA	NA	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
BANKARD		0-2	6E	SA	60	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
BANKARD		0-2	6E	SA	64	NA	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
BANKARD		0-2	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
BANKARD		0-2	6E	SA	66	NA	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
BANKS		0-2	6E	SA	53	NA	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
BANKS		0-2	6E	SA	54	NA	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
BARNES		0-2	1	SI	102	68.0	NA NA	76.0	19.0	NA	22.0	2.8	0.64	28.6	68.6
BARNES		0-2	2C	SI	55	58.0	NA 29.0	66.0	18.0	NA	NA	2.5	0.54	24.1	65.8
BARNES		2-6	2E	SI	55	57.0	NA 28.0	64.0	18.0	NA	NA	2.5	0.50	22.3	64.6
BARNES		2-6	2E	SI	102	62.0	NA NA	73.0	18.0	NA	20.0	2.8	0.61	27.3	65.0
BARNES		6-9	3E	SI	55	49.0	NA 26.0	58.0	16.0	NA	NA	2.4	0.47	21.0	58.7
BARNES		6-9	3E	SI	102	54.0	NA NA	65.0	15.0	NA	16.0	2.6	0.57	25.5	56.4
BARNES		9-15	4E	SI	55	40.0	NA 17.0	47.0	12.0	NA	NA	2.1	0.44	19.7	45.6
BARNES		9-15	4E	SI	102	50.0	NA NA	53.0	13.0	NA	NA	2.4	0.54	24.1	53.1
BARNES		15-25	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
BARNES		15-25	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
BARNES		25-40	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
BARNES		25-40	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.49	21.9	21.9
BARNES	E	2-6	3E	SI	55	40.0	NA 26.0	58.0	16.0	NA	NA	2.1	0.47	21.0	55.4
BARNES	E	2-6	3E	SI	102	59.0	NA NA	65.0	16.0	NA	17.0	2.6	0.57	25.5	58.7
BARNES	E	6-9	4E	SI	55	36.0	NA 22.0	49.0	NA	NA	NA	1.9	0.44	19.7	48.0
BARNES	E	6-9	4E	SI	102	51.0	NA NA	56.0	NA	NA	NA	2.4	0.54	24.1	57.1
BARNES	E	9-15	6E	SI	55	NA	NA NA	NA	NA	NA	NA	1.6	0.41	18.3	37.0
BARNES	E	9-15	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
BARNUM		0-2	3C	SI	61	30.0	32.0 NA	40.0	NA	NA	NA	1.9	0.30	13.4	47.6
BEADLE		0-2	2S	CY	55	54.0	NA 31.0	57.0	17.0	54.0	NA	2.8	0.58	25.9	64.5
BEADLE		0-2	2S	CY	102	61.0	NA NA	67.0	18.0	54.0	26.0	3.1	0.66	29.5	67.2
BEADLE		2-6	3E	CY	55	50.0	NA 29.0	55.0	17.0	52.0	NA	2.8	0.54	24.1	62.2
BEADLE		2-6	3E	CY	102	59.0	NA NA	63.0	16.0	48.0	22.0	2.8	0.62	27.7	60.9
BEADLE		6-9	4E	CY	55	41.0	NA 26.0	46.0	NA	42.0	NA	2.6	0.51	22.8	54.0
BEADLE		6-9	3E	CY	102	52.0	NA NA	54.0	NA	43.0	NA	2.7	0.59	26.4	57.0
BEADLE	E	0-2	3E	CY	102	59.0	NA NA	59.0	16.0	49.0	22.0	2.7	0.59	26.4	60.0
BEADLE	E	2-6	4E	CY	55	40.0	NA 26.0	43.0	14.0	45.0	NA	2.5	0.51	22.8	52.6
BEADLE	E	2-6	3E	CY	102	53.0	NA NA	53.0	15.0	41.0	18.0	2.5	0.55	24.6	53.2
BEARDEN		0-2	2E	SI	55	57.0	NA 32.0	65.0	16.0	NA	NA	2.6	0.52	23.2	65.9
BEARDEN		0-2	2E	SI	102	63.0	NA NA	72.0	19.0	NA	19.0	2.8	0.66	29.5	65.1
BEARDEN	S	0-2	3W	SB	102	43.0	NA NA	52.0	NA	NA	NA	2.4	1.17	52.3	52.8
BEARPAW		0-2	2C	CY	53	37.0	NA 27.0	56.0	17.0	NA	NA	2.1	0.50	22.3	55.5
BEARPAW		2-6	2E	CY	53	36.0	NA 26.0	54.0	15.0	NA	NA	2.0	0.48	21.4	52.5
BEARPAW		6-9	3E	CY	53	32.0	NA 23.0	45.0	NA	NA	NA	1.8	0.46	20.6	45.9
BECKTON		0-2	4S	CP	60	NA	15.0 12.0	21.0	NA	NA	NA	0.9	0.19	8.5	26.9
BECKTON		0-2	4S	CP	61	NA	NA 13.0	22.0	NA	NA	NA	1.0	0.28	12.5	26.8
BECKTON		2-6	6S	CP	60	NA	NA NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
BECKTON		2-6	6S	CP	61	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
BELFIELD		0-2	3S	CY	54	24.0	26.0 23.0	41.0	NA	NA	NA	1.4	0.38	17.0	43.8
BELFIELD		0-2	3S	CY	58	NA	24.0 19.0	31.0	NA	NA	NA	1.2	0.34	15.2	40.8

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
BELFIELD		2-6	3E	CY	54	22.0	24.0 21.0	39.0	NA	NA	NA	1.3	0.35	15.6	40.6
BELFIELD		2-6	4E	CY	58	NA	22.0 18.0	29.0	NA	NA	NA	1.0	0.31	13.9	37.4
BELFIELD		6-9	4E	CY	54	NA	20.0 18.0	33.0	NA	NA	NA	1.2	0.35	15.6	38.5
BELFIELD		6-9	6E	CY	58	NA	NA NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
BENCLARE		0-2	2S	CY	102	77.0	NA NA	72.0	NA	66.0	28.0	3.5	0.70	31.3	78.2
BENOIT		0-2	5W	WL	53	NA	NA NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
BENOIT		0-2	5W	WL	55	NA	NA NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
BENOIT		0-2	5W	WL	102	NA	NA NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
BEOTIA		0-2	1	SI	102	78.0	NA NA	88.0	24.0	NA	28.0	3.2	0.68	30.4	81.8
BEOTIA		0-2	2C	SI	55	68.0	NA 37.0	74.0	19.0	NA	NA	2.8	0.54	24.1	75.8
BEOTIA		2-6	2E	SI	55	65.0	NA 36.0	72.0	18.0	NA	NA	2.7	0.50	22.3	73.0
BEOTIA		2-6	2E	SI	102	73.0	NA NA	83.0	23.0	NA	26.0	3.0	0.63	28.2	77.0
BEOTIA		6-9	3E	SI	55	NA	NA 29.0	62.0	16.0	NA	NA	2.6	0.47	21.0	64.6
BEOTIA		6-9	3E	SI	102	63.0	NA NA	75.0	19.0	NA	19.0	2.6	0.60	26.8	64.9
BETTS		2-6	3E	TU	102	45.0	NA NA	46.0	15.0	35.0	17.0	2.3	0.48	21.4	48.1
BETTS		2-6	4E	TU	53	25.0	NA 15.0	39.0	12.0	25.0	NA	1.5	0.39	17.4	35.6
BETTS		2-6	4E	TU	55	36.0	NA 17.0	43.0	14.0	26.0	NA	1.9	0.42	18.8	42.1
BETTS		6-9	4E	TU	53	23.0	NA 14.0	37.0	NA	18.0	NA	1.4	0.37	16.5	30.9
BETTS		6-9	4E	TU	55	29.0	NA NA	37.0	NA	20.0	NA	1.8	0.40	17.9	34.2
BETTS		6-9	4E	TU	102	41.0	NA NA	43.0	NA	28.0	16.0	2.2	0.48	21.4	43.1
BETTS		9-25	6E	TU	53	NA	NA NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
BETTS		9-25	6E	TU	55	NA	NA NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
BETTS		9-25	6E	TU	102	NA	NA NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
BETTS		25-40	7E	TU	53	NA	NA NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
BETTS		25-40	7E	TU	55	NA	NA NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
BETTS		25-40	7E	TU	102	NA	NA NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
BETTS	E	2-6	4E	TU	53	23.0	NA 14.0	32.0	NA	20.0	NA	1.1	0.39	17.4	28.9
BETTS	E	2-6	4E	TU	55	32.0	NA NA	33.0	NA	23.0	NA	1.7	0.42	18.8	34.2
BETTS	E	2-6	4E	TU	102	42.0	NA NA	43.0	NA	27.0	16.0	2.1	0.48	21.4	42.6
BETTS	E	6-15	6E	TU	53	NA	NA NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
BETTS	E	6-15	6E	TU	55	NA	NA NA	NA	NA	NA	NA	1.6	0.38	17.0	37.0
BETTS	E	6-9	6E	TU	102	NA	NA NA	NA	NA	NA	NA	NA	0.46	20.6	20.6
BETTS	E	9-15	6E	TU	102	NA	NA NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
BIDMAN		0-2	3S	CY	60	NA	14.0 10.0	28.0	NA	NA	NA	1.0	0.29	13.0	27.6
BIDMAN		0-2	3S	CY	61	NA	20.0 NA	30.0	NA	NA	NA	1.2	0.26	11.6	35.0
BIDMAN		2-6	4E	CY	60	NA	12.0 9.0	23.0	NA	NA	NA	0.9	0.27	12.1	23.9
BIDMAN		2-6	4E	CY	61	NA	18.0 NA	25.0	NA	NA	NA	1.0	0.23	10.3	30.2
BLACKHALL		2-15	6E	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
BLACKHALL		2-15	6E	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
BLACKPIPE		0-2	3C	SI	60	33.0	33.0 NA	42.0	NA	NA	NA	1.6	0.39	17.4	47.8

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
BLACKPIPE		2-6	3E	SI	60	32.0	31.0	NA	39.0	NA	NA	NA	1.5	0.37	16.5	45.0
BLACKPIPE		6-9	4E	SI	60	25.0	25.0	NA	33.0	NA	NA	NA	1.4	0.35	15.6	37.6
BLAKE		0-2	1	SI	102	96.0	NA	NA	90.0	NA	81.0	40.0	4.4	0.72	32.2	100.0
BLENCOE		0-2	2W	OV	102	77.0	NA	NA	74.0	NA	79.0	27.0	3.4	1.20	53.6	80.7
BLENDON		0-2	3E	SY	55	50.0	NA	NA	50.0	14.0	45.0	NA	2.0	0.52	23.2	51.3
BLENDON		0-2	3S	SY	102	67.0	NA	NA	60.0	17.0	50.0	20.0	2.4	0.64	28.6	60.3
BLENDON		2-6	3E	SY	55	48.0	NA	NA	48.0	13.0	42.0	NA	1.9	0.50	22.3	48.6
BLENDON		2-6	3E	SY	102	63.0	NA	NA	56.0	16.0	46.0	19.0	2.1	0.61	27.3	56.0
BLENDON	E	0-2	3E	SY	55	46.0	NA	NA	47.0	NA	43.0	NA	1.8	0.48	21.4	48.2
BLENDON	E	0-2	3E	SY	102	53.0	NA	NA	56.0	16.0	46.0	19.0	2.1	0.60	26.8	54.2
BLENDON	E	2-6	4E	SY	55	38.0	NA	NA	42.0	NA	37.0	NA	1.6	0.45	20.1	41.8
BLENDON	E	2-6	4E	SY	102	49.0	NA	NA	50.0	13.0	39.0	16.0	1.8	0.55	24.6	46.8
BLYBURG		0-2	1	SI	102	92.0	NA	NA	80.0	NA	79.0	38.0	4.2	0.72	32.2	94.5
BON		0-2	1	OV	102	95.0	NA	NA	82.0	29.0	73.0	39.0	4.1	1.20	53.6	95.5
BON		0-2	2C	OV	53	51.0	38.0	31.0	69.0	NA	63.0	NA	3.1	1.02	45.6	73.2
BON		0-2	2C	OV	55	63.0	NA	NA	75.0	NA	70.0	NA	3.3	1.09	48.7	77.1
BONEEK		0-2	3C	SI	61	NA	33.0	22.0	32.0	NA	NA	NA	1.7	0.37	16.5	50.9
BONEEK		2-6	3E	SI	61	NA	31.0	21.0	31.0	NA	NA	NA	1.6	0.33	14.7	48.3
BONEEK		6-9	4E	SI	61	NA	25.0	20.0	28.0	NA	NA	NA	1.3	0.29	13.0	41.7
BONILLA		0-2	1	OV	102	79.0	NA	NA	76.0	NA	69.0	30.0	3.5	1.20	53.6	81.2
BONILLA		0-2	2C	OV	53	58.0	NA	31.0	68.0	19.0	62.0	NA	2.6	0.89	39.8	69.2
BONILLA		0-2	2C	OV	55	64.0	NA	37.0	73.0	19.0	63.0	NA	2.7	1.02	45.6	74.3
BONILLA		2-6	2E	SI	53	57.0	NA	28.0	66.0	18.0	59.0	NA	2.4	0.47	21.0	65.4
BONILLA		2-6	2E	SI	55	60.0	NA	34.0	72.0	18.0	63.0	NA	2.7	0.57	25.5	71.6
BONILLA		2-6	2E	SI	102	74.0	NA	NA	70.0	NA	66.0	29.0	3.3	0.68	30.4	76.7
BORO		2-6	3E	CY	63	29.0	30.0	NA	40.0	NA	34.0	NA	1.5	0.46	20.6	43.2
BORO		6-9	4E	CY	63	NA	26.0	NA	34.0	NA	21.0	NA	1.3	0.44	19.7	37.5
BORO		9-15	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
BORUP	DF	0-2	2W	SB	55	NA	NA	24.0	37.0	13.0	NA	NA	2.6	1.21	54.1	51.9
BORUP	DF	0-2	2W	SB	102	57.0	NA	NA	59.0	13.0	NA	NA	2.6	1.31	58.5	57.8
BORUP	S	0-2	4W	SB	55	NA	NA	NA	37.0	NA	NA	NA	1.8	1.05	46.9	41.2
BORUP	S	0-2	4W	SB	102	40.0	NA	NA	49.0	NA	NA	NA	2.1	1.10	49.2	48.3
BORUP	DNF	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	NA	NA	1.21	54.1	54.1
BORUP	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.31	58.5	58.5
BOWBELLS		0-2	2C	OV	53	51.0	NA	31.0	67.0	19.0	NA	NA	2.5	0.91	40.7	66.2
BOWBELLS		0-2	2C	OV	55	50.0	NA	33.0	71.0	19.0	NA	NA	2.6	0.97	43.3	68.4
BOWBELLS		2-6	2E	SI	53	47.0	NA	28.0	64.0	18.0	NA	NA	2.4	0.54	24.1	62.0
BOWBELLS		2-6	2E	SI	55	46.0	NA	30.0	65.0	18.0	NA	NA	2.5	0.57	25.5	63.5
BOWDLE		0-2	3S	SI	53	30.0	NA	21.0	44.0	15.0	NA	NA	1.2	0.43	19.2	42.8
BOWDLE		2-6	3E	SI	53	28.0	NA	19.0	41.0	13.0	NA	NA	1.1	0.40	17.9	38.8

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
BOYD		0-2	3S	CY	63	30.0	33.0 NA	44.0	NA	NA	NA	1.5	0.44	19.7	47.0
BOYD		2-6	3E	CY	63	29.0	31.0 NA	42.0	NA	40.0	NA	1.5	0.40	17.9	45.5
BOYD		6-9	4E	CY	63	23.0	28.0 NA	37.0	NA	27.0	NA	1.3	0.38	17.0	37.8
BOYD		9-25	6E	CY	63	NA	NA NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
BOYD		25-40	7E	CY	63	NA	NA NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
BRIDGEPORT		0-2	2C	SI	64	31.0	32.0 NA	39.0	NA	NA	NA	1.8	0.40	17.9	47.0
BRIDGEPORT		0-2	3C	SI	60	NA	28.0 NA	30.0	NA	NA	NA	1.4	0.34	15.2	42.4
BRIDGEPORT		2-6	2E	SI	64	29.0	29.0 NA	36.0	NA	NA	NA	1.7	0.37	16.5	43.4
BRIDGEPORT		2-6	3E	SI	60	NA	25.0 NA	28.0	NA	NA	NA	1.3	0.31	13.9	38.7
BROADHURST		2-15	6S	DC	61	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
BROOKINGS		0-2	1	OV	102	79.0	NA NA	84.0	24.0	NA	29.0	3.4	1.13	50.5	82.5
BROOKINGS		2-6	2E	SI	102	77.0	NA NA	81.0	21.0	NA	28.0	3.2	0.75	33.5	77.9
BRYANT		0-2	2C	SI	53	35.0	NA 28.0	53.0	16.0	NA	NA	2.0	0.50	22.3	53.8
BRYANT		2-6	2E	SI	53	32.0	NA 27.0	52.0	15.0	NA	NA	1.9	0.47	21.0	51.3
BRYANT		6-9	3E	SI	53	30.0	NA 22.0	44.0	NA	NA	NA	1.6	0.44	19.7	43.3
BUFFINGTON		0-2	2C	SI	63	NA	27.0 NA	45.0	NA	40.0	NA	1.3	0.43	19.2	46.7
BUFFINGTON		0-2	2C	SI	64	NA	27.0 NA	42.0	NA	40.0	NA	1.3	0.40	17.9	45.8
BUFFINGTON		0-2	3C	SI	60	NA	25.0 NA	29.0	NA	NA	NA	1.3	0.29	13.0	39.1
BUFFINGTON		0-2	3C	SI	61	29.0	29.0 NA	34.0	NA	NA	NA	1.6	0.34	15.2	42.3
BUSE		2-6	3E	TU	102	43.0	NA NA	56.0	15.0	NA	NA	1.9	0.58	25.9	51.0
BUSE		2-6	4E	TU	55	36.0	NA 17.0	44.0	13.0	NA	NA	1.8	0.44	19.7	43.4
BUSE		6-9	4E	TU	55	NA	NA 16.0	39.0	NA	NA	NA	1.7	0.41	18.3	41.0
BUSE		6-9	4E	TU	102	40.0	NA NA	50.0	13.0	NA	NA	1.7	0.53	23.7	45.6
BUSE		9-25	6E	TU	55	NA	NA NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
BUSE		9-25	6E	TU	102	NA	NA NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
BUSE		25-40	7E	TU	55	NA	NA NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
BUSE		25-40	7E	TU	102	NA	NA NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
BUSE	E	2-6	4E	TU	55	30.0	NA 16.0	40.0	12.0	NA	NA	1.4	0.41	18.3	38.2
BUSE	E	2-6	4E	TU	102	40.0	NA NA	50.0	13.0	NA	NA	1.5	0.47	21.0	44.4
BUSE	E	6-15	6E	TU	55	NA	NA NA	NA	NA	NA	NA	1.3	0.38	17.0	30.0
BUSE	E	6-9	6E	TU	102	NA	NA NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
BUSE	E	9-15	6E	TU	102	NA	NA NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
BUTCHE		6-25	6S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
BUTCHE		25-40	7S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
CABBA		9-15	6S	SW	54	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
CABBA		15-40	7S	SW	54	NA	NA NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
CABBART		9-15	6S	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
CABBART		15-40	7S	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
CANNING		0-2	3S	SI	53	28.0	NA 21.0	48.0	12.0	35.0	NA	1.4	0.48	21.4	42.0
CANNING		0-2	3S	SI	63	29.0	31.0 NA	47.0	NA	35.0	NA	1.3	0.43	19.2	44.5

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** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CANNING	2-6	3E	SI	53	26.0	NA	19.0	45.0	11.0	34.0	NA	1.3	0.48	21.4	39.0
CANNING	2-6	3E	SI	63	26.0	30.0	NA	44.0	NA	33.0	NA	1.2	0.41	18.3	41.8
CANNING	6-9	4E	SI	53	NA	NA	NA	NA	NA	26.0	NA	1.1	0.41	18.3	28.1
CANNING	6-9	4E	SI	63	NA	NA	NA	NA	NA	26.0	NA	1.0	0.38	17.0	26.9
CANYON	2-15	6S	SW	60	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
CANYON	2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
CANYON	2-15	6S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
CANYON	2-15	6S	SW	66	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
CANYON	15-40	7S	SW	60	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
CANYON	15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
CANYON	15-40	7S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
CANYON	15-40	7S	SW	66	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
CAPUTA	0-2	2C	CY	63	37.0	34.0	26.0	44.0	NA	41.0	NA	1.8	0.42	18.8	53.2
CAPUTA	0-2	2C	CY	64	34.0	36.0	NA	44.0	NA	39.0	NA	1.7	0.42	18.8	49.9
CAPUTA	0-2	3C	CY	60	26.0	29.0	21.0	30.0	NA	NA	NA	1.3	0.30	13.4	41.6
CAPUTA	0-2	3C	CY	61	33.0	35.0	26.0	35.0	NA	NA	NA	1.8	0.36	16.1	51.7
CAPUTA	2-6	2E	CY	63	34.0	33.0	25.0	41.0	NA	39.0	NA	1.7	0.40	17.9	50.5
CAPUTA	2-6	2E	CY	64	32.0	33.0	NA	41.0	NA	36.0	NA	1.6	0.38	17.0	46.3
CAPUTA	2-6	3E	CY	60	23.0	26.0	20.0	26.0	NA	NA	NA	1.2	0.28	12.5	37.8
CAPUTA	2-6	3E	CY	61	32.0	32.0	23.0	33.0	NA	NA	NA	1.6	0.32	14.3	47.3
CAPUTA	6-9	3E	CY	63	31.0	30.0	21.0	37.0	NA	33.0	NA	1.6	0.38	17.0	44.9
CAPUTA	6-9	3E	CY	64	30.0	28.0	NA	38.0	NA	32.0	NA	1.4	0.38	17.0	41.1
CAPUTA	6-9	4E	CY	60	NA	21.0	17.0	21.0	NA	NA	NA	1.0	0.26	11.6	34.0
CAPUTA	6-9	4E	CY	61	NA	28.0	19.0	30.0	NA	NA	NA	1.4	0.32	14.3	43.9
CAPUTA	9-15	4E	CY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
CAPUTA	9-15	4E	CY	63	NA	NA	NA	NA	NA	29.0	NA	1.2	0.36	16.1	31.0
CAPUTA	9-15	4E	CY	64	NA	NA	NA	NA	NA	26.0	NA	1.1	0.36	16.1	28.1
CAPUTA	9-15	6E	CY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
CARTHAGE	0-2	3E	SY	55	49.0	NA	25.0	51.0	NA	47.0	NA	2.1	0.52	23.2	55.2
CARTHAGE	2-6	3E	SY	55	46.0	NA	22.0	48.0	NA	44.0	NA	1.9	0.50	22.3	50.7
CASS	0-2	3E	SY	55	42.0	32.0	NA	49.0	NA	NA	NA	2.7	0.90	40.2	57.9
CASS	0-2	3E	SY	63	32.0	24.0	NA	42.0	NA	NA	NA	2.0	0.75	33.5	44.9
CAVO	0-2	4S	CP	53	NA	NA	15.0	30.0	NA	21.0	NA	1.2	0.38	17.0	30.9
CAVO	0-2	4S	CP	55	NA	NA	16.0	31.0	NA	22.0	NA	1.3	0.36	16.1	32.7
CAVO	2-6	4S	CP	53	NA	NA	14.0	29.0	NA	20.0	NA	1.1	0.33	14.7	29.2
CAVO	2-6	4S	CP	55	NA	NA	15.0	29.0	NA	19.0	NA	1.2	0.36	16.1	30.1
CAVO	6-9	6E	CP	53	NA	NA	NA	NA	NA	NA	NA	1.0	0.31	13.9	23.1
CAVO	6-9	6E	CP	55	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
CAVOUR	0-2	4S	CP	55	NA	NA	15.0	30.0	NA	NA	NA	1.1	0.33	14.7	32.2
CAVOUR	0-6	4S	CP	102	NA	NA	NA	36.0	13.0	NA	17.0	1.4	0.48	21.4	40.2

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED "SOIL RATING" IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CAVOUR		2-6	4S	CP	55	NA	NA	13.0	28.0	NA	NA	NA	1.0	0.33	14.7	29.0
CEDAR BUTTE		0-2	4S	CP	64	NA	21.0	NA	29.0	NA	20.0	NA	1.1	0.32	14.3	31.9
CEDAR BUTTE		2-6	4S	CP	64	NA	20.0	NA	27.0	NA	17.0	NA	1.0	0.32	14.3	29.3
CEDAR BUTTE		6-9	6E	CP	64	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
CHAMA		2-6	3E	SI	54	NA	28.0	21.0	35.0	NA	NA	NA	1.2	0.37	16.5	45.4
CHAMA		2-6	4E	SI	58	NA	24.0	17.0	30.0	NA	NA	NA	1.1	0.32	14.3	38.7
CHAMA		6-9	3E	SI	54	NA	21.0	19.0	32.0	NA	NA	NA	1.1	0.35	15.6	38.9
CHAMA		6-9	4E	SI	58	NA	20.0	13.0	25.0	NA	NA	NA	1.0	0.30	13.4	32.0
CHAMA		9-15	4E	SI	54	NA	NA	NA	25.0	NA	NA	NA	1.0	0.31	13.9	25.4
CHAMA		9-25	6E	SI	58	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
CHAMA		15-25	6E	SI	54	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
CHANCELLOR		0-2	2W	OV	102	77.0	NA	NA	74.0	NA	NA	29.0	3.4	1.15	51.4	78.9
CHANTIER		0-9	6S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
CHANTIER		9-25	7S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
CHAPPELL		0-2	3E	SY	66	26.0	NA	NA	31.0	NA	NA	NA	1.1	0.50	22.3	29.1
CHAPPELL		2-6	3E	SY	66	24.0	NA	NA	28.0	NA	NA	NA	1.0	0.50	22.3	26.5
CHAPPELL		6-9	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	0.9	0.44	19.7	20.8
CHEYENNE		0-2	3S	SI	63	28.0	29.0	15.0	32.0	NA	23.0	NA	1.3	0.38	17.0	37.4
CHEYENNE		0-2	4S	SI	60	NA	24.0	13.0	25.0	NA	NA	NA	1.1	0.31	13.9	34.8
CHEYENNE		0-2	4S	SI	61	NA	26.0	NA	30.0	NA	NA	NA	1.4	0.29	13.0	41.0
CHEYENNE		2-6	3E	SI	63	20.0	25.0	14.0	30.0	NA	22.0	NA	1.1	0.34	15.2	32.8
CHEYENNE		2-6	4E	SI	60	NA	21.0	11.0	22.0	NA	NA	NA	0.9	0.27	12.1	29.9
CHEYENNE		2-6	4E	SI	61	NA	24.0	NA	29.0	NA	NA	NA	1.2	0.26	11.6	37.6
CHEYENNE		6-9	4E	SI	63	18.0	19.0	11.0	24.0	NA	16.0	NA	0.9	0.30	13.4	25.9
CHEYENNE		6-9	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	0.8	0.24	10.7	18.5
CHEYENNE		6-9	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
CHINOOK		0-2	4E	SY	58	NA	19.0	14.0	26.0	NA	NA	NA	1.2	0.29	13.0	33.5
CHINOOK		2-6	4E	SY	58	NA	NA	13.0	23.0	NA	NA	NA	1.1	0.27	12.1	27.9
CHINOOK		6-9	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
CLAMO	DF	0-2	2W	SB	55	53.0	NA	26.0	51.0	17.0	56.0	NA	2.8	1.25	55.9	61.5
CLAMO	DF	0-2	2W	SB	102	70.0	NA	NA	56.0	18.0	56.0	29.0	3.7	1.35	60.3	70.7
CLAMO	DNF	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	NA	NA	1.25	55.9	55.9
CLAMO	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.35	60.3	60.3
CLARNO		0-2	1	SI	102	76.0	NA	NA	76.0	24.0	59.0	28.0	3.1	0.68	30.4	76.8
CLARNO		0-2	2C	SI	55	60.0	NA	NA	67.0	19.0	58.0	NA	2.9	0.54	24.1	67.9
CLARNO		2-6	2E	SI	55	58.0	NA	NA	64.0	16.0	55.0	NA	2.8	0.52	23.2	63.6
CLARNO		2-6	2E	SI	102	72.0	NA	NA	75.0	23.0	54.0	27.0	3.1	0.65	29.0	73.9
CLARNO		6-9	3E	SI	55	49.0	NA	NA	54.0	NA	47.0	NA	2.6	0.47	21.0	56.8
CLARNO		6-9	3E	SI	102	64.0	NA	NA	67.0	18.0	48.0	22.0	2.9	0.61	27.3	64.1
CLARNO		9-15	4E	SI	55	NA	NA	NA	43.0	NA	NA	NA	2.4	0.45	20.1	51.5

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CLARNO		9-15	4E	SI	102	50.0	NA NA	50.0	NA	36.0	NA	2.5	0.59	26.4	52.1
CLARNO		15-25	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
CLARNO		25-40	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
CLARNO	E	2-6	3E	SI	55	50.0	NA NA	53.0	14.0	47.0	NA	2.4	0.47	21.0	54.3
CLARNO	E	2-6	3E	SI	102	64.0	NA NA	57.0	21.0	48.0	23.0	2.9	0.61	27.3	64.4
CLARNO	E	6-9	4E	SI	55	46.0	NA NA	47.0	NA	40.0	NA	1.8	0.45	20.1	47.4
CLARNO	E	6-9	4E	SI	102	54.0	NA NA	53.0	NA	40.0	NA	2.5	0.59	26.4	55.2
CLARNO	E	9-15	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
CLARNO	E	9-15	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.56	25.0	25.0
COLBY		2-6	4E	TU	60	NA	21.0 NA	20.0	NA	NA	NA	0.9	0.29	13.0	29.8
COLBY		2-6	4E	TU	61	NA	26.0 15.0	26.0	NA	NA	NA	1.1	0.34	15.2	37.4
COLBY		2-6	4E	TU	64	NA	25.0 NA	25.0	NA	NA	NA	1.0	0.34	15.2	35.3
COLBY		6-9	4E	TU	64	NA	23.0 NA	23.0	NA	NA	NA	0.9	0.32	14.3	32.3
COLBY		6-25	6E	TU	60	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
COLBY		6-25	6E	TU	61	NA	NA NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
COLBY		9-15	6E	TU	64	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
COLBY		25-40	7E	TU	60	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
COLBY		25-40	7E	TU	61	NA	NA NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
COLVIN	DF	0-2	2W	SB	55	NA	NA 25.0	59.0	15.0	NA	NA	2.5	1.26	56.3	59.7
COLVIN	DF	0-2	2W	SB	102	59.0	NA NA	68.0	17.0	NA	21.0	2.7	1.37	61.2	62.6
COLVIN	DNF	0-2	4W	SB	55	NA	NA NA	NA	NA	NA	NA	NA	1.26	56.3	56.3
COLVIN	DNF	0-2	4W	SB	102	NA	NA NA	NA	NA	NA	NA	NA	1.37	61.2	61.2
CONATA		2-15	6S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
CONATA		2-15	6S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
CONATA		2-15	6S	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
CONATA		15-40	7S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
CONATA		15-40	7S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
CONATA		15-40	7S	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
CORSON		0-2	2S	CY	102	73.0	NA NA	65.0	NA	57.0	24.0	3.2	0.70	31.3	70.3
CORSON		2-6	3E	CY	102	63.0	NA NA	62.0	NA	54.0	20.0	3.0	0.62	27.7	63.8
CORSON		6-9	3E	CY	102	55.0	NA NA	55.0	NA	NA	16.0	2.8	0.60	26.8	56.1
CRESBARD		0-2	2S	CY	102	57.0	NA NA	59.0	17.0	NA	20.0	2.9	0.66	29.5	60.6
CRESBARD		0-2	3S	CY	55	48.0	NA 27.0	55.0	15.0	NA	NA	2.4	0.54	24.1	57.6
CRESBARD		2-6	3E	CY	55	45.0	NA 25.0	52.0	15.0	NA	NA	2.3	0.50	22.3	54.9
CRESBARD		2-6	3E	CY	102	54.0	NA NA	57.0	16.0	NA	19.0	2.8	0.62	27.7	57.8
CROFTON		2-6	3E	TU	102	54.0	NA NA	58.0	19.0	53.0	20.0	2.7	0.55	24.6	60.6
CROFTON		2-6	4E	TU	55	40.0	NA NA	52.0	NA	NA	NA	2.2	0.41	18.3	50.2
CROFTON		6-15	4E	TU	102	50.0	NA NA	55.0	18.0	49.0	NA	2.5	0.50	22.3	58.5
CROFTON		6-9	4E	TU	55	37.0	NA NA	44.0	NA	NA	NA	2.1	0.37	16.5	45.4
CROFTON		9-25	6E	TU	55	NA	NA NA	NA	NA	NA	NA	NA	0.32	14.3	14.3

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE A. RANGES DEVELOPED FROM CORN AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CROFTON		15-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
CROFTON		25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
CROFTON		25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
CROFTON	E	2-6	4E	TU	55	33.0	NA	NA	45.0	NA	NA	NA	2.1	0.37	16.5	44.4
CROFTON	E	2-9	4E	TU	102	50.0	NA	NA	55.0	NA	48.0	16.0	2.4	0.50	22.3	53.3
CROFTON	E	6-15	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
CROFTON	E	9-15	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
CROSSPLAIN		0-2	2W	OV	102	77.0	NA	NA	74.0	23.0	66.0	29.0	3.4	1.30	58.1	79.0
DAGLUM		0-2	4S	CP	54	NA	24.0	19.0	31.0	NA	NA	NA	0.8	0.28	12.5	38.5
DAGLUM		0-2	4S	CP	58	NA	19.0	14.0	25.0	NA	NA	NA	0.7	0.18	8.0	30.3
DAGLUM		2-6	4S	CP	54	NA	22.0	15.0	24.0	NA	NA	NA	0.7	0.25	11.2	32.3
DAGLUM		2-6	6S	CP	58	NA	NA	NA	NA	NA	NA	NA	NA	0.11	4.9	4.9
DAVIS		0-2	1	OV	102	88.0	NA	NA	84.0	26.0	82.0	32.0	4.3	1.05	46.9	92.4
DAVIS		2-6	2E	SI	102	85.0	NA	NA	83.0	24.0	75.0	30.0	3.9	0.72	32.2	86.8
DAVISON		0-2	2E	SI	55	51.0	NA	NA	59.0	15.0	45.0	NA	2.4	0.54	24.1	56.1
DAVISON		0-2	2E	SI	102	62.0	NA	NA	67.0	15.0	49.0	18.0	2.7	0.68	30.4	59.7
DAVISON		2-6	3E	SI	55	48.0	NA	NA	56.0	NA	42.0	NA	2.4	0.54	24.1	54.4
DAVISON		2-6	3E	SI	102	61.0	NA	NA	62.0	14.0	43.0	17.0	2.6	0.66	29.5	56.0
DAWES		0-2	2S	CY	66	NA	35.0	NA	43.0	NA	NA	NA	1.5	0.48	21.4	53.2
DAWES		0-2	3S	CY	60	NA	26.0	NA	26.0	NA	NA	NA	1.1	0.32	14.3	37.2
DAWES		0-2	2S	CY	63	NA	33.0	NA	39.0	NA	NA	NA	1.4	0.38	17.0	49.4
DAWES		0-2	2S	CY	64	NA	34.0	NA	39.0	NA	36.0	NA	1.4	0.32	14.3	48.3
DAWES		2-6	3E	CY	63	NA	42.0	NA	38.0	NA	NA	NA	1.3	0.34	15.2	54.9
DAWES		2-6	3S	CY	64	NA	31.0	NA	37.0	NA	33.0	NA	1.3	0.28	12.5	44.6
DAWES		2-6	3E	CY	66	NA	31.0	NA	40.0	NA	NA	NA	1.4	0.44	19.7	48.3
DEGREY		0-2	4S	CP	53	17.0	NA	15.0	27.0	NA	22.0	NA	1.1	0.33	14.7	27.5
DEGREY		0-2	4S	CP	63	NA	22.0	NA	28.0	NA	21.0	NA	1.1	0.33	14.7	32.4
DEGREY		2-6	4S	CP	53	17.0	NA	14.0	26.0	NA	20.0	NA	1.0	0.29	13.0	25.8
DEGREY		2-6	4S	CP	63	NA	20.0	NA	26.0	NA	18.0	NA	1.0	0.29	13.0	29.3
DELMONT		0-2	3S	SWG	102	35.0	NA	NA	43.0	13.0	28.0	16.0	1.7	0.56	25.0	40.5
DELMONT		0-2	4S	SWG	55	24.0	NA	NA	32.0	NA	22.0	NA	1.2	0.33	14.7	28.6
DELMONT		2-6	4E	SWG	55	20.0	NA	NA	28.0	NA	20.0	NA	1.0	0.33	14.7	24.7
DELMONT		2-6	4S	SWG	102	32.0	NA	NA	39.0	NA	25.0	13.0	1.6	0.54	24.1	35.3
DELMONT		6-9	4E	SWG	102	NA	NA	NA	32.0	NA	19.0	NA	1.5	0.52	23.2	30.8
DELMONT		6-15	6E	SWG	55	NA	NA	NA	NA	NA	15.0	NA	NA	0.28	12.5	17.7
DELMONT		9-25	6E	SWG	102	NA	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
DEMAR		0-2	4S	CP	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
DEMAR		2-6	6S	CP	61	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
DEMKY		0-2	3S	CY	53	32.0	33.0	23.0	49.0	NA	39.0	NA	1.7	0.52	23.2	50.8
DEMKY		0-2	3S	CY	55	48.0	36.0	25.0	51.0	NA	45.0	NA	2.4	0.56	25.0	59.8

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
DEMKY		2-6	3E	CY	53	31.0	31.0	21.0	46.0	NA	35.0	NA	1.6	0.52	23.2	47.3
DEMKY		2-6	3E	CY	55	45.0	33.0	23.0	49.0	NA	41.0	NA	2.3	0.56	25.0	55.8
DEMKY		6-9	4E	CY	53	NA	27.0	17.0	39.0	NA	NA	NA	1.4	0.50	22.3	44.6
DEMKY		6-9	4E	CY	55	NA	NA	NA	43.0	NA	NA	NA	2.0	0.53	23.7	46.8
DEMPSTER		0-2	2S	SI	102	75.0	NA	NA	78.0	23.0	58.0	30.0	3.1	0.63	28.2	77.1
DEMPSTER		2-6	3S	SI	102	67.0	NA	NA	74.0	18.0	53.0	29.0	3.0	0.61	27.3	70.2
DEMPSTER		6-9	4E	SI	102	55.0	NA	NA	57.0	14.0	46.0	24.0	2.8	0.59	26.4	58.4
DESART		0-6	4E	SY	54	NA	28.0	25.0	36.0	NA	NA	NA	1.4	0.37	16.5	49.4
DESART		0-6	4E	SY	58	NA	24.0	18.0	32.0	NA	NA	NA	1.2	0.32	14.3	40.5
DICKEY		0-2	3E	SY	55	42.0	NA	17.0	39.0	11.0	NA	NA	2.0	0.55	24.6	43.1
DICKEY		0-2	3S	SY	102	47.0	NA	NA	45.0	12.0	NA	NA	2.0	0.70	31.3	46.9
DICKEY		2-6	3E	SY	55	39.0	NA	16.0	40.0	NA	NA	NA	1.8	0.55	24.6	41.9
DICKEY		2-6	3E	SY	102	44.0	NA	NA	43.0	11.0	NA	NA	1.9	0.68	30.4	44.1
DICKEY		6-9	4E	SY	55	NA	NA	NA	34.0	NA	NA	NA	1.5	0.51	22.8	36.1
DICKEY		6-9	4E	SY	102	36.0	NA	NA	39.0	NA	NA	NA	1.6	0.65	29.0	39.4
DICKEY		9-15	6E	SY	55	NA	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
DICKEY		9-15	6E	SY	102	NA	NA	NA	NA	NA	NA	NA	NA	0.64	28.6	28.6
DICKEY	E	0-2	3E	SY	55	36.0	NA	16.0	39.0	11.0	NA	NA	1.7	0.55	24.6	39.9
DICKEY	E	0-2	3E	SY	102	45.0	NA	NA	43.0	11.0	NA	NA	1.8	0.68	30.4	43.8
DICKEY	E	2-6	4E	SY	55	31.0	NA	NA	34.0	NA	NA	NA	1.5	0.51	22.8	35.0
DICKEY	E	2-6	4E	SY	102	35.0	NA	NA	37.0	NA	NA	NA	1.6	0.65	29.0	38.3
DICKEY	E	6-9	6E	SY	55	NA	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
DICKEY	E	6-15	6E	SY	102	NA	NA	NA	NA	NA	NA	NA	NA	0.64	28.6	28.6
DIMMICK		0-2	3W	WL	54	NA	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
DIVIDE		0-2	3S	SI	55	42.0	NA	23.0	45.0	14.0	NA	NA	2.1	0.50	22.3	50.0
DIVIDE		0-2	3S	SI	102	54.0	NA	NA	52.0	15.0	NA	NA	2.5	0.63	28.2	56.2
DIX		0-9	6S	SWG	60	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
DIX		0-9	6S	SWG	61	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
DIX		0-9	6S	SWG	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
DIX		0-9	6S	SWG	66	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
DIX		9-40	7S	SWG	60	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
DIX		9-40	7S	SWG	61	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
DIX		9-25	7S	SWG	64	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
DIX		9-25	7E	SWG	66	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
DOGER		0-6	4E	SY	64	23.0	NA	NA	28.0	NA	NA	NA	1.4	0.40	17.9	29.2
DOGER		0-6	4E	SY	65	25.0	NA	NA	24.0	NA	NA	NA	1.5	0.38	17.0	29.2
DOGER		0-6	4E	SY	66	26.0	NA	NA	32.0	NA	NA	NA	1.5	0.45	20.1	32.5
DOGER		6-15	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
DOGER		6-15	6E	SY	65	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
DOGER		6-15	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2

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** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE A: RANKINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17	
DORAN		0-2	2S	CY	102	68.0	NA	30.0	76.0	17.0	NA	28.0	2.9	0.72	32.2	71.6
DORNA		0-2	2E	SI	53	32.0	28.0	22.0	48.0	NA	42.0	NA	2.0	0.47	21.0	50.1
DOVRAY		0-2	2W	CY	102	62.0	NA	NA	67.0	16.0	NA	19.0	3.1	1.19	53.2	63.1
DUDA		0-2	4E	SA	64	NA	NA	NA	24.0	NA	NA	NA	0.9	0.42	18.8	23.6
DUDA		0-2	4E	SA	65	NA	NA	NA	20.0	NA	NA	NA	0.9	0.40	17.9	21.4
DUDA		0-2	4E	SA	66	13.0	NA	NA	24.0	NA	NA	NA	1.2	0.54	24.1	22.7
DUDA		2-9	6E	SA	64	NA	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
DUDA		2-9	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
DUDA		2-9	6E	SA	66	NA	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
DUDLEY		0-2	4S	CP	55	28.0	NA	NA	32.0	NA	29.0	NA	1.3	0.36	16.1	32.3
DUDLEY		0-2	4S	CP	102	36.0	NA	NA	41.0	13.0	32.0	19.0	1.7	0.58	25.9	42.4
DUDLEY		2-6	4S	CP	55	24.0	NA	NA	29.0	NA	26.0	NA	1.2	0.34	15.2	29.0
DUDLEY		2-6	4S	CP	102	33.0	NA	NA	39.0	NA	30.0	18.0	1.5	0.56	25.0	38.8
DUNDAY		0-2	4E	SA	64	23.0	NA	NA	24.0	NA	NA	NA	1.3	0.35	15.6	27.0
DUNDAY		0-2	4E	SA	65	NA	NA	NA	24.0	NA	NA	NA	1.3	0.38	17.0	28.3
DUNDAY		0-2	4E	SA	66	24.0	NA	NA	25.0	NA	NA	NA	1.4	0.50	22.3	28.5
DUNDAY		2-9	6E	SA	61	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
DUNDAY		2-9	6E	SA	60	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
DUNDAY		2-9	6E	SA	64	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
DUNDAY		2-9	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
DUNDAY		2-9	6E	SA	66	NA	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
DUPREE		2-15	6S	DC	53	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
DUPREE		2-15	6S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
DUPREE		15-40	7S	DC	53	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
DUPREE		15-40	7S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
DUROC		0-2	2C	SI	64	42.0	46.0	NA	52.0	NA	49.0	NA	2.0	0.37	16.5	61.5
DUROC		2-6	2E	SI	64	40.0	44.0	NA	49.0	NA	48.0	NA	1.8	0.34	15.2	58.4
DURRSTEIN		0-2	6W	SL	53	NA	NA	NA	NA	NA	NA	NA	NA	0.65	29.0	29.0
DURRSTEIN		0-2	6W	SL	55	NA	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
EAKIN		0-2	2C	SI	53	42.0	NA	26.0	57.0	16.0	48.0	NA	2.0	0.50	22.3	55.4
EAKIN		0-2	2C	SI	55	50.0	35.0	26.0	60.0	18.0	55.0	NA	2.1	0.55	24.6	62.7
EAKIN		2-6	2E	SI	53	41.0	NA	24.0	56.0	14.0	45.0	NA	1.9	0.47	21.0	52.1
EAKIN		2-6	2E	SI	55	48.0	34.0	25.0	58.0	17.0	54.0	NA	2.0	0.53	23.7	60.4
EAKIN		6-9	3E	SI	53	38.0	NA	23.0	45.0	NA	38.0	NA	1.6	0.45	20.1	46.0
EAKIN		6-9	3E	SI	55	42.0	NA	23.0	52.0	15.0	47.0	NA	1.9	0.50	22.3	52.1
EAKIN		9-15	4E	SI	53	31.0	NA	20.0	39.0	NA	NA	NA	1.4	0.41	18.3	39.8
EAKIN		9-15	4E	SI	55	NA	NA	20.0	43.0	NA	NA	NA	1.7	0.48	21.4	45.9
ECKMAN		0-2	1	SI	102	66.0	NA	NA	71.0	19.0	NA	21.0	2.7	0.68	30.4	66.1
ECKMAN		0-2	2E	SI	55	54.0	NA	28.0	67.0	17.0	NA	NA	2.3	0.57	25.5	63.0
ECKMAN		2-6	2E	SI	55	53.0	NA	28.0	63.0	16.0	NA	NA	2.3	0.57	25.5	61.2

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
ECKMAN		2-6	2E	SI	102	64.0	NA NA	67.0	18.0	NA	20.0	2.6	0.63	28.2	63.1
ECKMAN		6-9	3E	SI	55	45.0	NA 26.0	53.0	15.0	NA	NA	2.2	0.54	24.1	55.1
ECKMAN		6-9	3E	SI	102	51.0	NA NA	63.0	15.0	NA	19.0	2.5	0.60	26.8	56.4
ECKMAN		9-15	4E	SI	55	33.0	NA 23.0	43.0	13.0	NA	NA	2.0	0.50	22.3	46.5
ECKMAN		9-15	4E	SI	102	NA	NA NA	56.0	NA	NA	NA	2.2	0.57	25.5	56.3
EDGELEY		0-2	2C	SI	55	45.0	NA 27.0	52.0	15.0	NA	NA	2.1	0.48	21.4	54.9
EDGELEY		2-6	2E	SI	55	42.0	NA 27.0	50.0	14.0	NA	NA	2.0	0.46	20.6	52.7
EDGELEY		6-9	3E	SI	55	37.0	NA 25.0	46.0	NA	NA	NA	2.0	0.44	19.7	49.9
EDGELEY		9-15	4E	SI	55	32.0	NA NA	36.0	NA	NA	NA	NA	0.42	18.8	36.8
EDGELEY		15-25	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
EGAN		0-2	1	SI	102	85.0	NA NA	83.0	26.0	75.0	31.0	3.7	0.68	30.4	87.6
EGAN		2-6	2E	SI	102	80.0	NA NA	80.0	24.0	72.0	29.0	3.5	0.64	28.6	82.8
EGAN		6-9	3E	SI	102	69.0	NA NA	67.0	NA	61.0	26.0	3.2	0.61	27.3	71.8
EGAN	E	2-6	3E	SI	102	69.0	NA NA	67.0	18.0	60.0	26.0	3.1	0.62	27.7	69.8
EGAN	E	6-9	4E	SI	102	57.0	NA NA	59.0	NA	54.0	NA	2.8	0.60	26.8	63.5
EGAS		0-2	7S	SL	53	NA	NA NA	NA	NA	NA	NA	NA	0.65	29.0	29.0
EGAS		0-2	7S	SL	55	NA	NA NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
EGELAND		0-2	3E	SY	55	47.0	NA 25.0	47.0	14.0	NA	NA	1.8	0.55	24.6	51.2
EGELAND		0-2	3S	SY	102	53.0	NA NA	53.0	15.0	NA	18.0	1.9	0.70	31.3	51.4
EGELAND		2-6	3E	SY	55	45.0	NA 23.0	45.0	13.0	NA	NA	1.7	0.52	23.2	48.1
EGELAND		2-6	3E	SY	102	51.0	NA NA	48.0	14.0	NA	17.0	1.8	0.64	28.6	48.2
EGELAND		6-9	4E	SY	55	39.0	NA 19.0	40.0	NA	NA	NA	1.4	0.50	22.3	41.5
EGELAND		6-9	4E	SY	102	47.0	NA NA	44.0	13.0	NA	NA	1.5	0.61	27.3	44.6
EGELAND		9-15	6E	SY	55	NA	NA NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
EGELAND		9-15	6E	SY	102	NA	NA NA	NA	NA	NA	NA	NA	0.59	26.4	26.4
EGELAND	E	0-2	3E	SY	55	41.0	NA 19.0	41.0	13.0	NA	NA	1.6	0.52	23.2	43.9
EGELAND	E	0-2	3E	SY	102	50.0	NA NA	47.0	14.0	NA	14.0	1.7	0.64	28.6	45.7
EGELAND	E	2-6	4E	SY	55	38.0	NA 16.0	37.0	11.0	NA	NA	1.4	0.50	22.3	38.5
EGELAND	E	2-6	4E	SY	102	42.0	NA NA	41.0	13.0	NA	NA	1.5	0.61	27.3	42.5
EGELAND	E	6-9	6E	SY	55	NA	NA NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
EGELAND	E	6-9	6E	SY	102	NA	NA NA	NA	NA	NA	NA	NA	0.59	26.4	26.4
EKALAKA		0-6	4E	SY	54	NA	21.0 19.0	34.0	NA	NA	NA	1.3	0.33	14.7	40.6
EKALAKA		0-6	4E	SY	58	NA	24.0 18.0	33.0	NA	NA	NA	1.2	0.30	13.4	40.7
ELPAM	DNF	0-2	4W	SB	53	NA	NA 17.0	34.0	NA	NA	NA	2.0	1.08	48.3	42.3
ELPAM	DNF	0-2	4W	SB	55	NA	NA NA	36.0	NA	NA	NA	2.2	1.12	50.0	45.3
ELSMERE		0-6	4E	SB	64	28.0	NA NA	40.0	NA	NA	NA	2.3	1.05	46.9	42.3
ELSMERE		0-6	4E	SB	65	NA	NA NA	41.0	NA	NA	NA	2.4	1.20	53.6	50.4
ELSMERE		0-6	4E	SB	66	NA	NA NA	47.0	NA	NA	NA	2.6	1.30	58.1	56.0
EMBDEN		0-2	3E	SY	55	53.0	NA 28.0	52.0	16.0	NA	NA	2.1	0.55	24.6	57.9
EMBDEN		0-2	3S	SY	102	66.0	NA NA	65.0	18.0	NA	19.0	2.5	0.70	31.3	62.2

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED "SOIL RATING" IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
EMBDEN		2-6	3E	SY	55	50.0	NA 25.0	47.0	15.0	NA	NA	2.0	0.52	23.2	53.4
EMBDEN		2-6	3E	SY	102	61.0	NA NA	58.0	16.0	NA	18.0	2.3	0.64	28.6	56.7
EMRICK		0-2	1	SI	102	63.0	NA NA	75.0	23.0	NA	NA	3.3	0.57	25.5	76.6
EMRICK		0-2	2E	SI	55	56.0	NA 32.0	67.0	19.0	NA	NA	2.6	0.47	21.0	68.2
ENET		0-2	2S	SI	102	54.0	NA NA	62.0	17.0	41.0	27.0	2.5	0.68	30.4	60.0
ENET		0-2	3S	SI	55	45.0	NA 25.0	49.0	16.0	39.0	NA	2.2	0.54	24.1	53.0
ENET		2-6	3E	SI	55	40.0	NA 22.0	44.0	15.0	37.0	NA	2.1	0.51	22.8	48.6
ENET		2-6	3S	SI	102	52.0	NA NA	59.0	15.0	30.0	23.0	2.4	0.64	28.6	53.7
ENET		6-9	4E	SI	55	NA	NA NA	37.0	NA	28.0	NA	1.6	0.47	21.0	37.0
ENET		6-9	4E	SI	102	NA	NA NA	52.0	NA	31.0	NA	2.1	0.60	26.8	47.5
EPPING		0-15	6S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
EPPING		0-15	6S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
EPPING		0-15	6S	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
EPPING		15-40	7S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
EPPING		15-40	7S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
EPPING		15-40	7S	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
EPSIE		2-40	7S	SU	60	NA	NA NA	NA	NA	NA	NA	NA	0.13	5.8	5.8
ESTELLINE		0-2	3S	SI	55	52.0	NA 26.0	54.0	14.0	NA	NA	1.8	0.52	23.2	54.3
ESTELLINE		0-2	2S	SI	102	67.0	NA NA	80.0	21.0	NA	26.0	2.7	0.68	30.4	72.3
ESTELLINE		2-6	3S	SI	102	66.0	NA NA	77.0	19.0	NA	24.0	2.6	0.63	28.2	68.5
ESTELLINE		6-9	4E	SI	102	53.0	NA NA	68.0	16.0	NA	20.0	2.5	0.61	27.3	59.2
ETHAN		2-6	3E	SI	55	54.0	NA NA	50.0	16.0	41.0	NA	2.2	0.54	24.1	53.5
ETHAN		2-6	3E	SI	102	57.0	NA NA	64.0	18.0	44.0	21.0	2.9	0.66	29.5	61.1
ETHAN		6-9	4E	SI	55	40.0	NA NA	45.0	15.0	35.0	NA	2.0	0.51	22.8	46.4
ETHAN		6-9	4E	SI	102	50.0	NA NA	53.0	17.0	37.0	19.0	2.8	0.61	27.3	54.6
ETHAN		9-25	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
ETHAN		9-25	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.55	24.6	24.6
ETHAN	E	2-6	4E	SI	55	40.0	NA NA	44.0	15.0	38.0	NA	1.9	0.51	22.8	46.5
ETHAN	E	2-6	4E	SI	102	49.0	NA NA	54.0	17.0	36.0	19.0	2.7	0.61	27.3	54.0
ETHAN	E	6-9	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.55	24.6	24.6
ETHAN	E	6-15	6E	SI	55	NA	NA NA	NA	NA	NA	NA	1.8	0.47	21.0	41.6
EXLINE		0-2	6S	TCP	55	NA	NA NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
EXLINE		0-2	6S	TCP	102	NA	NA NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
FARLAND		0-2	2C	SI	53	38.0	NA 25.0	55.0	17.0	NA	NA	1.9	0.47	21.0	53.6
FARLAND		0-2	2C	SI	54	34.0	33.0 28.0	47.0	NA	NA	NA	1.8	0.37	16.5	54.7
FARLAND		2-6	2E	SI	53	36.0	NA 23.0	50.0	15.0	NA	NA	1.9	0.43	19.2	49.6
FARLAND		2-6	2E	SI	54	31.0	30.0 25.0	44.0	NA	NA	NA	1.7	0.33	14.7	50.1
FARLAND		6-9	3E	SI	53	31.0	NA 19.0	43.0	NA	NA	NA	1.8	0.41	18.3	42.5
FARLAND		6-9	3E	SI	54	26.0	25.0 19.0	40.0	NA	NA	NA	1.5	0.31	13.9	42.0
FARNUF		0-2	2C	SI	54	33.0	33.0 26.0	46.0	NA	NA	NA	1.7	0.35	15.6	52.8

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
FARNUF		2-6	2E	SI	54	31.0	30.0 25.0	43.0	NA	NA	NA	1.5	0.31	13.9	48.9
FEDORA		0-2	3W	SB	55	40.0	NA NA	42.0	NA	40.0	NA	2.5	1.20	53.6	48.4
FEDORA		0-2	3W	SB	102	59.0	NA NA	49.0	14.0	45.0	16.0	2.6	1.35	60.3	53.3
FIRESTEEL		0-2	3S	SI	55	39.0	NA NA	NA	NA	32.0	NA	1.8	0.54	24.1	40.4
FIRESTEEL		0-2	3S	SI	102	45.0	NA NA	50.0	NA	33.0	NA	1.9	0.68	30.4	46.4
FLANDREAU		0-2	2S	SI	102	72.0	NA NA	75.0	22.0	63.0	28.0	3.0	0.68	30.4	75.2
FLANDREAU		2-6	3S	SI	102	70.0	NA NA	67.0	19.0	59.0	22.0	2.8	0.63	28.2	67.5
FLANDREAU		6-9	4E	SI	102	57.0	NA NA	60.0	NA	51.0	NA	2.2	0.61	27.3	59.4
FLANDREAU		9-15	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.55	24.6	24.6
FLANDREAU	E	2-6	4E	SI	102	55.0	NA NA	62.0	17.0	53.0	NA	2.2	0.61	27.3	59.9
FLANDREAU	E	6-9	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.58	25.9	25.9
FLEAK		2-15	6E	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
FLEAK		15-25	7E	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
FORDVILLE		0-2	2S	SI	102	49.0	NA NA	55.0	15.0	NA	19.0	1.9	0.61	27.3	51.5
FORDVILLE		0-2	3S	SI	55	45.0	NA 25.0	49.0	13.0	NA	NA	1.8	0.48	21.4	50.5
FORDVILLE		2-6	3E	SI	55	38.0	NA 22.0	46.0	11.0	NA	NA	1.8	0.45	20.1	45.4
FORDVILLE		2-6	3S	SI	102	45.0	NA NA	48.0	13.0	NA	NA	1.9	0.57	25.5	47.5
FORDVILLE		6-9	4E	SI	55	NA	NA NA	41.0	NA	NA	NA	1.3	0.40	17.9	37.7
FORDVILLE		6-9	4E	SI	102	41.0	NA NA	40.0	NA	NA	NA	1.4	0.54	24.1	40.0
FORDVILLE		9-15	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
FORESTBURG		0-2	4E	SY	55	43.0	NA 18.0	46.0	NA	45.0	NA	2.0	0.48	21.4	48.3
FORESTBURG		2-6	4E	SY	55	40.0	NA 15.0	43.0	NA	44.0	NA	1.7	0.45	20.1	43.8
FORMAN		0-2	1	SI	102	71.0	NA NA	77.0	19.0	NA	22.0	2.8	0.68	30.4	69.5
FORMAN		0-2	2C	SI	55	60.0	NA 30.0	68.0	18.0	NA	NA	2.6	0.57	25.5	67.6
FORMAN		2-6	2E	SI	55	58.0	NA 27.0	66.0	16.0	NA	NA	2.5	0.54	24.1	63.3
FORMAN		2-6	2E	SI	102	66.0	NA NA	74.0	18.0	NA	20.0	2.7	0.63	28.2	65.6
FORMAN		6-9	3E	SI	55	49.0	NA 25.0	60.0	13.0	NA	NA	2.4	0.51	22.8	56.5
FORMAN		6-9	3E	SI	102	59.0	NA NA	69.0	16.0	NA	17.0	2.6	0.60	26.8	59.6
FORMAN		9-15	4E	SI	55	41.0	NA 21.0	47.0	NA	NA	NA	2.3	0.47	21.0	50.4
FORMAN		9-15	4E	SI	102	50.0	NA NA	50.0	NA	NA	NA	2.4	0.58	25.9	54.5
FORMAN		15-25	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.44	19.7	19.7
FORMAN		15-25	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.55	24.6	24.6
FORMAN		25-40	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
FORMAN		25-40	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.49	21.9	21.9
FORNEY		0-2	3W	CY	102	75.0	NA NA	68.0	NA	70.0	28.0	3.3	0.76	34.0	76.9
FRAM		0-2	2E	SI	55	53.0	NA 27.0	64.0	14.0	NA	NA	2.5	0.48	21.4	60.4
FRAM		0-2	2E	SI	102	62.0	NA NA	72.0	15.0	NA	NA	2.6	0.59	26.4	64.4
GANNETT		0-2	5W	WL	64	NA	NA NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
GANNETT		0-2	5W	WL	65	NA	NA NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
GANNETT		0-2	5W	WL	66	NA	NA NA	NA	NA	NA	NA	NA	0.75	33.5	33.5

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
GARDENA		0-2	1	SI	102	70.0	NA	37.0	78.0	19.0	NA	NA	3.0	0.52	23.2	78.0
GARDENA		0-2	2C	SI	55	65.0	NA	37.0	74.0	18.0	NA	NA	2.9	0.50	22.3	74.9
GARDENA		2-6	2F	SI	55	59.0	NA	34.0	68.0	15.0	NA	NA	2.7	0.47	21.0	67.8
GAVINS		2-15	6S	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
GAVINS		2-25	6S	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6
GAVINS		15-40	7S	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
GAVINS		25-40	7S	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
GAYVILLE		0-2	6W	SL	102	NA	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
GETTYS		2-6	4E	TU	53	26.0	NA	15.0	38.0	NA	28.0	NA	1.5	0.39	17.4	35.1
GETTYS		2-6	4E	TU	55	37.0	NA	16.0	39.0	NA	30.0	NA	1.8	0.42	18.8	40.0
GETTYS		6-9	4E	TU	53	NA	NA	13.0	36.0	NA	21.0	NA	1.4	0.37	16.5	32.5
GETTYS		6-9	4E	TU	55	NA	NA	NA	34.0	NA	24.0	NA	1.7	0.40	17.9	35.1
GETTYS		9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
GETTYS		9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
GETTYS		25-40	7E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
GETTYS		25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
GETTYS	E	2-6	4E	TU	53	NA	NA	13.0	30.0	NA	24.0	NA	1.2	0.37	16.5	30.6
GETTYS	E	2-6	4E	TU	55	NA	NA	15.0	34.0	NA	26.0	NA	1.6	0.40	17.9	35.8
GETTYS	E	6-9	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	1.0	0.34	15.2	23.1
GETTYS	E	6-9	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	1.5	0.37	16.5	34.6
GLENBERG		0-2	3E	OV	63	32.0	28.0	NA	34.0	NA	31.0	NA	1.7	0.86	38.4	41.8
GLENBERG		0-2	3E	OV	64	31.0	28.0	NA	34.0	NA	29.0	NA	1.7	0.80	35.7	41.2
GLENBERG		0-2	3E	OV	66	33.0	29.0	NA	40.0	NA	NA	NA	1.8	0.94	42.0	46.2
GLENBERG		0-2	4E	OV	60	NA	20.0	NA	30.0	NA	NA	NA	1.4	0.63	28.2	36.6
GLENBERG		0-2	4E	OV	61	NA	23.0	12.0	32.0	NA	NA	NA	1.7	0.62	27.7	39.0
GLENBERG		2-6	4E	SY	60	NA	18.0	NA	28.0	NA	NA	NA	1.3	0.40	17.9	33.6
GLENBERG		2-6	4E	SY	61	NA	NA	NA	NA	NA	NA	NA	1.4	0.34	15.2	32.3
GLENDIVE		0-2	4E	OV	58	NA	30.0	19.0	36.0	NA	NA	NA	1.6	0.68	30.4	47.8
GLENDIVE		2-6	4E	SY	58	NA	28.0	18.0	33.0	NA	NA	NA	1.3	0.40	17.9	43.5
GLENHAM		0-2	2C	SI	53	39.0	35.0	26.0	56.0	NA	47.0	NA	2.1	0.50	22.3	58.4
GLENHAM		0-2	2C	SI	55	51.0	NA	28.0	58.0	NA	53.0	NA	2.3	0.54	24.1	61.0
GLENHAM		2-6	2E	SI	53	37.0	33.0	24.0	54.0	NA	43.0	NA	2.0	0.48	21.4	54.9
GLENHAM		2-6	2F	SI	55	48.0	NA	27.0	56.0	NA	51.0	NA	2.3	0.51	22.8	58.9
GLENHAM		6-9	3E	SI	53	31.0	29.0	22.0	46.0	NA	36.0	NA	1.9	0.46	20.6	48.3
GLENHAM		6-9	3E	SI	55	39.0	NA	24.0	49.0	NA	41.0	NA	2.1	0.49	21.9	50.7
GLENHAM		9-15	4E	SI	53	NA	26.0	17.0	39.0	NA	28.0	NA	1.5	0.45	20.1	42.3
GLENHAM		9-15	4E	SI	55	NA	NA	19.0	40.0	NA	39.0	NA	1.9	0.47	21.0	45.6
GLENHAM		15-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
GLENHAM		15-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
GLENHAM	E	0-2	2E	SI	53	37.0	NA	23.0	50.0	NA	45.0	NA	1.8	0.48	21.4	49.5

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
GLENHAM	E	0-2	2E	SI	55	48.0	NA 25.0	52.0	NA	50.0	NA	2.1	0.51	22.8	55.9
GLENHAM	E	2-6	3E	SI	53	31.0	NA 21.0	45.0	NA	36.0	NA	1.6	0.47	21.0	43.1
GLENHAM	E	2-6	3E	SI	55	41.0	NA 22.0	49.0	NA	45.0	NA	2.0	0.50	22.3	50.6
GLENHAM	E	6-9	4E	SI	53	27.0	NA 17.0	39.0	NA	28.0	NA	1.4	0.45	20.1	36.1
GLENHAM	E	6-9	4E	SI	55	NA	NA NA	41.0	NA	31.0	NA	1.8	0.49	21.9	41.2
GLENHAM	E	9-15	6E	SI	53	NA	NA NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
GLENHAM	E	9-15	6E	SI	55	NA	NA NA	NA	NA	NA	NA	1.6	0.45	20.1	37.0
GLENROSS		0-2	6W	SL	54	NA	NA NA	NA	NA	NA	NA	NA	0.63	28.2	28.2
GLYNDON		0-2	2E	SI	55	57.0	NA 33.0	68.0	15.0	NA	NA	2.7	0.54	24.1	66.8
GLYNDON		0-2	2E	SI	102	67.0	NA NA	72.0	16.0	NA	18.0	2.8	0.63	28.2	63.4
GOSHEN		0-2	2C	OV	63	46.0	45.0 NA	54.0	NA	NA	NA	2.5	0.94	42.0	66.4
GOSHEN		2-6	2E	SI	63	43.0	42.0 NA	51.0	NA	NA	NA	2.3	0.45	20.1	61.9
GRABLE		0-2	2S	SI	102	70.0	NA NA	60.0	NA	65.0	28.0	2.8	0.68	30.4	70.6
GRACEVILLE		0-2	1	OV	102	85.0	NA NA	77.0	24.0	80.0	31.0	3.8	1.30	58.1	86.7
GRAIL		0-2	2C	OV	53	48.0	NA 31.0	63.0	18.0	NA	NA	2.8	0.91	40.7	65.4
GRAIL		0-2	2C	OV	54	48.0	NA 31.0	64.0	NA	NA	NA	2.8	0.80	35.7	66.2
GRAIL		2-6	2E	SI	53	45.0	NA 28.0	58.0	17.0	NA	NA	2.7	0.52	23.2	61.0
GRAIL		2-6	2E	SI	54	46.0	NA 29.0	59.0	NA	NA	NA	2.7	0.48	21.4	62.5
GRAIL		6-9	3E	SI	53	42.0	NA NA	51.0	15.0	NA	NA	2.4	0.50	22.3	52.2
GRAIL		6-9	3E	SI	54	43.0	NA NA	52.0	NA	NA	NA	2.4	0.45	20.1	52.8
GRANER		2-25	6E	PC	61	NA	NA NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
GRAND	DF	0-2	2W	OV	102	42.0	NA NA	50.0	13.0	NA	NA	2.2	1.03	46.0	49.0
GRAND	DNF	0-2	4W	OV	102	NA	NA NA	NA	NA	NA	NA	NA	1.03	46.0	46.0
GRASSNA		0-2	2C	OV	53	51.0	NA 31.0	68.0	20.0	NA	NA	3.1	0.91	40.7	69.9
GRASSNA		2-6	2E	SI	53	44.0	NA 28.0	66.0	19.0	NA	NA	3.0	0.50	22.3	65.3
GREAT BEND		0-2	1	SI	102	70.0	NA NA	73.0	21.0	NA	27.0	2.9	0.63	28.2	72.8
GREAT BEND		0-2	2C	SI	55	57.0	NA 29.0	67.0	17.0	NA	NA	2.5	0.50	22.3	65.1
GREAT BEND		2-6	2E	SI	55	55.0	NA 28.0	65.0	16.0	NA	NA	2.4	0.47	21.0	62.5
GREAT BEND		2-6	2E	SI	102	67.0	NA NA	72.0	19.0	NA	23.0	2.8	0.57	25.5	68.0
GREAT BEND		6-9	3E	SI	55	43.0	NA 24.0	57.0	12.0	NA	NA	2.4	0.44	19.7	53.4
GREAT BEND		6-9	3E	SI	102	55.0	NA NA	64.0	15.0	NA	18.0	2.6	0.54	24.1	57.5
GREAT BEND		9-15	4E	SI	55	NA	NA 19.0	43.0	NA	NA	NA	2.3	0.41	18.3	49.6
GREAT BEND		9-15	4E	SI	102	NA	NA NA	52.0	NA	NA	NA	2.4	0.51	22.8	56.4
GRUMMIT		2-15	6S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
GRUMMIT		15-40	7S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
HALL		0-2	1	SI	102	70.0	NA NA	73.0	22.0	NA	28.0	3.2	0.68	30.4	75.4
HALL		0-2	2C	SI	55	65.0	NA NA	70.0	NA	70.0	NA	3.0	0.54	24.1	74.5
HAMAR		0-2	4W	SB	55	42.0	NA 24.0	61.0	14.0	NA	NA	2.6	1.25	55.9	56.4
HAMAR		0-2	4W	SB	102	59.0	NA NA	64.0	15.0	NA	NA	2.6	1.35	60.3	61.4
HAMERLY		0-2	2E	SI	55	55.0	NA 28.0	65.0	14.0	NA	NA	2.5	0.52	23.2	61.6

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SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
HAMERLY	0-2	2E	SI	102	63.0	NA	NA	72.0	15.0	NA	18.0	2.7	0.64	28.6	61.4
HAMERLY	2-6	3E	SI	55	50.0	NA	26.0	62.0	13.0	NA	NA	2.3	0.48	21.4	57.2
HAMERLY	2-6	3E	SI	102	61.0	NA	NA	67.0	14.0	NA	NA	2.5	0.59	26.4	61.3
HAND	0-2	1	SI	102	55.0	NA	27.0	68.0	NA	55.0	NA	2.6	0.54	24.1	65.4
HAND	0-2	2C	SI	55	51.0	NA	26.0	64.0	16.0	55.0	NA	2.5	0.52	23.2	61.6
HAND	2-6	2E	SI	55	49.0	NA	24.0	61.0	15.0	54.0	NA	2.5	0.48	21.4	59.1
HAND	2-6	2E	SI	102	52.0	NA	25.0	65.0	NA	54.0	NA	2.5	0.50	22.3	62.4
HAND	6-9	3E	SI	55	42.0	NA	NA	57.0	NA	NA	NA	2.3	0.46	20.6	53.5
HAND	6-9	3E	SI	102	45.0	NA	NA	60.0	NA	49.0	NA	2.3	0.48	21.4	56.2
HANLY	0-2	6E	SA	58	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
HARMONY	0-2	2S	CY	55	52.0	NA	32.0	63.0	17.0	NA	NA	2.7	0.52	23.2	65.6
HARMONY	0-2	2S	CY	102	60.0	NA	NA	66.0	22.0	NA	NA	2.8	0.66	29.5	69.5
HARMONY	2-6	3E	CY	55	49.0	NA	28.0	59.0	16.0	NA	NA	2.7	0.46	20.6	61.3
HARMONY	2-6	3E	CY	102	58.0	NA	NA	62.0	19.0	NA	NA	2.7	0.60	26.8	64.7
HARRIET	0-2	6W	SL	53	NA	NA	NA	NA	NA	NA	NA	NA	0.76	34.0	34.0
HARRIET	0-2	6W	SL	54	NA	NA	NA	NA	NA	NA	NA	NA	0.61	27.3	27.3
HARRIET	0-2	6W	SL	55	NA	NA	NA	NA	NA	NA	NA	NA	0.79	35.3	35.3
HARRIET	0-2	6W	SL	102	NA	NA	NA	NA	NA	NA	NA	NA	0.89	39.8	39.8
HATTIE	2-6	3E	CY	102	62.0	NA	NA	65.0	16.0	NA	NA	2.7	0.59	26.4	64.0
HATTIE	6-9	3E	CY	102	60.0	NA	NA	63.0	15.0	NA	NA	2.6	0.56	25.0	61.4
HATTIE	9-15	4E	CY	102	51.0	NA	NA	52.0	NA	NA	NA	2.4	0.53	23.7	55.6
HATTIE	15-25	6E	CY	102	NA	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
HAVERSON	0-2	3C	OV	60	NA	30.0	NA	32.0	NA	NA	NA	1.5	0.70	31.3	45.4
HAVERSON	0-2	3C	OV	61	30.0	NA	NA	40.0	NA	NA	NA	1.9	0.74	33.1	39.9
HAVERSON	0-2	2C	OV	63	32.0	31.0	NA	43.0	NA	39.0	NA	1.9	0.76	34.0	48.0
HAVERSON	0-2	2C	OV	64	31.0	31.0	NA	39.0	NA	34.0	NA	1.9	0.73	32.6	45.7
HAVERSON	2-6	2E	SI	63	NA	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
HAVERSON	2-6	2E	SI	64	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
HAVRE	0-2	3C	OV	58	35.0	NA	25.0	44.0	NA	NA	NA	1.8	0.63	28.2	47.7
HAVRELOH	0-2	2C	OV	54	35.0	33.0	26.0	46.0	NA	NA	NA	1.8	0.70	31.3	53.7
HAYNIE	0-2	1	OV	102	90.0	NA	NA	84.0	NA	85.0	31.0	4.0	1.25	55.9	91.9
HECLA	0-2	4E	SA	55	42.0	NA	19.0	45.0	12.0	NA	NA	2.2	0.50	22.3	47.1
HECLA	0-2	4S	SA	102	57.0	NA	NA	48.0	15.0	NA	13.0	2.3	0.64	28.6	50.4
HECLA	2-6	4E	SA	55	39.0	NA	16.0	41.0	11.0	NA	NA	2.1	0.48	21.4	42.9
HECLA	2-6	4S	SA	102	51.0	NA	NA	43.0	12.0	NA	NA	2.2	0.61	27.3	48.6
HECLA	6-15	6S	SA	102	NA	NA	NA	NA	NA	NA	NA	NA	0.58	25.9	25.9
HECLA	E 0-2	4E	SA	55	34.0	NA	15.0	37.0	10.0	NA	NA	1.7	0.48	21.4	37.9
HECLA	E 0-2	4E	SA	102	41.0	NA	NA	43.0	11.0	NA	NA	2.1	0.61	27.3	44.5
HECLA	E 2-6	6E	SA	55	NA	NA	NA	NA	NA	NA	NA	1.5	0.46	20.6	34.6
HECLA	E 2-6	6E	SA	102	38.0	NA	NA	41.0	11.0	NA	NA	2.1	0.58	25.9	43.1

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
HEIL		0-2	6S	CD	53	NA	NA	NA	NA	NA	NA	NA	NA	0.84	37.5	37.5
HEIL		0-2	6S	CD	54	NA	NA	NA	NA	NA	NA	NA	NA	0.62	27.7	27.7
HEIL		0-2	6S	CD	55	NA	NA	NA	NA	NA	NA	NA	NA	0.89	39.8	39.8
HEIL		0-2	6S	CD	58	NA	NA	NA	NA	NA	NA	NA	NA	0.52	23.2	23.2
HEIMDAL		0-2	1	SI	102	72.0	NA	NA	71.0	19.0	NA	24.0	2.8	0.61	27.3	69.4
HEIMDAL		0-2	2E	SI	55	55.0	NA	28.0	62.0	17.0	NA	NA	2.4	0.50	22.3	62.6
HEIMDAL		2-6	2E	SI	55	51.0	NA	26.0	59.0	16.0	NA	NA	2.3	0.48	21.4	58.9
HEIMDAL		2-6	2E	SI	102	67.0	NA	NA	67.0	17.0	NA	22.0	2.5	0.59	26.4	63.6
HEIMDAL		6-9	3E	SI	102	60.0	NA	NA	60.0	15.0	NA	17.0	2.3	0.57	25.5	55.7
HENKIN		0-2	3E	SY	55	48.0	NA	NA	49.0	15.0	47.0	NA	1.9	0.52	23.2	51.4
HENKIN		0-2	3S	SY	102	57.0	NA	NA	54.0	17.0	45.0	19.0	2.5	0.68	30.4	56.5
HENKIN		2-6	3E	SY	55	47.0	NA	NA	45.0	14.0	42.0	NA	1.8	0.48	21.4	47.9
HENKIN		2-6	3E	SY	102	54.0	NA	NA	52.0	15.0	42.0	18.0	2.3	0.64	28.6	52.6
HENKIN		6-9	4E	SY	55	40.0	NA	NA	41.0	NA	34.0	NA	1.5	0.45	20.1	40.6
HENKIN		6-9	4E	SY	102	47.0	NA	NA	44.0	NA	36.0	NA	1.9	0.61	27.3	46.2
HENKIN	E	0-2	3E	SY	55	40.0	NA	NA	44.0	13.0	43.0	NA	1.7	0.48	21.4	45.3
HENKIN	E	0-2	3E	SY	102	53.0	NA	NA	52.0	15.0	43.0	17.0	2.4	0.64	28.6	52.6
HENKIN	E	2-6	4E	SY	55	36.0	NA	NA	37.0	NA	35.0	NA	1.5	0.45	20.1	38.7
HENKIN	E	2-6	4E	SY	102	47.0	NA	NA	45.0	13.0	38.0	16.0	1.9	0.61	27.3	45.7
HENKIN	E	6-9	6E	SY	55	NA	NA	NA	NA	NA	NA	NA	1.4	0.41	18.3	32.3
HENKIN	E	6-9	6E	SY	102	NA	NA	NA	NA	NA	NA	NA	NA	0.56	25.0	25.0
HIDEWOOD	DF	0-2	2W	OV	102	61.0	NA	NA	74.0	16.0	NA	NA	2.8	1.13	50.5	66.8
HIDEWOOD	DNF	0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.13	50.5	50.5
HIGHMORE		0-2	1	SI	102	73.0	NA	NA	77.0	23.0	NA	27.0	3.2	0.64	28.6	77.1
HIGHMORE		0-2	2C	SI	53	38.0	NA	26.0	60.0	17.0	50.0	NA	2.1	0.52	23.2	56.6
HIGHMORE		0-2	2C	SI	55	53.0	NA	27.0	64.0	18.0	57.0	NA	2.2	0.55	24.6	62.8
HIGHMORE		2-6	2E	SI	53	37.0	NA	24.0	54.0	16.0	46.0	NA	2.0	0.50	22.3	52.7
HIGHMORE		2-6	2E	SI	55	51.0	NA	25.0	61.0	17.0	55.0	NA	2.0	0.55	24.6	59.3
HIGHMORE		2-6	2E	SI	102	70.0	NA	NA	74.0	22.0	NA	22.0	3.1	0.61	27.3	72.1
HIGHMORE		6-9	3E	SI	53	32.0	NA	22.0	50.0	14.0	39.0	NA	1.7	0.48	21.4	46.6
HIGHMORE		6-9	3E	SI	55	42.0	NA	23.0	56.0	15.0	46.0	NA	1.9	0.52	23.2	52.6
HIGHMORE		9-15	4E	SI	53	NA	NA	19.0	43.0	NA	NA	NA	1.4	0.46	20.6	42.7
HIGHMORE		9-15	4E	SI	55	NA	NA	20.0	43.0	NA	NA	NA	1.7	0.50	22.3	45.9
HISLE		0-9	6S	TCP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.17	7.6	7.6
HISLE		0-9	6S	TCP	61	NA	NA	NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
HISLE		0-9	6S	TCP	64	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
HOLT		0-2	3E	SY	64	31.0	29.0	NA	34.0	NA	NA	NA	1.3	0.38	17.0	41.1
HOLT		0-2	3E	SY	66	34.0	NA	NA	42.0	NA	NA	NA	1.4	0.46	20.6	38.2
HOLT		2-6	3E	SY	64	29.0	NA	NA	30.0	NA	NA	NA	1.1	0.37	16.5	29.7
HOLT		2-6	3E	SY	66	32.0	NA	NA	37.0	NA	NA	NA	1.4	0.45	20.1	35.7

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SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
HOLT	6-9	4E	SY	64	24.0	NA NA	26.0	NA	NA	NA	1.0	0.34	15.2	25.7
HOLT	6-9	4E	SY	66	28.0	NA NA	32.0	NA	NA	NA	1.3	0.42	18.8	31.7
HOLT	9-15	6E	SY	64	NA	NA NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
HOLT	9-15	6E	SY	66	NA	NA NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
HOMME	0-2	1	SI	102	66.0	NA NA	69.0	NA	54.0	28.0	3.1	0.63	28.2	70.5
HOMME	2-6	2E	SI	102	61.0	NA NA	64.0	NA	48.0	24.0	2.8	0.59	26.4	63.5
HOMME	6-9	3E	SI	102	53.0	NA NA	56.0	NA	43.0	NA	2.7	0.55	24.6	57.8
HORD	0-2	1	SI	102	76.0	NA NA	78.0	NA	66.0	29.0	3.5	0.72	32.2	79.8
HORD	0-2	2C	SI	55	63.0	43.0 NA	71.0	NA	NA	NA	2.7	0.54	24.1	75.6
HOUEK	0-2	1	SI	102	73.0	NA NA	77.0	23.0	59.0	27.0	3.2	0.64	28.6	75.9
HOUEK	0-2	2C	SI	55	63.0	NA 28.0	68.0	17.0	58.0	NA	2.7	0.52	23.2	67.2
HOUEK	2-6	2E	SI	55	60.0	NA 27.0	65.0	16.0	55.0	NA	2.6	0.48	21.4	64.2
HOUEK	2-6	2E	SI	102	70.0	NA NA	74.0	22.0	56.0	24.0	3.1	0.61	27.3	71.9
HOUEK	6-9	3E	SI	55	53.0	NA 25.0	58.0	13.0	47.0	NA	2.5	0.45	20.1	57.1
HOUEK	6-9	3E	SI	102	61.0	NA NA	73.0	16.0	47.0	20.0	3.0	0.58	25.9	62.8
HOUEK	9-15	4E	SI	55	NA	NA 17.0	49.0	NA	NA	NA	2.4	0.43	19.2	50.9
HOUEK	9-15	4E	SI	102	49.0	NA NA	50.0	NA	36.0	NA	2.6	0.57	25.5	52.4
HOUEK	15-25	6E	SI	55	NA	NA NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
HOUEK	15-25	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.55	24.6	24.6
HOUEK	25-40	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
HOVEN	0-2	6S	CD	53	NA	NA NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
HOVEN	0-2	6S	CD	55	NA	NA NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
HOVEN	0-2	6S	CD	60	NA	NA NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
HOVEN	0-2	6S	CD	63	NA	NA NA	NA	NA	NA	NA	NA	0.70	31.3	31.3
HOVEN	0-2	6S	CD	64	NA	NA NA	NA	NA	NA	NA	NA	0.65	29.0	29.0
HOVEN	0-2	6S	CD	66	NA	NA NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
HUGGINS	0-2	3S	CY	64	31.0	31.0 NA	41.0	NA	33.0	NA	1.1	0.37	16.5	42.2
HUGGINS	0-2	3S	CY	66	34.0	33.0 NA	44.0	NA	39.0	NA	1.2	0.54	24.1	46.3
HUGGINS	0-2	4S	CY	60	NA	23.0 NA	28.0	NA	NA	NA	0.9	0.34	15.2	34.2
HUGGINS	2-6	3E	CY	64	28.0	29.0 NA	37.0	NA	30.0	NA	1.0	0.33	14.7	38.6
HUGGINS	2-6	3E	CY	66	32.0	28.0 NA	39.0	NA	36.0	NA	1.1	0.50	22.3	41.4
HUGGINS	2-6	4E	CY	60	NA	NA NA	24.0	NA	NA	NA	0.8	0.31	13.9	22.5
HUGGINS	6-9	4E	CY	64	NA	24.0 NA	34.0	NA	22.0	NA	0.9	0.31	13.9	34.3
HUGGINS	6-9	4E	CY	66	NA	28.0 NA	34.0	NA	26.0	NA	0.9	0.47	21.0	37.7
HUGGINS	6-9	6E	CY	60	NA	NA NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
HUNTIMER	0-2	2S	CY	102	73.0	NA NA	76.0	NA	NA	24.0	3.0	0.72	32.2	72.9
HUNTIMER	2-6	3E	CY	102	69.0	NA NA	73.0	NA	NA	22.0	2.9	0.72	32.2	69.1
HURLEY	0-6	6S	TCP	53	NA	NA NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
HURLEY	0-6	6S	TCP	63	NA	NA NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
IMLAY	0-15	6S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.27	12.1	12.1

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE 1. RATING DEVELOPED FROM CROP YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) MTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
IMLAY		0-15	6S	SW	63	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
IMLAY		0-15	6S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
IMLAY		15-25	7S	SW	60	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
IMLAY		15-40	7S	SW	63	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
IMLAY		15-40	7S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
INAVALE		0-2	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
INAVALE		0-2	6E	SA	66	28.0	NA	NA	32.0	NA	NA	NA	1.6	0.50	22.3	34.0
JANSEN		0-2	3S	SI	66	34.0	35.0	NA	45.0	NA	50.0	NA	1.8	0.45	20.1	52.7
JANSEN		2-6	3E	SI	66	33.0	33.0	NA	42.0	NA	47.0	NA	1.7	0.45	20.1	49.8
JANSEN		6-9	4E	SI	66	NA	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
JAVA		2-6	3E	SI	53	24.0	NA	21.0	39.0	14.0	29.0	NA	1.7	0.47	21.0	40.7
JAVA		2-6	3E	SI	55	35.0	NA	26.0	41.0	14.0	32.0	NA	2.0	0.50	22.3	46.9
JAVA		6-9	4E	SI	53	22.0	NA	17.0	38.0	NA	22.0	NA	1.5	0.45	20.1	33.8
JAVA		6-9	4E	SI	55	32.0	NA	24.0	39.0	NA	25.0	NA	1.8	0.48	21.4	41.8
JAVA		9-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
JAVA		9-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
JAVA	E	2-6	4E	SI	53	19.0	NA	16.0	37.0	NA	25.0	NA	1.3	0.45	20.1	32.2
JAVA	E	2-6	4E	SI	55	33.0	NA	23.0	39.0	NA	28.0	NA	1.7	0.48	21.4	41.8
JAVA	E	6-9	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
JAVA	E	6-9	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	NA	0.46	20.6	20.6
JERAULD		0-6	6S	TCP	53	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
JERAULD		0-6	6S	TCP	55	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
JUDSON		0-2	1	OV	102	87.0	NA	NA	81.0	NA	83.0	36.0	4.2	1.15	51.4	93.6
JUDSON		2-6	2E	SI	102	84.0	NA	NA	78.0	NA	75.0	32.0	3.9	0.72	32.2	87.0
KADOKA		0-2	2C	SI	64	35.0	35.0	NA	46.0	NA	37.0	NA	1.4	0.38	17.0	48.2
KADOKA		0-2	2C	SI	66	39.0	39.0	NA	48.0	NA	40.0	NA	1.5	0.47	21.0	52.5
KADOKA		0-2	3C	SI	60	22.0	29.0	NA	33.0	NA	NA	NA	1.2	0.34	15.2	37.9
KADOKA		2-6	2E	SI	64	33.0	33.0	NA	44.0	NA	33.0	NA	1.3	0.35	15.6	45.1
KADOKA		2-6	2E	SI	66	36.0	37.0	NA	46.0	NA	38.0	NA	1.4	0.43	19.2	49.6
KADOKA		2-6	3E	SI	60	NA	24.0	NA	31.0	NA	NA	NA	1.1	0.31	13.9	37.6
KADOKA		6-9	3E	SI	64	26.0	29.0	NA	39.0	NA	26.0	NA	1.2	0.33	14.7	38.6
KADOKA		6-9	3E	SI	66	29.0	33.0	NA	40.0	NA	29.0	NA	1.3	0.40	17.9	42.4
KADOKA		6-9	4E	SI	60	NA	NA	NA	23.0	NA	NA	NA	1.0	0.29	13.0	24.3
KADOKA		9-15	4E	SI	64	NA	25.0	NA	33.0	NA	22.0	NA	1.0	0.31	13.9	35.2
KADOKA		9-15	4E	SI	66	NA	NA	NA	NA	NA	21.0	NA	1.2	0.38	17.0	26.3
KADOKA		9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
KADOKA		15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
KADOKA		15-25	6E	SI	66	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
KEITH		0-2	2C	SI	64	37.0	45.0	NA	49.0	NA	43.0	NA	1.7	0.40	17.9	56.6
KEITH		0-2	3C	SI	60	26.0	33.0	NA	34.0	NA	NA	NA	1.5	0.36	16.1	43.2

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** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 7 8	OATS (BU/A) 9	FLAX (BU/A) 10	SORGHUM GRAIN (BU/A) 11	SOY- BEANS (BU/A) 12	ALFALFA (T/A) 13	RANGE YIELD (AUMS) 14	RANGE RATING (PCT) 15	SOIL RATING (PCT) 16
KEITH	2-6	2E	SI	64	31.0	42.0	NA	44.0	NA	42.0	NA	1.6	0.37	52.2
KEITH	2-6	3E	SI	60	22.0	32.0	NA	32.0	NA	NA	NA	1.4	0.32	40.4
KEITH	6-9	3E	SI	64	26.0	35.0	NA	39.0	NA	35.0	NA	1.4	0.35	44.3
KEITH	6-9	4E	SI	60	NA	28.0	NA	26.0	NA	NA	NA	1.2	0.32	39.4
KEITH	9-15	4E	SI	64	NA	31.0	NA	29.0	NA	28.0	NA	1.2	0.33	40.3
KEITH	9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
KEITH	15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
KEOTA	2-6	3E	TU	64	NA	24.0	NA	26.0	NA	NA	NA	1.1	0.34	35.7
KEOTA	2-6	4E	TU	60	NA	23.0	NA	22.0	NA	NA	NA	1.0	0.35	32.7
KEOTA	2-6	4E	TU	61	NA	NA	24.0	26.0	NA	NA	NA	1.1	0.32	38.4
KEOTA	6-9	4E	TU	64	NA	22.0	NA	23.0	NA	NA	NA	0.9	0.32	31.6
KEOTA	6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
KEOTA	6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
KEOTA	9-25	6E	TU	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
KEOTA	25-40	7E	TU	64	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
KEYA	0-2	2C	OV	63	48.0	39.0	NA	53.0	NA	55.0	NA	2.2	0.91	62.3
KEYA	0-2	2C	OV	64	46.0	41.0	NA	52.0	NA	52.0	NA	2.0	0.90	60.9
KEYA	0-2	2C	OV	66	50.0	41.0	NA	55.0	NA	57.0	NA	2.2	0.94	64.5
KEYA	2-6	2E	SI	63	47.0	37.0	NA	51.0	NA	54.0	NA	2.0	0.43	59.6
KEYA	2-6	2E	SI	64	43.0	39.0	NA	49.0	NA	49.0	NA	1.7	0.40	56.6
KEYA	2-6	2E	SI	66	46.0	40.0	NA	52.0	NA	55.0	NA	2.0	0.48	61.1
KEYA	6-9	3E	SI	63	NA	32.0	NA	43.0	NA	46.0	NA	1.7	0.41	53.0
KEYA	6-9	3E	SI	64	35.0	34.0	NA	44.0	NA	42.0	NA	1.4	0.35	48.5
KEYA	6-9	3E	SI	66	NA	34.0	NA	46.0	NA	47.0	NA	1.8	0.44	55.8
KLOTEN	9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
KLOTEN	9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
KLOTEN	25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
KLOTEN	25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
KOLLS	0-2	6S	CD	60	NA	NA	NA	NA	NA	NA	NA	0.60	26.8	26.8
KOLLS	0-2	6S	CD	61	NA	NA	NA	NA	NA	NA	NA	0.52	23.2	23.2
KOLLS	0-2	6S	CD	63	NA	NA	NA	NA	NA	NA	NA	0.76	34.0	34.0
KOLLS	0-2	6S	CD	64	NA	NA	NA	NA	NA	NA	NA	0.72	32.2	32.2
KORCHEA	0-2	2C	OV	54	33.0	34.0	25.0	47.0	NA	NA	NA	1.8	0.73	53.4
KORCHEA	0-2	3C	OV	58	NA	31.0	22.0	41.0	NA	NA	NA	1.6	0.65	51.7
KRANZBURG	0-2	1	SI	102	78.0	NA	NA	81.0	21.0	NA	27.0	3.0	0.68	76.7
KRANZBURG	0-2	2C	SI	55	63.0	NA	28.0	70.0	17.0	NA	NA	2.8	0.54	67.9
KRANZBURG	2-6	2E	SI	55	60.0	NA	27.0	65.0	16.0	NA	NA	2.7	0.52	64.5
KRANZBURG	2-6	2E	SI	102	76.0	NA	NA	77.0	18.0	NA	24.0	3.0	0.63	71.8
KRANZBURG	6-9	3E	SI	55	NA	NA	NA	NA	NA	NA	NA	2.5	0.49	57.7
KRANZBURG	6-9	3E	SI	102	67.0	NA	NA	72.0	16.0	NA	21.0	2.7	0.60	64.4

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
KRANZBURG	E	2-6	3E	SI	102	70.0	NA NA	72.0	17.0	NA	21.0	2.6	0.60	26.8	65.3
KRANZBURG	E	6-9	4E	SI	102	60.0	NA NA	59.0	NA	NA	NA	2.3	0.55	24.6	60.6
KUBE		0-2	2C	SI	63	37.0	35.0 NA	48.0	NA	NA	NA	1.4	0.41	18.3	50.5
KUBE		0-2	2C	SI	64	35.0	35.0 NA	47.0	NA	NA	NA	1.4	0.38	17.0	49.7
KUBE		0-2	3C	SI	60	22.0	29.0 NA	31.0	NA	NA	NA	1.2	0.34	15.2	37.3
KUBE		2-6	2E	SI	63	33.0	33.0 NA	44.0	NA	NA	NA	1.3	0.39	17.4	46.6
KUBE		2-6	2E	SI	64	32.0	33.0 NA	44.0	NA	NA	NA	1.3	0.36	16.1	46.4
KUBE		2-6	3E	SI	60	NA	24.0 NA	29.0	NA	NA	NA	1.1	0.34	15.2	36.8
KYLE		0-2	3S	CY	63	25.0	30.0 23.0	33.0	NA	37.0	NA	1.4	0.42	18.8	43.9
KYLE		0-2	4S	CY	60	NA	23.0 20.0	26.0	NA	NA	NA	1.2	0.34	15.2	39.5
KYLE		0-2	4S	CY	61	NA	32.0 NA	33.0	NA	NA	NA	1.5	0.30	13.4	47.3
KYLE		2-6	3E	CY	63	24.0	29.0 21.0	31.0	NA	35.0	NA	1.4	0.38	17.0	41.8
KYLE		2-6	4E	CY	60	NA	22.0 19.0	25.0	NA	NA	NA	1.1	0.31	13.9	37.5
KYLE		2-6	4E	CY	61	NA	30.0 NA	32.0	NA	NA	NA	1.4	0.27	12.1	44.7
KYLE		6-9	4E	CY	63	20.0	24.0 17.0	29.0	NA	30.0	NA	1.3	0.35	15.6	35.8
KYLE		6-25	6E	CY	60	NA	NA NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
KYLE		6-25	6E	CY	61	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
LADELLE		0-2	1	OV	102	87.0	NA NA	83.0	22.0	NA	28.0	3.4	1.15	51.4	82.1
LADELLE		0-2	2C	OV	55	67.0	NA 33.0	75.0	19.0	NA	NA	3.3	1.02	45.6	76.1
LADNER		0-2	4S	CP	54	NA	NA NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
LADNER		0-2	4S	CP	58	NA	NA 17.0	31.0	NA	NA	NA	1.1	0.18	8.0	34.3
LADNER		2-9	6E	CP	54	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
LADNER		2-9	6S	CP	58	NA	NA NA	NA	NA	NA	NA	NA	0.16	7.1	7.1
LAKEPORT		0-2	2W	CY	102	88.0	NA NA	80.0	NA	82.0	30.0	3.8	0.72	32.2	88.5
LAKOA		6-25	6E	VS	61	NA	NA NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
LAKOA		9-40	7E	VS	61	NA	NA NA	NA	NA	NA	NA	NA	0.12	5.4	5.4
LAKOMA		2-6	3E	CY	63	18.0	25.0 NA	29.0	NA	32.0	NA	1.2	0.44	19.7	34.4
LAKOMA		6-9	4E	CY	63	16.0	22.0 NA	26.0	NA	24.0	NA	1.0	0.44	19.7	29.1
LAKOMA		9-25	6E	CY	63	NA	NA NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
LAKOMA		25-40	7E	CY	63	NA	NA NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
LAMO	DF	0-2	2W	SB	53	56.0	NA 27.0	64.0	15.0	NA	NA	2.8	1.30	58.1	63.2
LAMO	DF	0-2	2W	SB	55	58.0	NA 29.0	66.0	18.0	68.0	NA	3.2	1.35	60.3	70.9
LAMO	DF	0-2	2W	SB	64	NA	NA NA	50.0	NA	NA	NA	2.4	1.25	55.9	55.3
LAMO	DF	0-2	2W	SB	66	53.0	33.0 NA	58.0	NA	NA	NA	2.8	1.33	59.4	64.4
LAMO	DF	0-2	2W	SB	102	85.0	NA NA	73.0	19.0	67.0	30.0	4.1	1.45	64.8	81.2
LAMO	DNF	0-2	4W	SB	53	NA	NA NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
LAMO	DNF	0-2	4W	SB	55	NA	NA NA	NA	NA	NA	NA	NA	1.35	60.3	60.3
LAMO	DNF	0-2	4W	SB	66	NA	NA NA	NA	NA	NA	NA	NA	1.33	59.4	59.4
LAMO	DNF	0-2	4W	SB	102	NA	NA NA	NA	NA	NA	NA	NA	1.45	64.8	64.8
LAMO	HWT	0-2	4W	SB	64	NA	NA NA	NA	NA	NA	NA	NA	1.25	55.9	55.9

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
LAMO	HWT	0-2	4W	SB	53	NA	NA	NA	NA	NA	NA	2.0	1.30	58.1	46.2
LAMO	HWT	0-2	4W	SB	55	36.0	NA	NA	43.0	NA	44.0	2.7	1.35	60.3	50.0
LAMO	HWT	0-2	4W	SB	66	NA	NA	NA	NA	NA	NA	NA	1.33	59.4	59.4
LAMO	HWT	0-2	4W	SB	102	41.0	NA	NA	47.0	NA	43.0	3.2	1.45	64.8	55.0
LAMOURE	DF	0-2	2W	SB	53	54.0	NA	26.0	63.0	16.0	NA	2.7	1.27	56.7	62.2
LAMOURE	DF	0-2	2W	SB	55	57.0	NA	31.0	64.0	16.0	NA	2.8	1.31	58.5	66.1
LAMOURE	DF	0-2	2W	SB	102	66.0	NA	NA	71.0	18.0	28.0	3.0	1.35	60.3	70.4
LAMOURE	DNF	0-2	4W	SB	53	NA	NA	NA	NA	NA	NA	NA	1.27	56.7	56.7
LAMOURE	DNF	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	NA	1.31	58.5	58.5
LAMOURE	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	1.35	60.3	60.3
LAMOURE	HWT	0-2	4W	SB	53	NA	NA	NA	NA	NA	NA	NA	1.27	56.7	56.7
LAMOURE	HWT	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	NA	1.31	58.5	58.5
LAMOURE	HWT	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	2.0	1.35	60.3	46.2
LANE		0-2	2S	CY	53	51.0	NA	28.0	65.0	18.0	50.0	2.8	0.56	25.0	64.0
LANE		0-2	2S	CY	55	53.0	NA	28.0	70.0	18.0	54.0	2.8	0.60	26.8	66.0
LANE		2-6	3E	CY	53	46.0	NA	25.0	62.0	16.0	48.0	2.6	0.52	23.2	58.9
LANE		2-6	3E	CY	55	51.0	NA	26.0	65.0	17.0	53.0	2.8	0.56	25.0	63.1
LANGHEI		2-6	3E	TU	102	43.0	NA	NA	56.0	15.0	NA	1.9	0.58	25.9	51.0
LANGHEI		6-9	4E	TU	102	40.0	NA	NA	50.0	13.0	NA	1.7	0.53	23.7	45.6
LANGHEI		9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.53	23.7	23.7
LANGHEI		25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
LANTRY		2-6	4E	TU	54	NA	28.0	23.0	39.0	NA	NA	1.5	0.34	15.2	49.5
LANTRY		6-9	4E	TU	54	NA	21.0	20.0	32.0	NA	NA	1.3	0.32	14.3	40.6
LANTRY		9-15	6E	TU	54	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
LANTRY		15-25	6E	TU	54	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
LANTRY		25-40	6E	TU	54	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
LAPORTE		2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
LAPORTE		2-15	6S	SW	62	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
LAPORTE		15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
LAPORTE		15-40	7S	SW	62	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
LAPRAIRIE		0-2	1	OV	102	87.0	NA	NA	83.0	22.0	28.0	3.9	1.20	53.6	84.4
LAPRAIRIE		0-2	2C	OV	55	57.0	NA	33.0	75.0	19.0	NA	3.3	1.02	45.6	74.0
LAPRAIRIE		2-6	2E	SI	55	53.0	NA	29.0	66.0	17.0	NA	3.2	0.61	27.3	67.2
LAPRAIRIE		2-6	2E	SI	102	81.0	NA	NA	77.0	18.0	26.0	3.8	0.75	33.5	77.5
LARSON		0-2	4S	CP	55	NA	NA	16.0	31.0	NA	NA	1.3	0.28	12.5	35.0
LARSON		2-6	4S	CP	55	NA	NA	15.0	29.0	NA	NA	1.2	0.25	11.2	32.6
LARVIE		0-2	3S	CY	64	30.0	NA	NA	26.0	NA	NA	1.3	0.37	16.5	30.2
LARVIE		0-2	4S	CY	60	NA	21.0	NA	25.0	NA	NA	1.1	0.34	15.2	33.1
LARVIE		2-6	3E	CY	64	29.0	NA	NA	24.0	NA	NA	1.2	0.33	14.7	28.3
LARVIE		2-6	4E	CY	60	NA	20.0	NA	24.0	NA	NA	1.0	0.31	13.9	31.3

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
LARVIE		6-9	4E	CY	64	23.0	NA NA	NA	NA	NA	NA	1.1	0.31	13.9	24.9
LARVIE		6-9	6E	CY	60	NA	NA NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
LARVIE		9-25	6E	CY	64	NA	NA NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
LARVIE		25-40	7E	CY	64	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
LEFOR		0-2	3E	SY	54	NA	28.0 21.0	39.0	NA	NA	NA	1.3	0.35	15.6	47.1
LEFOR		2-6	3E	SY	54	NA	26.0 20.0	35.0	NA	NA	NA	1.2	0.33	14.7	43.7
LEFOR		6-9	4E	SY	54	NA	21.0 16.0	29.0	NA	NA	NA	1.1	0.31	13.9	36.1
LEHR		0-2	4S	SWG	53	NA	NA 19.0	40.0	12.0	NA	NA	1.1	0.28	12.5	40.0
LEHR		0-2	4S	SWG	54	NA	19.0 13.0	28.0	NA	NA	NA	0.8	0.28	12.5	31.1
LEHR		2-6	4E	SWG	53	NA	NA 16.0	38.0	NA	NA	NA	1.0	0.25	11.2	35.2
LEHR		2-6	4E	SWG	54	NA	18.0 12.0	26.0	NA	NA	NA	0.7	0.25	11.2	28.8
LEHR		6-25	6E	SWG	53	NA	NA NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
LEHR		6-25	6E	SWG	54	NA	NA NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
LEOTA	DF	0-2	2W	OV	55	48.0	NA 26.0	64.0	15.0	NA	NA	2.7	1.12	50.0	60.5
LEOTA	DF	0-2	2W	OV	102	61.0	NA NA	71.0	19.0	NA	NA	2.8	1.30	58.1	68.6
LEOTA	DNF	0-2	4W	OV	55	NA	NA NA	NA	NA	NA	NA	NA	1.12	50.0	50.0
LEOTA	DNF	0-2	4W	OV	102	NA	NA NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
LESHARA		0-2	2W	SB	66	61.0	37.0 NA	61.0	NA	NA	NA	3.1	1.60	71.5	71.3
LESHARA		0-2	2W	SB	102	88.0	NA NA	82.0	NA	NA	37.0	4.0	1.80	80.4	92.5
LETCHER		0-2	4E	SY	55	NA	NA 23.0	38.0	NA	NA	NA	1.5	0.48	21.4	45.0
LIHEN		0-2	4E	SA	58	NA	NA 14.0	26.0	NA	NA	NA	0.9	0.36	16.1	28.4
LIHEN		0-6	4E	SA	54	NA	25.0 14.0	28.0	NA	NA	NA	1.0	0.40	17.9	36.2
LIHEN		2-25	6E	SA	58	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
LIHEN		6-9	6E	SA	54	NA	NA NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
LIHEN	E	0-2	4E	SA	54	NA	22.0 13.0	28.0	NA	NA	NA	0.9	0.40	17.9	33.3
LIHEN	E	0-6	6E	SA	58	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
LIHEN	E	2-6	6E	SA	54	NA	NA NA	NA	NA	NA	NA	0.9	0.31	13.9	20.8
LINTON		0-6	2E	SI	53	32.0	NA 22.0	45.0	15.0	NA	NA	1.9	0.47	21.0	47.2
LINTON		6-9	3E	SI	53	28.0	NA 18.0	38.0	NA	NA	NA	1.7	0.45	20.1	39.2
LINTON		9-15	4E	SI	53	24.0	NA NA	35.0	NA	NA	NA	1.4	0.43	19.2	32.1
LISMAS		2-15	6S	SDC	60	NA	NA NA	NA	NA	NA	NA	NA	0.18	8.0	8.0
LISMAS		2-15	6S	SDC	61	NA	NA NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
LISMAS		15-40	7S	SDC	60	NA	NA NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
LISMAS		15-40	7S	SDC	61	NA	NA NA	NA	NA	NA	NA	NA	0.12	5.4	5.4
LISMORE		0-2	1	OV	102	76.0	NA NA	86.0	21.0	NA	27.0	3.4	1.13	50.5	79.2
LOHLER		0-2	2C	OV	54	35.0	34.0 25.0	47.0	NA	NA	NA	2.0	0.80	35.7	54.8
LOHMILLER		0-2	3C	OV	60	NA	28.0 15.0	28.0	NA	NA	NA	1.5	0.63	28.2	41.4
LOHMILLER		0-2	3C	OV	61	NA	30.0 21.0	31.0	NA	NA	NA	1.7	0.75	33.5	48.3
LOHMILLER		2-6	3E	CY	60	NA	25.0 14.0	24.0	NA	NA	NA	1.4	0.32	14.3	37.4
LOHMILLER		2-6	3E	CY	61	NA	26.0 19.0	29.0	NA	NA	NA	1.5	0.37	16.5	43.1

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LOUP		0-2	5W	SB	64	NA	NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
LOUP		0-2	5W	SB	65	NA	NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
LOUP		0-2	5W	SB	66	NA	NA	NA	NA	NA	NA	NA	1.35	60.3	60.3
LOWRY		0-2	1	SI	102	66.0	NA	NA	67.0	19.0	NA	27.0	2.7	0.64	28.6
LOWRY		0-2	2E	SI	53	36.0	NA	24.0	48.0	16.0	42.0	NA	2.0	0.50	22.3
LOWRY		0-2	2E	SI	55	51.0	NA	NA	53.0	NA	50.0	NA	2.3	0.50	22.3
LOWRY		0-2	2E	SI	63	36.0	33.0	22.0	49.0	NA	41.0	NA	1.8	0.41	18.3
LOWRY		2-6	2E	SI	53	32.0	NA	22.0	45.0	15.0	37.0	NA	1.9	0.47	21.0
LOWRY		2-6	2E	SI	55	48.0	NA	NA	50.0	NA	48.0	NA	2.2	0.50	22.3
LOWRY		2-6	2E	SI	63	33.0	31.0	20.0	46.0	NA	37.0	NA	1.7	0.38	17.0
LOWRY		2-6	2E	SI	102	64.0	NA	NA	64.0	18.0	NA	26.0	2.6	0.61	27.3
LOWRY		6-9	3E	SI	53	29.0	NA	20.0	41.0	NA	28.0	NA	1.7	0.44	19.7
LOWRY		6-9	3E	SI	55	40.0	NA	NA	47.0	NA	42.0	NA	2.0	0.47	21.0
LOWRY		6-9	3E	SI	63	30.0	24.0	17.0	41.0	NA	27.0	NA	1.5	0.35	15.6
LOWRY		6-9	3E	SI	102	57.0	NA	NA	58.0	15.0	NA	NA	2.3	0.55	24.6
LOWRY		9-15	4E	SI	53	26.0	NA	19.0	37.0	NA	23.0	NA	1.4	0.41	18.3
LOWRY		9-15	4E	SI	55	NA	NA	NA	NA	NA	NA	NA	NA	0.41	18.3
LOWRY		9-15	4E	SI	63	25.0	NA	15.0	37.0	NA	23.0	NA	1.3	0.33	14.7
LOWRY		9-15	4E	SI	102	NA	NA	NA	NA	NA	NA	NA	NA	0.47	21.0
LUDDEN	DF	0-2	2W	OV	55	51.0	NA	24.0	51.0	16.0	NA	NA	2.7	0.91	40.7
LUDDEN	DF	0-2	2W	OV	102	61.0	NA	32.0	70.0	13.0	NA	NA	2.7	1.05	46.9
LUDDEN	DNF	0-2	4W	OV	55	NA	NA	NA	NA	NA	NA	NA	NA	0.91	40.7
LUDDEN	DNF	0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.05	46.9
LUTE		0-2	6S	SL	66	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0
LUTON	DF	0-2	3W	WL	55	51.0	NA	NA	56.0	11.0	NA	NA	2.9	0.85	38.0
LUTON	DF	0-2	3W	WL	102	64.0	NA	NA	63.0	12.0	47.0	29.0	3.3	1.00	44.7
LUTON	S	0-2	4W	WL	55	NA	NA	NA	41.0	NA	NA	NA	2.5	0.85	38.0
LUTON	S	0-2	4W	WL	102	40.0	NA	NA	39.0	11.0	NA	24.0	3.0	1.00	44.7
LUTON	DNF	0-2	5W	WL	55	NA	NA	NA	NA	NA	NA	NA	NA	0.85	38.0
LUTON	DNF	0-2	5W	WL	102	NA	NA	NA	NA	NA	NA	NA	NA	1.00	44.7
MACKEN		0-2	6S	CD	53	NA	NA	NA	NA	NA	NA	NA	NA	0.91	40.7
MACKEN		0-2	6S	CD	60	NA	NA	NA	NA	NA	NA	NA	NA	0.58	25.9
MACKEN		0-2	6S	CD	61	NA	NA	NA	NA	NA	NA	NA	NA	0.69	30.8
MACKEN		0-2	6S	CD	63	NA	NA	NA	NA	NA	NA	NA	NA	0.88	39.3
MACKEN		0-2	6S	CD	64	NA	NA	NA	NA	NA	NA	NA	NA	0.86	38.4
MADDOCK		0-2	4E	SA	53	32.0	NA	16.0	32.0	11.0	NA	NA	1.4	0.50	22.3
MADDOCK		0-2	4E	SA	55	34.0	NA	16.0	33.0	12.0	NA	NA	1.5	0.54	24.1
MADDOCK		0-2	4S	SA	102	43.0	NA	NA	39.0	12.0	NA	NA	1.6	0.70	31.3
MADDOCK		2-6	4E	SA	53	31.0	NA	14.0	28.0	10.0	NA	NA	1.3	0.50	22.3
MADDOCK		2-6	4E	SA	55	32.0	NA	15.0	31.0	11.0	NA	NA	1.4	0.54	24.1

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
MADDOCK		2-6	4S	SA	102	41.0	NA	NA	37.0	11.0	NA	NA	1.5	0.70	31.3	39.4
MADDOCK		6-15	6E	SA	53	NA	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
MADDOCK		6-15	6E	SA	55	NA	NA	NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
MADDOCK		6-15	6S	SA	102	NA	NA	NA	NA	NA	NA	NA	NA	0.60	26.8	26.8
MADDOCK	E	0-2	4E	SA	53	27.0	NA	13.0	28.0	10.0	NA	NA	1.2	0.50	22.3	31.1
MADDOCK	E	0-2	4E	SA	55	27.0	NA	14.0	28.0	NA	NA	NA	1.3	0.54	24.1	31.3
MADDOCK	E	0-2	4E	SA	102	38.0	NA	NA	37.0	11.0	NA	NA	1.3	0.70	31.3	37.4
MADDOCK	E	2-6	6E	SA	102	NA	NA	NA	NA	NA	NA	NA	NA	0.60	26.8	26.8
MAITLAND		9-25	6E	VS	61	NA	NA	NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
MAITLAND		9-25	6E	VS	62	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
MAITLAND		25-40	7E	VS	61	NA	NA	NA	NA	NA	NA	NA	NA	0.11	4.9	4.9
MAITLAND		25-40	7E	VS	62	NA	NA	NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
MANDAN		0-6	2E	SI	53	34.0	NA	23.0	46.0	15.0	NA	NA	2.0	0.50	22.3	48.8
MANDAN		6-9	3E	SI	53	29.0	NA	NA	39.0	NA	NA	NA	1.7	0.45	20.1	37.7
MANNING		0-2	3E	SY	54	NA	27.0	21.0	37.0	NA	NA	NA	1.3	0.35	15.6	46.0
MANNING		2-6	3E	SY	54	NA	25.0	20.0	34.0	NA	NA	NA	1.2	0.35	15.6	42.8
MANter		0-2	3E	SY	63	31.0	31.0	NA	38.0	NA	NA	NA	1.4	0.45	20.1	43.9
MANter		0-2	3E	SY	64	29.0	30.0	NA	36.0	NA	NA	NA	1.4	0.40	17.9	42.3
MANter		0-2	3E	SY	65	NA	NA	NA	33.0	NA	NA	NA	1.3	0.40	17.9	33.2
MANter		0-2	3E	SY	66	33.0	32.0	NA	41.0	NA	NA	NA	1.5	0.46	20.6	46.4
MANter		0-2	4E	SY	60	NA	24.0	NA	30.0	NA	NA	NA	1.1	0.34	15.2	37.2
MANter		0-2	4E	SY	61	NA	30.0	NA	35.0	NA	NA	NA	1.4	0.37	16.5	45.8
MANter		2-6	3E	SY	63	29.0	28.0	NA	36.0	NA	NA	NA	1.3	0.41	18.3	40.6
MANter		2-6	3E	SY	64	28.0	28.0	NA	33.0	NA	NA	NA	1.3	0.37	16.5	39.5
MANter		2-6	3E	SY	65	NA	NA	NA	29.0	NA	NA	NA	1.2	0.37	16.5	29.9
MANter		2-6	3E	SY	66	30.0	30.0	NA	37.0	NA	NA	NA	1.4	0.43	19.2	42.8
MANter		2-6	4E	SY	60	NA	22.0	NA	29.0	NA	NA	NA	1.0	0.30	13.4	34.6
MANter		2-6	4E	SY	61	NA	28.0	NA	31.0	NA	NA	NA	1.3	0.35	15.6	42.0
MANter		6-9	4E	SY	63	NA	24.0	NA	30.0	NA	NA	NA	1.1	0.39	17.4	37.2
MANter		6-9	4E	SY	64	NA	24.0	NA	27.0	NA	NA	NA	1.0	0.35	15.6	35.3
MANter		6-9	4E	SY	65	NA	NA	NA	25.0	NA	NA	NA	1.0	0.35	15.6	25.4
MANter		6-9	4E	SY	66	NA	25.0	NA	31.0	NA	NA	NA	1.3	0.40	17.9	39.8
MANter		6-15	6E	SY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
MANter		6-15	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
MANVEL		0-2	3E	TU	64	NA	28.0	NA	27.0	NA	NA	NA	1.2	0.34	15.2	39.8
MANVEL		0-2	4E	TU	60	NA	22.0	NA	23.0	NA	NA	NA	1.1	0.35	15.6	33.1
MANVEL		0-2	4E	TU	61	NA	25.0	NA	26.0	NA	NA	NA	1.2	0.29	13.0	37.2
MANVEL		2-6	4E	TU	60	NA	22.0	NA	22.0	NA	NA	NA	0.9	0.31	13.9	31.2
MANVEL		2-6	4E	TU	61	NA	23.0	NA	24.0	NA	NA	NA	1.0	0.26	11.6	33.5
MANVEL		2-6	4E	TU	64	NA	25.0	NA	24.0	NA	NA	NA	1.1	0.32	14.3	35.7

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE A2: RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8 SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17	
MANVEL		6-9	4E	TU	64	NA	23.0	NA	22.0	NA	NA	NA	0.9	0.32	14.3	32.0
MANVEL		6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5	
MANVEL		6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7	
MANVEL		9-25	6E	TU	64	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4	
MARMARTH		0-2	3C	SI	58	NA	NA	23.0	39.0	NA	NA	NA	1.4	0.32	14.3	44.6
MARMARTH		2-6	3E	SI	58	NA	NA	22.0	35.0	NA	NA	NA	1.3	0.31	13.9	41.5
MARMARTH		6-9	4E	SI	58	NA	NA	18.0	32.0	NA	NA	NA	1.1	0.29	13.0	35.5
MARYSLAND	DF	0-2	2W	SB	102	59.0	NA	NA	67.0	16.0	NA	20.0	3.0	1.40	62.6	62.5
MARYSLAND	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	1.40	62.6	62.6	
MAWER		0-2	4E	SY	61	NA	24.0	15.0	25.0	NA	NA	NA	1.2	0.35	15.6	36.6
MAWER		2-6	4E	SY	61	NA	NA	NA	NA	NA	NA	NA	1.1	0.35	15.6	25.4
MAX		0-2	2C	SI	53	37.0	NA	26.0	55.0	16.0	NA	NA	2.1	0.48	21.4	54.1
MAX		2-6	2E	SI	53	35.0	NA	25.0	53.0	15.0	NA	NA	2.0	0.48	21.4	51.6
MAX		6-9	3E	SI	53	NA	NA	23.0	48.0	13.0	NA	NA	1.7	0.46	20.6	49.1
MAX		9-15	4E	SI	53	NA	NA	17.0	43.0	11.0	NA	NA	1.5	0.44	19.7	41.0
MAX		15-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8	
MC COOK		0-2	2C	OV	63	46.0	NA	NA	54.0	NA	50.0	NA	2.5	0.76	34.0	56.3
MC COOK		0-2	2C	OV	55	60.0	36.0	NA	65.0	NA	62.0	NA	3.1	0.94	42.0	71.9
MCKENZIE		0-2	6S	CD	54	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5	
MCKENZIE		0-2	6S	CD	58	NA	NA	NA	NA	NA	NA	NA	0.62	27.7	27.7	
MCPAUL		0-2	1	OV	102	90.0	NA	NA	84.0	NA	85.0	31.0	4.0	1.25	55.9	91.9
METRE		0-2	3S	CY	64	23.0	26.0	NA	29.0	NA	23.0	NA	1.2	0.37	16.5	33.7
METRE		0-2	4S	CY	60	NA	20.0	17.0	23.0	NA	NA	NA	1.1	0.31	13.9	34.5
METRE		2-6	3E	CY	64	NA	23.0	NA	28.0	NA	22.0	NA	1.1	0.37	16.5	33.3
METRE		2-6	4E	CY	60	NA	19.0	15.0	21.0	NA	NA	NA	0.9	0.31	13.9	31.0
METRE		6-9	4E	CY	64	NA	NA	NA	24.0	NA	13.0	NA	1.0	0.33	14.7	21.7
METRE		6-9	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1	
MIDWAY		2-15	6S	SW	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2	
MIDWAY		2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1	
MIDWAY		15-40	7S	SW	60	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8	
MIDWAY		15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3	
MILLBORO		0-2	3S	CY	63	38.0	40.0	NA	52.0	NA	51.0	NA	2.0	0.46	20.6	58.5
MILLBORO		2-6	3E	CY	63	36.0	37.0	NA	50.0	NA	48.0	NA	1.9	0.38	17.0	55.1
MILLBORO		6-9	4E	CY	63	31.0	32.0	NA	43.0	NA	39.0	NA	1.6	0.35	15.6	46.8
MILLBORO		9-15	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	1.5	0.33	14.7	34.6
MINATARE		0-2	6S	TCP	60	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5	
MINATARE		0-2	6S	TCP	63	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8	
MINATARE		0-2	6S	TCP	64	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7	
MINNEQUA		0-2	4E	TU	60	NA	23.0	NA	22.0	NA	NA	NA	0.9	0.28	12.5	32.0
MINNEQUA		0-2	4E	TU	61	NA	24.0	NA	25.0	NA	NA	NA	1.1	0.30	13.4	35.3

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR 8	WHEAT (BU/A) SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
MINNEQUA	2-6	4E	TU	60	NA	21.0	NA	20.0	NA	NA	NA	0.8	0.28	12.5	29.0
MINNEQUA	2-6	4E	TU	61	NA	22.0	NA	23.0	NA	NA	NA	1.0	0.27	12.1	32.4
MINNEQUA	6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
MINNEQUA	6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
MIRANDA	0-2	6S	TCP	53	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
MIRANDA	0-2	6S	TCP	55	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
MIRANDA	0-2	6S	TCP	102	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
MITCHELL	0-2	3E	TU	63	33.0	24.0	NA	39.0	NA	35.0	NA	1.8	0.33	14.7	42.8
MITCHELL	0-2	3E	TU	64	28.0	23.0	NA	33.0	NA	NA	NA	1.7	0.31	13.9	39.0
MITCHELL	0-2	4E	TU	60	26.0	23.0	NA	32.0	NA	NA	NA	1.5	0.28	12.5	37.1
MODALE	0-2	1	SI	102	92.0	NA	NA	80.0	NA	80.0	29.0	4.2	0.68	30.4	90.2
MONDAMIN	0-2	2S	CY	53	38.0	NA	25.0	57.0	17.0	NA	NA	2.0	0.52	23.2	54.5
MONDAMIN	2-6	3E	CY	53	37.0	NA	23.0	54.0	16.0	NA	NA	1.9	0.50	22.3	51.4
MONDAMIN	6-9	4E	CY	53	32.0	NA	17.0	48.0	NA	NA	NA	1.7	0.48	21.4	42.3
MOODY	0-2	1	SI	102	87.0	NA	NA	80.0	23.0	76.0	37.0	4.0	0.68	30.4	89.5
MOODY	2-6	2E	SI	102	81.0	NA	NA	77.0	21.0	74.0	33.0	3.9	0.63	28.2	84.3
MOODY	6-9	3E	SI	102	71.0	NA	NA	67.0	17.0	66.0	24.0	3.6	0.61	27.3	71.8
MOODY	9-15	4E	SI	102	54.0	NA	NA	52.0	NA	NA	NA	3.0	0.57	25.5	61.3
MOODY	E 2-6	3E	SI	102	71.0	NA	NA	52.0	18.0	73.0	28.0	3.3	0.61	27.3	71.5
MOODY	E 6-9	4E	SI	102	61.0	NA	NA	49.0	NA	60.0	22.0	3.0	0.57	25.5	63.0
MOODY	E 9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	NA	0.54	24.1	24.1
MOREAU	0-2	3S	CY	58	NA	NA	21.0	36.0	NA	NA	NA	1.4	0.31	13.9	41.8
MOREAU	2-6	3E	CY	54	NA	NA	24.0	40.0	NA	NA	NA	1.4	0.33	14.7	45.8
MOREAU	2-6	4E	CY	58	NA	NA	20.0	35.0	NA	NA	NA	1.3	0.29	13.0	39.8
MOREAU	6-9	4E	CY	54	NA	NA	20.0	37.0	NA	NA	NA	1.2	0.31	13.9	39.8
MOREAU	6-25	6E	CY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
MOREAU	9-25	6E	CY	54	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
MOREAU	25-40	7E	CY	54	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
MOREAU	25-40	7E	CY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
MORTON	0-2	2C	SI	54	34.0	32.0	28.0	48.0	NA	NA	NA	1.7	0.38	17.0	54.0
MORTON	2-6	2E	SI	54	32.0	30.0	26.0	46.0	NA	NA	NA	1.7	0.35	15.6	51.3
MORTON	6-9	3E	SI	54	NA	28.0	23.0	39.0	NA	NA	NA	1.5	0.35	15.6	49.5
MORTON	9-15	4E	SI	54	NA	21.0	20.0	32.0	NA	NA	NA	1.3	0.31	13.9	40.6
MOSHER	0-2	4S	CP	53	17.0	25.0	15.0	32.0	NA	24.0	NA	1.2	0.33	14.7	33.8
MOSHER	0-2	4S	CP	60	NA	17.0	NA	20.0	NA	NA	NA	1.1	0.19	8.5	28.4
MOSHER	0-2	4S	CP	61	30.0	21.0	NA	30.0	NA	NA	NA	1.3	0.31	13.9	35.3
MOSHER	0-2	4S	CP	63	NA	21.0	NA	30.0	NA	22.0	NA	1.3	0.31	13.9	33.9
MOSHER	0-2	4S	CP	64	NA	22.0	NA	28.0	NA	19.0	NA	1.2	0.30	13.4	32.4
MOSHER	2-6	4S	CP	63	NA	18.0	NA	27.0	NA	NA	NA	1.1	0.28	12.5	31.7
MOSHER	2-6	4S	CP	64	NA	20.0	NA	27.0	NA	NA	NA	1.0	0.28	12.5	32.4

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE 1. RANGES DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17		
MOSHER	2-6	6S	CP	60	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5		
MOSHER	2-6	6S	CP	61	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9		
MOSHER	6-9	6E	CP	60	NA	NA	NA	NA	NA	NA	NA	0.16	7.1	7.1		
MOSHER	6-9	6E	CP	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2		
MOSHER	6-9	6E	CP	64	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7		
MUNJOR	0-2	3E	OV	53	38.0	38.0	NA	48.0	NA	38.0	NA	1.8	0.89	39.8	52.7	
MUNJOR	0-2	3E	OV	55	45.0	40.0	NA	52.0	NA	47.0	NA	2.4	0.97	43.3	60.9	
MUNJOR	0-2	3E	OV	63	36.0	36.0	NA	47.0	NA	34.0	NA	1.7	0.81	36.2	49.8	
MURDO	0-6	4S	SWG	63	17.0	18.0	NA	21.0	NA	NA	NA	0.7	0.25	11.2	24.3	
MURDO	0-6	4S	SWG	64	NA	18.0	NA	22.0	NA	NA	NA	0.7	0.32	14.3	26.7	
MURDO	0-9	6S	SWG	60	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8		
MURDO	6-25	6S	SWG	63	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3		
MURDO	6-25	6S	SWG	64	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4		
MURDO	9-40	7S	SWG	60	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5		
MURDO	25-40	7S	SWG	63	NA	NA	NA	NA	NA	NA	NA	0.20	8.9	8.9		
MURDO	25-40	7S	SWG	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5		
NAHON	0-2	4S	CP	55	28.0	NA	16.0	32.0	NA	NA	NA	1.4	0.33	14.7	34.5	
NAHON	0-2	4S	CP	102	36.0	NA	NA	41.0	14.0	NA	NA	1.8	0.48	21.4	43.5	
NAPA	0-2	6W	SL	102	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7		
NEVEE	2-6	4E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3		
NEVEE	6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1		
NIOBELL	0-2	3S	CY	53	31.0	NA	24.0	54.0	15.0	NA	NA	1.7	0.46	20.6	49.1	
NIOBELL	0-2	3S	CY	55	37.0	NA	27.0	53.0	NA	NA	NA	1.9	0.50	22.3	52.5	
NIOBELL	2-6	3E	CY	53	30.0	NA	22.0	52.0	14.0	NA	NA	1.6	0.46	20.6	46.2	
NIOBELL	2-6	3E	CY	55	32.0	NA	24.0	52.0	NA	NA	NA	1.8	0.50	22.3	48.5	
NISHON	0-2	4W	CD	53	NA	NA	NA	NA	NA	NA	NA	0.86	38.4	38.4		
NOONAN	0-2	4S	CP	53	NA	NA	15.0	29.0	NA	NA	NA	1.2	0.28	12.5	32.6	
NOONAN	0-2	4S	CP	55	NA	NA	16.0	30.0	NA	NA	NA	1.3	0.31	13.9	34.6	
NOONAN	2-6	4S	CP	53	NA	NA	14.0	27.0	NA	NA	NA	1.1	0.28	12.5	30.3	
NOONAN	2-6	4S	CP	55	NA	NA	NA	28.0	NA	NA	NA	1.2	0.27	12.1	29.3	
NORA	0-2	1	SI	102	70.0	NA	NA	67.0	21.0	NA	28.0	3.5	0.68	30.4	74.7	
NORA	2-6	2E	SI	102	67.0	NA	NA	62.0	19.0	65.0	27.0	3.4	0.63	28.2	71.7	
NORA	6-9	3E	SI	102	58.0	NA	NA	52.0	18.0	56.0	26.0	3.1	0.61	27.3	64.3	
NORA	9-15	4E	SI	102	42.0	NA	NA	40.0	NA	46.0	NA	2.7	0.53	23.7	51.3	
NORA	15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2		
NORA	E 2-6	3E	SI	102	61.0	NA	NA	54.0	18.0	57.0	26.0	3.2	0.61	27.3	65.8	
NORA	E 6-9	4E	SI	102	49.0	NA	NA	48.0	NA	49.0	22.0	2.8	0.53	23.7	56.7	
NORA	E 9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2		
NORREST	0-2	3S	CY	64	26.0	29.0	NA	35.0	NA	26.0	NA	1.5	0.33	14.7	39.1	
NORREST	0-2	4S	CY	60	NA	23.0	NA	24.0	NA	NA	NA	1.1	0.31	13.9	34.2	

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
NORREST		2-6	3E	CY	64	24.0	28.0	NA	33.0	NA	25.0	NA	1.4	0.33	14.7	37.1
NORREST		2-6	4E	CY	60	NA	21.0	NA	23.0	NA	NA	NA	1.0	0.29	13.0	31.6
NORREST		6-9	4E	CY	64	20.0	24.0	NA	31.0	NA	18.0	NA	1.2	0.28	12.5	31.5
NORREST		6-25	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
NORREST		9-15	4E	CY	64	NA	NA	NA	NA	NA	13.0	NA	1.0	0.25	11.2	19.2
NORREST		15-25	6E	CY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
NORREST		25-40	7E	CY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.20	8.9	8.9
NUTLEY		0-2	2S	CY	55	53.0	NA	27.0	66.0	17.0	NA	NA	2.8	0.54	24.1	64.4
NUTLEY		0-2	2S	CY	102	71.0	NA	NA	76.0	22.0	NA	23.0	2.9	0.68	30.4	72.3
NUTLEY		2-6	3E	CY	55	50.0	NA	24.0	64.0	15.0	NA	NA	2.8	0.50	22.3	60.4
NUTLEY		2-6	3E	CY	102	68.0	NA	NA	74.0	18.0	NA	21.0	2.8	0.64	28.6	67.0
NUTLEY		6-9	3E	CY	102	57.0	NA	NA	67.0	NA	NA	20.0	2.7	0.61	27.3	61.9
NUTLEY		6-9	4E	CY	55	46.0	NA	22.0	59.0	NA	NA	NA	2.7	0.48	21.4	58.0
NUTLEY		9-15	4E	CY	102	51.0	NA	NA	57.0	NA	NA	NA	2.5	0.59	26.4	58.2
NUTLEY		9-15	6E	CY	55	38.0	NA	19.0	48.0	NA	NA	NA	2.4	0.43	19.2	49.2
O NEILL		0-2	3E	SY	66	33.0	32.0	NA	41.0	NA	NA	NA	1.5	0.46	20.6	46.4
O NEILL		2-6	3E	SY	66	30.0	30.0	NA	37.0	NA	NA	NA	1.4	0.43	19.2	42.8
OAHE		0-2	3S	SI	53	30.0	NA	21.0	44.0	12.0	31.0	NA	1.2	0.47	21.0	40.0
OAHE		0-2	3S	SI	63	29.0	29.0	20.0	41.0	NA	27.0	NA	1.1	0.39	17.4	41.4
OAHE		2-6	3E	SI	53	28.0	NA	19.0	41.0	11.0	29.0	NA	1.1	0.43	19.2	36.9
OAHE		2-6	3E	SI	63	28.0	25.0	17.0	38.0	NA	25.0	NA	1.0	0.36	16.1	37.1
OAHE		6-9	4E	SI	53	24.0	NA	14.0	33.0	NA	20.0	NA	0.9	0.39	17.4	28.4
OAHE		6-9	4E	SI	63	23.0	21.0	14.0	31.0	NA	19.0	NA	0.9	0.33	14.7	30.6
OAHE		9-15	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
OAK LAKE		0-2	1	SI	102	82.0	NA	NA	92.0	24.0	NA	28.0	3.2	0.68	30.4	83.5
OAK LAKE		2-6	2E	SI	102	78.0	NA	NA	75.0	20.0	NA	26.0	3.0	0.68	30.4	74.2
OBURN		0-2	4S	CP	58	NA	18.0	12.0	28.0	NA	NA	NA	0.8	0.19	8.5	29.9
OBURN		2-9	6S	CP	58	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
OGALALA		2-6	2E	SI	64	28.0	37.0	NA	41.0	NA	NA	NA	1.5	0.37	16.5	47.8
OGALALA		2-6	3E	SI	60	19.0	29.0	NA	29.0	NA	NA	NA	1.3	0.32	14.3	36.6
OGALALA		6-9	3E	SI	64	21.0	32.0	NA	37.0	NA	NA	NA	1.3	0.35	15.6	41.0
OGALALA		6-9	4E	SI	60	NA	NA	NA	26.0	NA	NA	NA	1.1	0.29	13.0	27.1
OGALALA		9-15	4E	SI	64	NA	NA	NA	33.0	NA	NA	NA	1.1	0.33	14.7	30.9
OGALALA		9-25	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
OGALALA		15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
OKO		0-2	3S	CY	53	24.0	NA	20.0	50.0	15.0	44.0	NA	1.8	0.50	22.3	46.3
OKO		0-2	3S	CY	55	32.0	NA	22.0	51.0	15.0	NA	NA	1.9	0.54	24.1	48.5
OKO		2-6	3E	CY	53	23.0	NA	19.0	49.0	14.0	41.0	NA	1.6	0.47	21.0	43.5
OKO		2-6	3E	CY	55	31.0	NA	21.0	49.0	15.0	NA	NA	1.8	0.54	24.1	46.9
OKO		6-9	4E	CY	53	NA	NA	17.0	43.0	13.0	34.0	NA	1.4	0.45	20.1	41.8

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE A-1 RAINFALL DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR THE DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
OKO		6-9	4E	CY	55	NA	NA	17.0	40.0	13.0	NA	NA	1.6	0.51	22.8	42.5
OKO		9-15	6E	CY	53	NA	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
OKO		9-15	6E	CY	55	NA	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
OKREEK		0-2	3S	CY	63	44.0	36.0	NA	53.0	NA	37.0	NA	2.1	0.40	17.9	55.4
OKREEK		0-2	3S	CY	64	39.0	35.0	NA	48.0	NA	35.0	NA	1.8	0.32	14.3	50.9
OKREEK		0-2	3S	CY	66	40.0	36.0	NA	49.0	NA	36.0	NA	1.8	0.40	17.9	52.0
OKREEK		2-6	3E	CY	63	41.0	34.0	NA	51.0	NA	34.0	NA	2.0	0.40	17.9	52.2
OKREEK		2-6	3E	CY	64	37.0	32.0	NA	46.0	NA	33.0	NA	1.7	0.32	14.3	47.8
OKREEK		2-6	3E	CY	66	38.0	33.0	NA	47.0	NA	34.0	NA	1.7	0.40	17.9	48.9
OKREEK		6-9	4E	CY	63	NA	32.0	NA	44.0	NA	27.0	NA	1.8	0.37	16.5	48.2
OKREEK		6-9	4E	CY	64	NA	29.0	NA	41.0	NA	26.0	NA	1.6	0.30	13.4	44.3
OKREEK		6-9	4E	CY	66	NA	30.0	NA	42.0	NA	27.0	NA	1.6	0.38	17.0	45.4
OKREEK		9-15	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
OKREEK		9-15	6E	CY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
OKREEK		9-15	6E	CY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
OLDHAM	DF	0-2	2W	OV	102	54.0	NA	NA	69.0	15.0	NA	NA	2.8	1.13	50.5	62.7
OLDHAM	DNF	0-2	4W	OV	55	NA	NA	NA	NA	NA	NA	NA	NA	0.94	42.0	42.0
OLDHAM	DNF	0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.13	50.5	50.5
OMADI		0-2	I	SI	102	90.0	NA	NA	84.0	NA	86.0	31.0	4.0	0.68	30.4	92.2
ONAWA	DF	0-2	2W	OV	102	75.0	NA	NA	57.0	NA	65.0	28.0	3.6	1.33	59.4	74.7
ONAWA	DNF	0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.33	59.4	59.4
ONITA		0-2	2C	OV	53	50.0	NA	29.0	63.0	19.0	63.0	NA	2.8	0.97	43.3	67.0
ONITA		0-2	2C	OV	55	57.0	NA	29.0	70.0	19.0	67.0	NA	2.9	0.94	42.0	70.7
ONITA		0-2	2C	OV	63	46.0	42.0	NA	60.0	NA	58.0	NA	2.5	0.85	38.0	66.8
ONITA		2-6	2E	SI	53	45.0	NA	26.0	58.0	18.0	60.0	NA	2.6	0.54	24.1	62.0
ONITA		2-6	2E	SI	55	46.0	NA	26.0	65.0	18.0	64.0	NA	2.7	0.57	25.5	64.6
ONITA		2-6	2E	SI	63	40.0	38.0	NA	55.0	NA	55.0	NA	2.2	0.43	19.2	60.6
OPAL		0-2	3S	CY	63	26.0	35.0	22.0	44.0	NA	35.0	NA	1.4	0.42	18.8	47.2
OPAL		2-6	3E	CY	63	25.0	31.0	21.0	41.0	NA	33.0	NA	1.4	0.38	17.0	44.2
OPAL		6-9	4E	CY	63	21.0	26.0	17.0	33.0	NA	24.0	NA	1.3	0.35	15.6	36.3
OPAL		9-25	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
OPAL		25-40	7E	CY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
ORELLA		0-15	6S	DC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
ORELLA		0-15	6S	DC	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
ORELLA		15-40	7S	DC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
ORELLA		15-40	7S	DC	64	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
ORTON		0-2	3E	SY	53	22.0	NA	19.0	36.0	NA	26.0	NA	1.1	0.47	21.0	33.5
ORTON		2-6	3E	SY	53	NA	NA	15.0	33.0	NA	22.0	NA	1.0	0.45	20.1	30.9
ORTON		6-9	4E	SY	53	NA	NA	NA	NA	NA	15.0	NA	1.0	0.43	19.2	20.4
ORTON		9-15	6E	SY	53	NA	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
ORWET		0-2	4W	SB	65	NA	NA NA	NA	NA	NA	NA	NA	1.31	58.5	58.5
PAKA		0-2	2C	SI	65	34.0	NA NA	46.0	NA	NA	NA	1.4	0.37	16.5	39.7
PAKA		0-2	2C	SI	66	44.0	40.0 NA	52.0	NA	55.0	NA	2.0	0.45	20.1	60.7
PAKA		2-6	2E	SI	65	32.0	NA NA	43.0	NA	NA	NA	1.3	0.33	14.7	37.1
PAKA		2-6	2E	SI	66	42.0	38.0 NA	50.0	NA	53.0	NA	1.8	0.43	19.2	57.6
PAKA		6-9	3E	SI	65	26.0	NA NA	36.0	NA	NA	NA	1.1	0.31	13.9	30.9
PAKA		6-9	3E	SI	66	38.0	34.0 NA	45.0	NA	47.0	NA	1.6	0.41	18.3	51.5
PAKA		9-15	4E	SI	65	NA	NA NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
PAKA		9-15	4E	SI	66	NA	NA NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
PARNELL	DF	0-2	3W	WL	53	53.0	NA NA	55.0	16.0	NA	NA	2.8	0.80	35.7	59.4
PARNELL	DF	0-2	3W	WL	55	51.0	NA NA	61.0	16.0	NA	NA	2.9	0.85	38.0	61.1
PARNELL	DF	0-2	3W	WL	102	62.0	NA NA	67.0	16.0	NA	NA	2.8	1.00	44.7	65.1
PARNELL	DNF	0-2	5W	WL	53	NA	NA NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
PARNELL	DNF	0-2	5W	WL	55	NA	NA NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
PARNELL	DNF	0-2	5W	WL	102	NA	NA NA	NA	NA	NA	NA	NA	1.00	44.7	44.7
PARSHALL		0-2	3E	SY	54	35.0	31.0 23.0	42.0	NA	NA	NA	1.9	0.38	17.0	50.8
PARSHALL		0-2	4E	SY	58	NA	23.0 19.0	33.0	NA	NA	NA	1.6	0.30	13.4	43.1
PARSHALL		2-6	3E	SY	54	33.0	28.0 21.0	39.0	NA	NA	NA	1.8	0.35	15.6	47.0
PARSHALL		2-6	4E	SY	58	NA	21.0 15.0	31.0	NA	NA	NA	1.5	0.27	12.1	38.3
PARSHALL		6-9	4E	SY	54	NA	NA NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
PEEVER		0-2	2S	CY	55	55.0	NA 33.0	63.0	17.0	NA	NA	2.6	0.56	25.0	66.3
PEEVER		0-2	2S	CY	102	64.0	NA NA	71.0	19.0	NA	22.0	2.8	0.68	30.4	66.7
PEEVER		2-6	3E	CY	55	53.0	NA 31.0	61.0	16.0	NA	NA	2.5	0.56	25.0	63.2
PEEVER		2-6	3E	CY	102	63.0	NA NA	68.0	17.0	NA	20.0	2.7	0.65	29.0	62.9
PEEVER		6-9	3E	CY	102	54.0	NA NA	58.0	NA	NA	NA	2.4	0.62	27.7	58.9
PEEVER		6-9	4E	CY	55	43.0	NA 26.0	51.0	NA	NA	NA	2.2	0.52	23.2	54.7
PENO		2-6	3E	CY	53	29.0	NA 17.0	39.0	14.0	29.0	NA	1.6	0.50	22.3	39.5
PENO		2-6	3E	CY	55	37.0	NA 19.0	44.0	14.0	NA	NA	2.0	0.54	24.1	46.3
PENO		6-9	4E	CY	53	28.0	NA 16.0	37.0	NA	24.0	NA	1.5	0.47	21.0	34.8
PENO		6-9	4E	CY	55	34.0	NA 17.0	39.0	NA	NA	NA	1.8	0.54	24.1	41.0
PENO		6-25	6E	CY	53	NA	NA NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
PENO		9-25	6E	CY	55	NA	NA NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
PENROSE		0-15	6S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
PENROSE		0-15	6S	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
PENROSE		15-40	7S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
PENROSE		15-40	7S	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
PERCIVAL		0-2	2W	CY	102	70.0	NA NA	58.0	NA	65.0	28.0	3.1	0.68	30.4	71.5
PIERRE		0-2	3S	CY	63	23.0	26.0 21.0	31.0	NA	26.0	NA	1.3	0.44	19.7	38.4
PIERRE		0-2	4S	CY	60	17.0	21.0 18.0	24.0	NA	NA	NA	1.1	0.34	15.2	32.4
PIERRE		0-2	4S	CY	61	NA	25.0 21.0	30.0	NA	NA	NA	1.3	0.35	15.6	42.9

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
PIERRE	2-6	3E	CY	63	21.0	24.0	20.0	29.0	NA	24.0	NA	1.2	0.40	35.7
PIERRE	2-6	4E	CY	60	17.0	19.0	15.0	22.0	NA	NA	NA	0.9	0.31	28.6
PIERRE	2-6	4E	CY	61	NA	23.0	19.0	29.0	NA	NA	NA	1.2	0.31	39.7
PIERRE	6-9	4E	CY	63	18.0	20.0	16.0	24.0	NA	20.0	NA	1.1	0.37	29.9
PIERRE	6-25	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
PIERRE	6-25	6E	CY	61	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
PIERRE	9-25	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
PIERRE	25-40	7E	CY	60	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
PIERRE	25-40	7E	CY	61	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
PIERRE	25-40	7E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
PLAYMOOR	0-2	4W	SB	55	NA	NA	NA	45.0	NA	NA	NA	2.6	1.25	54.9
PLAYMOOR	0-2	4W	SB	102	40.0	NA	NA	47.0	NA	NA	NA	2.6	1.31	51.4
POINSETT	0-2	1	SI	102	75.0	NA	NA	84.0	21.0	NA	27.0	3.0	0.59	76.7
POINSETT	0-2	2C	SI	55	63.0	NA	28.0	70.0	17.0	NA	NA	2.8	0.54	67.9
POINSETT	2-6	2E	SI	55	60.0	NA	27.0	65.0	16.0	NA	NA	2.7	0.52	64.5
POINSETT	2-6	2E	SI	102	71.0	NA	NA	82.0	19.0	NA	24.0	2.9	0.59	72.1
POINSETT	6-9	3E	SI	55	NA	NA	NA	NA	NA	NA	NA	2.5	0.50	57.7
POINSETT	6-9	3E	SI	102	62.0	NA	NA	77.0	17.0	NA	19.0	2.7	0.55	64.2
POINSETT	9-15	4E	SI	102	50.0	NA	NA	56.0	13.0	NA	19.0	2.4	0.51	52.8
POINSETT	15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
PROMISE	0-2	3S	CY	63	28.0	36.0	24.0	50.0	NA	44.0	NA	1.5	0.42	52.0
PROMISE	2-6	3E	CY	63	26.0	34.0	23.0	48.0	NA	42.0	NA	1.5	0.38	49.7
PROMISE	6-9	4E	CY	63	23.0	29.0	21.0	40.0	NA	33.0	NA	1.3	0.35	42.5
PROMISE	9-15	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
PROSPER	0-2	1	OV	102	77.0	NA	NA	84.0	25.0	67.0	30.0	3.5	1.33	83.0
PROSPER	0-2	2C	OV	55	68.0	NA	36.0	71.0	18.0	67.0	NA	3.0	1.09	75.6
PROSPER	2-6	2E	SI	55	64.0	NA	32.0	66.0	17.0	63.0	NA	2.8	0.54	70.1
PROSPER	2-6	2E	SI	102	76.0	NA	NA	80.0	23.0	64.0	29.0	3.3	0.68	79.2
RABER	0-2	2C	CY	53	33.0	NA	24.0	49.0	15.0	48.0	NA	2.0	0.52	50.9
RABER	2-6	2E	CY	53	32.0	NA	23.0	48.0	12.0	44.0	NA	2.0	0.48	47.6
RABER	6-9	3E	CY	53	30.0	NA	21.0	44.0	NA	39.0	NA	1.8	0.46	44.3
RABER	9-15	4E	CY	53	NA	NA	17.0	38.0	NA	NA	NA	1.5	0.43	39.9
RABER	15-25	6E	CY	53	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
RALPH	0-2	3C	SI	58	NA	32.0	23.0	39.0	NA	NA	NA	1.4	0.32	51.1
RALPH	2-6	3E	SI	58	NA	29.0	22.0	35.0	NA	NA	NA	1.3	0.29	47.2
RALPH	6-9	4E	SI	58	NA	24.0	18.0	32.0	NA	NA	NA	1.1	0.25	39.9
RANSLO	DF 0-2	3W	SB	53	31.0	NA	19.0	46.0	12.0	NA	NA	2.2	1.00	45.0
RANSLO	DNF 0-2	5W	SB	53	NA	NA	NA	NA	NA	NA	NA	1.00	44.7	44.7
RAUVILLE	0-2	5W	WL	53	NA	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
RAUVILLE	0-2	5W	WL	55	NA	NA	NA	NA	NA	NA	NA	0.95	42.4	42.4

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
RAUVILLE		0-2	5W	WL	102	NA	NA	NA	NA	NA	NA	NA	NA	1.00	44.7	44.7
RAZOR		0-2	3S	CY	60	NA	22.0	14.0	22.0	NA	NA	NA	1.0	0.31	13.9	32.9
RAZOR		0-2	3S	CY	61	NA	28.0	19.0	28.0	NA	NA	NA	1.1	0.37	16.5	41.6
RAZOR		2-6	4E	CY	60	NA	19.0	13.0	21.0	NA	NA	NA	0.9	0.29	13.0	29.7
RAZOR		2-6	4E	CY	61	NA	25.0	17.0	25.0	NA	NA	NA	1.0	0.35	15.6	37.3
RAZOR		6-9	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
RAZOR		6-9	6E	CY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
REDIG		6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
REDIG		6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
REDSTOE		0-2	3S	TU	55	24.0	NA	NA	50.0	NA	20.0	NA	1.7	0.42	18.8	35.9
REDSTOE		0-6	3E	TU	102	44.0	NA	NA	54.0	15.0	NA	NA	1.9	0.55	24.6	50.7
REDSTOE		2-6	3E	TU	55	21.0	NA	NA	46.0	NA	19.0	NA	1.6	0.42	18.8	33.1
REDSTOE		6-9	4E	TU	55	NA	NA	NA	42.0	NA	15.0	NA	1.4	0.40	17.9	32.2
REDSTOE		6-9	4E	TU	102	32.0	NA	NA	45.0	NA	NA	NA	1.6	0.51	22.8	40.2
REDSTOE		9-15	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
REDSTOE		9-15	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
REE		0-2	2C	SI	53	39.0	35.0	25.0	57.0	NA	48.0	NA	1.9	0.52	23.2	57.6
REE		0-2	2C	SI	55	48.0	38.0	26.0	61.0	NA	54.0	NA	1.9	0.55	24.6	62.6
REE		0-2	2C	SI	63	36.0	35.0	NA	51.0	NA	44.0	NA	1.6	0.45	20.1	52.1
REE		2-6	2E	SI	53	36.0	33.0	23.0	55.0	NA	45.0	NA	1.8	0.52	23.2	54.2
REE		2-6	2E	SI	55	47.0	36.0	NA	55.0	NA	52.0	NA	1.8	0.51	22.8	58.6
REE		2-6	2E	SI	63	33.0	33.0	NA	49.0	NA	41.0	NA	1.5	0.42	18.8	49.0
REE		6-9	3E	SI	53	NA	NA	NA	40.0	NA	39.0	NA	1.5	0.43	19.2	41.6
REE		6-9	3E	SI	63	30.0	29.0	NA	44.0	NA	36.0	NA	1.5	0.40	17.9	44.3
REEDER		0-2	2C	SI	54	34.0	NA	28.0	46.0	NA	NA	NA	1.7	0.33	14.7	49.3
REEDER		2-6	2E	SI	54	33.0	NA	26.0	45.0	NA	NA	NA	1.6	0.33	14.7	46.9
REEDER		6-9	3E	SI	54	NA	NA	22.0	40.0	NA	NA	NA	1.5	0.31	13.9	44.9
REEDER		9-15	4E	SI	54	NA	NA	NA	NA	NA	NA	NA	1.2	0.29	13.0	27.7
REGAN		0-2	5W	WL	53	NA	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
REGAN		0-2	5W	WL	54	NA	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
REGENT		0-2	2C	CY	54	32.0	30.0	28.0	43.0	NA	NA	NA	1.6	0.33	14.7	51.1
REGENT		2-6	2E	CY	54	30.0	29.0	26.0	41.0	NA	NA	NA	1.5	0.30	13.4	48.4
REGENT		6-9	3E	CY	54	25.0	25.0	22.0	35.0	NA	NA	NA	1.4	0.27	12.1	41.7
REGENT		9-15	4E	CY	54	NA	NA	NA	32.0	NA	NA	NA	1.1	0.24	10.7	30.4
RELANCE		0-2	2C	SI	63	46.0	39.0	NA	50.0	NA	53.0	NA	2.4	0.41	18.3	61.6
RELANCE		2-6	2E	SI	63	43.0	37.0	NA	48.0	NA	51.0	NA	2.3	0.38	17.0	58.7
RELANCE		6-9	3E	SI	63	40.0	34.0	NA	43.0	NA	49.0	NA	2.0	0.36	16.1	53.8
RELANCE		9-15	4E	SI	63	NA	NA	NA	38.0	NA	34.0	NA	1.7	0.32	14.3	40.5
RENNER		0-2	1	SI	102	77.0	NA	NA	84.0	NA	NA	30.0	3.5	0.66	29.5	82.8
RENNER		2-6	2E	SI	102	76.0	NA	NA	80.0	NA	NA	29.0	3.3	0.63	28.2	79.7

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RENNER		6-9	3E	SI	102	NA	NA	NA	NA	NA	NA	NA	3.0	0.61	27.3	69.3
RENNER		9-15	4E	SI	102	NA	NA	NA	NA	NA	NA	NA	2.7	0.59	26.4	62.4
RENNER		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6
RENSHAW		0-2	3S	SWG	102	32.0	NA	NA	34.0	12.0	NA	NA	1.1	0.56	25.0	34.7
RENSHAW		0-2	4S	SWG	55	23.0	NA	13.0	29.0	11.0	NA	NA	0.9	0.33	14.7	29.7
RENSHAW		2-6	4E	SWG	55	18.0	NA	12.0	26.0	10.0	NA	NA	0.8	0.33	14.7	26.4
RENSHAW		2-6	4S	SWG	102	27.0	NA	NA	32.0	11.0	NA	NA	1.0	0.56	25.0	31.4
RENSHAW		6-9	4E	SWG	102	21.0	NA	NA	31.0	10.0	NA	NA	1.0	0.54	24.1	28.7
RENSHAW		6-25	6E	SWG	55	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
RENSHAW		9-25	6E	SWG	102	NA	NA	NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
RENTILL		0-2	2S	SI	102	54.0	NA	NA	62.0	15.0	NA	NA	2.0	0.61	27.3	56.1
RENTILL		2-6	3S	SI	102	52.0	NA	NA	56.0	13.0	NA	NA	1.8	0.59	26.4	51.0
RHAME		0-2	4E	SY	58	NA	29.0	19.0	28.0	NA	NA	NA	1.2	0.34	15.2	42.7
RHAME		2-6	4E	SY	58	NA	NA	18.0	25.0	NA	NA	NA	1.1	0.30	13.4	32.9
RHAME		6-25	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
RHOADES		0-6	6S	TCP	54	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
RHOADES		6-15	7E	TCP	54	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
RICHFIELD		0-2	2C	SI	64	36.0	43.0	NA	47.0	NA	46.0	NA	1.7	0.40	17.9	55.7
RICHFIELD		0-2	3C	SI	60	25.0	32.0	NA	33.0	NA	NA	NA	1.4	0.34	15.2	41.5
RICHFIELD		0-2	3C	SI	61	NA	33.0	NA	34.0	NA	NA	NA	1.5	0.35	15.6	48.4
RICHFIELD		2-6	2E	SI	64	32.0	41.0	NA	43.0	NA	44.0	NA	1.6	0.40	17.9	52.2
RICHFIELD		2-6	3E	SI	60	23.0	30.0	NA	31.0	NA	NA	NA	1.3	0.31	13.9	38.7
RICHFIELD		2-6	3E	SI	61	NA	30.0	NA	31.0	NA	NA	NA	1.4	0.31	13.9	44.3
RICHFIELD		6-9	3E	SI	64	25.0	35.0	NA	38.0	NA	36.0	NA	1.4	0.37	16.5	44.1
RICHFIELD		6-9	4E	SI	60	19.0	25.0	NA	26.0	NA	NA	NA	1.2	0.29	13.0	32.9
RICHFIELD		6-9	4E	SI	61	NA	26.0	NA	28.0	NA	NA	NA	1.3	0.29	13.0	39.5
RICHFIELD		9-15	4E	SI	64	NA	28.0	NA	29.0	NA	29.0	NA	1.2	0.35	15.6	39.0
RICHFIELD		9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
RICHFIELD		9-15	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
RICHFIELD		15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
RIDGEVIEW		0-2	3S	CY	54	26.0	26.0	25.0	43.0	NA	NA	NA	1.4	0.37	16.5	45.7
RIDGEVIEW		2-6	3E	CY	54	24.0	25.0	24.0	42.0	NA	NA	NA	1.3	0.33	14.7	43.6
RIDGEVIEW		6-9	4E	CY	54	20.0	NA	20.0	36.0	NA	NA	NA	1.1	0.31	13.9	34.3
RONSON		0-2	3E	SY	66	15.0	NA	NA	28.0	NA	NA	NA	0.8	0.46	20.6	21.8
RONSON		2-6	3E	SY	66	13.0	NA	NA	24.0	NA	NA	NA	0.7	0.43	19.2	18.8
RONSON		6-9	4E	SY	66	NA	NA	NA	19.0	NA	NA	NA	0.6	0.41	18.3	17.4
ROSEBUD		0-2	2C	SI	64	33.0	40.0	NA	44.0	NA	28.0	NA	1.4	0.40	17.9	47.5
ROSEBUD		0-2	3C	SI	60	NA	30.0	NA	30.0	NA	NA	NA	1.2	0.34	15.2	42.4
ROSEBUD		2-6	2E	SI	64	30.0	36.0	NA	39.0	NA	27.0	NA	1.3	0.37	16.5	43.3
ROSEBUD		2-6	3E	SI	60	NA	29.0	NA	29.0	NA	NA	NA	1.1	0.31	13.9	40.5

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE A-1 RANGES DEVELOPED FROM CORN AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17	
ROSEBUD		6-9	3E	SI	64	25.0	32.0	NA	34.0	NA	21.0	NA	1.1	0.35	15.6	37.0
ROSEBUD		6-9	4E	SI	60	NA	NA	NA	26.0	NA	NA	NA	1.0	0.29	13.0	25.9
ROSEBUD		9-15	4E	SI	64	NA	25.0	NA	32.0	NA	16.0	NA	1.0	0.33	14.7	33.1
ROSEBUD		9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
ROSEBUD		15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
SALIX		0-2	1	SI	102	90.0	NA	NA	83.0	NA	80.0	36.0	4.3	0.72	32.2	94.5
SALMO		0-2	4W	SB	55	NA	NA	NA	45.0	NA	NA	NA	2.4	1.15	51.4	52.6
SALMO		0-2	4W	SB	102	40.0	NA	NA	47.0	NA	NA	NA	2.6	1.25	55.9	51.4
SAMSIL		2-15	6S	SW	60	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SAMSIL		2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
SAMSIL		2-15	6S	SW	63	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
SAMSIL		15-40	7S	SW	60	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
SAMSIL		15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
SAMSIL		15-40	7S	SW	63	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SANSARC		2-15	6S	SW	63	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
SANSARC		15-40	7S	SW	63	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SARPY		0-2	4E	SB	63	46.0	NA	NA	NA	NA	NA	NA	2.6	1.35	60.3	54.4
SARPY		0-2	4S	SB	102	47.0	NA	NA	36.0	NA	37.0	21.0	3.0	1.45	64.8	51.2
SATANTA		0-2	3C	SI	60	NA	30.0	20.0	31.0	NA	NA	NA	1.4	0.31	13.9	45.9
SATANTA		0-2	3C	SI	61	NA	33.0	26.0	33.0	NA	NA	NA	1.8	0.35	15.6	54.2
SATANTA		2-6	3E	SI	60	NA	28.0	19.0	30.0	NA	NA	NA	1.3	0.31	13.9	43.3
SATANTA		2-6	3E	SI	61	NA	32.0	24.0	32.0	NA	NA	NA	1.7	0.33	14.7	51.6
SATANTA		6-9	4E	SI	60	NA	25.0	17.0	26.0	NA	NA	NA	1.2	0.29	13.0	38.7
SATANTA		6-9	4E	SI	61	NA	29.0	22.0	28.0	NA	NA	NA	1.5	0.31	13.9	46.4
SATANTA		9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
SATANTA		9-15	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
SAVAGE		0-2	2C	CY	54	32.0	32.0	28.0	46.0	NA	NA	NA	1.9	0.33	14.7	54.1
SAVAGE		2-6	2E	CY	54	30.0	30.0	25.0	41.0	NA	NA	NA	1.7	0.30	13.4	49.2
SAVAGE		6-9	3E	CY	54	NA	27.0	23.0	35.0	NA	NA	NA	1.5	0.30	13.4	47.8
SAVO		0-2	2C	SI	63	44.0	37.0	NA	49.0	NA	45.0	NA	2.2	0.41	18.3	57.3
SAVO		0-2	2C	SI	64	34.0	34.0	NA	45.0	NA	43.0	NA	1.9	0.38	17.0	51.1
SAVO		0-2	3C	SI	60	NA	28.0	21.0	30.0	NA	NA	NA	1.3	0.32	14.3	44.6
SAVO		0-2	3C	SI	61	NA	32.0	23.0	33.0	NA	NA	NA	1.5	0.35	15.6	50.1
SAVO		2-6	2E	SI	63	41.0	36.0	NA	47.0	NA	43.0	NA	2.1	0.38	17.0	54.8
SAVO		2-6	2E	SI	64	30.0	32.0	NA	41.0	NA	40.0	NA	1.8	0.35	15.6	47.3
SAVO		2-6	3E	SI	60	NA	26.0	NA	28.0	NA	NA	NA	1.2	0.29	13.0	38.7
SAVO		2-6	3E	SI	61	NA	30.0	NA	31.0	NA	NA	NA	1.4	0.32	14.3	44.3
SAVO		6-9	3E	SI	63	34.0	31.0	NA	41.0	NA	34.0	NA	1.8	0.35	15.6	46.3
SAVO		6-9	3E	SI	64	26.0	26.0	NA	36.0	NA	31.0	NA	1.5	0.32	14.3	39.2
SAVO		6-9	4E	SI	60	NA	NA	NA	NA	NA	NA	NA	1.1	0.26	11.6	25.4

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
SAVO		6-9	4E	SI	61	NA	NA NA	NA	NA	NA	NA	1.3	0.29	13.0	30.0
SAVO		9-15	4E	SI	63	NA	NA NA	38.0	NA	NA	NA	1.5	0.33	14.7	38.3
SAVO		9-15	4E	SI	64	NA	NA NA	31.0	NA	NA	NA	1.2	0.29	13.0	31.0
SAVO		9-15	6E	SI	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
SAVO		9-15	6E	SI	61	NA	NA NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
SCHAMBER		0-9	6S	VS	60	NA	NA NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
SCHAMBER		0-9	6S	VS	61	NA	NA NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
SCHAMBER		0-9	6S	VS	63	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
SCHAMBER		9-40	7S	VS	60	NA	NA NA	NA	NA	NA	NA	NA	0.13	5.8	5.8
SCHAMBER		9-40	7S	VS	61	NA	NA NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
SCHAMBER		9-40	7S	VS	63	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
SCROGGIN		6-25	6E	TU	58	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SEN		2-6	3E	SI	54	NA	27.0 21.0	35.0	NA	NA	NA	1.2	0.35	15.6	44.8
SEN		6-9	3E	SI	54	NA	25.0 20.0	33.0	NA	NA	NA	1.1	0.33	14.7	42.0
SEN		9-15	4E	SI	54	NA	NA	29.0	NA	NA	NA	0.9	0.30	13.4	26.4
SEN		15-25	6E	SI	54	NA	NA NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
SERDEN		2-15	6E	SA	55	NA	NA NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
SEROCO		2-15	6E	SA	53	NA	NA NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
SEROCO		2-15	6E	SA	54	NA	NA NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
SEROCO		2-15	6E	SA	55	NA	NA NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
SHAMBO		0-2	2C	SI	54	NA	NA 28.0	46.0	NA	NA	NA	1.7	0.35	15.6	53.7
SHENA		0-9	6S	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
SHENA		0-9	6S	SW	66	NA	NA NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
SHINDLER		2-6	3E	SI	102	57.0	NA NA	64.0	NA	51.0	21.0	2.9	0.66	29.5	62.3
SHINDLER		6-9	4E	SI	102	50.0	NA NA	53.0	NA	44.0	19.0	2.8	0.62	27.7	55.3
SHINDLER		9-25	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.57	25.5	25.5
SHINDLER		25-40	7E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.53	23.7	23.7
SIECHE		9-15	4E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
SIECHE		15-25	6E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
SIECHE		25-40	7E	SI	102	NA	NA NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
SINAI		0-2	2S	CY	55	56.0	NA 27.0	67.0	19.0	NA	NA	2.8	0.54	24.1	66.6
SINAI		0-2	2S	CY	102	73.0	NA NA	76.0	23.0	NA	24.0	3.0	0.68	30.4	74.4
SINAI		2-6	3E	CY	55	53.0	NA 25.0	64.0	16.0	NA	NA	2.8	0.50	22.3	62.2
SINAI		2-6	3E	CY	102	69.0	NA NA	73.0	19.0	NA	22.0	2.9	0.64	28.6	68.6
SINAI		6-9	4E	CY	55	48.0	NA 23.0	60.0	NA	NA	NA	2.7	0.48	21.4	59.5
SINAI		6-9	3E	CY	102	57.0	NA NA	72.0	NA	NA	20.0	2.7	0.61	27.3	63.3
SINAI		9-15	4E	CY	102	52.0	NA NA	60.0	NA	NA	NA	2.7	0.59	26.4	61.2
SINGSAAS		0-2	1	SI	102	77.0	NA NA	77.0	21.0	NA	27.0	3.0	0.68	30.4	75.6
SINGSAAS		2-6	2E	SI	102	70.0	NA NA	75.0	18.0	NA	24.0	2.9	0.63	28.2	69.6
SINGSAAS		6-9	3E	SI	102	64.0	NA NA	72.0	NA	NA	20.0	2.7	0.61	27.3	65.1

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
SINGSAAS		9-15	4E	SI	102	52.0	NA	NA	58.0	NA	NA	NA	2.5	0.59	26.4	59.0
SINGSAAS		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	NA	0.57	25.5	25.5
SIOUX		0-9	6S	VS	55	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
SIOUX		0-9	6S	VS	102	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
SIOUX		9-40	7S	VS	55	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
SIOUX		9-40	7S	VS	102	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
SISSETON		2-6	3E	TU	102	43.0	NA	NA	53.0	15.0	NA	NA	1.8	0.53	23.7	49.5
SISSETON		6-9	4E	TU	102	40.0	NA	NA	47.0	12.0	NA	NA	1.6	0.51	22.8	43.3
SISSETON		9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
SISSETON		25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
SISSETON	E	2-6	4E	TU	102	41.0	NA	NA	49.0	NA	NA	NA	1.6	0.51	22.8	44.8
SISSETON	E	6-9	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	1.5	0.47	21.0	34.6
SNOMO		6-25	6E	CS	61	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
SOLOMON	DF	0-2	3W	WL	102	59.0	NA	NA	NA	NA	NA	23.0	3.5	1.10	49.2	67.2
SOLOMON	DNF	0-2	5W	WL	102	NA	NA	NA	NA	NA	NA	NA	NA	1.10	49.2	49.2
SORUM		0-2	4E	SY	58	NA	14.0	12.0	26.0	NA	NA	NA	1.0	0.30	13.4	28.3
SORUM		2-6	4E	SY	58	NA	NA	11.0	25.0	NA	NA	NA	0.8	0.28	12.5	24.7
SPEARFISH		0-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
SPEARFISH		0-15	6S	SW	62	NA	NA	NA	NA	NA	NA	NA	NA	0.49	21.9	21.9
SPEARFISH		15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
SPEARFISH		15-40	7E	SW	62	NA	NA	NA	NA	NA	NA	NA	NA	0.46	20.6	20.6
SPOTTSWOOD		0-2	2S	OV	102	54.0	NA	NA	52.0	16.0	NA	21.0	2.4	1.15	51.4	55.9
SPOTTSWOOD		0-2	3S	SI	55	47.0	NA	24.0	51.0	14.0	NA	NA	2.2	0.73	32.6	53.4
ST. ONGE		0-2	3C	OV	61	33.0	41.0	31.0	39.0	NA	NA	NA	2.2	0.69	30.8	59.6
STADY		0-2	3S	SI	53	NA	NA	20.0	43.0	12.0	NA	NA	1.2	0.47	21.0	42.0
STADY		0-2	3S	SI	54	NA	NA	21.0	37.0	NA	NA	NA	1.0	0.35	15.6	39.1
STADY		2-6	3E	SI	53	NA	NA	17.0	41.0	11.0	NA	NA	1.1	0.44	19.7	38.1
STADY		2-6	3E	SI	54	NA	NA	18.0	35.0	NA	NA	NA	0.9	0.33	14.7	35.1
STADY		6-9	4E	SI	53	NA	NA	14.0	36.0	NA	NA	NA	0.8	0.41	18.3	31.3
STADY		6-9	4E	SI	54	NA	NA	NA	31.0	NA	NA	NA	0.8	0.31	13.9	26.4
STEINAUER		6-9	4E	TU	102	50.0	NA	NA	58.0	NA	NA	NA	2.1	0.53	23.7	55.2
STEINAUER		9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
STEINAUER		25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
STETTER		0-2	4S	OV	60	NA	NA	NA	25.0	NA	NA	NA	1.3	0.63	28.2	28.8
STICKNEY		0-2	2S	CY	102	66.0	NA	NA	63.0	22.0	48.0	28.0	3.1	0.64	28.6	69.3
STICKNEY		0-2	3S	CY	55	51.0	NA	NA	53.0	17.0	48.0	NA	2.7	0.56	25.0	58.2
STICKNEY		2-6	3E	CY	55	48.0	NA	NA	49.0	16.0	45.0	NA	2.6	0.54	24.1	54.8
STICKNEY		2-6	3E	CY	102	60.0	NA	NA	59.0	19.0	46.0	26.0	3.0	0.61	27.3	64.2
STICKNEY		6-9	4E	CY	102	51.0	NA	NA	45.0	NA	NA	22.0	2.6	0.57	25.5	54.9
STIRK		0-2	6S	OV	63	NA	NA	NA	NA	NA	NA	NA	NA	0.57	25.5	25.5

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SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
STIRUM	0-2	4W	SB	53	19.0	NA	13.0	28.0	11.0	NA	NA	1.3	0.88	30.5
STIRUM	0-2	4W	SB	55	19.0	NA	15.0	31.0	11.0	NA	NA	1.3	0.90	32.2
STORLA	0-2	3S	SI	55	41.0	NA	NA	45.0	NA	37.0	NA	2.0	0.54	45.8
STORLA	0-2	3E	SI	102	59.0	NA	NA	48.0	NA	NA	17.0	2.1	0.68	51.8
STRAW	0-2	2C	SI	54	35.0	34.0	29.0	51.0	NA	NA	NA	1.8	0.35	56.7
STRAW	0-2	3C	SI	58	31.0	33.0	23.0	42.0	NA	NA	NA	1.6	0.31	49.5
SULLY	0-2	3E	TU	53	27.0	NA	19.0	37.0	13.0	NA	NA	1.5	0.41	39.6
SULLY	0-2	3E	TU	55	NA	NA	NA	NA	NA	NA	NA	1.7	0.42	39.3
SULLY	0-2	3E	TU	63	29.0	NA	19.0	38.0	NA	NA	NA	1.4	0.33	38.3
SULLY	2-6	4E	TU	53	24.0	NA	17.0	35.0	12.0	NA	NA	1.4	0.37	36.3
SULLY	2-6	4E	TU	55	NA	NA	NA	NA	NA	NA	NA	1.5	0.39	34.6
SULLY	2-6	4E	TU	63	25.0	NA	16.0	34.0	NA	NA	NA	1.3	0.29	33.7
SULLY	6-9	4E	TU	53	NA	NA	16.0	29.0	NA	NA	NA	1.3	0.35	34.2
SULLY	6-9	4E	TU	55	NA	NA	NA	NA	NA	NA	NA	1.4	0.37	32.3
SULLY	6-9	4E	TU	63	NA	NA	16.0	30.0	NA	NA	NA	1.1	0.27	33.1
SULLY	9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7
SULLY	9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6
SULLY	9-25	6E	TU	63	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2
SULLY	25-40	7E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9
SULLY	25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7
SULLY	25-40	7E	TU	63	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3
SVEA	0-2	1	OV	102	76.0	NA	NA	81.0	24.0	NA	NA	3.4	1.20	83.1
SVEA	0-2	2C	OV	55	63.0	NA	38.0	72.0	21.0	NA	NA	3.2	1.02	78.1
SVEA	2-6	2E	SI	55	49.0	NA	36.0	67.0	18.0	NA	NA	3.2	0.57	70.9
SVEA	2-6	2E	SI	102	72.0	NA	NA	78.0	22.0	NA	NA	3.2	0.72	78.3
SVERDRUP	0-2	3S	SY	102	47.0	NA	NA	44.0	13.0	NA	NA	2.0	0.59	47.5
SVERDRUP	2-6	3E	SY	102	45.0	NA	NA	43.0	12.0	NA	NA	1.9	0.57	45.3
SVERDRUP	6-9	4E	SY	102	36.0	NA	NA	38.0	NA	NA	NA	1.7	0.54	39.8
SWANBOY	0-6	6S	DC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3
SWANBOY	0-6	6S	DC	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4
SWANBOY	0-9	6S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3
SWANBOY	0-9	6S	DC	64	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6
SWANBOY	9-15	7S	DC	64	NA	NA	NA	NA	NA	NA	NA	NA	0.24	10.7
SWENODA	0-2	3E	SY	55	46.0	NA	26.0	48.0	15.0	NA	NA	2.0	0.50	53.3
SWENODA	0-2	3S	SY	102	55.0	NA	NA	59.0	18.0	NA	20.0	2.3	0.60	58.1
SWENODA	2-6	3E	SY	55	43.0	NA	24.0	45.0	14.0	NA	NA	1.9	0.47	49.8
SWENODA	2-6	3E	SY	102	53.0	NA	NA	57.0	17.0	NA	18.0	2.2	0.57	55.0
SWINT	0-2	3C	SI	61	31.0	39.0	30.0	36.0	NA	NA	NA	2.1	0.34	56.7
SWINT	2-6	3E	SI	61	29.0	36.0	28.0	35.0	NA	NA	NA	2.0	0.34	53.2
TABLE MOUNTAIN	0-2	2C	SI	62	35.0	41.0	30.0	39.0	NA	NA	NA	2.3	0.56	60.0

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
TABLE MOUNTAIN	0-2	3C	SI	61	34.0	40.0 30.0	39.0	NA	NA	NA	2.2	0.40	17.9	58.9
TABLE MOUNTAIN	2-6	2E	SI	62	33.0	38.0 32.0	37.0	NA	NA	NA	2.1	0.52	23.2	57.9
TABLE MOUNTAIN	2-6	3E	SI	61	31.0	38.0 28.0	35.0	NA	NA	NA	2.1	0.37	16.5	55.0
TABLE MOUNTAIN	6-9	3E	SI	62	NA	NA NA	NA	NA	NA	NA	2.0	0.47	21.0	46.2
TABLE MOUNTAIN	6-9	4E	SI	61	NA	NA NA	NA	NA	NA	NA	2.0	0.34	15.2	46.2
TABLE MOUNTAIN	9-15	4E	SI	62	NA	NA NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
TABLE MOUNTAIN	9-15	6E	SI	61	NA	NA NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
TALLY	0-2	3E	SY	53	43.0	NA 20.0	46.0	15.0	NA	NA	1.6	0.48	21.4	47.3
TALLY	0-2	3E	SY	54	26.0	NA 26.0	40.0	NA	NA	NA	1.4	0.35	15.6	42.5
TALLY	0-2	4E	SY	58	NA	30.0 19.0	33.0	NA	NA	NA	1.1	0.30	13.4	44.1
TALLY	2-6	3E	SY	53	42.0	NA 17.0	44.0	14.0	NA	NA	1.6	0.45	20.1	44.5
TALLY	2-6	3E	SY	54	NA	NA 24.0	39.0	NA	NA	NA	1.1	0.31	13.9	43.2
TALLY	2-6	4E	SY	58	NA	NA 18.0	31.0	NA	NA	NA	1.1	0.30	13.4	35.1
TALLY	6-9	4E	SY	53	39.0	NA 15.0	40.0	NA	NA	NA	1.5	0.42	18.8	39.6
TALLY	6-9	4E	SY	54	NA	NA NA	34.0	NA	NA	NA	1.0	0.27	12.1	30.3
TALMO	0-9	6S	VS	53	NA	NA NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
TALMO	0-9	6S	VS	55	NA	NA NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
TALMO	0-9	6S	VS	102	NA	NA NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
TALMO	9-25	7S	VS	53	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
TALMO	9-25	7S	VS	55	NA	NA NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
TALMO	9-25	7E	VS	102	NA	NA NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
TASSEL	2-15	6E	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
TASSEL	2-15	6E	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
TASSEL	2-15	6E	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
TASSEL	2-15	6E	SW	65	NA	NA NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
TASSEL	2-15	6E	SW	66	NA	NA NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
TASSEL	15-40	7E	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
TASSEL	15-40	7E	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TASSEL	15-40	7E	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TASSEL	15-40	7E	SW	65	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TASSEL	15-40	7E	SW	66	NA	NA NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
TELFER	0-2	4E	SA	53	NA	NA 16.0	32.0	NA	NA	NA	1.4	0.47	21.0	36.1
TELFER	0-2	4E	SA	54	NA	NA 14.0	29.0	NA	NA	NA	1.2	0.38	17.0	31.8
TELFER	2-6	4E	SA	53	NA	NA 15.0	29.0	NA	NA	NA	1.2	0.45	20.1	32.6
TELFER	2-6	4E	SA	54	NA	NA 12.0	26.0	NA	NA	NA	1.1	0.35	15.6	28.2
TELFER	2-15	6E	SA	58	NA	NA NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
TELFER	6-15	6E	SA	53	NA	NA NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
TELFER	6-15	6E	SA	54	NA	NA NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
TELFER	15-40	7E	SA	53	NA	NA NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
TELFER	15-40	7E	SA	54	NA	NA NA	NA	NA	NA	NA	NA	0.31	13.9	13.9

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
TELFER		15-40	7E	SA	58	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
TEMLIK		0-2	2C	SI	53	32.0	NA	25.0	53.0	16.0	NA	NA	2.0	0.50	22.3
TEMLIK		2-6	2E	SI	53	31.0	NA	23.0	52.0	15.0	NA	NA	1.9	0.47	21.0
TEMLIK		6-9	3E	SI	53	28.0	NA	20.0	44.0	NA	NA	NA	1.6	0.44	19.7
TETONKA	DF	2-6	2W	CD	53	NA	NA	24.0	50.0	16.0	NA	NA	2.4	0.85	38.0
TETONKA	DF	0-2	2W	CD	55	51.0	NA	24.0	51.0	16.0	49.0	NA	2.7	0.90	40.2
TETONKA	DF	0-2	2W	WL	102	61.0	NA	NA	62.0	17.0	47.0	26.0	3.3	0.95	42.4
TETONKA	DNF	0-2	4W	CD	53	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
TETONKA	DNF	0-2	4W	CD	55	NA	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
TETONKA	DNF	0-2	4W	WL	102	NA	NA	NA	NA	NA	NA	NA	0.95	42.4	42.4
THURMAN		0-2	4E	SA	55	42.0	NA	NA	44.0	NA	43.0	NA	1.9	0.54	24.1
THURMAN		2-6	4E	SA	55	38.0	NA	NA	42.0	NA	42.0	NA	1.8	0.52	23.2
THURMAN		6-9	6E	SA	55	NA	NA	NA	NA	NA	NA	NA	1.8	0.50	22.3
TIFFANY		0-2	3W	SB	55	NA	NA	21.0	51.0	NA	NA	NA	2.6	1.39	62.1
TIFFANY		0-2	3W	SB	102	51.0	NA	NA	56.0	15.0	NA	NA	3.0	1.47	65.7
TILFORD		0-2	3C	SI	61	31.0	39.0	29.0	36.0	NA	NA	NA	2.1	0.40	17.9
TILFORD		2-6	3E	SI	61	29.0	36.0	28.0	35.0	NA	NA	NA	2.0	0.37	16.5
TILFORD		6-9	4E	SI	61	NA	31.0	NA	31.0	NA	NA	NA	1.8	0.34	15.2
TILFORD		9-15	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4
TOBY		0-2	3E	SY	54	NA	NA	26.0	40.0	NA	NA	NA	1.4	0.35	15.6
TOBY		0-2	4E	SY	58	NA	NA	19.0	30.0	NA	NA	NA	1.2	0.30	13.4
TOBY		2-6	3E	SY	54	NA	NA	24.0	39.0	NA	NA	NA	1.3	0.35	15.6
TOBY		2-6	4E	SY	58	NA	NA	18.0	29.0	NA	NA	NA	1.1	0.30	13.4
TONKA	DF	0-2	2W	CD	53	NA	NA	25.0	50.0	15.0	NA	NA	2.3	0.75	33.5
TONKA	DF	0-2	2W	CD	55	NA	NA	25.0	51.0	16.0	NA	NA	2.5	0.80	35.7
TONKA	DF	0-2	2W	WL	102	NA	NA	NA	62.0	16.0	NA	23.0	3.2	0.90	40.2
TONKA	DNF	0-2	4W	CD	53	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
TONKA	DNF	0-2	4W	CD	55	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
TONKA	DNF	0-2	4W	WL	102	NA	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
TOWNER		0-2	3S	SY	102	52.0	NA	NA	47.0	18.0	NA	19.0	2.2	0.68	30.4
TRAVESSILLA		2-15	6S	SW	62	NA	NA	NA	NA	NA	NA	NA	0.60	26.8	26.8
TRAVESSILLA		2-25	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
TRAVESSILLA		15-40	7S	SW	62	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6
TRAVESSILLA		25-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
TREMLES		0-2	3E	OV	54	31.0	30.0	24.0	44.0	NA	NA	NA	1.6	0.70	31.3
TRENT		0-2	1	SI	102	94.0	NA	NA	92.0	NA	79.0	39.0	4.3	0.72	32.2
TRIPP		0-2	3C	SI	60	23.0	31.0	NA	31.0	NA	NA	NA	1.5	0.32	14.3
TRIPP		2-6	3E	SI	60	NA	27.0	NA	28.0	NA	NA	NA	1.3	0.32	14.3
TRIPP		6-9	4E	SI	60	NA	22.0	NA	26.0	NA	NA	NA	1.2	0.29	13.0
TUTHILL		0-2	3E	SY	63	34.0	33.0	NA	46.0	NA	41.0	NA	1.5	0.45	20.1

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APPENDIX TABLE 1. RANGES DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9		OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
TUTHILL		0-2	3E	SY	64	32.0	33.0	NA	45.0	NA	35.0	NA	1.4	0.37	16.5	46.0
TUTHILL		0-2	3E	SY	66	34.0	34.0	NA	47.0	NA	42.0	NA	1.6	0.46	20.6	49.9
TUTHILL		0-2	4E	SY	60	18.0	25.0	NA	30.0	NA	NA	NA	1.2	0.34	15.2	33.8
TUTHILL		0-2	4E	SY	61	23.0	30.0	NA	36.0	NA	NA	NA	1.5	0.34	15.2	41.3
TUTHILL		2-6	3E	SY	63	32.0	31.0	NA	43.0	NA	38.0	NA	1.4	0.41	18.3	45.4
TUTHILL		2-6	3E	SY	64	30.0	31.0	NA	41.0	NA	34.0	NA	1.3	0.33	14.7	43.1
TUTHILL		2-6	3E	SY	66	31.0	31.0	NA	44.0	NA	41.0	NA	1.5	0.43	19.2	46.6
TUTHILL		2-6	4E	SY	60	17.0	24.0	NA	NA	NA	NA	NA	1.1	0.30	13.4	32.1
TUTHILL		2-6	4E	SY	61	22.0	29.0	NA	32.0	NA	NA	NA	1.4	0.32	14.3	38.8
TUTHILL		6-9	4E	SY	63	28.0	28.0	NA	37.0	NA	32.0	NA	1.2	0.39	17.4	39.6
TUTHILL		6-9	4E	SY	64	25.0	26.0	NA	34.0	NA	26.0	NA	1.1	0.31	13.9	35.5
TUTHILL		6-9	4E	SY	66	NA	NA	NA	37.0	NA	33.0	NA	1.3	0.40	17.9	36.6
TUTHILL		6-15	6E	SY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
TUTHILL		6-15	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TUTHILL		9-15	6E	SY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
TUTHILL		9-15	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
TUTHILL		9-15	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
TUTHILL-SIL		0-2	2C	SI	66	44.0	NA	40.0	52.0	NA	55.0	NA	1.8	0.45	20.1	62.4
TUTHILL-SIL		2-6	2E	SI	66	42.0	NA	38.0	50.0	NA	53.0	NA	1.6	0.43	19.2	59.2
TUTHILL-SIL		6-9	3E	SI	66	38.0	NA	34.0	45.0	NA	47.0	NA	1.5	0.41	18.3	53.3
TWILIGHT		2-6	4E	SY	58	NA	NA	NA	NA	NA	NA	NA	1.0	0.30	13.4	23.1
TWILIGHT		6-15	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
TWOTOP		0-9	6S	DC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
TWOTOP		0-9	6S	DC	61	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
ULEN		0-2	3E	SY	55	37.0	NA	21.0	51.0	13.0	NA	NA	2.2	0.48	21.4	49.0
ULEN		0-2	3S	SY	102	43.0	NA	NA	58.0	14.0	NA	NA	2.5	0.66	29.5	54.1
ULYSSES		0-2	2C	SI	64	32.0	39.0	NA	40.0	NA	36.0	NA	1.5	0.40	17.9	48.3
ULYSSES		0-2	3C	SI	60	NA	29.0	NA	31.0	NA	NA	NA	1.2	0.34	15.2	42.0
ULYSSES		2-6	2E	SI	64	30.0	36.0	NA	38.0	NA	34.0	NA	1.3	0.37	16.5	44.7
ULYSSES		2-6	3E	SI	60	NA	26.0	NA	28.0	NA	NA	NA	1.1	0.31	13.9	37.9
ULYSSES		6-9	3E	SI	64	25.0	33.0	NA	34.0	NA	27.0	NA	1.2	0.34	15.2	39.3
ULYSSES		6-9	4E	SI	60	NA	NA	NA	23.0	NA	NA	NA	1.0	0.29	13.0	24.3
ULYSSES		9-15	4E	SI	64	NA	28.0	NA	28.0	NA	21.0	NA	1.1	0.31	13.9	35.8
VALE		0-2	3C	SI	61	31.0	39.0	29.0	36.0	NA	NA	NA	2.1	0.32	14.3	56.2
VALE		2-6	3E	SI	61	29.0	36.0	28.0	35.0	NA	NA	NA	2.0	0.29	13.0	53.2
VALE		6-9	4E	SI	61	NA	31.0	23.0	31.0	NA	NA	NA	1.8	0.27	12.1	50.7
VALENTINE		0-9	6E	SA	60	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
VALENTINE		0-15	6E	SA	64	NA	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
VALENTINE		0-15	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
VALENTINE		0-15	6E	SA	66	NA	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

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APPENDIX TABLE A. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
VALENTINE		9-25	7E	SA	60	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
VALENTINE		15-40	7E	SA	64	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
VALENTINE		15-40	7E	SA	65	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
VALENTINE		15-40	7E	SA	66	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
VALLERS	DF	0-2	2W	SB	55	NA	NA	24.0	48.0	12.0	NA	2.5	1.20	53.6
VALLERS	DF	0-2	2W	SB	102	55.0	NA	NA	54.0	13.0	NA	2.6	1.27	56.7
VALLERS	S	0-2	4W	SB	55	NA	NA	NA	39.0	NA	NA	1.9	1.10	49.2
VALLERS	S	0-2	4W	SB	102	36.0	NA	NA	49.0	NA	NA	2.1	1.17	52.3
VALLERS	DNF	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	1.20	53.6	53.6
VALLERS	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	1.27	56.7	56.7
VANG		0-2	2S	SI	102	45.0	NA	NA	50.0	15.0	NA	17.0	1.9	0.59
VANG		0-2	3S	SI	55	37.0	NA	22.0	46.0	12.0	NA	NA	1.7	0.54
VEBAR		0-2	3E	SY	54	31.0	29.0	25.0	39.0	NA	NA	NA	1.4	0.38
VEBAR		0-2	4E	SY	58	NA	29.0	19.0	29.0	NA	NA	NA	1.3	0.34
VEBAR		2-6	3E	SY	54	30.0	26.0	23.0	36.0	NA	NA	NA	1.3	0.35
VEBAR		2-6	4E	SY	58	NA	NA	18.0	25.0	NA	NA	NA	1.2	0.30
VEBAR		6-9	4E	SY	54	NA	22.0	19.0	31.0	NA	NA	NA	1.1	0.33
VEBAR		6-15	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	0.27	12.1
VEBAR		9-25	6E	SY	54	NA	NA	NA	NA	NA	NA	NA	0.31	13.9
VENLO		0-2	5W	WL	55	NA	NA	NA	NA	NA	NA	NA	0.95	42.4
VERDEL		0-2	3S	CY	63	32.0	32.0	NA	41.0	NA	37.0	NA	2.1	0.46
VETAL		0-2	3E	SY	64	40.0	36.0	NA	50.0	NA	40.0	NA	2.0	0.38
VETAL		0-2	3E	SY	65	NA	NA	NA	47.0	NA	NA	NA	1.9	0.38
VETAL		0-2	3E	SY	66	53.0	NA	40.0	55.0	NA	47.0	NA	2.4	0.48
VETAL		0-2	4E	SY	60	25.0	30.0	NA	31.0	NA	NA	NA	1.6	0.32
VETAL		0-2	4E	SY	61	33.0	35.0	NA	39.0	NA	NA	NA	2.1	0.32
VETAL		2-6	3E	SY	64	35.0	32.0	NA	45.0	NA	38.0	NA	1.8	0.35
VETAL		2-6	3E	SY	65	NA	NA	NA	41.0	NA	NA	NA	1.7	0.35
VETAL		2-6	3E	SY	66	51.0	NA	37.0	54.0	NA	45.0	NA	2.3	0.45
VETAL		2-6	4E	SY	60	21.0	28.0	NA	29.0	NA	NA	NA	1.4	0.29
VETAL		2-6	4E	SY	61	31.0	33.0	NA	35.0	NA	NA	NA	1.8	0.29
VETAL		6-9	4E	SY	64	28.0	NA	NA	36.0	NA	33.0	NA	1.5	0.31
VETAL		6-9	4E	SY	65	NA	NA	NA	32.0	NA	NA	NA	1.5	0.31
VETAL		6-9	4E	SY	66	40.0	NA	NA	48.0	NA	37.0	NA	1.8	0.39
VIBORG		0-2	1	OV	102	90.0	NA	NA	91.0	28.0	76.0	38.0	4.1	1.20
VIBORG		2-6	2E	SI	102	87.0	NA	NA	87.0	26.0	71.0	37.0	3.9	0.68
VIDA		2-6	3E	SI	53	24.0	NA	21.0	39.0	14.0	NA	NA	1.7	0.45
VIDA		6-9	4E	SI	53	22.0	NA	16.0	35.0	NA	NA	NA	1.5	0.41
VIDA		9-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	0.39	17.4
VIENNA		0-2	1	SI	102	73.0	NA	NA	81.0	19.0	NA	27.0	2.9	0.68

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
VIENNA		2-6	2E	SI	102	71.0	NA	NA	77.0	18.0	NA	24.0	2.8	0.63	28.2	69.8
VIENNA		6-9	3E	SI	102	61.0	NA	NA	72.0	16.0	NA	19.0	2.7	0.61	27.3	62.2
VIENNA		9-15	4E	SI	102	45.0	NA	NA	54.0	NA	NA	NA	2.4	0.59	26.4	54.2
VIENNA		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	NA	0.57	25.5	25.5
VIENNA	E	2-6	3E	SI	102	61.0	NA	NA	75.0	17.0	NA	20.0	2.7	0.61	27.3	64.0
VIENNA	E	6-9	4E	SI	102	54.0	NA	NA	62.0	NA	NA	NA	2.4	0.59	26.4	60.4
VIENNA	E	9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	2.2	0.57	25.5	50.8
VOLGA	DF	0-2	2W	SB	102	62.0	NA	NA	65.0	13.0	NA	27.0	3.1	1.30	58.1	64.6
VOLGA	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
VOLIN		0-2	1	OV	102	95.0	NA	NA	82.0	24.0	76.0	37.0	4.0	1.33	59.4	91.9
WABEK		2-9	6S	VS	53	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
WABEK		9-15	7S	VS	53	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
WAKONDA		0-2	2E	SI	102	66.0	NA	NA	67.0	NA	53.0	21.0	2.6	1.07	47.8	64.0
WAKONDA	S	0-2	3W	SB	102	59.0	NA	NA	56.0	NA	43.0	NA	2.3	1.20	53.6	57.1
WALKE		0-2	3S	CY	53	32.0	33.0	24.0	50.0	NA	39.0	NA	1.7	0.52	23.2	51.4
WALKE		2-6	3E	CY	53	31.0	32.0	23.0	48.0	NA	36.0	NA	1.6	0.52	23.2	49.1
WANBLEE		0-9	6S	TCP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
WANBLEE		0-9	6S	TCP	61	NA	NA	NA	NA	NA	NA	NA	NA	0.12	5.4	5.4
WANBLEE		0-9	6S	TCP	63	NA	NA	NA	NA	NA	NA	NA	NA	0.17	7.6	7.6
WANBLEE		0-9	6S	TCP	64	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
WANBLEE		0-9	6S	TCP	66	NA	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
WANN		0-2	3W	SB	66	50.0	NA	NA	47.0	NA	NA	NA	2.8	1.35	60.3	56.5
WANN		0-2	3W	SB	102	66.0	NA	NA	76.0	17.0	56.0	27.0	3.5	1.48	66.1	71.5
WASA		0-9	6S	DC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
WASA		0-9	6S	DC	61	NA	NA	NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
WASA		0-9	6S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
WASA		9-25	7S	DC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
WASA		9-25	7S	DC	61	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
WASA		9-25	7S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
WATROUS		0-2	3S	SI	54	34.0	NA	28.0	48.0	NA	NA	NA	1.7	0.39	17.4	49.9
WAUBAY		0-2	1	SI	102	77.0	NA	NA	84.0	24.0	NA	27.0	3.4	0.68	30.4	81.1
WAUBAY		2-6	2E	SI	102	73.0	NA	NA	81.0	19.0	NA	27.0	3.3	0.63	28.2	75.6
WAYDEN		2-15	6S	SW	54	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
WAYDEN		15-40	7S	SW	54	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
WENTWORTH		0-2	1	SI	102	86.0	NA	NA	83.0	27.0	75.0	33.0	3.8	0.68	30.4	89.6
WENTWORTH		2-6	2E	SI	102	81.0	NA	NA	81.0	26.0	72.0	31.0	3.7	0.66	29.5	85.9
WENTWORTH		6-9	3E	SI	102	71.0	NA	NA	73.0	NA	62.0	28.0	3.4	0.64	28.6	75.7
WHITELAKE		0-2	4E	SY	60	NA	NA	NA	30.0	NA	NA	NA	0.9	0.32	14.3	27.0
WHITELAKE		0-2	4E	SY	61	NA	NA	NA	31.0	NA	NA	NA	1.0	0.37	16.5	28.7
WHITELAKE		0-6	4E	SY	64	NA	NA	NA	29.0	NA	NA	NA	1.3	0.40	17.9	31.0

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
WHITELAKE		0-6	4E	SY	65	NA	NA NA	31.0	NA	NA	NA	0.9	0.42	18.8	27.5
WHITELAKE		0-6	4E	SY	66	NA	NA NA	33.0	NA	NA	NA	1.4	0.52	23.2	34.4
WHITEWOOD	DF	0-2	2W	OV	102	77.0	NA NA	74.0	23.0	63.0	29.0	3.4	1.15	51.4	78.4
WHITEWOOD	DNF	0-2	4W	OV	102	NA	NA NA	NA	NA	NA	NA	NA	1.15	51.4	51.4
WILLIAMS		0-2	2C	SI	53	38.0	NA 27.0	56.0	17.0	NA	NA	2.1	0.48	21.4	55.8
WILLIAMS		2-6	2E	SI	53	37.0	NA 26.0	54.0	15.0	NA	NA	2.0	0.45	20.1	52.7
WILLIAMS		6-9	3E	SI	53	32.0	NA 24.0	50.0	NA	NA	NA	1.8	0.43	19.2	47.9
WILLIAMS		9-15	4E	SI	53	28.0	NA 17.0	42.0	NA	NA	NA	1.5	0.41	18.3	38.5
WILLIAMS		15-25	6E	SI	53	NA	NA NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
WINLER		0-9	6S	DC	60	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
WINLER		0-9	6S	DC	61	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
WITTEN		0-2	3S	CY	63	42.0	45.0 NA	60.0	NA	60.0	NA	2.2	0.48	21.4	66.4
WOLF POINT		0-2	3C	OV	58	NA	NA 23.0	36.0	NA	NA	NA	1.5	0.63	28.2	44.3
WOODY		0-2	3E	SY	63	36.0	36.0 NA	47.0	NA	48.0	NA	1.8	0.45	20.1	53.6
WOODY		0-2	3E	SY	64	33.0	36.0 NA	46.0	NA	47.0	NA	1.8	0.42	18.8	52.5
WOODY		2-6	3E	SY	63	33.0	31.0 NA	44.0	NA	46.0	NA	1.6	0.41	18.3	48.7
WOODY		2-6	3E	SY	64	32.0	31.0 NA	43.0	NA	45.0	NA	1.6	0.38	17.0	48.0
WOODY		6-9	4E	SY	63	NA	NA NA	37.0	NA	37.0	NA	1.4	0.39	17.4	39.0
WOODY		6-9	4E	SY	64	NA	NA NA	37.0	NA	36.0	NA	1.4	0.34	15.2	38.6
WORTHING	DF	0-2	3W	WL	102	62.0	NA NA	67.0	17.0	47.0	24.0	3.0	0.95	42.4	64.2
WORTHING	DNF	0-2	5W	WL	102	NA	NA NA	NA	NA	NA	NA	NA	0.95	42.4	42.4
WORTMAN		0-2	4S	CP	60	NA	NA NA	20.0	NA	NA	NA	0.8	0.21	9.4	20.3
WORTMAN		0-2	4S	CP	61	NA	NA NA	NA	NA	NA	NA	1.0	0.23	10.3	23.1
WORTMAN		0-2	4S	CP	64	NA	14.0 NA	24.0	NA	20.0	NA	0.9	0.32	14.3	25.5
WORTMAN		2-6	4S	CP	64	NA	13.0 NA	NA	NA	16.0	NA	0.8	0.32	14.3	22.0
WORTMAN		2-6	6S	CP	60	NA	NA NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
WORTMAN		2-6	6S	CP	61	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
WORTMAN		6-9	6E	CP	60	NA	NA NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
WORTMAN		6-9	6E	CP	61	NA	NA NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
WORTMAN		6-9	6E	CP	64	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
YAWDIM		2-15	6S	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
YAWDIM		15-40	7S	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
ZAHILL		2-6	4E	TU	53	NA	NA 15.0	38.0	13.0	NA	NA	1.3	0.37	16.5	38.9
ZAHILL		6-9	4E	TU	53	NA	NA 14.0	35.0	NA	NA	NA	1.2	0.34	15.2	34.0
ZAHILL		9-25	6E	TU	53	NA	NA NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ZAHL		2-6	4E	TU	53	NA	NA 15.0	38.0	13.0	NA	NA	1.3	0.37	16.5	38.9
ZAHL		6-9	4E	TU	53	NA	NA 14.0	35.0	NA	NA	NA	1.4	0.36	16.1	35.5
ZAHL		9-25	6E	TU	53	NA	NA NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
ZAHL		25-40	7E	TU	53	NA	NA NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
ZAHL	E	2-6	4E	TU	53	NA	NA 14.0	33.0	NA	NA	NA	1.4	0.35	15.6	34.8

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
ZAHL	E	6-9	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	1.2	0.33	14.7	27.7
ZELL		0-2	3E	TU	53	36.0	NA	15.0	39.0	13.0	NA	NA	1.6	0.39	17.4	40.4
ZELL		2-6	3E	TU	102	35.0	NA	17.0	47.0	13.0	NA	NA	2.0	0.50	22.3	44.8
ZELL		2-6	4E	TU	53	33.0	NA	14.0	37.0	12.0	NA	NA	1.5	0.37	16.5	37.6
ZELL		6-9	4E	TU	102	NA	NA	NA	NA	NA	NA	NA	2.0	0.47	21.0	46.2
ZELL		6-9	4E	TU	53	NA	NA	13.0	33.0	NA	NA	NA	1.4	0.35	15.6	33.9
ZELL		9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
ZELL		9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
ZELL		25-40	7E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ZELL	E	2-6	4E	TU	53	32.0	NA	13.0	33.0	NA	NA	NA	1.2	0.35	15.6	32.8
ZELL	E	6-9	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
ZEONA		0-9	6E	SA	58	NA	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ZOOK		0-2	2W	CY	102	88.0	NA	NA	80.0	NA	82.0	30.0	3.8	0.72	32.2	88.5

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

Appendix B.
Ratings Developed by Crop and Range Yield Estimates for
South Dakota Soils
(High-Low Array)

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
BLAKE	0-2	1	SI	102	96.0	NA NA	90.0	NA	81.0	40.0	4.4	0.72	32.2	100.0
TRENT	0-2	1	SI	102	94.0	NA NA	92.0	NA	79.0	39.0	4.3	0.72	32.2	98.6
VIBORG	0-2	1	OV	102	90.0	NA NA	91.0	28.0	76.0	38.0	4.1	1.20	53.6	95.8
BON	0-2	1	OV	102	95.0	NA NA	82.0	29.0	73.0	39.0	4.1	1.20	53.6	95.5
BLYBURG	0-2	1	SI	102	92.0	NA NA	80.0	NA	79.0	38.0	4.2	0.72	32.2	94.5
SALIX	0-2	1	SI	102	90.0	NA NA	83.0	NA	80.0	36.0	4.3	0.72	32.2	94.5
ALCESTER	0-2	1	OV	102	88.0	NA NA	82.0	26.0	84.0	37.0	4.2	1.15	51.4	94.2
JUDSON	0-2	1	OV	102	87.0	NA NA	81.0	NA	83.0	36.0	4.2	1.15	51.4	93.6
LESHARA	0-2	2W	SB	102	88.0	NA NA	82.0	NA	NA	37.0	4.0	1.80	80.4	92.5
DAVIS	0-2	1	OV	102	88.0	NA NA	84.0	26.0	82.0	32.0	4.3	1.05	46.9	92.4
OMADI	0-2	1	SI	102	90.0	NA NA	84.0	NA	86.0	31.0	4.0	0.68	30.4	92.2
HAYNIE	0-2	1	OV	102	90.0	NA NA	84.0	NA	85.0	31.0	4.0	1.25	55.9	91.9
MCPAUL	0-2	1	OV	102	90.0	NA NA	84.0	NA	85.0	31.0	4.0	1.25	55.9	91.9
VOLIN	0-2	1	OV	102	95.0	NA NA	82.0	24.0	76.0	37.0	4.0	1.33	59.4	91.9
VIBORG	2-6	2E	SI	102	87.0	NA NA	87.0	26.0	71.0	37.0	3.9	0.68	30.4	91.2
MODALE	0-2	1	SI	102	92.0	NA NA	80.0	NA	80.0	29.0	4.2	0.68	30.4	90.2
WENTWORTH	0-2	1	SI	102	86.0	NA NA	83.0	27.0	75.0	33.0	3.8	0.68	30.4	89.6
MOODY	0-2	1	SI	102	87.0	NA NA	80.0	23.0	76.0	37.0	4.0	0.68	30.4	89.5
ZOOK	0-2	2W	CY	102	88.0	NA NA	80.0	NA	82.0	30.0	3.8	0.72	32.2	88.5
LAKEPORT	0-2	2W	CY	102	88.0	NA NA	80.0	NA	82.0	30.0	3.8	0.72	32.2	88.5
ALCESTER	2-6	2E	SI	102	85.0	NA NA	80.0	24.0	76.0	33.0	3.9	0.68	30.4	87.7
EGAN	0-2	1	SI	102	85.0	NA NA	83.0	26.0	75.0	31.0	3.7	0.68	30.4	87.6
JUDSON	2-6	2E	SI	102	84.0	NA NA	78.0	NA	75.0	32.0	3.9	0.72	32.2	87.0
DAVIS	2-6	2E	SI	102	85.0	NA NA	83.0	24.0	75.0	30.0	3.9	0.72	32.2	86.8
GRACEVILLE	0-2	1	OV	102	85.0	NA NA	77.0	24.0	80.0	31.0	3.8	1.30	58.1	86.7
WENTWORTH	2-6	2E	SI	102	81.0	NA NA	81.0	26.0	72.0	31.0	3.7	0.66	29.5	85.9
ATHELWOLD	0-2	1	OV	102	90.0	NA NA	82.0	25.0	NA	31.0	3.3	1.20	53.6	85.7
LAPRAIRIE	0-2	1	OV	102	87.0	NA NA	83.0	22.0	NA	28.0	3.9	1.20	53.6	84.4
MOODY	2-6	2E	SI	102	81.0	NA NA	77.0	21.0	74.0	33.0	3.9	0.63	28.2	84.3
OAK LAKE	0-2	1	SI	102	82.0	NA NA	92.0	24.0	NA	28.0	3.2	0.68	30.4	83.5
SVEA	0-2	1	OV	102	76.0	NA NA	81.0	24.0	NA	NA	3.4	1.20	53.6	83.1
PROSPER	0-2	1	OV	102	77.0	NA NA	84.0	25.0	67.0	30.0	3.5	1.33	59.4	83.0
RENNER	0-2	1	SI	102	77.0	NA NA	84.0	NA	NA	30.0	3.5	0.66	29.5	82.8
EGAN	2-6	2E	SI	102	80.0	NA NA	80.0	24.0	72.0	29.0	3.5	0.64	28.6	82.8
BROOKINGS	0-2	1	OV	102	79.0	NA NA	84.0	24.0	NA	29.0	3.4	1.13	50.5	82.5
LADELLE	0-2	1	OV	102	87.0	NA NA	83.0	22.0	NA	28.0	3.4	1.15	51.4	82.1
BEOTIA	0-2	1	SI	102	78.0	NA NA	88.0	24.0	NA	28.0	3.2	0.68	30.4	81.8
BONILLA	0-2	1	OV	102	79.0	NA NA	76.0	NA	69.0	30.0	3.5	1.20	53.6	81.2
LAMO	DF 0-2	2W	SB	102	85.0	NA NA	73.0	19.0	67.0	30.0	4.1	1.45	64.8	81.2
WAUBAY	0-2	1	SI	102	77.0	NA NA	84.0	24.0	NA	27.0	3.4	0.68	30.4	81.1

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
BLENCOE		0-2	2W	OV	102	77.0	NA	NA	74.0	NA	79.0	27.0	3.4	1.20	53.6	80.7
HORD		0-2	1	SI	102	76.0	NA	NA	78.0	NA	66.0	29.0	3.5	0.72	32.2	79.8
RENNER		2-6	2E	SI	102	76.0	NA	NA	80.0	NA	NA	29.0	3.3	0.63	28.2	79.7
AASTAD		0-2	2C	OV	55	68.0	NA	38.0	74.0	21.0	NA	NA	3.2	1.12	50.0	79.6
ALCESTER		0-2	2C	OV	55	67.0	NA	NA	78.0	NA	NA	NA	3.5	1.02	45.6	79.3
LISMORE		0-2	1	OV	102	76.0	NA	NA	86.0	21.0	NA	27.0	3.4	1.13	50.5	79.2
PROSPER		2-6	2E	SI	102	76.0	NA	NA	80.0	23.0	64.0	29.0	3.3	0.68	30.4	79.2
CROSSPLAIN		0-2	2W	OV	102	77.0	NA	NA	74.0	23.0	66.0	29.0	3.4	1.30	58.1	79.0
AASTAD		0-2	1	OV	102	77.0	NA	NA	83.0	24.0	NA	24.0	3.3	1.25	55.9	78.9
CHANCELLOR		0-2	2W	OV	102	77.0	NA	NA	74.0	NA	NA	29.0	3.4	1.15	51.4	78.9
WHITEWOOD	DF	0-2	2W	OV	102	77.0	NA	NA	74.0	23.0	63.0	29.0	3.4	1.15	51.4	78.4
SVEA		2-6	2E	SI	102	72.0	NA	NA	78.0	22.0	NA	NA	3.2	0.72	32.2	78.3
BENCLARE		0-2	2S	CY	102	77.0	NA	NA	72.0	NA	66.0	28.0	3.5	0.70	31.3	78.2
SVEA		0-2	2C	OV	55	63.0	NA	38.0	72.0	21.0	NA	NA	3.2	1.02	45.6	78.1
GARDENA		0-2	1	SI	102	70.0	NA	37.0	78.0	19.0	NA	NA	3.0	0.52	23.2	78.0
BROOKINGS		2-6	2E	SI	102	77.0	NA	NA	81.0	21.0	NA	28.0	3.2	0.75	33.5	77.9
LAPRAIRIE		2-6	2E	SI	102	81.0	NA	NA	77.0	18.0	NA	26.0	3.8	0.75	33.5	77.5
BON		0-2	2C	OV	55	63.0	NA	NA	75.0	NA	70.0	NA	3.3	1.09	48.7	77.1
HIGHMORE		0-2	1	SI	102	73.0	NA	NA	77.0	23.0	NA	27.0	3.2	0.64	28.6	77.1
DEMPSTER		0-2	2S	SI	102	75.0	NA	NA	78.0	23.0	58.0	30.0	3.1	0.63	28.2	77.1
BEOTIA		2-6	2E	SI	102	73.0	NA	NA	83.0	23.0	NA	26.0	3.0	0.63	28.2	77.0
FORNEY		0-2	3W	CY	102	75.0	NA	NA	68.0	NA	70.0	28.0	3.3	0.76	34.0	76.9
CLARNO		0-2	1	SI	102	76.0	NA	NA	76.0	24.0	59.0	28.0	3.1	0.68	30.4	76.8
POINSETT		0-2	1	SI	102	75.0	NA	NA	84.0	21.0	NA	27.0	3.0	0.59	26.4	76.7
BONILLA		2-6	2E	SI	102	74.0	NA	NA	70.0	NA	66.0	29.0	3.3	0.68	30.4	76.7
KRANZBURG		0-2	1	SI	102	78.0	NA	NA	81.0	21.0	NA	27.0	3.0	0.68	30.4	76.7
EMRICK		0-2	1	SI	102	63.0	NA	NA	75.0	23.0	NA	NA	3.3	0.57	25.5	76.6
LADELLE		0-2	2C	OV	55	67.0	NA	33.0	75.0	19.0	NA	NA	3.3	1.02	45.6	76.1
ALCESTER		2-6	2E	SI	55	63.0	NA	NA	75.0	NA	NA	NA	3.4	0.54	24.1	76.0
HOUDEK		0-2	1	SI	102	73.0	NA	NA	77.0	23.0	59.0	27.0	3.2	0.64	28.6	75.9
BEOTIA		0-2	2C	SI	55	68.0	NA	37.0	74.0	19.0	NA	NA	2.8	0.54	24.1	75.8
WENTWORTH		6-9	3E	SI	102	71.0	NA	NA	73.0	NA	62.0	28.0	3.4	0.64	28.6	75.7
WAUBAY		2-6	2E	SI	102	73.0	NA	NA	81.0	19.0	NA	27.0	3.3	0.63	28.2	75.6
HORD		0-2	2C	SI	55	63.0	43.0	NA	71.0	NA	NA	NA	2.7	0.54	24.1	75.6
SINGSAAS		0-2	1	SI	102	77.0	NA	NA	77.0	21.0	NA	27.0	3.0	0.68	30.4	75.6
PROSPER		0-2	2C	OV	55	68.0	NA	36.0	71.0	18.0	67.0	NA	3.0	1.09	48.7	75.6
HALL		0-2	1	SI	102	70.0	NA	NA	73.0	22.0	NA	28.0	3.2	0.68	30.4	75.4
FLANDREAU		0-2	2S	SI	102	72.0	NA	NA	75.0	22.0	63.0	28.0	3.0	0.68	30.4	75.2
GARDENA		0-2	2C	SI	55	65.0	NA	37.0	74.0	18.0	NA	NA	2.9	0.50	22.3	74.9
ALCESTER		6-9	3E	SI	102	78.0	NA	NA	71.0	18.0	70.0	26.0	3.3	0.65	29.0	74.8

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
NORA		0-2	1	SI	102	70.0	NA NA	67.0	21.0	NA	28.0	3.5	0.68	30.4	74.7
AASTAD		2-6	2E	SI	102	73.0	NA NA	81.0	22.0	NA	22.0	3.2	0.68	30.4	74.7
ONAWA	DF	0-2	2W	OV	102	75.0	NA NA	57.0	NA	65.0	28.0	3.6	1.33	59.4	74.7
HALL		0-2	2C	SI	55	65.0	NA NA	70.0	NA	70.0	NA	3.0	0.54	24.1	74.5
SINAI		0-2	2S	CY	102	73.0	NA NA	76.0	23.0	NA	24.0	3.0	0.68	30.4	74.4
BONILLA		0-2	2C	OV	55	64.0	NA 37.0	73.0	19.0	63.0	NA	2.7	1.02	45.6	74.3
AASTAD		2-6	2E	SI	55	65.0	NA 36.0	71.0	18.0	NA	NA	3.0	0.64	28.6	74.2
OAK LAKE		2-6	2E	SI	102	78.0	NA NA	75.0	20.0	NA	26.0	3.0	0.68	30.4	74.2
LAPRAIRIE		0-2	2C	OV	55	57.0	NA 33.0	75.0	19.0	NA	NA	3.3	1.02	45.6	74.0
CLARNO		2-6	2E	SI	102	72.0	NA NA	75.0	23.0	54.0	27.0	3.1	0.65	29.0	73.9
VIENNA		0-2	1	SI	102	73.0	NA NA	81.0	19.0	NA	27.0	2.9	0.68	30.4	73.8
BON		0-2	2C	OV	53	51.0	38.0 31.0	69.0	NA	63.0	NA	3.1	1.02	45.6	73.2
BEOTIA		2-6	2E	SI	55	65.0	NA 36.0	72.0	18.0	NA	NA	2.7	0.50	22.3	73.0
HUNTIMER		0-2	2S	CY	102	73.0	NA NA	76.0	NA	NA	24.0	3.0	0.72	32.2	72.9
GREAT BEND		0-2	1	SI	102	70.0	NA NA	73.0	21.0	NA	27.0	2.9	0.63	28.2	72.8
NUTLEY		0-2	2S	CY	102	71.0	NA NA	76.0	22.0	NA	23.0	2.9	0.68	30.4	72.3
ESTELLINE		0-2	2S	SI	102	67.0	NA NA	80.0	21.0	NA	26.0	2.7	0.68	30.4	72.3
HIGHMORE		2-6	2E	SI	102	70.0	NA NA	74.0	22.0	NA	22.0	3.1	0.61	27.3	72.1
POINSETT		2-6	2E	SI	102	71.0	NA NA	82.0	19.0	NA	24.0	2.9	0.59	26.4	72.1
HOUDEK		2-6	2E	SI	102	70.0	NA NA	74.0	22.0	56.0	24.0	3.1	0.61	27.3	71.9
MC COOK		0-2	2C	OV	55	60.0	36.0 NA	65.0	NA	62.0	NA	3.1	0.94	42.0	71.9
EGAN		6-9	3E	SI	102	69.0	NA NA	67.0	NA	61.0	26.0	3.2	0.61	27.3	71.8
MOODY		6-9	3E	SI	102	71.0	NA NA	67.0	17.0	66.0	24.0	3.6	0.61	27.3	71.8
KRANZBURG		2-6	2E	SI	102	76.0	NA NA	77.0	18.0	NA	24.0	3.0	0.63	28.2	71.8
NORA		2-6	2E	SI	102	67.0	NA NA	62.0	19.0	65.0	27.0	3.4	0.63	28.2	71.7
DORAN		0-2	2S	CY	102	68.0	NA 30.0	76.0	17.0	NA	28.0	2.9	0.72	32.2	71.6
BONILLA		2-6	2E	SI	55	60.0	NA 34.0	72.0	18.0	63.0	NA	2.7	0.57	25.5	71.6
MOODY	E	2-6	3E	SI	102	71.0	NA NA	52.0	18.0	73.0	28.0	3.3	0.61	27.3	71.5
PERCIVAL		0-2	2W	CY	102	70.0	NA NA	58.0	NA	65.0	28.0	3.1	0.68	30.4	71.5
WANN		0-2	3W	SB	102	66.0	NA NA	76.0	17.0	56.0	27.0	3.5	1.48	66.1	71.5
LESHARA		0-2	2W	SB	66	61.0	37.0 NA	61.0	NA	NA	NA	3.1	1.60	71.5	71.3
LAMO	DF	0-2	2W	SB	55	58.0	NA 29.0	66.0	18.0	68.0	NA	3.2	1.35	60.3	70.9
SVEA		2-6	2E	SI	55	49.0	NA 36.0	67.0	18.0	NA	NA	3.2	0.57	25.5	70.9
CLAMO	DF	0-2	2W	SB	102	70.0	NA NA	56.0	18.0	56.0	29.0	3.7	1.35	60.3	70.7
ONITA		0-2	2C	OV	55	57.0	NA 29.0	70.0	19.0	67.0	NA	2.9	0.94	42.0	70.7
GRABLE		0-2	2S	SI	102	70.0	NA NA	60.0	NA	65.0	28.0	2.8	0.68	30.4	70.6
HOMME		0-2	1	SI	102	66.0	NA NA	69.0	NA	54.0	28.0	3.1	0.63	28.2	70.5
LAMOURE	DF	0-2	2W	SB	102	66.0	NA NA	71.0	18.0	NA	28.0	3.0	1.35	60.3	70.4
CORSON		0-2	2S	CY	102	73.0	NA NA	65.0	NA	57.0	24.0	3.2	0.70	31.3	70.3
DEMPSTER		2-6	3S	SI	102	67.0	NA NA	74.0	18.0	53.0	29.0	3.0	0.61	27.3	70.2

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED "SOIL RATING" IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE 8. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17	
PROSPER		2-6	2E	SI	55	64.0	NA	32.0	66.0	17.0	63.0	NA	2.8	0.54	24.1	70.1
ARNEGARD		0-2	2C	OV	53	50.0	NA	31.0	69.0	20.0	NA	NA	3.1	0.94	42.0	69.9
GRASSNA		0-2	2C	OV	53	51.0	NA	31.0	68.0	20.0	NA	NA	3.1	0.91	40.7	69.9
VIENNA		2-6	2E	SI	102	71.0	NA	NA	77.0	18.0	NA	24.0	2.8	0.63	28.2	69.8
EGAN	E	2-6	3E	SI	102	69.0	NA	NA	67.0	18.0	60.0	26.0	3.1	0.62	27.7	69.8
SINGSAAS		2-6	2E	SI	102	70.0	NA	NA	75.0	18.0	NA	24.0	2.9	0.63	28.2	69.6
HARMONY		0-2	2S	CY	102	60.0	NA	NA	66.0	22.0	NA	NA	2.8	0.66	29.5	69.5
FORMAN		0-2	1	SI	102	71.0	NA	NA	77.0	19.0	NA	22.0	2.8	0.68	30.4	69.5
HEIMDAL		0-2	1	SI	102	72.0	NA	NA	71.0	19.0	NA	24.0	2.8	0.61	27.3	69.4
STICKNEY		0-2	2S	CY	102	66.0	NA	NA	63.0	22.0	48.0	28.0	3.1	0.64	28.6	69.3
RENNER		6-9	3E	SI	102	NA	NA	NA	NA	NA	NA	NA	3.0	0.61	27.3	69.3
BONILLA		0-2	2C	OV	53	58.0	NA	31.0	68.0	19.0	62.0	NA	2.6	0.89	39.8	69.2
HUNTIMER		2-6	3E	CY	102	69.0	NA	NA	73.0	NA	NA	22.0	2.9	0.72	32.2	69.1
SINAI		2-6	3E	CY	102	69.0	NA	NA	73.0	19.0	NA	22.0	2.9	0.64	28.6	68.6
BARNES		0-2	1	SI	102	68.0	NA	NA	76.0	19.0	NA	22.0	2.8	0.64	28.6	68.6
LEOTA	DF	0-2	2W	OV	102	61.0	NA	NA	71.0	19.0	NA	NA	2.8	1.30	58.1	68.6
ESTELLINE		2-6	3S	SI	102	66.0	NA	NA	77.0	19.0	NA	24.0	2.6	0.63	28.2	68.5
BOMBELLS		0-2	2C	OV	55	50.0	NA	33.0	71.0	19.0	NA	NA	2.6	0.97	43.3	68.4
LOWRY		0-2	1	SI	102	66.0	NA	NA	67.0	19.0	NA	27.0	2.7	0.64	28.6	68.3
EMRICK		0-2	2E	SI	55	56.0	NA	32.0	67.0	19.0	NA	NA	2.6	0.47	21.0	68.2
GREAT BEND		2-6	2E	SI	102	67.0	NA	NA	72.0	19.0	NA	23.0	2.8	0.57	25.5	68.0
CLARNO		0-2	2C	SI	55	60.0	NA	NA	67.0	19.0	58.0	NA	2.9	0.54	24.1	67.9
POINSETT		0-2	2C	SI	55	63.0	NA	28.0	70.0	17.0	NA	NA	2.8	0.54	24.1	67.9
KRANZBURG		0-2	2C	SI	55	63.0	NA	28.0	70.0	17.0	NA	NA	2.8	0.54	24.1	67.9
GARDENA		2-6	2E	SI	55	59.0	NA	34.0	68.0	15.0	NA	NA	2.7	0.47	21.0	67.8
FORMAN		0-2	2C	SI	55	60.0	NA	30.0	68.0	18.0	NA	NA	2.6	0.57	25.5	67.6
FLANDREAU		2-6	3S	SI	102	70.0	NA	NA	67.0	19.0	59.0	22.0	2.8	0.63	28.2	67.5
SOLOMON	DF	0-2	3W	WL	102	59.0	NA	NA	NA	NA	23.0	3.5	1.10	49.2	67.2	67.2
HOUDEK		0-2	2C	SI	55	63.0	NA	28.0	68.0	17.0	58.0	NA	2.7	0.52	23.2	67.2
LAPRAIRIE		2-6	2E	SI	55	53.0	NA	29.0	66.0	17.0	NA	NA	3.2	0.61	27.3	67.2
BEADLE		0-2	2S	CY	102	61.0	NA	NA	67.0	18.0	54.0	26.0	3.1	0.66	29.5	67.2
ONITA		0-2	2C	OV	53	50.0	NA	29.0	63.0	19.0	63.0	NA	2.8	0.97	43.3	67.0
NUTLEY		2-6	3E	CY	102	68.0	NA	NA	74.0	18.0	NA	21.0	2.8	0.64	28.6	67.0
GLYNDON		0-2	2E	SI	55	57.0	NA	33.0	68.0	15.0	NA	NA	2.7	0.54	24.1	66.8
ONITA		0-2	2C	OV	63	46.0	42.0	NA	60.0	NA	58.0	NA	2.5	0.85	38.0	66.8
HIDEWOOD	DF	0-2	2W	OV	102	61.0	NA	NA	74.0	16.0	NA	NA	2.8	1.13	50.5	66.8
PEEVER		0-2	2S	CY	102	64.0	NA	NA	71.0	19.0	NA	22.0	2.8	0.68	30.4	66.7
SINAI		0-2	2S	CY	55	56.0	NA	27.0	67.0	19.0	NA	NA	2.8	0.54	24.1	66.6
GOSHEN		0-2	2C	OV	63	46.0	45.0	NA	54.0	NA	NA	NA	2.5	0.94	42.0	66.4
WITTEN		0-2	3S	CY	63	42.0	45.0	NA	60.0	NA	60.0	NA	2.2	0.48	21.4	66.4

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
PEEVER		0-2	2S	CY	55	55.0	NA	33.0	63.0	17.0	NA	NA	2.6	0.56	25.0	66.3
GRAIL		0-2	2C	OV	54	48.0	NA	31.0	64.0	NA	NA	NA	2.8	0.80	35.7	66.2
LUDDEN	DF	0-2	2W	OV	102	61.0	NA	32.0	70.0	13.0	NA	NA	2.7	1.05	46.9	66.2
BOWBELLS		0-2	2C	OV	53	51.0	NA	31.0	67.0	19.0	NA	NA	2.5	0.91	40.7	66.2
ARNEGARD		2-6	2E	SI	53	46.0	NA	28.0	66.0	19.0	NA	NA	3.1	0.52	23.2	66.2
AGAR		0-2	2C	SI	55	52.0	38.0	27.0	62.0	21.0	55.0	NA	2.1	0.54	24.1	66.2
ECKMAN		0-2	1	SI	102	66.0	NA	NA	71.0	19.0	NA	21.0	2.7	0.68	30.4	66.1
LAMOURE	DF	0-2	2W	SB	55	57.0	NA	31.0	64.0	16.0	NA	NA	2.8	1.31	58.5	66.1
LANE		0-2	2S	CY	55	53.0	NA	28.0	70.0	18.0	54.0	NA	2.8	0.60	26.8	66.0
BEARDEN		0-2	2E	SI	55	57.0	NA	32.0	65.0	16.0	NA	NA	2.6	0.52	23.2	65.9
VETAL		0-2	3E	SY	66	53.0	NA	40.0	55.0	NA	47.0	NA	2.4	0.48	21.4	65.9
NORA	E	2-6	3E	SI	102	61.0	NA	NA	54.0	18.0	57.0	26.0	3.2	0.61	27.3	65.8
BARNES		0-2	2C	SI	55	58.0	NA	29.0	66.0	18.0	NA	NA	2.5	0.54	24.1	65.8
HARMONY		0-2	2S	CY	55	52.0	NA	32.0	63.0	17.0	NA	NA	2.7	0.52	23.2	65.6
FORMAN		2-6	2E	SI	102	66.0	NA	NA	74.0	18.0	NA	20.0	2.7	0.63	28.2	65.6
LOWRY		2-6	2E	SI	102	64.0	NA	NA	64.0	18.0	NA	26.0	2.6	0.61	27.3	65.5
BONILLA		2-6	2E	SI	53	57.0	NA	28.0	66.0	18.0	59.0	NA	2.4	0.47	21.0	65.4
HAND		0-2	1	SI	102	55.0	NA	27.0	68.0	NA	55.0	NA	2.6	0.54	24.1	65.4
GRAIL		0-2	2C	OV	53	48.0	NA	31.0	63.0	18.0	NA	NA	2.8	0.91	40.7	65.4
KRANZBURG	E	2-6	3E	SI	102	70.0	NA	NA	72.0	17.0	NA	21.0	2.6	0.60	26.8	65.3
GRASSNA		2-6	2E	SI	53	44.0	NA	28.0	66.0	19.0	NA	NA	3.0	0.50	22.3	65.3
BEARDEN		0-2	2E	SI	102	63.0	NA	NA	72.0	19.0	NA	19.0	2.8	0.66	29.5	65.1
SINGSAAS		6-9	3E	SI	102	64.0	NA	NA	72.0	NA	NA	20.0	2.7	0.61	27.3	65.1
PARNELL	DF	0-2	3W	WL	102	62.0	NA	NA	67.0	16.0	NA	NA	2.8	1.00	44.7	65.1
TETONKA	DF	0-2	2W	WL	102	61.0	NA	NA	62.0	17.0	47.0	26.0	3.3	0.95	42.4	65.1
GREAT BEND		0-2	2C	SI	55	57.0	NA	29.0	67.0	17.0	NA	NA	2.5	0.50	22.3	65.1
BARNES		2-6	2E	SI	102	62.0	NA	NA	73.0	18.0	NA	20.0	2.8	0.61	27.3	65.0
BEOTIA		6-9	3E	SI	102	63.0	NA	NA	75.0	19.0	NA	19.0	2.6	0.60	26.8	64.9
LAMO	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.45	64.8	64.8
HARMONY		2-6	3E	CY	102	58.0	NA	NA	62.0	19.0	NA	NA	2.7	0.60	26.8	64.7
VOLGA	DF	0-2	2W	SB	102	62.0	NA	NA	65.0	13.0	NA	27.0	3.1	1.30	58.1	64.6
ONITA		2-6	2E	SI	55	46.0	NA	26.0	65.0	18.0	64.0	NA	2.7	0.57	25.5	64.6
BARNES		2-6	2E	SI	55	57.0	NA	28.0	64.0	18.0	NA	NA	2.5	0.50	22.3	64.6
BEOTIA		6-9	3E	SI	55	NA	NA	29.0	62.0	16.0	NA	NA	2.6	0.47	21.0	64.6
BEADLE		0-2	2S	CY	55	54.0	NA	31.0	57.0	17.0	54.0	NA	2.8	0.58	25.9	64.5
KEYA		0-2	2C	OV	66	50.0	41.0	NA	55.0	NA	57.0	NA	2.2	0.94	42.0	64.5
POINSETT		2-6	2E	SI	55	60.0	NA	27.0	65.0	16.0	NA	NA	2.7	0.52	23.2	64.5
KRANZBURG		2-6	2E	SI	55	60.0	NA	27.0	65.0	16.0	NA	NA	2.7	0.52	23.2	64.5
KRANZBURG		6-9	3E	SI	102	67.0	NA	NA	72.0	16.0	NA	21.0	2.7	0.60	26.8	64.4
FRAM		0-2	2E	SI	102	62.0	NA	NA	72.0	15.0	NA	NA	2.6	0.59	26.4	64.4

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** COLUMN NUMBER

APPENDIX TABLE 8. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
LAMO	DF	0-2	2W	SB	66	53.0	33.0 NA	58.0	NA	NA	NA	2.8	1.33	59.4	64.4
CLARNO	E	2-6	3E	SI	102	64.0	NA NA	57.0	21.0	48.0	23.0	2.9	0.61	27.3	64.4
NUTLEY		0-2	2S	CY	55	53.0	NA 27.0	66.0	17.0	NA	NA	2.8	0.54	24.1	64.4
ARVESON	DNF	0-2	5W	SB	102	NA	NA NA	NA	NA	NA	NA	NA	1.44	64.3	64.3
NORA		6-9	3E	SI	102	58.0	NA NA	52.0	18.0	56.0	26.0	3.1	0.61	27.3	64.3
TONKA	DF	0-2	2W	WL	102	NA	NA NA	62.0	16.0	NA	23.0	3.2	0.90	40.2	64.2
POINSETT		6-9	3E	SI	102	62.0	NA NA	77.0	17.0	NA	19.0	2.7	0.55	24.6	64.2
HOUDEK		2-6	2E	SI	55	60.0	NA 27.0	65.0	16.0	55.0	NA	2.6	0.48	21.4	64.2
WORTHING	DF	0-2	3W	WL	102	62.0	NA NA	67.0	17.0	47.0	24.0	3.0	0.95	42.4	64.2
STICKNEY		2-6	3E	CY	102	60.0	NA NA	59.0	19.0	46.0	26.0	3.0	0.61	27.3	64.2
LUTON	DF	0-2	3W	WL	102	64.0	NA NA	63.0	12.0	47.0	29.0	3.3	1.00	44.7	64.1
CLARNO		6-9	3E	SI	102	64.0	NA NA	67.0	18.0	48.0	22.0	2.9	0.61	27.3	64.1
VIENNA	E	2-6	3E	SI	102	61.0	NA NA	75.0	17.0	NA	20.0	2.7	0.61	27.3	64.0
WAKONDA		0-2	2E	SI	102	66.0	NA NA	67.0	NA	53.0	21.0	2.6	1.07	47.8	64.0
HATTIE		2-6	3E	CY	102	62.0	NA NA	65.0	16.0	NA	NA	2.7	0.59	26.4	64.0
LANE		0-2	2S	CY	53	51.0	NA 28.0	65.0	18.0	50.0	NA	2.8	0.56	25.0	64.0
CORSON		2-6	3E	CY	102	63.0	NA NA	62.0	NA	54.0	20.0	3.0	0.62	27.7	63.8
HEIMDAL		2-6	2E	SI	102	67.0	NA NA	67.0	17.0	NA	22.0	2.5	0.59	26.4	63.6
CLARNO		2-6	2E	SI	55	58.0	NA NA	64.0	16.0	55.0	NA	2.8	0.52	23.2	63.6
HOMME		2-6	2E	SI	102	61.0	NA NA	64.0	NA	48.0	24.0	2.8	0.59	26.4	63.5
ALBATON	DF	0-2	3W	CY	102	68.0	NA NA	50.0	13.0	NA	27.0	3.3	1.13	50.5	63.5
BOWBELLS		2-6	2E	SI	55	46.0	NA 30.0	65.0	18.0	NA	NA	2.5	0.57	25.5	63.5
EGAN	E	6-9	4E	SI	102	57.0	NA NA	59.0	NA	54.0	NA	2.8	0.60	26.8	63.5
GLYNDON		0-2	2E	SI	102	67.0	NA NA	72.0	16.0	NA	18.0	2.8	0.63	28.2	63.4
FORMAN		2-6	2E	SI	55	58.0	NA 27.0	66.0	16.0	NA	NA	2.5	0.54	24.1	63.3
SINAI		6-9	3E	CY	102	57.0	NA NA	72.0	NA	NA	20.0	2.7	0.61	27.3	63.3
PEEVER		2-6	3E	CY	55	53.0	NA 31.0	61.0	16.0	NA	NA	2.5	0.56	25.0	63.2
LAMO	DF	0-2	2W	SB	53	56.0	NA 27.0	64.0	15.0	NA	NA	2.8	1.30	58.1	63.2
ECKMAN		2-6	2E	SI	102	64.0	NA NA	67.0	18.0	NA	20.0	2.6	0.63	28.2	63.1
LANE		2-6	3E	CY	55	51.0	NA 26.0	65.0	17.0	53.0	NA	2.8	0.56	25.0	63.1
DOVRAY		0-2	2W	CY	102	62.0	NA NA	67.0	16.0	NA	19.0	3.1	1.19	53.2	63.1
ECKMAN		0-2	2E	SI	55	54.0	NA 28.0	67.0	17.0	NA	NA	2.3	0.57	25.5	63.0
MOODY	E	6-9	4E	SI	102	61.0	NA NA	49.0	NA	60.0	22.0	3.0	0.57	25.5	63.0
PEEVER		2-6	3E	CY	102	63.0	NA NA	68.0	17.0	NA	20.0	2.7	0.65	29.0	62.9
HOUDEK		6-9	3E	SI	102	61.0	NA NA	73.0	16.0	47.0	20.0	3.0	0.58	25.9	62.8
VETAL		2-6	3E	SY	66	51.0	NA 37.0	54.0	NA	45.0	NA	2.3	0.45	20.1	62.8
HIGHMORE		0-2	2C	SI	55	53.0	NA 27.0	64.0	18.0	57.0	NA	2.2	0.55	24.6	62.8
AGAR		2-6	2E	SI	55	50.0	35.0 26.0	60.0	19.0	54.0	NA	2.0	0.50	22.3	62.7
EAKIN		0-2	2C	SI	55	50.0	35.0 26.0	60.0	18.0	55.0	NA	2.1	0.55	24.6	62.7
OLDHAM	DF	0-2	2W	OV	102	54.0	NA NA	69.0	15.0	NA	NA	2.8	1.13	50.5	62.7

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
REE		0-2	2C	SI	55	48.0	38.0	26.0	61.0	NA	54.0	NA	1.9	0.55	24.6	62.6
BALTIC	DF	0-2	3W	WL	102	61.0	NA	NA	65.0	16.0	47.0	23.0	3.0	0.90	40.2	62.6
COLVIN	DF	0-2	2W	SB	102	59.0	NA	NA	68.0	17.0	NA	21.0	2.7	1.37	61.2	62.6
HEIMDAL		0-2	2E	SI	55	55.0	NA	28.0	62.0	17.0	NA	NA	2.4	0.50	22.3	62.6
MARYSLAND	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.40	62.6	62.6
GREAT BEND		2-6	2E	SI	55	55.0	NA	28.0	65.0	16.0	NA	NA	2.4	0.47	21.0	62.5
MARYSLAND	DF	0-2	2W	SB	102	59.0	NA	NA	67.0	16.0	NA	20.0	3.0	1.40	62.6	62.5
GRAIL		2-6	2E	SI	54	46.0	NA	29.0	59.0	NA	NA	NA	2.7	0.48	21.4	62.5
TUTHILL-SIL		0-2	2C	SI	66	44.0	NA	40.0	52.0	NA	55.0	NA	1.8	0.45	20.1	62.4
HAND		2-6	2E	SI	102	52.0	NA	25.0	65.0	NA	54.0	NA	2.5	0.50	22.3	62.4
RENNER		9-15	4E	SI	102	NA	NA	NA	NA	NA	NA	NA	2.7	0.59	26.4	62.4
SHINDLER		2-6	3E	SI	102	57.0	NA	NA	64.0	NA	51.0	21.0	2.9	0.66	29.5	62.3
KEYA		0-2	2C	OV	63	48.0	39.0	NA	53.0	NA	55.0	NA	2.2	0.91	40.7	62.3
LA MOURE	DF	0-2	2W	SB	53	54.0	NA	26.0	63.0	16.0	NA	NA	2.7	1.27	56.7	62.2
SINAI		2-6	3E	CY	55	53.0	NA	25.0	64.0	16.0	NA	NA	2.8	0.50	22.3	62.2
BEADLE		2-6	3E	CY	55	50.0	NA	29.0	55.0	17.0	52.0	NA	2.8	0.54	24.1	62.2
VIENNA		6-9	3E	SI	102	61.0	NA	NA	72.0	16.0	NA	19.0	2.7	0.61	27.3	62.2
EMBDEN		0-2	3S	SY	102	66.0	NA	NA	65.0	18.0	NA	19.0	2.5	0.70	31.3	62.2
BOWBELLS		2-6	2E	SI	53	47.0	NA	28.0	64.0	18.0	NA	NA	2.4	0.54	24.1	62.0
ONITA		2-6	2E	SI	53	45.0	NA	26.0	58.0	18.0	60.0	NA	2.6	0.54	24.1	62.0
GOSHEN		2-6	2E	SI	63	43.0	42.0	NA	51.0	NA	NA	NA	2.3	0.45	20.1	61.9
ARNEGARD		0-2	2C	OV	54	40.0	37.0	30.0	55.0	NA	NA	NA	2.1	0.83	37.1	61.9
NUTLEY		6-9	3E	CY	102	57.0	NA	NA	67.0	NA	NA	20.0	2.7	0.61	27.3	61.9
RELANCE		0-2	2C	SI	63	46.0	39.0	NA	50.0	NA	53.0	NA	2.4	0.41	18.3	61.6
HAMERLY		0-2	2E	SI	55	55.0	NA	28.0	65.0	14.0	NA	NA	2.5	0.52	23.2	61.6
HAND		0-2	2C	SI	55	51.0	NA	26.0	64.0	16.0	55.0	NA	2.5	0.52	23.2	61.6
DUROC		0-2	2C	SI	64	42.0	46.0	NA	52.0	NA	49.0	NA	2.0	0.37	16.5	61.5
CLAMO	DF	0-2	2W	SB	55	53.0	NA	26.0	51.0	17.0	56.0	NA	2.8	1.25	55.9	61.5
HAMAR		0-2	4W	SB	102	59.0	NA	NA	64.0	15.0	NA	NA	2.6	1.35	60.3	61.4
HATTIE		6-9	3E	CY	102	60.0	NA	NA	63.0	15.0	NA	NA	2.6	0.56	25.0	61.4
HAMERLY		0-2	2E	SI	102	63.0	NA	NA	72.0	15.0	NA	18.0	2.7	0.64	28.6	61.4
HAMERLY		2-6	3E	SI	102	61.0	NA	NA	67.0	14.0	NA	NA	2.5	0.59	26.4	61.3
HARMONY		2-6	3E	CY	55	49.0	NA	28.0	59.0	16.0	NA	NA	2.7	0.46	20.6	61.3
MOODY		9-15	4E	SI	102	54.0	NA	NA	52.0	NA	NA	NA	3.0	0.57	25.5	61.3
ANTLER		0-2	2E	SI	102	62.0	NA	NA	71.0	16.0	NA	20.0	2.4	0.59	26.4	61.3
SINAI		9-15	4E	CY	102	52.0	NA	NA	60.0	NA	NA	NA	2.7	0.59	26.4	61.2
COLVIN	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.37	61.2	61.2
ECKMAN		2-6	2E	SI	55	53.0	NA	28.0	63.0	16.0	NA	NA	2.3	0.57	25.5	61.2
KEYA		2-6	2E	SI	66	46.0	40.0	NA	52.0	NA	55.0	NA	2.0	0.48	21.4	61.1
PARNELL	DF	0-2	3W	WL	55	51.0	NA	NA	61.0	16.0	NA	NA	2.9	0.85	38.0	61.1

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APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
ETHAN		2-6	3E	SI	102	57.0	NA	NA	64.0	18.0	44.0	21.0	2.9	0.66	29.5	61.1
GLENHAM		0-2	2C	SI	55	51.0	NA	28.0	58.0	NA	53.0	NA	2.3	0.54	24.1	61.0
GRAIL		2-6	2E	SI	53	45.0	NA	28.0	58.0	17.0	NA	NA	2.7	0.52	23.2	61.0
BEADLE		2-6	3E	CY	102	59.0	NA	NA	63.0	16.0	48.0	22.0	2.8	0.62	27.7	60.9
MUNJOR		0-2	3E	OV	55	45.0	40.0	NA	52.0	NA	47.0	NA	2.4	0.97	43.3	60.9
KEYA		0-2	2C	OV	64	46.0	41.0	NA	52.0	NA	52.0	NA	2.0	0.90	40.2	60.9
PAKA		0-2	2C	SI	66	44.0	40.0	NA	52.0	NA	55.0	NA	2.0	0.45	20.1	60.7
KRANZBURG	E	6-9	4E	SI	102	60.0	NA	NA	59.0	NA	NA	NA	2.3	0.55	24.6	60.6
CROFTON		2-6	3E	TU	102	54.0	NA	NA	58.0	19.0	53.0	20.0	2.7	0.55	24.6	60.6
CRESBARD		0-2	2S	CY	102	57.0	NA	NA	59.0	17.0	NA	20.0	2.9	0.66	29.5	60.6
ONITA		2-6	2E	SI	63	40.0	38.0	NA	55.0	NA	55.0	NA	2.2	0.43	19.2	60.6
LEOTA	DF	0-2	2W	OV	55	48.0	NA	26.0	64.0	15.0	NA	NA	2.7	1.12	50.0	60.5
EAKIN		2-6	2E	SI	55	48.0	34.0	25.0	58.0	17.0	54.0	NA	2.0	0.53	23.7	60.4
FRAM		0-2	2E	SI	55	53.0	NA	27.0	64.0	14.0	NA	NA	2.5	0.48	21.4	60.4
NUTLEY		2-6	3E	CY	55	50.0	NA	24.0	64.0	15.0	NA	NA	2.8	0.50	22.3	60.4
VIENNA	E	6-9	4E	SI	102	54.0	NA	NA	62.0	NA	NA	NA	2.4	0.59	26.4	60.4
BLENDON		0-2	3S	SY	102	67.0	NA	NA	60.0	17.0	50.0	20.0	2.4	0.64	28.6	60.3
BADUS	DF	0-2	2W	OV	102	60.0	NA	NA	62.0	16.0	43.0	23.0	2.8	1.10	49.2	60.3
LAMO	DNF	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	NA	NA	1.35	60.3	60.3
LANOURE	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.35	60.3	60.3
CLAMO	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.35	60.3	60.3
LOUP		0-2	5W	SB	66	NA	NA	NA	NA	NA	NA	NA	NA	1.35	60.3	60.3
TABLE MOUNTAIN		0-2	2C	SI	62	35.0	41.0	30.0	39.0	NA	NA	NA	2.3	0.56	25.0	60.0
ENET		0-2	2S	SI	102	54.0	NA	NA	62.0	17.0	41.0	27.0	2.5	0.68	30.4	60.0
BEADLE	E	0-2	3E	CY	102	59.0	NA	NA	59.0	16.0	49.0	22.0	2.7	0.59	26.4	60.0
FLANDREAU	E	2-6	4E	SI	102	55.0	NA	NA	62.0	17.0	53.0	NA	2.2	0.61	27.3	59.9
DEMKY		0-2	3S	CY	55	48.0	36.0	25.0	51.0	NA	45.0	NA	2.4	0.56	25.0	59.8
COLVIN	DF	0-2	2W	SB	55	NA	NA	25.0	59.0	15.0	NA	NA	2.5	1.26	56.3	59.7
DAVISON		0-2	2E	SI	102	62.0	NA	NA	67.0	15.0	49.0	18.0	2.7	0.68	30.4	59.7
ST. ONGE		0-2	3C	OV	61	33.0	41.0	31.0	39.0	NA	NA	NA	2.2	0.69	30.8	59.6
FORMAN		6-9	3E	SI	102	59.0	NA	NA	69.0	16.0	NA	17.0	2.6	0.60	26.8	59.6
AGAR		0-2	2C	SI	53	43.0	32.0	27.0	60.0	17.0	49.0	NA	2.1	0.50	22.3	59.6
KEYA		2-6	2E	SI	63	47.0	37.0	NA	51.0	NA	54.0	NA	2.0	0.43	19.2	59.6
SINAI		6-9	4E	CY	55	48.0	NA	23.0	60.0	NA	NA	NA	2.7	0.48	21.4	59.5
LAMO	DNF	0-2	4W	SB	66	NA	NA	NA	NA	NA	NA	NA	NA	1.33	59.4	59.4
LAMO	HWT	0-2	4W	SB	66	NA	NA	NA	NA	NA	NA	NA	NA	1.33	59.4	59.4
ONAWA	DNF	0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.33	59.4	59.4
TIFFANY		0-2	3W	SB	102	51.0	NA	NA	56.0	15.0	NA	NA	3.0	1.47	65.7	59.4
FLANDREAU		6-9	4E	SI	102	57.0	NA	NA	60.0	NA	51.0	NA	2.2	0.61	27.3	59.4
PARNELL	DF	0-2	3W	WL	53	53.0	NA	NA	55.0	16.0	NA	NA	2.8	0.80	35.7	59.4

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
HIGHMORE		2-6	2E	SI	55	51.0	NA	25.0	61.0	17.0	55.0	NA	2.0	0.55	24.6	59.3
ESTELLINE		6-9	4E	SI	102	53.0	NA	NA	68.0	16.0	NA	20.0	2.5	0.61	27.3	59.2
TUTHILL-SIL		2-6	2E	SI	66	42.0	NA	38.0	50.0	NA	53.0	NA	1.6	0.43	19.2	59.2
HAND		2-6	2E	SI	55	49.0	NA	24.0	61.0	15.0	54.0	NA	2.5	0.48	21.4	59.1
SINGSAAS		9-15	4E	SI	102	52.0	NA	NA	58.0	NA	NA	NA	2.5	0.59	26.4	59.0
GLENHAM		2-6	2E	SI	55	48.0	NA	27.0	56.0	NA	51.0	NA	2.3	0.51	22.8	58.9
LANE		2-6	3E	CY	53	46.0	NA	25.0	62.0	16.0	48.0	NA	2.6	0.52	23.2	58.9
TABLE MOUNTAIN		0-2	3C	SI	61	34.0	40.0	30.0	39.0	NA	NA	NA	2.2	0.40	17.9	58.9
PEEVER		6-9	3E	CY	102	54.0	NA	NA	58.0	NA	NA	NA	2.4	0.62	27.7	58.9
HEIMDAL		2-6	2E	SI	55	51.0	NA	26.0	59.0	16.0	NA	NA	2.3	0.48	21.4	58.9
RELIANCE		2-6	2E	SI	63	43.0	37.0	NA	48.0	NA	51.0	NA	2.3	0.38	17.0	58.7
BARNES	E	2-6	3E	SI	102	59.0	NA	NA	65.0	16.0	NA	17.0	2.6	0.57	25.5	58.7
BARNES		6-9	3E	SI	55	49.0	NA	26.0	58.0	16.0	NA	NA	2.4	0.47	21.0	58.7
ABERDEEN		0-2	3S	CY	55	42.0	NA	31.0	51.0	16.0	NA	NA	2.5	0.58	25.9	58.7
REE		2-6	2E	SI	55	47.0	36.0	NA	55.0	NA	52.0	NA	1.8	0.51	22.8	58.6
ABERDEEN		0-2	2S	CY	102	54.0	NA	NA	56.0	18.0	NA	19.0	2.7	0.66	29.5	58.5
LAMOURE	DNF	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	NA	NA	1.31	58.5	58.5
LAMOURE	HWT	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	NA	NA	1.31	58.5	58.5
ORWET		0-2	4W	SB	65	NA	NA	NA	NA	NA	NA	NA	NA	1.31	58.5	58.5
BORUP	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.31	58.5	58.5
MILLBORO		0-2	3S	CY	63	38.0	40.0	NA	52.0	NA	51.0	NA	2.0	0.46	20.6	58.5
CROFTON		6-15	4E	TU	102	50.0	NA	NA	55.0	18.0	49.0	NA	2.5	0.50	22.3	58.5
GLENHAM		0-2	2C	SI	53	39.0	35.0	26.0	56.0	NA	47.0	NA	2.1	0.50	22.3	58.4
TONKA	DF	0-2	2W	CD	55	NA	NA	25.0	51.0	16.0	NA	NA	2.5	0.80	35.7	58.4
DUROC		2-6	2E	SI	64	40.0	44.0	NA	49.0	NA	48.0	NA	1.8	0.34	15.2	58.4
DEMPSTER		6-9	4E	SI	102	55.0	NA	NA	57.0	14.0	46.0	24.0	2.8	0.59	26.4	58.4
STICKNEY		0-2	3S	CY	55	51.0	NA	NA	53.0	17.0	48.0	NA	2.7	0.56	25.0	58.2
NUTLEY		9-15	4E	CY	102	51.0	NA	NA	57.0	NA	NA	NA	2.5	0.59	26.4	58.2
LOUP		0-2	5W	SB	65	NA	NA	NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
LEOTA	DNF	0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
VOLGA	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
LAMO	DNF	0-2	4W	SB	53	NA	NA	NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
LOUP		0-2	5W	SB	64	NA	NA	NA	NA	NA	NA	NA	NA	1.30	58.1	58.1
SWENODA		0-2	3S	SY	102	55.0	NA	NA	59.0	18.0	NA	20.0	2.3	0.60	26.8	58.1
NUTLEY		6-9	4E	CY	55	46.0	NA	22.0	59.0	NA	NA	NA	2.7	0.48	21.4	58.0
LUDDEN	DF	0-2	2W	OV	55	51.0	NA	24.0	51.0	16.0	NA	NA	2.7	0.91	40.7	57.9
TETONKA	DF	0-2	2W	CD	55	51.0	NA	24.0	51.0	16.0	49.0	NA	2.7	0.90	40.2	57.9
TABLE MOUNTAIN		2-6	2E	SI	62	33.0	38.0	32.0	37.0	NA	NA	NA	2.1	0.52	23.2	57.9
CASS		0-2	3E	SY	55	42.0	32.0	NA	49.0	NA	NA	NA	2.7	0.90	40.2	57.9
EMBDEN		0-2	3E	SY	55	53.0	NA	28.0	52.0	16.0	NA	NA	2.1	0.55	24.6	57.9

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17		
CRESBARD		2-6	3E	CY	102	54.0	NA	NA	57.0	16.0	NA	19.0	2.8	0.62	27.7	57.8
HOMME		6-9	3E	SI	102	53.0	NA	NA	56.0	NA	43.0	NA	2.7	0.55	24.6	57.8
BORUP	DF	0-2	2W	SB	102	57.0	NA	NA	59.0	13.0	NA	NA	2.6	1.31	58.5	57.8
POINSETT		6-9	3E	SI	55	NA	NA	NA	NA	NA	NA	NA	2.5	0.50	22.3	57.7
KRANZBURG		6-9	3E	SI	55	NA	NA	NA	NA	NA	NA	NA	2.5	0.49	21.9	57.7
ABERDEEN		2-6	3E	CY	102	52.0	NA	NA	54.0	16.0	NA	NA	2.6	0.62	27.7	57.7
AGAR		0-2	2C	SI	63	39.0	35.0	26.0	54.0	NA	49.0	NA	1.9	0.43	19.2	57.7
CRESBARD		0-2	3S	CY	55	48.0	NA	27.0	55.0	15.0	NA	NA	2.4	0.54	24.1	57.6
REE		0-2	2C	SI	53	39.0	35.0	25.0	57.0	NA	48.0	NA	1.9	0.52	23.2	57.6
PAKA		2-6	2E	SI	66	42.0	38.0	NA	50.0	NA	53.0	NA	1.8	0.43	19.2	57.6
LOWRY		6-9	3E	SI	102	57.0	NA	NA	58.0	15.0	NA	NA	2.3	0.55	24.6	57.5
GREAT BEND		6-9	3E	SI	102	55.0	NA	NA	64.0	15.0	NA	18.0	2.6	0.54	24.1	57.5
SAVO		0-2	2C	SI	63	44.0	37.0	NA	49.0	NA	45.0	NA	2.2	0.41	18.3	57.3
HAMERLY		2-6	3E	SI	55	50.0	NA	26.0	62.0	13.0	NA	NA	2.3	0.48	21.4	57.2
BARNES	E	6-9	4E	SI	102	51.0	NA	NA	56.0	NA	NA	NA	2.4	0.54	24.1	57.1
HOUDEK		6-9	3E	SI	55	53.0	NA	25.0	58.0	13.0	47.0	NA	2.5	0.45	20.1	57.1
WAKONDA	S	0-2	3W	SB	102	59.0	NA	NA	56.0	NA	43.0	NA	2.3	1.20	53.6	57.1
BEADLE		6-9	3E	CY	102	52.0	NA	NA	54.0	NA	43.0	NA	2.7	0.59	26.4	57.0
TETONKA	DF	2-6	2W	CD	53	NA	NA	24.0	50.0	16.0	NA	NA	2.4	0.85	38.0	56.9
CLARNO		6-9	3E	SI	55	49.0	NA	NA	54.0	NA	47.0	NA	2.6	0.47	21.0	56.8
STRAW		0-2	2C	SI	54	35.0	34.0	29.0	51.0	NA	NA	NA	1.8	0.35	15.6	56.7
VALLERS	DNF	0-2	4W	SB	102	NA	NA	NA	NA	NA	NA	NA	NA	1.27	56.7	56.7
LAMOURE	HWT	0-2	4W	SB	53	NA	NA	NA	NA	NA	NA	NA	NA	1.27	56.7	56.7
LAMOURE	DNF	0-2	4W	SB	53	NA	NA	NA	NA	NA	NA	NA	NA	1.27	56.7	56.7
EMBDEN		2-6	3E	SY	102	61.0	NA	NA	58.0	16.0	NA	18.0	2.3	0.64	28.6	56.7
SWINT		0-2	3C	SI	61	31.0	39.0	30.0	36.0	NA	NA	NA	2.1	0.34	15.2	56.7
NORA	E	6-9	4E	SI	102	49.0	NA	NA	48.0	NA	49.0	22.0	2.8	0.53	23.7	56.7
HIGHMORE		0-2	2C	SI	53	38.0	NA	26.0	60.0	17.0	50.0	NA	2.1	0.52	23.2	56.6
KEYA		2-6	2E	SI	64	43.0	39.0	NA	49.0	NA	49.0	NA	1.7	0.40	17.9	56.6
TIFFANY		0-2	3W	SB	55	NA	NA	21.0	51.0	NA	NA	NA	2.6	1.39	62.1	56.6
KEITH		0-2	2C	SI	64	37.0	45.0	NA	49.0	NA	43.0	NA	1.7	0.40	17.9	56.6
FORMAN		6-9	3E	SI	55	49.0	NA	25.0	60.0	13.0	NA	NA	2.4	0.51	22.8	56.5
WANN		0-2	3W	SB	66	50.0	NA	NA	47.0	NA	NA	NA	2.8	1.35	60.3	56.5
HENKIN		0-2	3S	SY	102	57.0	NA	NA	54.0	17.0	45.0	19.0	2.5	0.68	30.4	56.5
BARNES		6-9	3E	SI	102	54.0	NA	NA	65.0	15.0	NA	16.0	2.6	0.57	25.5	56.4
GREAT BEND		9-15	4E	SI	102	NA	NA	NA	52.0	NA	NA	NA	2.4	0.51	22.8	56.4
ECKMAN		6-9	3E	SI	102	51.0	NA	NA	63.0	15.0	NA	19.0	2.5	0.60	26.8	56.4
HAMAR		0-2	4W	SB	55	42.0	NA	24.0	61.0	14.0	NA	NA	2.6	1.25	55.9	56.4
ARNEGARD		2-6	2E	SI	54	36.0	35.0	26.0	51.0	NA	NA	NA	1.9	0.40	17.9	56.3
ECKMAN		9-15	4E	SI	102	NA	NA	NA	56.0	NA	NA	NA	2.2	0.57	25.5	56.3

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

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APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
COLVIN	DNF	0-2	4W	SB	55	NA	NA NA	NA	NA	NA	NA	NA	1.26	56.3	56.3
MC COOK		0-2	2C	OV	63	46.0	NA NA	54.0	NA	50.0	NA	2.5	0.76	34.0	56.3
HAND		6-9	3E	SI	102	45.0	NA NA	60.0	NA	49.0	NA	2.3	0.48	21.4	56.2
DIVIDE		0-2	3S	SI	102	54.0	NA NA	52.0	15.0	NA	NA	2.5	0.63	28.2	56.2
LOWRY		0-2	2E	SI	55	51.0	NA NA	53.0	NA	50.0	NA	2.3	0.50	22.3	56.2
TILFORD		0-2	3C	SI	61	31.0	39.0 29.0	36.0	NA	NA	NA	2.1	0.40	17.9	56.2
VALE		0-2	3C	SI	61	31.0	39.0 29.0	36.0	NA	NA	NA	2.1	0.32	14.3	56.2
TONKA	DF	0-2	2W	CD	53	NA	NA 25.0	50.0	15.0	NA	NA	2.3	0.75	33.5	56.1
RENTILL		0-2	2S	SI	102	54.0	NA NA	62.0	15.0	NA	NA	2.0	0.61	27.3	56.1
CORSON		6-9	3E	CY	102	55.0	NA NA	55.0	NA	NA	16.0	2.8	0.60	26.8	56.1
DAVISON		0-2	2E	SI	55	51.0	NA NA	59.0	15.0	45.0	NA	2.4	0.54	24.1	56.1
DAVISON		2-6	3E	SI	102	61.0	NA NA	62.0	14.0	43.0	17.0	2.6	0.66	29.5	56.0
ELSMERE		0-6	4E	SB	66	NA	NA NA	47.0	NA	NA	NA	2.6	1.30	58.1	56.0
BLENDON		2-6	3E	SY	102	63.0	NA NA	56.0	16.0	46.0	19.0	2.1	0.61	27.3	56.0
AGAR		2-6	2E	SI	53	41.0	30.0 25.0	56.0	16.0	46.0	NA	2.0	0.47	21.0	56.0
SPOTTSWOOD		0-2	2S	OV	102	54.0	NA NA	52.0	16.0	NA	21.0	2.4	1.15	51.4	55.9
GLENHAM	E	0-2	2E	SI	55	48.0	NA 25.0	52.0	NA	50.0	NA	2.1	0.51	22.8	55.9
VALLERS	DF	0-2	2W	SB	102	55.0	NA NA	54.0	13.0	NA	NA	2.6	1.27	56.7	55.9
LAMO	HWT	0-2	4W	SB	64	NA	NA NA	NA	NA	NA	NA	NA	1.25	55.9	55.9
ARVESON	DNF	0-2	5W	SB	55	NA	NA NA	NA	NA	NA	NA	NA	1.25	55.9	55.9
CLAMO	DNF	0-2	4W	SB	55	NA	NA NA	NA	NA	NA	NA	NA	1.25	55.9	55.9
DENKY		2-6	3E	CY	55	45.0	33.0 23.0	49.0	NA	41.0	NA	2.3	0.56	25.0	55.8
KEYA		6-9	3E	SI	66	NA	34.0 NA	46.0	NA	47.0	NA	1.8	0.44	19.7	55.8
WILLIAMS		0-2	2C	SI	53	38.0	NA 27.0	56.0	17.0	NA	NA	2.1	0.48	21.4	55.8
HEIMDAL		6-9	3E	SI	102	60.0	NA NA	60.0	15.0	NA	17.0	2.3	0.57	25.5	55.7
RICHFIELD		0-2	2C	SI	64	36.0	43.0 NA	47.0	NA	46.0	NA	1.7	0.40	17.9	55.7
HATTIE		9-15	4E	CY	102	51.0	NA NA	52.0	NA	NA	NA	2.4	0.53	23.7	55.6
BEARPAW		0-2	2C	CY	53	37.0	NA 27.0	56.0	17.0	NA	NA	2.1	0.50	22.3	55.5
EAKIN		0-2	2C	SI	53	42.0	NA 26.0	57.0	16.0	48.0	NA	2.0	0.50	22.3	55.4
BARNES	E	2-6	3E	SI	55	40.0	NA 26.0	58.0	16.0	NA	NA	2.1	0.47	21.0	55.4
OKREEK		0-2	3S	CY	63	44.0	36.0 NA	53.0	NA	37.0	NA	2.1	0.40	17.9	55.4
LUTON	DF	0-2	3W	WL	55	51.0	NA NA	56.0	11.0	NA	NA	2.9	0.85	38.0	55.3
LAMO	DF	0-2	2W	SB	64	NA	NA NA	50.0	NA	NA	NA	2.4	1.25	55.9	55.3
SHINDLER		6-9	4E	SI	102	50.0	NA NA	53.0	NA	44.0	19.0	2.8	0.62	27.7	55.3
CLARNO	E	6-9	4E	SI	102	54.0	NA NA	53.0	NA	40.0	NA	2.5	0.59	26.4	55.2
STEINAUER		6-9	4E	TU	102	50.0	NA NA	58.0	NA	NA	NA	2.1	0.53	23.7	55.2
CARTHAGE		0-2	3E	SY	55	49.0	NA 25.0	51.0	NA	47.0	NA	2.1	0.52	23.2	55.2
MILLBORD		2-6	3E	CY	63	36.0	37.0 NA	50.0	NA	48.0	NA	1.9	0.38	17.0	55.1
ECKMAN		6-9	3E	SI	55	45.0	NA 26.0	53.0	15.0	NA	NA	2.2	0.54	24.1	55.1
ABERDEEN		2-6	3E	CY	55	40.0	NA 28.0	49.0	15.0	NA	NA	2.4	0.54	24.1	55.1

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT; RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
SWENODA		2-6	3E	SY	102	53.0	NA NA	57.0	17.0	NA	18.0	2.2	0.57	25.5	55.0
TABLE MOUNTAIN		2-6	3E	SI	61	31.0	38.0 28.0	35.0	NA	NA	NA	2.1	0.37	16.5	55.0
LAMO	HWT	0-2	4W	SB	102	41.0	NA NA	47.0	NA	43.0	NA	3.2	1.45	64.8	55.0
GLENHAM		2-6	2E	SI	53	37.0	33.0 24.0	54.0	NA	43.0	NA	2.0	0.48	21.4	54.9
EDGELEY		0-2	2C	SI	55	45.0	NA	27.0	52.0	15.0	NA	2.1	0.48	21.4	54.9
DAWES		2-6	3E	CY	63	NA	42.0 NA	38.0	NA	NA	NA	1.3	0.34	15.2	54.9
STICKNEY		6-9	4E	CY	102	51.0	NA NA	45.0	NA	NA	22.0	2.6	0.57	25.5	54.9
PLAYMOOR		0-2	4W	SB	55	NA	NA NA	45.0	NA	NA	NA	2.6	1.25	55.9	54.9
CRESBARD		2-6	3E	CY	55	45.0	NA 25.0	52.0	15.0	NA	NA	2.3	0.50	22.3	54.9
STICKNEY		2-6	3E	CY	55	48.0	NA NA	49.0	16.0	45.0	NA	2.6	0.54	24.1	54.8
SAVO		2-6	2E	SI	63	41.0	36.0 NA	47.0	NA	43.0	NA	2.1	0.38	17.0	54.8
LOHLER		0-2	2C	OV	54	35.0	34.0 25.0	47.0	NA	NA	NA	2.0	0.80	35.7	54.8
FARLAND		0-2	2C	SI	54	34.0	33.0 28.0	47.0	NA	NA	NA	1.8	0.37	16.5	54.7
PEEVER		6-9	4E	CY	55	43.0	NA 26.0	51.0	NA	NA	NA	2.2	0.52	23.2	54.7
ETHAN		6-9	4E	SI	102	50.0	NA NA	53.0	17.0	37.0	19.0	2.8	0.61	27.3	54.6
AGAR		2-6	2E	SI	63	37.0	33.0 24.0	50.0	NA	47.0	NA	1.9	0.39	17.4	54.6
FORMAN		9-15	4E	SI	102	50.0	NA NA	50.0	NA	NA	NA	2.4	0.58	25.9	54.5
MONDAMIN		0-2	2S	CY	53	38.0	NA 25.0	57.0	17.0	NA	NA	2.0	0.52	23.2	54.5
DAVISON		2-6	3E	SI	55	48.0	NA NA	56.0	NA	42.0	NA	2.4	0.54	24.1	54.4
SARPY		0-2	4E	SB	63	46.0	NA NA	NA	NA	NA	NA	2.6	1.35	60.3	54.4
CLARNO	E	2-6	3E	SI	55	50.0	NA NA	53.0	14.0	47.0	NA	2.4	0.47	21.0	54.3
ESTELLINE		0-2	3S	SI	55	52.0	NA 26.0	54.0	14.0	NA	NA	1.8	0.52	23.2	54.3
SATANTA		0-2	3C	SI	61	NA	33.0 26.0	33.0	NA	NA	NA	1.8	0.35	15.6	54.2
VIENNA		9-15	4E	SI	102	45.0	NA NA	54.0	NA	NA	NA	2.4	0.59	26.4	54.2
BLENDON	E	0-2	3E	SY	102	53.0	NA NA	56.0	16.0	46.0	19.0	2.1	0.60	26.8	54.2
REE		2-6	2E	SI	53	36.0	33.0 23.0	55.0	NA	45.0	NA	1.8	0.52	23.2	54.2
VETAL		0-2	3E	SY	64	40.0	36.0 NA	50.0	NA	40.0	NA	2.0	0.38	17.0	54.1
MAX		0-2	2C	SI	53	37.0	NA 26.0	55.0	16.0	NA	NA	2.1	0.48	21.4	54.1
ULEN		0-2	3S	SY	102	43.0	NA NA	58.0	14.0	NA	NA	2.5	0.66	29.5	54.1
SAVAGE		0-2	2C	CY	54	32.0	32.0 28.0	46.0	NA	NA	NA	1.9	0.33	14.7	54.1
BORUP	DNF	0-2	4W	SB	55	NA	NA NA	NA	NA	NA	NA	NA	1.21	54.1	54.1
ETHAN	E	2-6	4E	SI	102	49.0	NA NA	54.0	17.0	36.0	19.0	2.7	0.61	27.3	54.0
MORTON		0-2	2C	SI	54	34.0	32.0 28.0	48.0	NA	NA	NA	1.7	0.38	17.0	54.0
BEADLE		6-9	4E	CY	55	41.0	NA 26.0	46.0	NA	42.0	NA	2.6	0.51	22.8	54.0
TOWNER		0-2	3S	SY	102	52.0	NA NA	47.0	18.0	NA	19.0	2.2	0.68	30.4	53.8
RELANCE		6-9	3E	SI	63	40.0	34.0 NA	43.0	NA	49.0	NA	2.0	0.36	16.1	53.8
BRYANT		0-2	2C	SI	53	35.0	NA 28.0	53.0	16.0	NA	NA	2.0	0.50	22.3	53.8
SHAMBO		0-2	2C	SI	54	NA	NA 28.0	46.0	NA	NA	NA	1.7	0.35	15.6	53.7
ENET		2-6	3S	SI	102	52.0	NA NA	59.0	15.0	30.0	23.0	2.4	0.64	28.6	53.7
HAVRELOH		0-2	2C	OV	54	35.0	33.0 26.0	46.0	NA	NA	NA	1.8	0.70	31.3	53.7

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17	
VALLERS	DNF	0-2	4W	SB	55	NA	NA	NA	NA	NA	NA	NA	1.20	53.6	53.6	
FARLAND		0-2	2C	SI	53	38.0	NA	25.0	55.0	17.0	NA	1.9	0.47	21.0	53.6	
WOODY		0-2	3E	SY	63	36.0	36.0	NA	47.0	NA	48.0	1.8	0.45	20.1	53.6	
ETHAN		2-6	3E	SI	55	54.0	NA	NA	50.0	16.0	41.0	2.2	0.54	24.1	53.5	
HAND		6-9	3E	SI	55	42.0	NA	NA	57.0	NA	NA	2.3	0.46	20.6	53.5	
VALLERS	DF	0-2	2W	SB	55	NA	NA	24.0	48.0	12.0	NA	2.5	1.20	53.6	53.4	
EMBDEN		2-6	3E	SY	55	50.0	NA	25.0	47.0	15.0	NA	2.0	0.52	23.2	53.4	
KORCHEA		0-2	2C	OV	54	33.0	34.0	25.0	47.0	NA	NA	1.8	0.73	32.6	53.4	
LOWRY		2-6	2E	SI	55	48.0	NA	NA	50.0	NA	48.0	2.2	0.50	22.3	53.4	
GREAT BEND		6-9	3E	SI	55	43.0	NA	24.0	57.0	12.0	NA	2.4	0.44	19.7	53.4	
SPOTTSWOOD		0-2	3S	SI	55	47.0	NA	24.0	51.0	14.0	NA	2.2	0.73	32.6	53.4	
SWENODA		0-2	3E	SY	55	46.0	NA	26.0	48.0	15.0	NA	2.0	0.50	22.3	53.3	
TUTHILL-SIL		6-9	3E	SI	66	38.0	NA	34.0	45.0	NA	47.0	1.5	0.41	18.3	53.3	
CROFTON	E	2-9	4E	TU	102	50.0	NA	NA	55.0	NA	48.0	16.0	0.50	22.3	53.3	
FEDORA		0-2	3W	SB	102	59.0	NA	NA	49.0	14.0	45.0	16.0	2.6	1.35	60.3	53.3
TILFORD		2-6	3E	SI	61	29.0	36.0	28.0	35.0	NA	NA	2.0	0.37	16.5	53.2	
SWINT		2-6	3E	SI	61	29.0	36.0	28.0	35.0	NA	NA	2.0	0.34	15.2	53.2	
VALF		2-6	3E	SI	61	29.0	36.0	28.0	35.0	NA	NA	2.0	0.29	13.0	53.2	
BEADLE	E	2-6	3E	CY	102	53.0	NA	NA	53.0	15.0	41.0	18.0	2.5	0.55	24.6	53.2
CAPUTA		0-2	2C	CY	63	37.0	34.0	26.0	44.0	NA	41.0	NA	1.8	0.42	18.8	53.2
DAWES		0-2	2S	CY	66	NA	35.0	NA	43.0	NA	NA	1.5	0.48	21.4	53.2	
BARNES		9-15	4E	SI	102	50.0	NA	NA	53.0	13.0	NA	2.4	0.54	24.1	53.1	
ENET		0-2	3S	SI	55	45.0	NA	25.0	49.0	16.0	39.0	2.2	0.54	24.1	53.0	
KEYA		6-9	3E	SI	63	NA	32.0	NA	43.0	NA	46.0	1.7	0.41	18.3	53.0	
ARNEGARD		0-2	3C	OV	58	30.0	36.0	24.0	44.0	NA	NA	1.9	0.75	33.5	52.9	
POINSETT		9-15	4E	SI	102	50.0	NA	NA	56.0	13.0	NA	19.0	2.4	0.51	22.8	52.8
GRAIL		6-9	3E	SI	54	43.0	NA	NA	52.0	NA	NA	2.4	0.45	20.1	52.8	
BEARDEN	S	0-2	3W	SB	102	43.0	NA	NA	52.0	NA	NA	2.4	1.17	52.3	52.8	
FARNUF		0-2	2C	SI	54	33.0	33.0	26.0	46.0	NA	NA	1.7	0.35	15.6	52.8	
JANSEN		0-2	3S	SI	66	34.0	35.0	NA	45.0	NA	50.0	1.8	0.45	20.1	52.7	
MUNJOR		0-2	3E	OV	53	38.0	38.0	NA	48.0	NA	38.0	1.8	0.89	39.8	52.7	
HIGHMORE		2-6	2E	SI	53	37.0	NA	24.0	54.0	16.0	46.0	2.0	0.50	22.3	52.7	
WILLIAMS		2-6	2E	SI	53	37.0	NA	26.0	54.0	15.0	NA	2.0	0.45	20.1	52.7	
EDGELEY		2-6	2E	SI	55	42.0	NA	27.0	50.0	14.0	NA	2.0	0.46	20.6	52.7	
BEADLE	F	2-6	4E	CY	55	40.0	NA	26.0	43.0	14.0	45.0	NA	2.5	0.51	22.8	52.6
HENKIN		2-6	3E	SY	102	54.0	NA	NA	52.0	15.0	42.0	18.0	2.3	0.64	28.6	52.6
HIGHMORE		6-9	3E	SI	55	42.0	NA	23.0	56.0	15.0	46.0	1.9	0.52	23.2	52.6	
HENKIN	E	0-2	3E	SY	102	53.0	NA	NA	52.0	15.0	43.0	17.0	2.4	0.64	28.6	52.6
SALMO		0-2	4W	SB	55	NA	NA	NA	45.0	NA	NA	2.4	1.15	51.4	52.6	
NIORBELL		0-2	3S	CY	55	37.0	NA	27.0	53.0	NA	NA	1.9	0.50	22.3	52.5	

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
BEARPAW	2-6	2E	CY	53	36.0	NA	26.0	54.0	15.0	NA	NA	2.0	0.48	21.4	52.5
WOOLLY	0-2	3E	SY	64	33.0	36.0	NA	46.0	NA	47.0	NA	1.8	0.42	18.8	52.5
KADOKA	0-2	2C	SI	66	39.0	39.0	NA	48.0	NA	40.0	NA	1.5	0.47	21.0	52.5
HOUDEK	9-15	4E	SI	102	49.0	NA	NA	50.0	NA	36.0	NA	2.6	0.57	25.5	52.4
OKREEK	2-6	3E	CY	63	41.0	34.0	NA	51.0	NA	34.0	NA	2.0	0.40	17.9	52.2
GRAIL	6-9	3E	SI	53	42.0	NA	NA	51.0	15.0	NA	NA	2.4	0.50	22.3	52.2
RICHFIELD	2-6	2E	SI	64	32.0	41.0	NA	43.0	NA	44.0	NA	1.6	0.40	17.9	52.2
KEITH	2-6	2E	SI	64	31.0	42.0	NA	44.0	NA	42.0	NA	1.6	0.37	16.5	52.2
REE	0-2	2C	SI	63	36.0	35.0	NA	51.0	NA	44.0	NA	1.6	0.45	20.1	52.1
CLARNO	9-15	4E	SI	102	50.0	NA	NA	50.0	NA	36.0	NA	2.5	0.59	26.4	52.1
EAKIN	2-6	2E	SI	53	41.0	NA	24.0	56.0	14.0	45.0	NA	1.9	0.47	21.0	52.1
EAKIN	6-9	3E	SI	55	42.0	NA	23.0	52.0	15.0	47.0	NA	1.9	0.50	22.3	52.1
OKREEK	0-2	3S	CY	66	40.0	36.0	NA	49.0	NA	36.0	NA	1.8	0.40	17.9	52.0
PROMISE	0-2	3S	CY	63	28.0	36.0	24.0	50.0	NA	44.0	NA	1.5	0.42	18.8	52.0
BORUP	DF	2W	SB	55	NA	NA	24.0	37.0	13.0	NA	NA	2.6	1.21	54.1	51.9
LOWRY	0-2	2E	SI	63	36.0	33.0	22.0	49.0	NA	41.0	NA	1.8	0.41	18.3	51.8
STORLA	0-2	3E	SI	102	59.0	NA	NA	48.0	NA	NA	17.0	2.1	0.68	30.4	51.8
CAPUTA	0-2	3C	CY	61	33.0	35.0	26.0	35.0	NA	NA	NA	1.8	0.36	16.1	51.7
KORCHEA	0-2	3C	OV	58	NA	31.0	22.0	41.0	NA	NA	NA	1.6	0.65	29.0	51.7
TEMKIK	0-2	2C	SI	53	32.0	NA	25.0	53.0	16.0	NA	NA	2.0	0.50	22.3	51.6
MAX	2-6	2E	SI	53	35.0	NA	25.0	53.0	15.0	NA	NA	2.0	0.48	21.4	51.6
SATANTA	2-6	3E	SI	61	NA	32.0	24.0	32.0	NA	NA	NA	1.7	0.33	14.7	51.6
LUTON	S	4W	WL	55	NA	NA	NA	41.0	NA	NA	NA	2.5	0.85	38.0	51.5
PAKA	6-9	3E	SI	66	38.0	34.0	NA	45.0	NA	47.0	NA	1.6	0.41	18.3	51.5
FORDVILLE	0-2	2S	SI	102	49.0	NA	NA	55.0	15.0	NA	19.0	1.9	0.61	27.3	51.5
CLARNO	9-15	4E	SI	55	NA	NA	NA	43.0	NA	NA	NA	2.4	0.45	20.1	51.5
MONDAMIN	2-6	3E	CY	53	37.0	NA	23.0	54.0	16.0	NA	NA	1.9	0.50	22.3	51.4
PLAYMOOR	0-2	4W	SB	102	40.0	NA	NA	47.0	NA	NA	NA	2.6	1.31	58.5	51.4
SALMO	0-2	4W	SB	102	40.0	NA	NA	47.0	NA	NA	NA	2.6	1.25	55.9	51.4
WALKE	0-2	3S	CY	53	32.0	33.0	24.0	50.0	NA	39.0	NA	1.7	0.52	23.2	51.4
WHITEWOOD	DNF	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.15	51.4	51.4
HENKIN	0-2	3E	SY	55	48.0	NA	NA	49.0	15.0	47.0	NA	1.9	0.52	23.2	51.4
EGELAND	0-2	3S	SY	102	53.0	NA	NA	53.0	15.0	NA	18.0	1.9	0.70	31.3	51.4
NORA	9-15	4E	SI	102	42.0	NA	NA	40.0	NA	46.0	NA	2.7	0.53	23.7	51.3
BLENDON	0-2	3E	SY	55	50.0	NA	NA	50.0	14.0	45.0	NA	2.0	0.52	23.2	51.3
BRYANT	2-6	2E	SI	53	32.0	NA	27.0	52.0	15.0	NA	NA	1.9	0.47	21.0	51.3
MORTON	2-6	2E	SI	54	32.0	30.0	26.0	46.0	NA	NA	NA	1.7	0.35	15.6	51.3
SARPY	0-2	4S	SB	102	47.0	NA	NA	36.0	NA	37.0	21.0	3.0	1.45	64.8	51.2
EGELAND	0-2	3E	SY	55	47.0	NA	25.0	47.0	14.0	NA	NA	1.8	0.55	24.6	51.2
REGENT	0-2	2C	CY	54	32.0	30.0	28.0	43.0	NA	NA	NA	1.6	0.33	14.7	51.1

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
RALPH		0-2	3C	SI	58	NA	32.0 23.0	39.0	NA	NA	NA	1.4	0.32	14.3	51.1
SAVO		0-2	2C	SI	64	34.0	34.0 NA	45.0	NA	43.0	NA	1.9	0.38	17.0	51.1
RENTILL		2-6	3S	SI	102	52.0	NA NA	56.0	13.0	NA	NA	1.8	0.59	26.4	51.0
VETAL		0-2	4E	SY	61	33.0	35.0 NA	39.0	NA	NA	NA	2.1	0.32	14.3	51.0
BUSE		2-6	3E	TU	102	43.0	NA NA	56.0	15.0	NA	NA	1.9	0.58	25.9	51.0
LANGHEI		2-6	3E	TU	102	43.0	NA NA	56.0	15.0	NA	NA	1.9	0.58	25.9	51.0
RABER		0-2	2C	CY	53	33.0	NA 24.0	49.0	15.0	48.0	NA	2.0	0.52	23.2	50.9
HOUDEK		9-15	4E	SI	55	NA	NA 17.0	49.0	NA	NA	NA	2.4	0.43	19.2	50.9
AGAR		6-9	3E	SI	55	39.0	NA 24.0	49.0	NA	44.0	NA	2.0	0.47	21.0	50.9
OKREEK		0-2	3S	CY	64	39.0	35.0 NA	48.0	NA	35.0	NA	1.8	0.32	14.3	50.9
BONEEK		0-2	3C	SI	61	NA	33.0 22.0	32.0	NA	NA	NA	1.7	0.37	16.5	50.9
PARSHALL		0-2	3E	SY	54	35.0	31.0 23.0	42.0	NA	NA	NA	1.9	0.38	17.0	50.8
LUTON	S	0-2	4W	WL	102	40.0	NA NA	39.0	11.0	NA	24.0	3.0	1.00	44.7	50.8
VIENNA	E	9-15	6E	SI	102	NA	NA NA	NA	NA	NA	NA	2.2	0.57	25.5	50.8
DEMKY		0-2	3S	CY	53	32.0	33.0 23.0	49.0	NA	39.0	NA	1.7	0.52	23.2	50.8
CARTHAGE		2-6	3E	SY	55	46.0	NA 22.0	48.0	NA	44.0	NA	1.9	0.50	22.3	50.7
VALE		6-9	4E	SI	61	NA	31.0 23.0	31.0	NA	NA	NA	1.8	0.27	12.1	50.7
REDSTOE		0-6	3E	TU	102	44.0	NA NA	54.0	15.0	NA	NA	1.9	0.55	24.6	50.7
GLENHAM		6-9	3E	SI	55	39.0	NA 24.0	49.0	NA	41.0	NA	2.1	0.49	21.9	50.7
LOWRY		0-2	2E	SI	53	36.0	NA 24.0	48.0	16.0	42.0	NA	2.0	0.50	22.3	50.7
GLENHAM	E	2-6	3E	SI	55	41.0	NA 22.0	49.0	NA	45.0	NA	2.0	0.50	22.3	50.6
CAPUTA		2-6	2E	CY	63	34.0	33.0 25.0	41.0	NA	39.0	NA	1.7	0.40	17.9	50.5
HIDEWOOD	DNF	0-2	4W	OV	102	NA	NA NA	NA	NA	NA	NA	NA	1.13	50.5	50.5
OLDHAM	DNF	0-2	4W	OV	102	NA	NA NA	NA	NA	NA	NA	NA	1.13	50.5	50.5
FORDVILLE		0-2	3S	SI	55	45.0	NA 25.0	49.0	13.0	NA	NA	1.8	0.48	21.4	50.5
KUBE		0-2	2C	SI	63	37.0	35.0 NA	48.0	NA	NA	NA	1.4	0.41	18.3	50.5
FORMAN		9-15	4E	SI	55	41.0	NA 21.0	47.0	NA	NA	NA	2.3	0.47	21.0	50.4
HECLA		0-2	4S	SA	102	57.0	NA NA	48.0	15.0	NA	13.0	2.3	0.64	28.6	50.4
ELSMERE		0-6	4E	SB	65	NA	NA NA	41.0	NA	NA	NA	2.4	1.20	53.6	50.4
CROFTON		2-6	4E	TU	55	40.0	NA NA	52.0	NA	NA	NA	2.2	0.41	18.3	50.2
FARLAND		2-6	2E	SI	54	31.0	30.0 25.0	44.0	NA	NA	NA	1.7	0.33	14.7	50.1
DORNA		0-2	2E	SI	53	32.0	28.0 22.0	48.0	NA	42.0	NA	2.0	0.47	21.0	50.1
SAVO		0-2	3C	SI	61	NA	32.0 23.0	33.0	NA	NA	NA	1.5	0.35	15.6	50.1
LEOTA	DNF	0-2	4W	OV	55	NA	NA NA	NA	NA	NA	NA	NA	1.12	50.0	50.0
DIVIDE		0-2	3S	SI	55	42.0	NA 23.0	45.0	14.0	NA	NA	2.1	0.50	22.3	50.0
LAMO	HWT	0-2	4W	SB	55	36.0	NA NA	43.0	NA	44.0	NA	2.7	1.35	60.3	50.0
EDGELEY		6-9	3E	SI	55	37.0	NA 25.0	46.0	NA	NA	NA	2.0	0.44	19.7	49.9
TUTHILL		0-2	3E	SY	66	34.0	34.0 NA	47.0	NA	42.0	NA	1.6	0.46	20.6	49.9
CAPUTA		0-2	2C	CY	64	34.0	36.0 NA	44.0	NA	39.0	NA	1.7	0.42	18.8	49.9
WATROUS		0-2	3S	SI	54	34.0	NA 28.0	48.0	NA	NA	NA	1.7	0.39	17.4	49.9

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SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
SWENODA	2-6	3E	SY	55	43.0	NA	24.0	45.0	14.0	NA	NA	1.9	0.47	21.0	49.8
JANSEN	2-6	3E	SI	66	33.0	33.0	NA	42.0	NA	47.0	NA	1.7	0.45	20.1	49.8
MUNJOR	0-2	3E	OV	63	36.0	36.0	NA	47.0	NA	34.0	NA	1.7	0.81	36.2	49.8
PROMISE	2-6	3E	CY	63	26.0	34.0	23.0	48.0	NA	42.0	NA	1.5	0.38	17.0	49.7
KUBE	0-2	2C	SI	64	35.0	35.0	NA	47.0	NA	NA	NA	1.4	0.38	17.0	49.7
FARLAND	2-6	2E	SI	53	36.0	NA	23.0	50.0	15.0	NA	NA	1.9	0.43	19.2	49.6
GREAT BEND	9-15	4E	SI	55	NA	NA	19.0	43.0	NA	NA	NA	2.3	0.41	18.3	49.6
KADOKA	2-6	2E	SI	66	36.0	37.0	NA	46.0	NA	38.0	NA	1.4	0.43	19.2	49.6
SISSETON	2-6	3E	TU	102	43.0	NA	NA	53.0	15.0	NA	NA	1.8	0.53	23.7	49.5
GLENHAM	E 0-2	2E	SI	53	37.0	NA	23.0	50.0	NA	45.0	NA	1.8	0.48	21.4	49.5
MORTON	6-9	3E	SI	54	NA	28.0	23.0	39.0	NA	NA	NA	1.5	0.35	15.6	49.5
LANTRY	2-6	4E	TU	54	NA	28.0	23.0	39.0	NA	NA	NA	1.5	0.34	15.2	49.5
STRAW	0-2	3C	SI	58	31.0	33.0	23.0	42.0	NA	NA	NA	1.6	0.31	13.9	49.5
DAVES	0-2	2S	CY	63	NA	33.0	NA	39.0	NA	NA	NA	1.4	0.38	17.0	49.4
DESART	0-6	4E	SY	54	NA	28.0	25.0	36.0	NA	NA	NA	1.4	0.37	16.5	49.4
REEDER	0-2	2C	SI	54	34.0	NA	28.0	46.0	NA	NA	NA	1.7	0.33	14.7	49.3
NUTLEY	9-15	6E	CY	55	38.0	NA	19.0	48.0	NA	NA	NA	2.4	0.43	19.2	49.2
BACA	0-2	3S	CY	61	NA	31.0	23.0	32.0	NA	NA	NA	1.5	0.37	16.5	49.2
SAVAGE	2-6	2E	CY	54	30.0	30.0	25.0	41.0	NA	NA	NA	1.7	0.30	13.4	49.2
SOLOMON	DNF 0-2	5W	WL	102	NA	NA	NA	NA	NA	NA	NA	NA	1.10	49.2	49.2
BADUS	DNF 0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.10	49.2	49.2
TREMBS	0-2	3E	OV	54	31.0	30.0	24.0	44.0	NA	NA	NA	1.6	0.70	31.3	49.1
WALKE	2-6	3E	CY	53	31.0	32.0	23.0	48.0	NA	36.0	NA	1.6	0.52	23.2	49.1
MAX	6-9	3E	SI	53	NA	NA	23.0	48.0	13.0	NA	NA	1.7	0.46	20.6	49.1
NIOBELL	0-2	3S	CY	53	31.0	NA	24.0	54.0	15.0	NA	NA	1.7	0.46	20.6	49.1
ULEN	0-2	3E	SY	55	37.0	NA	21.0	51.0	13.0	NA	NA	2.2	0.48	21.4	49.0
TEMLIK	2-6	2E	SI	53	31.0	NA	23.0	52.0	15.0	NA	NA	1.9	0.47	21.0	49.0
GRAND	0-2	2W	OV	102	42.0	NA	NA	50.0	13.0	NA	NA	2.2	1.03	46.0	49.0
REE	2-6	2E	SI	63	33.0	33.0	NA	49.0	NA	41.0	NA	1.5	0.42	18.8	49.0
FARNUF	2-6	2E	SI	54	31.0	30.0	25.0	43.0	NA	NA	NA	1.5	0.31	13.9	48.9
OKREEK	2-6	3E	CY	66	38.0	33.0	NA	47.0	NA	34.0	NA	1.7	0.40	17.9	48.9
ARNEGARD	2-6	3E	SI	58	28.0	33.0	22.0	42.0	NA	NA	NA	1.7	0.36	16.1	48.8
MANDAN	0-6	2E	SI	53	34.0	NA	23.0	46.0	15.0	NA	NA	2.0	0.50	22.3	48.8
VETAL	2-6	3E	SY	64	35.0	32.0	NA	45.0	NA	38.0	NA	1.8	0.35	15.6	48.8
AGAR	6-9	3E	SI	53	32.0	26.0	22.0	50.0	NA	39.0	NA	1.9	0.44	19.7	48.7
WOODLY	2-6	3E	SY	63	33.0	31.0	NA	44.0	NA	46.0	NA	1.6	0.41	18.3	48.7
ENET	2-6	3E	SI	55	40.0	NA	22.0	44.0	15.0	37.0	NA	2.1	0.51	22.8	48.6
HECLA	2-6	4S	SA	102	51.0	NA	NA	43.0	12.0	NA	NA	2.2	0.61	27.3	48.6
BLENDON	2-6	3E	SY	55	48.0	NA	NA	48.0	13.0	42.0	NA	1.9	0.50	22.3	48.6
TUTHILL	0-2	3E	SY	63	34.0	33.0	NA	46.0	NA	41.0	NA	1.5	0.45	20.1	48.6

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED "SOIL RATING" IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE 54. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17	
KEYA		6-9	3E	SI	64	35.0	34.0	NA	44.0	NA	42.0	NA	1.4	0.35	15.6	48.5
OKO		0-2	3S	CY	55	32.0	NA	22.0	51.0	15.0	NA	NA	1.9	0.54	24.1	48.5
VANG		0-2	2S	SI	102	45.0	NA	NA	50.0	15.0	NA	17.0	1.9	0.59	26.4	48.5
NIOBELL		2-6	3E	CY	55	32.0	NA	24.0	52.0	NA	NA	NA	1.8	0.50	22.3	48.5
FEDORA		0-2	3W	SB	55	40.0	NA	NA	42.0	NA	40.0	NA	2.5	1.20	53.6	48.4
VERDEL		0-2	3S	CY	63	32.0	32.0	NA	41.0	NA	37.0	NA	2.1	0.46	20.6	48.4
RICHFIELD		0-2	3C	SI	61	NA	33.0	NA	34.0	NA	NA	NA	1.5	0.35	15.6	48.4
REGENT		2-6	2E	CY	54	30.0	29.0	26.0	41.0	NA	NA	NA	1.5	0.30	13.4	48.4
GLENHAM		6-9	3E	SI	53	31.0	29.0	22.0	46.0	NA	36.0	NA	1.9	0.46	20.6	48.3
DAWES		2-6	3E	CY	66	NA	31.0	NA	40.0	NA	NA	NA	1.4	0.44	19.7	48.3
BORUP	S	0-2	4W	SB	102	40.0	NA	NA	49.0	NA	NA	NA	2.1	1.10	49.2	48.3
FORESTBURG		0-2	4E	SY	55	43.0	NA	18.0	46.0	NA	45.0	NA	2.0	0.48	21.4	48.3
LOHMILLER		0-2	3C	OV	61	NA	30.0	21.0	31.0	NA	NA	NA	1.7	0.75	33.5	48.3
ULYSSES		0-2	2C	SI	64	32.0	39.0	NA	40.0	NA	36.0	NA	1.5	0.40	17.9	48.3
DAWES		0-2	2S	CY	64	NA	34.0	NA	39.0	NA	36.0	NA	1.4	0.32	14.3	48.3
BONEEK		2-6	3E	SI	61	NA	31.0	21.0	31.0	NA	NA	NA	1.6	0.33	14.7	48.3
BLENDON	E	0-2	3E	SY	55	46.0	NA	NA	47.0	NA	43.0	NA	1.8	0.48	21.4	48.2
KADOKA		0-2	2C	SI	64	35.0	35.0	NA	46.0	NA	37.0	NA	1.4	0.38	17.0	48.2
OKREEK		6-9	4E	CY	63	NA	32.0	NA	44.0	NA	27.0	NA	1.8	0.37	16.5	48.2
EGELAND		2-6	3E	SY	102	51.0	NA	NA	48.0	14.0	NA	17.0	1.8	0.64	28.6	48.2
EGELAND		2-6	3E	SY	55	45.0	NA	23.0	45.0	13.0	NA	NA	1.7	0.52	23.2	48.1
BETTS		2-6	3E	TU	102	45.0	NA	NA	46.0	15.0	35.0	17.0	2.3	0.48	21.4	48.1
TILFORD		6-9	4E	SI	61	NA	31.0	NA	31.0	NA	NA	NA	1.8	0.34	15.2	48.1
LOWRY		2-6	2E	SI	63	33.0	31.0	20.0	46.0	NA	37.0	NA	1.7	0.38	17.0	48.0
BARNES	E	6-9	4E	SI	55	36.0	NA	22.0	49.0	NA	NA	NA	1.9	0.44	19.7	48.0
WOODLY		2-6	3E	SY	64	32.0	31.0	NA	43.0	NA	45.0	NA	1.6	0.38	17.0	48.0
HAVERSON		0-2	2C	OV	63	32.0	31.0	NA	43.0	NA	39.0	NA	1.9	0.76	34.0	48.0
HENKIN		2-6	3E	SY	55	47.0	NA	NA	45.0	14.0	42.0	NA	1.8	0.48	21.4	47.9
WILLIAMS		6-9	3E	SI	53	32.0	NA	24.0	50.0	NA	NA	NA	1.8	0.43	19.2	47.9
VETAL		0-2	3E	SY	65	NA	NA	NA	47.0	NA	NA	NA	1.9	0.38	17.0	47.9
SAVAGE		6-9	3E	CY	54	NA	27.0	23.0	35.0	NA	NA	NA	1.5	0.30	13.4	47.8
OGALALA		2-6	2E	SI	64	28.0	37.0	NA	41.0	NA	NA	NA	1.5	0.37	16.5	47.8
GLENVIEW		0-2	4E	OV	58	NA	30.0	19.0	36.0	NA	NA	NA	1.6	0.68	30.4	47.8
BLACKPIPE		0-2	3C	SI	60	33.0	33.0	NA	42.0	NA	NA	NA	1.6	0.39	17.4	47.8
AMOR		2-6	2E	SI	54	32.0	29.0	25.0	43.0	NA	NA	NA	1.3	0.35	15.6	47.8
OKREEK		2-6	3E	CY	64	37.0	32.0	NA	46.0	NA	33.0	NA	1.7	0.32	14.3	47.8
HAVRE		0-2	3C	OV	58	35.0	NA	25.0	44.0	NA	NA	NA	1.8	0.63	28.2	47.7
BARNUM		0-2	3C	SI	61	30.0	32.0	NA	40.0	NA	NA	NA	1.9	0.30	13.4	47.6
RABER		2-6	2E	CY	53	32.0	NA	23.0	48.0	12.0	44.0	NA	2.0	0.48	21.4	47.6
SVERDRUP		0-2	3S	SY	102	47.0	NA	NA	44.0	13.0	NA	NA	2.0	0.59	26.4	47.5

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
TOBY	0-2	3E	SY	54	NA	NA	26.0	40.0	NA	NA	NA	1.4	0.35	15.6	47.5
ENET	6-9	4E	SI	102	NA	NA	NA	52.0	NA	31.0	NA	2.1	0.60	26.8	47.5
FORDVILLE	2-6	3S	SI	102	45.0	NA	NA	48.0	13.0	NA	NA	1.9	0.57	25.5	47.5
LOWRY	6-9	3E	SI	55	40.0	NA	NA	47.0	NA	42.0	NA	2.0	0.47	21.0	47.5
ROSEBUD	0-2	2C	SI	64	33.0	40.0	NA	44.0	NA	28.0	NA	1.4	0.40	17.9	47.5
CLARNO	E 6-9	4E	SI	55	46.0	NA	NA	47.0	NA	40.0	NA	1.8	0.45	20.1	47.4
TALLY	0-2	3E	SY	53	43.0	NA	20.0	46.0	15.0	NA	NA	1.6	0.48	21.4	47.3
SAVO	2-6	2E	SI	64	30.0	32.0	NA	41.0	NA	40.0	NA	1.8	0.35	15.6	47.3
DEMKY	2-6	3E	CY	53	31.0	31.0	21.0	46.0	NA	35.0	NA	1.6	0.52	23.2	47.3
CAPUTA	2-6	3E	CY	61	32.0	32.0	23.0	33.0	NA	NA	NA	1.6	0.32	14.3	47.3
KYLE	0-2	4S	CY	61	NA	32.0	NA	33.0	NA	NA	NA	1.5	0.30	13.4	47.3
LINTON	0-6	2E	SI	53	32.0	NA	22.0	45.0	15.0	NA	NA	1.9	0.47	21.0	47.2
OPAL	0-2	3S	CY	63	26.0	35.0	22.0	44.0	NA	35.0	NA	1.4	0.42	18.8	47.2
VEBAR	0-2	3E	SY	54	31.0	29.0	25.0	39.0	NA	NA	NA	1.4	0.38	17.0	47.2
RALPH	2-6	3E	SI	58	NA	29.0	22.0	35.0	NA	NA	NA	1.3	0.29	13.0	47.2
LEFOR	0-2	3E	SY	54	NA	28.0	21.0	39.0	NA	NA	NA	1.3	0.35	15.6	47.1
HECLA	0-2	4E	SA	55	42.0	NA	19.0	45.0	12.0	NA	NA	2.2	0.50	22.3	47.1
BRIDGEPORT	0-2	2C	SI	64	31.0	32.0	NA	39.0	NA	NA	NA	1.8	0.40	17.9	47.0
BOYD	0-2	3S	CY	63	30.0	33.0	NA	44.0	NA	NA	NA	1.5	0.44	19.7	47.0
PARSHALL	2-6	3E	SY	54	33.0	28.0	21.0	39.0	NA	NA	NA	1.8	0.35	15.6	47.0
THURMAN	0-2	4E	SA	55	42.0	NA	NA	44.0	NA	43.0	NA	1.9	0.54	24.1	46.9
DICKEY	0-2	3S	SY	102	47.0	NA	NA	45.0	12.0	NA	NA	2.0	0.70	31.3	46.9
LUDDEN	DNF 0-2	4W	OV	102	NA	NA	NA	NA	NA	NA	NA	NA	1.05	46.9	46.9
REEDER	2-6	2E	SI	54	33.0	NA	26.0	45.0	NA	NA	NA	1.6	0.33	14.7	46.9
VALLERS	S 0-2	4W	SB	102	36.0	NA	NA	49.0	NA	NA	NA	2.1	1.17	52.3	46.9
JAVA	2-6	3E	SI	55	35.0	NA	26.0	41.0	14.0	32.0	NA	2.0	0.50	22.3	46.9
OKO	2-6	3E	CY	55	31.0	NA	21.0	49.0	15.0	NA	NA	1.8	0.54	24.1	46.9
DEMKY	6-9	4E	CY	55	NA	NA	NA	43.0	NA	NA	NA	2.0	0.53	23.7	46.8
BLENDON	E 2-6	4E	SY	102	49.0	NA	NA	50.0	13.0	39.0	16.0	1.8	0.55	24.6	46.8
MILLBORO	6-9	4E	CY	63	31.0	32.0	NA	43.0	NA	39.0	NA	1.6	0.35	15.6	46.8
BUFFINGTON	0-2	2C	SI	63	NA	27.0	NA	45.0	NA	40.0	NA	1.3	0.43	19.2	46.7
KURE	2-6	2E	SI	63	33.0	33.0	NA	44.0	NA	NA	NA	1.3	0.39	17.4	46.6
LOWRY	2-6	2E	SI	53	32.0	NA	22.0	45.0	15.0	37.0	NA	1.9	0.47	21.0	46.6
TUTHILL	2-6	3E	SY	66	31.0	31.0	NA	44.0	NA	41.0	NA	1.5	0.43	19.2	46.6
HIGHMORE	6-9	3E	SI	53	32.0	NA	22.0	50.0	14.0	39.0	NA	1.7	0.48	21.4	46.6
ECKMAN	9-15	4E	SI	55	33.0	NA	23.0	43.0	13.0	NA	NA	2.0	0.50	22.3	46.5
VETAL	2-6	4E	SY	61	31.0	33.0	NA	35.0	NA	NA	NA	1.8	0.29	13.0	46.5
ETHAN	E 2-6	4E	SI	55	40.0	NA	NA	44.0	15.0	38.0	NA	1.9	0.51	22.8	46.5
FIRESTEEL	0-2	3S	SI	102	45.0	NA	NA	50.0	NA	33.0	NA	1.9	0.68	30.4	46.4
ETHAN	6-9	4E	SI	55	40.0	NA	NA	45.0	15.0	35.0	NA	2.0	0.51	22.8	46.4

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APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
O NEILL		0-2	3E	SY	66	33.0	32.0 NA	41.0	NA	NA	NA	1.5	0.46	20.6	46.4
MANTER		0-2	3E	SY	66	33.0	32.0 NA	41.0	NA	NA	NA	1.5	0.46	20.6	46.4
SATANTA		6-9	4E	SI	61	NA	29.0 22.0	28.0	NA	NA	NA	1.5	0.31	13.9	46.4
KUBE		2-6	2E	SI	64	32.0	33.0 NA	44.0	NA	NA	NA	1.3	0.36	16.1	46.4
CAPUTA		2-6	2E	CY	64	32.0	33.0 NA	41.0	NA	36.0	NA	1.6	0.38	17.0	46.3
SAVO		6-9	3E	SI	63	34.0	31.0 NA	41.0	NA	34.0	NA	1.8	0.35	15.6	46.3
OKO		0-2	3S	CY	53	24.0	NA 20.0	50.0	15.0	44.0	NA	1.8	0.50	22.3	46.3
HUGGINS		0-2	3S	CY	66	34.0	33.0 NA	44.0	NA	39.0	NA	1.2	0.54	24.1	46.3
PENO		2-6	3E	CY	55	37.0	NA 19.0	44.0	14.0	NA	NA	2.0	0.54	24.1	46.3
NIOBELL		2-6	3E	CY	53	30.0	NA 22.0	52.0	14.0	NA	NA	1.6	0.46	20.6	46.2
HENKIN		6-9	4E	SY	102	47.0	NA NA	44.0	NA	36.0	NA	1.9	0.61	27.3	46.2
LAMOURE	HWT	0-2	4W	SB	102	NA	NA NA	NA	NA	NA	NA	2.0	1.35	60.3	46.2
ZELL		6-9	4E	TU	102	NA	NA NA	NA	NA	NA	NA	2.0	0.47	21.0	46.2
TABLE MOUNTAIN		6-9	4E	SI	61	NA	NA NA	NA	NA	NA	NA	2.0	0.34	15.2	46.2
LAMO	HWT	0-2	4W	SB	53	NA	NA NA	NA	NA	NA	NA	2.0	1.30	58.1	46.2
TABLE MOUNTAIN		6-9	3E	SI	62	NA	NA NA	NA	NA	NA	NA	2.0	0.47	21.0	46.2
GLENBERG		0-2	3E	OV	66	33.0	29.0 NA	40.0	NA	NA	NA	1.8	0.94	42.0	46.2
EAKIN		6-9	3E	SI	53	38.0	NA 23.0	45.0	NA	38.0	NA	1.6	0.45	20.1	46.0
TUTHILL		0-2	3E	SY	64	32.0	33.0 NA	45.0	NA	35.0	NA	1.4	0.37	16.5	46.0
GRAND	DNF	0-2	4W	OV	102	NA	NA NA	NA	NA	NA	NA	NA	1.03	46.0	46.0
MANNING		0-2	3E	SY	54	NA	27.0 21.0	37.0	NA	NA	NA	1.3	0.35	15.6	46.0
AGAR		6-9	3E	SI	63	30.0	29.0 19.0	44.0	NA	39.0	NA	1.6	0.36	16.1	46.0
SATANTA		0-2	3C	SI	60	NA	30.0 20.0	31.0	NA	NA	NA	1.4	0.31	13.9	45.9
BEARPAW		6-9	3E	CY	53	32.0	NA 23.0	45.0	NA	NA	NA	1.8	0.46	20.6	45.9
EAKIN		9-15	4E	SI	55	NA	NA 20.0	43.0	NA	NA	NA	1.7	0.48	21.4	45.9
HIGHMORE		9-15	4E	SI	55	NA	NA 20.0	43.0	NA	NA	NA	1.7	0.50	22.3	45.9
BUFFINGTON		0-2	2C	SI	64	NA	27.0 NA	42.0	NA	40.0	NA	1.3	0.40	17.9	45.8
MOREAU		2-6	3E	CY	54	NA	NA 24.0	40.0	NA	NA	NA	1.4	0.33	14.7	45.8
MANTER		0-2	4E	SY	61	NA	30.0 NA	35.0	NA	NA	NA	1.4	0.37	16.5	45.8
STORLA		0-2	3S	SI	55	41.0	NA NA	45.0	NA	37.0	NA	2.0	0.54	24.1	45.8
EGELAND	E	0-2	3E	SY	102	50.0	NA NA	47.0	14.0	NA	14.0	1.7	0.64	28.6	45.7
HENKIN	E	2-6	4E	SY	102	47.0	NA NA	45.0	13.0	38.0	16.0	1.9	0.61	27.3	45.7
HAVERSON		0-2	2C	OV	64	31.0	31.0 NA	39.0	NA	34.0	NA	1.9	0.73	32.6	45.7
RIDGEVIEW		0-2	3S	CY	54	26.0	26.0 25.0	43.0	NA	NA	NA	1.4	0.37	16.5	45.7
GLENHAM		9-15	4E	SI	55	NA	NA 19.0	40.0	NA	39.0	NA	1.9	0.47	21.0	45.6
BARNES		9-15	4E	SI	55	40.0	NA 17.0	47.0	12.0	NA	NA	2.1	0.44	19.7	45.6
LANGHEI		6-9	4E	TU	102	40.0	NA NA	50.0	13.0	NA	NA	1.7	0.53	23.7	45.6
BUSE		6-9	4E	TU	102	40.0	NA NA	50.0	13.0	NA	NA	1.7	0.53	23.7	45.6
BOYD		2-6	3E	CY	63	29.0	31.0 NA	42.0	NA	40.0	NA	1.5	0.40	17.9	45.5
VANG		0-2	3S	SI	55	37.0	NA 22.0	46.0	12.0	NA	NA	1.7	0.54	24.1	45.4

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CROFTON		6-9	4E	TU	55	37.0	NA NA	44.0	NA	NA	NA	2.1	0.37	16.5	45.4
HAVERSON		0-2	3C	OV	60	NA	30.0 NA	32.0	NA	NA	NA	1.5	0.70	31.3	45.4
TUTHILL		2-6	3E	SY	63	32.0	31.0 NA	43.0	NA	38.0	NA	1.4	0.41	18.3	45.4
FORDVILLE		2-6	3E	SI	55	38.0	NA 22.0	46.0	11.0	NA	NA	1.8	0.45	20.1	45.4
CHAMA		2-6	3E	SI	54	NA	28.0 21.0	35.0	NA	NA	NA	1.2	0.37	16.5	45.4
OKREEK		6-9	4E	CY	66	NA	30.0 NA	42.0	NA	27.0	NA	1.6	0.38	17.0	45.4
HENKIN	E	0-2	3E	SY	55	40.0	NA NA	44.0	13.0	43.0	NA	1.7	0.48	21.4	45.3
ELPAM	DNF	0-2	4W	SB	55	NA	NA NA	36.0	NA	NA	NA	2.2	1.12	50.0	45.3
SVERDRUP		2-6	3E	SY	102	45.0	NA NA	43.0	12.0	NA	NA	1.9	0.57	25.5	45.3
VETAL		6-9	4E	SY	66	40.0	NA NA	48.0	NA	37.0	NA	1.8	0.39	17.4	45.2
KADOKA		2-6	2E	SI	64	33.0	33.0 NA	44.0	NA	33.0	NA	1.3	0.35	15.6	45.1
BLACKPIPE		2-6	3E	SI	60	32.0	31.0 NA	39.0	NA	NA	NA	1.5	0.37	16.5	45.0
LETCHER		0-2	4E	SY	55	NA	NA 23.0	38.0	NA	NA	NA	1.5	0.48	21.4	45.0
RANSLO	DF	0-2	3W	SB	53	31.0	NA 19.0	46.0	12.0	NA	NA	2.2	1.00	44.7	45.0
AMOR		2-6	3E	SI	58	NA	28.0 22.0	31.0	NA	NA	NA	1.2	0.31	13.9	44.9
REEDER		6-9	3E	SI	54	NA	NA 22.0	40.0	NA	NA	NA	1.5	0.31	13.9	44.9
BACA		2-6	4E	CY	61	NA	28.0 21.0	29.0	NA	NA	NA	1.4	0.33	14.7	44.9
CAPUTA		6-9	3E	CY	63	31.0	30.0 21.0	37.0	NA	33.0	NA	1.6	0.38	17.0	44.9
CASS		0-2	3E	SY	63	32.0	24.0 NA	42.0	NA	NA	NA	2.0	0.75	33.5	44.9
SEN		2-6	3E	SI	54	NA	27.0 21.0	35.0	NA	NA	NA	1.2	0.35	15.6	44.8
SISSETON	E	2-6	4E	TU	102	41.0	NA NA	49.0	NA	NA	NA	1.6	0.51	22.8	44.8
ZELL		2-6	3E	TU	102	35.0	NA 17.0	47.0	13.0	NA	NA	2.0	0.50	22.3	44.8
ULYSSES		2-6	2E	SI	64	30.0	36.0 NA	38.0	NA	34.0	NA	1.3	0.37	16.5	44.7
TOBY		2-6	3E	SY	54	NA	NA 24.0	39.0	NA	NA	NA	1.3	0.35	15.6	44.7
RAUVILLE		0-2	5W	WL	102	NA	NA NA	NA	NA	NA	NA	NA	1.00	44.7	44.7
ALBATON	DNF	0-2	5W	WL	102	NA	NA NA	NA	NA	NA	NA	NA	1.00	44.7	44.7
PARNELL	DNF	0-2	5W	WL	102	NA	NA NA	NA	NA	NA	NA	NA	1.00	44.7	44.7
LUTON	DNF	0-2	5W	WL	102	NA	NA NA	NA	NA	NA	NA	NA	1.00	44.7	44.7
RANSLO	DNF	0-2	5W	SB	53	NA	NA NA	NA	NA	NA	NA	NA	1.00	44.7	44.7
KYLE		2-6	4E	CY	61	NA	30.0 NA	32.0	NA	NA	NA	1.4	0.27	12.1	44.7
EGELAND		6-9	4E	SY	102	47.0	NA NA	44.0	13.0	NA	NA	1.5	0.61	27.3	44.6
MARMARTH		0-2	3C	SI	58	NA	NA 23.0	39.0	NA	NA	NA	1.4	0.32	14.3	44.6
DAWES		2-6	3S	CY	64	NA	31.0 NA	37.0	NA	33.0	NA	1.3	0.28	12.5	44.6
SAVO		0-2	3C	SI	60	NA	28.0 21.0	30.0	NA	NA	NA	1.3	0.32	14.3	44.6
DEMKY		6-9	4E	CY	53	NA	27.0 17.0	39.0	NA	NA	NA	1.4	0.50	22.3	44.6
CANNING		0-2	3S	SI	63	29.0	31.0 NA	47.0	NA	35.0	NA	1.3	0.43	19.2	44.5
HECLA	E	0-2	4E	SA	102	41.0	NA NA	43.0	11.0	NA	NA	2.1	0.61	27.3	44.5
THURMAN		2-6	4E	SA	55	38.0	NA NA	42.0	NA	42.0	NA	1.8	0.52	23.2	44.5
TALLY		2-6	3E	SY	53	42.0	NA 17.0	44.0	14.0	NA	NA	1.6	0.45	20.1	44.5
BUSE	E	2-6	4E	TU	102	40.0	NA NA	50.0	13.0	NA	NA	1.5	0.47	21.0	44.4

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CROFTON	E	2-6	4E	TU	55	33.0	NA NA	45.0	NA	NA	NA	2.1	0.37	16.5	44.4
KEITH		6-9	3E	SI	64	26.0	35.0 NA	39.0	NA	35.0	NA	1.4	0.35	15.6	44.3
REE		6-9	3E	SI	63	30.0	29.0 NA	44.0	NA	36.0	NA	1.5	0.40	17.9	44.3
ALICE		0-2	4E	SY	61	NA	30.0 17.0	30.0	NA	NA	NA	1.5	0.32	14.3	44.3
SAVO		2-6	3E	SI	61	NA	30.0 NA	31.0	NA	NA	NA	1.4	0.32	14.3	44.3
RICHFIELD		2-6	3E	SI	61	NA	30.0 NA	31.0	NA	NA	NA	1.4	0.31	13.9	44.3
WOLF POINT		0-2	3C	OV	58	NA	NA 23.0	36.0	NA	NA	NA	1.5	0.63	28.2	44.3
RABER		6-9	3E	CY	53	30.0	NA 21.0	44.0	NA	39.0	NA	1.8	0.46	20.6	44.3
OKREEK		6-9	4E	CY	64	NA	29.0 NA	41.0	NA	26.0	NA	1.6	0.30	13.4	44.3
OPAL		2-6	3E	CY	63	25.0	31.0 21.0	41.0	NA	33.0	NA	1.4	0.38	17.0	44.2
RICHFIELD		6-9	3E	SI	64	25.0	35.0 NA	38.0	NA	36.0	NA	1.4	0.37	16.5	44.1
DICKEY		2-6	3E	SY	102	44.0	NA NA	43.0	11.0	NA	NA	1.9	0.68	30.4	44.1
TALLY		0-2	4E	SY	58	NA	30.0 19.0	33.0	NA	NA	NA	1.1	0.30	13.4	44.1
AMOR		6-9	3E	SI	54	NA	25.0 21.0	36.0	NA	NA	NA	1.2	0.35	15.6	44.0
KYLE		0-2	3S	CY	63	25.0	30.0 23.0	33.0	NA	37.0	NA	1.4	0.42	18.8	43.9
MANTER		0-2	3E	SY	63	31.0	31.0 NA	38.0	NA	NA	NA	1.4	0.45	20.1	43.9
CAPUTA		6-9	4E	CY	61	NA	28.0 19.0	30.0	NA	NA	NA	1.4	0.32	14.3	43.9
EGELAND	E	0-2	3E	SY	55	41.0	NA 19.0	41.0	13.0	NA	NA	1.6	0.52	23.2	43.9
FORESTBURG		2-6	4E	SY	55	40.0	NA 15.0	43.0	NA	44.0	NA	1.7	0.45	20.1	43.8
DICKEY	E	0-2	3E	SY	102	45.0	NA NA	43.0	11.0	NA	NA	1.8	0.68	30.4	43.8
BELFIELD		0-2	3S	CY	54	24.0	26.0 23.0	41.0	NA	NA	NA	1.4	0.38	17.0	43.8
LEFOR		2-6	3E	SY	54	NA	26.0 20.0	35.0	NA	NA	NA	1.2	0.33	14.7	43.7
RIDGEVIEW		2-6	3E	CY	54	24.0	25.0 24.0	42.0	NA	NA	NA	1.3	0.33	14.7	43.6
VEBAR		0-2	4E	SY	58	NA	29.0 19.0	29.0	NA	NA	NA	1.3	0.34	15.2	43.6
ANSELMO		0-2	3E	SY	66	35.0	NA NA	44.0	NA	36.0	NA	2.0	0.46	20.6	43.6
OKO		2-6	3E	CY	53	23.0	NA 19.0	49.0	14.0	41.0	NA	1.6	0.47	21.0	43.5
AKASKA		0-2	3S	SI	63	30.0	30.0 20.0	33.0	NA	NA	NA	1.4	0.39	17.4	43.5
GLENDIVE		2-6	4E	SY	58	NA	28.0 18.0	33.0	NA	NA	NA	1.3	0.40	17.9	43.5
NAHON		0-2	4S	CP	102	36.0	NA NA	41.0	14.0	NA	NA	1.8	0.48	21.4	43.5
VEBAR		2-6	3E	SY	54	30.0	26.0 23.0	36.0	NA	NA	NA	1.3	0.35	15.6	43.5
VALLERS	S	0-2	4W	SB	55	NA	NA NA	39.0	NA	NA	NA	1.9	1.10	49.2	43.5
BRIDGEPORT		2-6	2E	SI	64	29.0	29.0 NA	36.0	NA	NA	NA	1.7	0.37	16.5	43.4
BUSE		2-6	4E	TU	55	36.0	NA 17.0	44.0	13.0	NA	NA	1.8	0.44	19.7	43.4
BACA		0-2	3S	CY	60	NA	28.0 19.0	28.0	NA	NA	NA	1.4	0.31	13.9	43.3
SATANTA		2-6	3E	SI	60	NA	28.0 19.0	30.0	NA	NA	NA	1.3	0.31	13.9	43.3
SISSETON		6-9	4E	TU	102	40.0	NA NA	47.0	12.0	NA	NA	1.6	0.51	22.8	43.3
BRYANT		6-9	3E	SI	53	30.0	NA 22.0	44.0	NA	NA	NA	1.6	0.44	19.7	43.3
ROSEBUD		2-6	2E	SI	64	30.0	36.0 NA	39.0	NA	27.0	NA	1.3	0.37	16.5	43.3
BORO		2-6	3E	CY	63	29.0	30.0 NA	40.0	NA	34.0	NA	1.5	0.46	20.6	43.2
ANSELMO		0-2	3E	SY	64	31.0	29.0 NA	39.0	NA	35.0	NA	1.5	0.40	17.9	43.2

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
KEITH		0-2	3C	SI	60	26.0	33.0	NA	34.0	NA	NA	NA	1.5	0.36	16.1	43.2
TALLY		2-6	3E	SY	54	NA	NA	24.0	39.0	NA	NA	NA	1.1	0.31	13.9	43.2
TUTHILL		2-6	3E	SY	64	30.0	31.0	NA	41.0	NA	34.0	NA	1.3	0.33	14.7	43.1
HECLA	E	2-6	6E	SA	102	38.0	NA	NA	41.0	11.0	NA	NA	2.1	0.58	25.9	43.1
PARSHALL		0-2	4E	SY	58	NA	23.0	19.0	33.0	NA	NA	NA	1.6	0.30	13.4	43.1
LOHMILLER		2-6	3E	CY	61	NA	26.0	19.0	29.0	NA	NA	NA	1.5	0.37	16.5	43.1
DICKEY		0-2	3E	SY	55	42.0	NA	17.0	39.0	11.0	NA	NA	2.0	0.55	24.6	43.1
BETTS		6-9	4E	TU	102	41.0	NA	NA	43.0	NA	28.0	16.0	2.2	0.48	21.4	43.1
GLENHAM	E	2-6	3E	SI	53	31.0	NA	21.0	45.0	NA	36.0	NA	1.6	0.47	21.0	43.1
PIERRE		0-2	4S	CY	61	NA	25.0	21.0	30.0	NA	NA	NA	1.3	0.35	15.6	42.9
HECLA		2-6	4E	SA	55	39.0	NA	16.0	41.0	11.0	NA	NA	2.1	0.48	21.4	42.9
MANNING		2-6	3E	SY	54	NA	25.0	20.0	34.0	NA	NA	NA	1.2	0.35	15.6	42.8
O NEILL		2-6	3E	SY	66	30.0	30.0	NA	37.0	NA	NA	NA	1.4	0.43	19.2	42.8
MANter		2-6	3E	SY	66	30.0	30.0	NA	37.0	NA	NA	NA	1.4	0.43	19.2	42.8
BOWDLE		0-2	3S	SI	53	30.0	NA	21.0	44.0	15.0	NA	NA	1.2	0.43	19.2	42.8
MITCHELL		0-2	3E	TU	63	33.0	24.0	NA	39.0	NA	35.0	NA	1.8	0.33	14.7	42.8
RHAME		0-2	4E	SY	58	NA	29.0	19.0	28.0	NA	NA	NA	1.2	0.34	15.2	42.7
HIGHMORE		9-15	4E	SI	53	NA	NA	19.0	43.0	NA	NA	NA	1.4	0.46	20.6	42.7
BETTS	E	2-6	4E	TU	102	42.0	NA	NA	43.0	NA	27.0	16.0	2.1	0.48	21.4	42.6
FARLAND		6-9	3E	SI	53	31.0	NA	19.0	43.0	NA	NA	NA	1.8	0.41	18.3	42.5
TALLY		0-2	3E	SY	54	26.0	NA	26.0	40.0	NA	NA	NA	1.4	0.35	15.6	42.5
PROMISE		6-9	4E	CY	63	23.0	29.0	21.0	40.0	NA	33.0	NA	1.3	0.35	15.6	42.5
EGELAND	E	2-6	4E	SY	102	42.0	NA	NA	41.0	13.0	NA	NA	1.5	0.61	27.3	42.5
OKO		6-9	4E	CY	55	NA	NA	17.0	40.0	13.0	NA	NA	1.6	0.51	22.8	42.5
TETONKA	DNF	0-2	4W	WL	102	NA	NA	NA	NA	NA	NA	NA	NA	0.95	42.4	42.4
RAUVILLE		0-2	5W	WL	55	NA	NA	NA	NA	NA	NA	NA	NA	0.95	42.4	42.4
VENLO		0-2	5W	WL	55	NA	NA	NA	NA	NA	NA	NA	NA	0.95	42.4	42.4
WORTHING	DNF	0-2	5W	WL	102	NA	NA	NA	NA	NA	NA	NA	NA	0.95	42.4	42.4
BRIDGEPORT		0-2	3C	SI	60	NA	28.0	NA	30.0	NA	NA	NA	1.4	0.34	15.2	42.4
KADOKA		6-9	3E	SI	66	29.0	33.0	NA	40.0	NA	29.0	NA	1.3	0.40	17.9	42.4
ALTVAN		0-2	3S	SI	63	29.0	31.0	21.0	33.0	NA	28.0	NA	1.4	0.41	18.3	42.4
DUDLEY		0-2	4S	CP	102	36.0	NA	NA	41.0	13.0	32.0	19.0	1.7	0.58	25.9	42.4
ROSEBUD		0-2	3C	SI	60	NA	30.0	NA	30.0	NA	NA	NA	1.2	0.34	15.2	42.4
MONDAMIN		6-9	4E	CY	53	32.0	NA	17.0	48.0	NA	NA	NA	1.7	0.48	21.4	42.3
BUFFINGTON		0-2	3C	SI	61	29.0	29.0	NA	34.0	NA	NA	NA	1.6	0.34	15.2	42.3
ELSMERE		0-6	4E	SB	64	28.0	NA	NA	40.0	NA	NA	NA	2.3	1.05	46.9	42.3
ELPAM	DNF	0-2	4W	SB	53	NA	NA	17.0	34.0	NA	NA	NA	2.0	1.08	48.3	42.3
GLENHAM		9-15	4E	SI	53	NA	26.0	17.0	39.0	NA	28.0	NA	1.5	0.45	20.1	42.3
VELAL		2-6	3E	SY	65	NA	NA	NA	41.0	NA	NA	NA	1.7	0.35	15.6	42.3
MANter		0-2	3E	SY	64	29.0	30.0	NA	36.0	NA	NA	NA	1.4	0.40	17.9	42.3

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
HUGGINS	0-2	3S	CY	64	31.0	31.0 NA	41.0	NA	33.0	NA	1.1	0.37	16.5	42.2
BETTS	2-6	4E	TU	55	36.0	NA 17.0	43.0	14.0	26.0	NA	1.9	0.42	18.8	42.1
MANTER	2-6	4E	SY	61	NA	28.0 NA	31.0	NA	NA	NA	1.3	0.35	15.6	42.0
VIDA	2-6	3E	SI	53	24.0	NA 21.0	39.0	14.0	NA	NA	1.7	0.45	20.1	42.0
STADY	0-2	3S	SI	53	NA	NA 20.0	43.0	12.0	NA	NA	1.2	0.47	21.0	42.0
ULYSSES	0-2	3C	SI	60	NA	29.0 NA	31.0	NA	NA	NA	1.2	0.34	15.2	42.0
OLDHAM	DNF	4W	OV	55	NA	NA NA	NA	NA	NA	NA	NA	0.94	42.0	42.0
SEN	6-9	3E	SI	54	NA	25.0 20.0	33.0	NA	NA	NA	1.1	0.33	14.7	42.0
FARLAND	6-9	3E	SI	54	26.0	25.0 19.0	40.0	NA	NA	NA	1.5	0.31	13.9	42.0
CANNING	0-2	3S	SI	53	28.0	NA 21.0	48.0	12.0	35.0	NA	1.4	0.48	21.4	42.0
DICKEY	2-6	3E	SY	55	39.0	NA 16.0	40.0	NA	NA	NA	1.8	0.55	24.6	41.9
MADDOCK	0-2	4S	SA	102	43.0	NA NA	39.0	12.0	NA	NA	1.6	0.70	31.3	41.9
GLENBERG	0-2	3E	OV	63	32.0	28.0 NA	34.0	NA	31.0	NA	1.7	0.86	38.4	41.8
BLENDON	E	2-6	4E	SY	55	38.0	NA NA	42.0	NA	37.0	1.6	0.45	20.1	41.8
CANNING	2-6	3E	SI	63	26.0	30.0 NA	44.0	NA	33.0	NA	1.2	0.41	18.3	41.8
MOREAU	0-2	3S	CY	58	NA	NA 21.0	36.0	NA	NA	NA	1.4	0.31	13.9	41.8
JAVA	6-9	4E	SI	55	32.0	NA 24.0	39.0	NA	25.0	NA	1.8	0.48	21.4	41.8
KYLE	2-6	3E	CY	63	24.0	29.0 21.0	31.0	NA	35.0	NA	1.4	0.38	17.0	41.8
JAVA	E	2-6	4E	SI	55	33.0	NA 23.0	39.0	NA	28.0	1.7	0.48	21.4	41.8
OKO	6-9	4E	CY	53	NA	NA 17.0	43.0	13.0	34.0	NA	1.4	0.45	20.1	41.8
BONEEK	6-9	4E	SI	61	NA	25.0 20.0	28.0	NA	NA	NA	1.3	0.29	13.0	41.7
REGENT	6-9	3E	CY	54	25.0	25.0 22.0	35.0	NA	NA	NA	1.4	0.27	12.1	41.7
REE	6-9	3E	SI	53	NA	NA NA	40.0	NA	39.0	NA	1.5	0.43	19.2	41.6
CAPUTA	0-2	3C	CY	60	26.0	29.0 21.0	30.0	NA	NA	NA	1.3	0.30	13.4	41.6
RAZOR	0-2	3S	CY	61	NA	28.0 19.0	28.0	NA	NA	NA	1.1	0.37	16.5	41.6
THURMAN	6-9	6E	SA	55	NA	NA NA	NA	NA	NA	NA	1.8	0.50	22.3	41.6
ETHAN	E	6-15	SI	55	NA	NA NA	NA	NA	NA	NA	1.8	0.47	21.0	41.6
MARMARTH	2-6	3E	SI	58	NA	NA 22.0	35.0	NA	NA	NA	1.3	0.31	13.9	41.5
EGELAND	6-9	4E	SY	55	39.0	NA 19.0	40.0	NA	NA	NA	1.4	0.50	22.3	41.5
TEMVIK	6-9	3E	SI	53	28.0	NA 20.0	44.0	NA	NA	NA	1.6	0.44	19.7	41.5
RICHFIELD	0-2	3C	SI	60	25.0	32.0 NA	33.0	NA	NA	NA	1.4	0.34	15.2	41.5
LOHMILLER	0-2	3C	OV	60	NA	28.0 15.0	28.0	NA	NA	NA	1.5	0.63	28.2	41.4
DAHE	0-2	3S	SI	63	29.0	29.0 20.0	41.0	NA	27.0	NA	1.1	0.39	17.4	41.4
HUGGINS	2-6	3E	CY	66	32.0	28.0 NA	39.0	NA	36.0	NA	1.1	0.50	22.3	41.4
TUTHILL	0-2	4E	SY	61	23.0	30.0 NA	36.0	NA	NA	NA	1.5	0.34	15.2	41.3
BORUP	S	0-2	4W	SB	55	NA	NA NA	37.0	NA	NA	1.8	1.05	46.9	41.2
GLENHAM	E	6-9	4E	SI	55	NA	NA NA	41.0	NA	31.0	1.8	0.49	21.9	41.2
GLENBERG	0-2	3E	OV	64	31.0	28.0 NA	34.0	NA	29.0	NA	1.7	0.80	35.7	41.2
CAPUTA	6-9	3E	CY	64	30.0	28.0 NA	38.0	NA	32.0	NA	1.4	0.38	17.0	41.1
HOLT	0-2	3E	SY	64	31.0	29.0 NA	34.0	NA	NA	NA	1.3	0.38	17.0	41.1

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APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
AKASKA	2-6	3E	SI	63	28.0	28.0	19.0	32.0	NA	NA	1.3	0.36	16.1	41.0
BUSE	6-9	4E	TU	55	NA	NA	16.0	39.0	NA	NA	1.7	0.41	18.3	41.0
VETAL	0-2	4E	SY	60	25.0	30.0	NA	31.0	NA	NA	1.6	0.32	14.3	41.0
CHEYENNE	0-2	4S	SI	61	NA	26.0	NA	30.0	NA	NA	1.4	0.29	13.0	41.0
MAX	9-15	4E	SI	53	NA	NA	17.0	43.0	11.0	NA	1.5	0.44	19.7	41.0
PEND	6-9	4E	CY	55	34.0	NA	17.0	39.0	NA	NA	1.8	0.54	24.1	41.0
OGALALA	6-9	3E	SI	64	21.0	32.0	NA	37.0	NA	NA	1.3	0.35	15.6	41.0
BELFIELD	0-2	3S	CY	58	NA	24.0	19.0	31.0	NA	NA	1.2	0.34	15.2	40.8
JAVA	2-6	3E	SI	53	24.0	NA	21.0	39.0	14.0	29.0	1.7	0.47	21.0	40.7
EKALAKA	0-6	4E	SY	58	NA	24.0	18.0	33.0	NA	NA	1.2	0.30	13.4	40.7
LUDDEN	DNF	0-2	4W	OV	55	NA	NA	NA	NA	NA	NA	0.91	40.7	40.7
MACKEN	0-2	6S	CD	53	NA	NA	NA	NA	NA	NA	NA	0.91	40.7	40.7
LANTRY	6-9	4E	TU	54	NA	21.0	20.0	32.0	NA	NA	1.3	0.32	14.3	40.6
MORTON	9-15	4E	SI	54	NA	21.0	20.0	32.0	NA	NA	1.3	0.31	13.9	40.6
HENKIN	6-9	4E	SY	55	40.0	NA	NA	41.0	NA	34.0	1.5	0.45	20.1	40.6
ASCALON	0-2	4E	SY	61	NA	25.0	NA	31.0	NA	NA	1.4	0.35	15.6	40.6
MANTER	2-6	3E	SY	63	29.0	28.0	NA	36.0	NA	NA	1.3	0.41	18.3	40.6
EKALAKA	0-6	4E	SY	54	NA	21.0	19.0	34.0	NA	NA	1.3	0.33	14.7	40.6
BELFIELD	2-6	3E	CY	54	22.0	24.0	21.0	39.0	NA	NA	1.3	0.35	15.6	40.6
AKASKA	0-2	3S	SI	53	31.0	NA	20.0	39.0	NA	35.0	1.5	0.47	21.0	40.5
DELMONT	0-2	3S	SWG	102	35.0	NA	NA	43.0	13.0	28.0	1.7	0.56	25.0	40.5
ROSEBUD	2-6	3E	SI	60	NA	29.0	NA	29.0	NA	NA	1.1	0.31	13.9	40.5
RELANCE	9-15	4E	SI	63	NA	NA	NA	38.0	NA	34.0	1.7	0.32	14.3	40.5
DESART	0-6	4E	SY	58	NA	24.0	18.0	32.0	NA	NA	1.2	0.32	14.3	40.5
TRIPP	0-2	3C	SI	60	23.0	31.0	NA	31.0	NA	NA	1.5	0.32	14.3	40.4
KEITH	2-6	3E	SI	60	22.0	32.0	NA	32.0	NA	NA	1.4	0.32	14.3	40.4
FIRESTEEL	0-2	3S	SI	55	39.0	NA	NA	37.0	NA	32.0	1.8	0.54	24.1	40.4
ZELL	0-2	3E	TU	53	36.0	NA	15.0	39.0	13.0	NA	1.6	0.39	17.4	40.4
KEITH	9-15	4E	SI	64	NA	31.0	NA	29.0	NA	28.0	1.2	0.33	14.7	40.3
ALICE	2-6	4E	SY	61	NA	28.0	15.0	26.0	NA	NA	1.4	0.30	13.4	40.3
TONKA	DNF	0-2	4W	WL	102	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
BENOIT	0-2	5W	WL	102	NA	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
RAUVILLE	0-2	5W	WL	53	NA	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
BALTIC	DNF	0-2	5W	WL	102	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
TETONKA	DNF	0-2	4W	CD	55	NA	NA	NA	NA	NA	NA	0.90	40.2	40.2
CAVOUR	0-6	4S	CP	102	NA	NA	NA	36.0	13.0	NA	1.4	0.48	21.4	40.2
TRIPP	2-6	3E	SI	60	NA	27.0	NA	28.0	NA	NA	1.3	0.32	14.3	40.2
REDSTOE	6-9	4E	TU	102	32.0	NA	NA	45.0	NA	NA	1.6	0.51	22.8	40.2
QAME	0-2	3S	SI	53	30.0	NA	21.0	44.0	12.0	31.0	1.2	0.47	21.0	40.0
GETTYS	2-6	4E	TU	55	37.0	NA	16.0	39.0	NA	30.0	1.8	0.42	18.8	40.0

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
LEHR		0-2	4S	SWG	53	NA	NA 19.0	40.0	12.0	NA	NA	1.1	0.28	12.5	40.0
FORDVILLE		6-9	4E	SI	102	41.0	NA NA	40.0	NA	NA	NA	1.4	0.54	24.1	40.0
LOWRY		6-9	3E	SI	63	30.0	24.0 17.0	41.0	NA	27.0	NA	1.5	0.35	15.6	40.0
HAVERSON		0-2	3C	OV	61	30.0	NA NA	40.0	NA	NA	NA	1.9	0.74	33.1	39.9
RABER		9-15	4E	CY	53	NA	NA 17.0	38.0	NA	NA	NA	1.5	0.43	19.2	39.9
DICKEY	E	0-2	3E	SY	55	36.0	NA 16.0	39.0	11.0	NA	NA	1.7	0.55	24.6	39.9
RALPH		6-9	4E	SI	58	NA	24.0 18.0	32.0	NA	NA	NA	1.1	0.25	11.2	39.9
ANSELMO		0-2	4E	SY	61	NA	25.0 NA	31.0	NA	NA	NA	1.3	0.35	15.6	39.8
MANTER		6-9	4E	SY	66	NA	25.0 NA	31.0	NA	NA	NA	1.3	0.40	17.9	39.8
MOREAU		2-6	4E	CY	58	NA	NA 20.0	35.0	NA	NA	NA	1.3	0.29	13.0	39.8
LOWRY		6-9	3E	SI	53	29.0	NA 20.0	41.0	NA	28.0	NA	1.7	0.44	19.7	39.8
MOREAU		6-9	4E	CY	54	NA	NA 20.0	37.0	NA	NA	NA	1.2	0.31	13.9	39.8
MANVEL		0-2	3E	TU	64	NA	28.0 NA	27.0	NA	NA	NA	1.2	0.34	15.2	39.8
SVERDRUP		6-9	4E	SY	102	36.0	NA NA	38.0	NA	NA	NA	1.7	0.54	24.1	39.8
HEIL		0-2	6S	CD	55	NA	NA NA	NA	NA	NA	NA	NA	0.89	39.8	39.8
HARRIET		0-2	6W	SL	102	NA	NA NA	NA	NA	NA	NA	NA	0.89	39.8	39.8
EAKIN		9-15	4E	SI	53	31.0	NA 20.0	39.0	NA	NA	NA	1.4	0.41	18.3	39.8
PAKA		0-2	2C	SI	65	34.0	NA NA	46.0	NA	NA	NA	1.4	0.37	16.5	39.7
PIERRE		2-6	4E	CY	61	NA	23.0 19.0	29.0	NA	NA	NA	1.2	0.31	13.9	39.7
SULLY		0-2	3E	TU	53	27.0	NA 19.0	37.0	13.0	NA	NA	1.5	0.41	18.3	39.6
TUTHILL		6-9	4E	SY	63	28.0	28.0 NA	37.0	NA	32.0	NA	1.2	0.39	17.4	39.6
TALLY		6-9	4E	SY	53	39.0	NA 15.0	40.0	NA	NA	NA	1.5	0.42	18.8	39.6
PEND		2-6	3E	CY	53	29.0	NA 17.0	39.0	14.0	29.0	NA	1.6	0.50	22.3	39.5
KYLE		0-2	4S	CY	60	NA	23.0 20.0	26.0	NA	NA	NA	1.2	0.34	15.2	39.5
MANTER		2-6	3E	SY	64	28.0	28.0 NA	33.0	NA	NA	NA	1.3	0.37	16.5	39.5
RICHFIELD		6-9	4E	SI	61	NA	26.0 NA	28.0	NA	NA	NA	1.3	0.29	13.0	39.5
KEITH		6-9	4E	SI	60	NA	28.0 NA	26.0	NA	NA	NA	1.2	0.32	14.3	39.4
DICKEY		6-9	4E	SY	102	36.0	NA NA	39.0	NA	NA	NA	1.6	0.65	29.0	39.4
MADDOCK		2-6	4S	SA	102	41.0	NA NA	37.0	11.0	NA	NA	1.5	0.70	31.3	39.4
ANSELMO		2-6	3E	SY	66	33.0	NA NA	39.0	NA	30.0	NA	1.9	0.43	19.2	39.3
MACKEN		0-2	6S	CD	63	NA	NA NA	NA	NA	NA	NA	NA	0.88	39.3	39.3
ULYSSES		6-9	3E	SI	64	25.0	33.0 NA	34.0	NA	27.0	NA	1.2	0.34	15.2	39.3
SULLY		0-2	3E	TU	55	NA	NA NA	NA	NA	NA	NA	1.7	0.42	18.8	39.3
SAVO		6-9	3E	SI	64	26.0	26.0 NA	36.0	NA	31.0	NA	1.5	0.32	14.3	39.2
LINTON		6-9	3E	SI	53	28.0	NA 18.0	38.0	NA	NA	NA	1.7	0.45	20.1	39.2
VEBAR		6-9	4E	SY	54	NA	22.0 19.0	31.0	NA	NA	NA	1.1	0.33	14.7	39.1
NORREST		0-2	3S	CY	64	26.0	29.0 NA	35.0	NA	26.0	NA	1.5	0.33	14.7	39.1
STADY		0-2	3S	SI	54	NA	NA 21.0	37.0	NA	NA	NA	1.0	0.35	15.6	39.1
BUFFINGTON		0-2	3C	SI	60	NA	25.0 NA	29.0	NA	NA	NA	1.3	0.29	13.0	39.1
MITCHELL		0-2	3E	TU	64	28.0	23.0 NA	33.0	NA	NA	NA	1.7	0.31	13.9	39.0

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APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE 1. RANGES DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CANNING		2-6	3E	SI	53	26.0	NA	19.0	45.0	11.0	34.0	NA	1.3	0.48	21.4	39.0
GLENBERG		0-2	4E	OV	61	NA	23.0	12.0	32.0	NA	NA	NA	1.7	0.62	27.7	39.0
WOODLY		6-9	4E	SY	63	NA	NA	NA	37.0	NA	37.0	NA	1.4	0.39	17.4	39.0
RICHFIELD		9-15	4E	SI	64	NA	28.0	NA	29.0	NA	29.0	NA	1.2	0.35	15.6	39.0
ZAHL		2-6	4E	TU	53	NA	NA	15.0	38.0	13.0	NA	NA	1.3	0.37	16.5	38.9
ZAHL		2-6	4E	TU	53	NA	NA	15.0	38.0	13.0	NA	NA	1.3	0.37	16.5	38.9
CHAMA		6-9	3E	SI	54	NA	21.0	19.0	32.0	NA	NA	NA	1.1	0.35	15.6	38.9
BOWDLE		2-6	3E	SI	53	28.0	NA	19.0	41.0	13.0	NA	NA	1.1	0.40	17.9	38.8
DUDLEY		2-6	4S	CP	102	33.0	NA	NA	39.0	NA	30.0	18.0	1.5	0.56	25.0	38.8
TUTHILL		2-6	4E	SY	61	22.0	29.0	NA	32.0	NA	NA	NA	1.4	0.32	14.3	38.8
HENKIN	E	2-6	4E	SY	55	36.0	NA	NA	37.0	NA	35.0	NA	1.5	0.45	20.1	38.7
BRIDGEPORT		2-6	3E	SI	60	NA	25.0	NA	28.0	NA	NA	NA	1.3	0.31	13.9	38.7
RICHFIELD		2-6	3E	SI	60	23.0	30.0	NA	31.0	NA	NA	NA	1.3	0.31	13.9	38.7
SATANTA		6-9	4E	SI	60	NA	25.0	17.0	26.0	NA	NA	NA	1.2	0.29	13.0	38.7
SAVO		2-6	3E	SI	60	NA	26.0	NA	28.0	NA	NA	NA	1.2	0.29	13.0	38.7
CHAMA		2-6	4E	SI	58	NA	24.0	17.0	30.0	NA	NA	NA	1.1	0.32	14.3	38.7
HUGGINS		2-6	3E	CY	64	28.0	29.0	NA	37.0	NA	30.0	NA	1.0	0.33	14.7	38.6
KADOKA		6-9	3E	SI	64	26.0	29.0	NA	39.0	NA	26.0	NA	1.2	0.33	14.7	38.6
ALTVAN		0-2	3S	SI	64	28.0	30.0	NA	35.0	NA	24.0	NA	1.3	0.38	17.0	38.6
WOODLY		6-9	4E	SY	64	NA	NA	NA	37.0	NA	36.0	NA	1.4	0.34	15.2	38.6
ALICE		0-2	4E	SY	60	NA	26.0	15.0	26.0	NA	NA	NA	1.3	0.30	13.4	38.6
EGELAND	E	2-6	4E	SY	55	38.0	NA	16.0	37.0	11.0	NA	NA	1.4	0.50	22.3	38.5
BELFIELD		6-9	4E	CY	54	NA	20.0	18.0	33.0	NA	NA	NA	1.2	0.35	15.6	38.5
DAGLUM		0-2	4S	CP	54	NA	24.0	19.0	31.0	NA	NA	NA	0.8	0.28	12.5	38.5
ANSELMO		2-6	3E	SY	64	28.0	25.0	NA	36.0	NA	30.0	NA	1.4	0.37	16.5	38.5
AKASKA		2-6	3E	SI	53	29.0	NA	19.0	37.0	NA	34.0	NA	1.4	0.43	19.2	38.5
WILLIAMS		9-15	4E	SI	53	28.0	NA	17.0	42.0	NA	NA	NA	1.5	0.41	18.3	38.5
BACA		2-6	4E	CY	60	NA	25.0	17.0	25.0	NA	NA	NA	1.2	0.29	13.0	38.4
MACKEN		0-2	6S	CD	64	NA	NA	NA	NA	NA	NA	NA	NA	0.86	38.4	38.4
NISHON		0-2	4W	CD	53	NA	NA	NA	NA	NA	NA	NA	NA	0.86	38.4	38.4
ALTVAN		2-6	3E	SI	63	26.0	29.0	19.0	30.0	NA	25.0	NA	1.2	0.38	17.0	38.4
KEOTA		2-6	4E	TU	61	NA	NA	24.0	26.0	NA	NA	NA	1.1	0.32	14.3	38.4
PIERRE		0-2	3S	CY	63	23.0	26.0	21.0	31.0	NA	26.0	NA	1.3	0.44	19.7	38.4
PARSHALL		2-6	4E	SY	58	NA	21.0	15.0	31.0	NA	NA	NA	1.5	0.27	12.1	38.3
SULLY		0-2	3E	TU	63	29.0	NA	19.0	38.0	NA	NA	NA	1.4	0.33	14.7	38.3
SAVO		9-15	4E	SI	63	NA	NA	NA	38.0	NA	NA	NA	1.5	0.33	14.7	38.3
DICKEY	E	2-6	4E	SY	102	35.0	NA	NA	37.0	NA	NA	NA	1.6	0.65	29.0	38.3
HOLT		0-2	3E	SY	66	34.0	NA	NA	42.0	NA	NA	NA	1.4	0.46	20.6	38.2
BUSE	E	2-6	4E	TU	55	30.0	NA	16.0	40.0	12.0	NA	NA	1.4	0.41	18.3	38.2
STADY		2-6	3E	SI	53	NA	NA	17.0	41.0	11.0	NA	NA	1.1	0.44	19.7	38.1

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED "SOIL RATING" IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
TETONKA	DNF	0-2	4W	CD	53	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
GANNETT		0-2	5W	WL	64	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
LUTON	DNF	0-2	5W	WL	55	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
GANNETT		0-2	5W	WL	65	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
GAYVILLE		0-2	6W	SL	102	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
PARNELL	DNF	0-2	5W	WL	55	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
REGAN		0-2	5W	WL	53	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
BENOIT		0-2	5W	WL	55	NA	NA	NA	NA	NA	NA	NA	0.85	38.0	38.0
MADDOCK		0-2	4E	SA	55	34.0	NA	16.0	33.0	12.0	NA	1.5	0.54	24.1	38.0
ULYSSES		2-6	3E	SI	60	NA	26.0	NA	28.0	NA	NA	1.1	0.31	13.9	37.9
KADOKA		0-2	3C	SI	60	22.0	29.0	NA	33.0	NA	NA	1.2	0.34	15.2	37.9
HECLA	E	0-2	4E	SA	55	34.0	NA	15.0	37.0	10.0	NA	1.7	0.48	21.4	37.9
CAPUTA		2-6	3E	CY	60	23.0	26.0	20.0	26.0	NA	NA	1.2	0.28	12.5	37.8
BOYD		6-9	4E	CY	63	23.0	28.0	NA	37.0	NA	27.0	1.3	0.38	17.0	37.8
HUGGINS		6-9	4E	CY	66	NA	28.0	NA	34.0	NA	26.0	0.9	0.47	21.0	37.7
MANDAN		6-9	3E	SI	53	29.0	NA	NA	39.0	NA	NA	1.7	0.45	20.1	37.7
FORDVILLE		6-9	4E	SI	55	NA	NA	NA	41.0	NA	NA	1.3	0.40	17.9	37.7
BLACKPIPE		6-9	4E	SI	60	25.0	25.0	NA	33.0	NA	NA	1.4	0.35	15.6	37.6
ZELL		2-6	4E	TU	53	33.0	NA	14.0	37.0	12.0	NA	1.5	0.37	16.5	37.6
CHEYENNE		2-6	4E	SI	61	NA	24.0	NA	29.0	NA	NA	1.2	0.26	11.6	37.6
KADOKA		2-6	3E	SI	60	NA	24.0	NA	31.0	NA	NA	1.1	0.31	13.9	37.6
HEIL		0-2	6S	CD	53	NA	NA	NA	NA	NA	NA	NA	0.84	37.5	37.5
KYLE		2-6	4E	CY	60	NA	22.0	19.0	25.0	NA	NA	1.1	0.31	13.9	37.5
BORO		6-9	4E	CY	63	NA	26.0	NA	34.0	NA	21.0	1.3	0.44	19.7	37.5
COLBY		2-6	4E	TU	61	NA	26.0	15.0	26.0	NA	NA	1.1	0.34	15.2	37.4
MADDOCK	E	0-2	4E	SA	102	38.0	NA	NA	37.0	11.0	NA	1.3	0.70	31.3	37.4
LOHMILLER		2-6	3E	CY	60	NA	25.0	14.0	24.0	NA	NA	1.4	0.32	14.3	37.4
CHEYENNE		0-2	3S	SI	63	28.0	29.0	15.0	32.0	NA	23.0	1.3	0.38	17.0	37.4
BELFIELD		2-6	4E	CY	58	NA	22.0	18.0	29.0	NA	NA	1.0	0.31	13.9	37.4
KUBE		0-2	3C	SI	60	22.0	29.0	NA	31.0	NA	NA	1.2	0.34	15.2	37.3
RAZOR		2-6	4E	CY	61	NA	25.0	17.0	25.0	NA	NA	1.0	0.35	15.6	37.3
MANVEL		0-2	4E	TU	61	NA	25.0	NA	26.0	NA	NA	1.2	0.29	13.0	37.2
ANSELMO		0-2	3E	SY	65	NA	NA	NA	36.0	NA	NA	1.5	0.40	17.9	37.2
MANTER		6-9	4E	SY	63	NA	24.0	NA	30.0	NA	NA	1.1	0.39	17.4	37.2
DAWES		0-2	3S	CY	60	NA	26.0	NA	26.0	NA	NA	1.1	0.32	14.3	37.2
MANTER		0-2	4E	SY	60	NA	24.0	NA	30.0	NA	NA	1.1	0.34	15.2	37.2
PAKA		2-6	2E	SI	65	32.0	NA	NA	43.0	NA	NA	1.3	0.33	14.7	37.1
NORREST		2-6	3E	CY	64	24.0	28.0	NA	33.0	NA	25.0	1.4	0.33	14.7	37.1
VETAL		2-6	4E	SY	60	21.0	28.0	NA	29.0	NA	NA	1.4	0.29	13.0	37.1
OAHE		2-6	3E	SI	63	28.0	25.0	17.0	38.0	NA	25.0	1.0	0.36	16.1	37.1

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
MITCHELL		0-2	4E	TU	60	26.0	23.0	NA	32.0	NA	NA	1.5	0.28	12.5	37.1
ROSEBUD		6-9	3E	SI	64	25.0	32.0	NA	34.0	NA	21.0	1.1	0.35	15.6	37.0
ENET		6-9	4E	SI	55	NA	NA	NA	37.0	NA	28.0	1.6	0.47	21.0	37.0
GLENHAM	E	9-15	6E	SI	55	NA	NA	NA	NA	NA	NA	1.6	0.45	20.1	37.0
BETTS	E	6-15	6E	TU	55	NA	NA	NA	NA	NA	NA	1.6	0.38	17.0	37.0
BARNES	E	9-15	6E	SI	55	NA	NA	NA	NA	NA	NA	1.6	0.41	18.3	37.0
OAHE		2-6	3E	SI	53	28.0	NA	19.0	41.0	11.0	29.0	1.1	0.43	19.2	36.9
ANSELMO		2-6	4E	SY	61	NA	23.0	NA	29.0	NA	NA	1.2	0.35	15.6	36.9
ASCALON		0-2	4E	SY	60	NA	23.0	NA	29.0	NA	NA	1.2	0.30	13.4	36.9
EDGELEY		9-15	4E	SI	55	32.0	NA	NA	36.0	NA	NA	NA	0.42	18.8	36.8
KUBE		2-6	3E	SI	60	NA	24.0	NA	29.0	NA	NA	1.1	0.34	15.2	36.8
ARCHIN		0-2	4S	CP	54	NA	23.0	18.0	31.0	NA	NA	0.7	0.30	13.4	36.7
TUTHILL		6-9	4E	SY	66	NA	NA	NA	37.0	NA	33.0	1.3	0.40	17.9	36.6
MAWER		0-2	4E	SY	61	NA	24.0	15.0	25.0	NA	NA	1.2	0.35	15.6	36.6
OGALALA		2-6	3E	SI	60	19.0	29.0	NA	29.0	NA	NA	1.3	0.32	14.3	36.6
GLENBERG		0-2	4E	OV	60	NA	20.0	NA	30.0	NA	NA	1.4	0.63	28.2	36.6
ANSELMO		0-2	4E	SY	60	NA	23.0	NA	28.0	NA	NA	1.2	0.30	13.4	36.5
TOBY		0-2	4E	SY	58	NA	NA	19.0	30.0	NA	NA	1.2	0.30	13.4	36.4
SULLY		2-6	4E	TU	53	24.0	NA	17.0	35.0	12.0	NA	1.4	0.37	16.5	36.3
OPAL		6-9	4E	CY	63	21.0	26.0	17.0	33.0	NA	24.0	1.3	0.35	15.6	36.3
LIHEN		0-6	4E	SA	54	NA	25.0	14.0	28.0	NA	NA	1.0	0.40	17.9	36.2
MADDOCK		0-2	4E	SA	53	32.0	NA	16.0	32.0	11.0	NA	1.4	0.50	22.3	36.2
ANSELMO		6-9	4E	SY	64	NA	23.0	NA	32.0	NA	26.0	1.2	0.37	16.5	36.1
LEFOR		6-9	4E	SY	54	NA	21.0	16.0	29.0	NA	NA	1.1	0.31	13.9	36.1
TELFER		0-2	4E	SA	53	NA	NA	16.0	32.0	NA	NA	1.4	0.47	21.0	36.1
DICKEY		6-9	4E	SY	55	NA	NA	NA	34.0	NA	NA	1.5	0.51	22.8	36.1
GLENHAM	E	6-9	4E	SI	53	27.0	NA	17.0	39.0	NA	28.0	1.4	0.45	20.1	36.1
ALICE		2-6	4E	SY	60	NA	24.0	14.0	25.0	NA	NA	1.2	0.28	12.5	36.0
ARVILLA		0-2	3S	SWG	102	29.0	NA	NA	36.0	13.0	NA	1.2	0.50	22.3	35.9
REDSTOE		0-2	3S	TU	55	24.0	NA	NA	50.0	NA	20.0	1.7	0.42	18.8	35.9
GETTYS	E	2-6	4E	TU	55	NA	NA	15.0	34.0	NA	26.0	1.6	0.40	17.9	35.8
KYLE		6-9	4E	CY	63	20.0	24.0	17.0	29.0	NA	30.0	1.3	0.35	15.6	35.8
VETAL		6-9	4E	SY	64	28.0	NA	NA	36.0	NA	33.0	1.5	0.31	13.9	35.8
ULYSSES		9-15	4E	SI	64	NA	28.0	NA	28.0	NA	21.0	1.1	0.31	13.9	35.8
PARNELL	DNF	0-2	5W	WL	53	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
REGAN		0-2	5W	WL	54	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
HOVEN		0-2	6S	CD	55	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
TONKA	DNF	0-2	4W	CD	55	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
BENOIT		0-2	5W	WL	53	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
NAPA		0-2	6W	SL	102	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
DIMMICK	0-2	3W	WL	54	NA	NA	NA	NA	NA	NA	NA	0.80	35.7	35.7
MANVEL	2-6	4E	TU	64	NA	25.0	NA	24.0	NA	NA	1.1	0.32	14.3	35.7
KEOTA	2-6	3E	TU	64	NA	24.0	NA	26.0	NA	NA	1.1	0.34	15.2	35.7
ALTVAN	2-6	3E	SI	64	25.0	28.0	NA	33.0	NA	22.0	1.2	0.35	15.6	35.7
PIERRE	2-6	3E	CY	63	21.0	24.0	20.0	29.0	NA	24.0	1.2	0.40	17.9	35.7
HOLT	2-6	3E	SY	66	32.0	NA	NA	37.0	NA	NA	1.4	0.45	20.1	35.7
BETTS	2-6	4E	TU	53	25.0	NA	15.0	39.0	12.0	25.0	1.5	0.39	17.4	35.6
ZAHL	6-9	4E	TU	53	NA	NA	14.0	35.0	NA	NA	1.4	0.36	16.1	35.5
TUTHILL	6-9	4E	SY	64	25.0	26.0	NA	34.0	NA	26.0	1.1	0.31	13.9	35.5
MARMARTH	6-9	4E	SI	58	NA	NA	18.0	32.0	NA	NA	1.1	0.29	13.0	35.5
MADDOCK	2-6	4E	SA	55	32.0	NA	15.0	31.0	11.0	NA	1.4	0.54	24.1	35.4
ALTVAN	0-2	4S	SI	61	20.0	28.0	NA	28.0	NA	NA	1.2	0.33	16.7	35.4
MINNEQUA	0-2	4E	TU	61	NA	24.0	NA	25.0	NA	NA	1.1	0.30	13.4	35.3
MOSHER	0-2	4S	CP	61	30.0	21.0	NA	30.0	NA	NA	1.3	0.31	13.9	35.3
COLBY	2-6	4E	TU	64	NA	25.0	NA	25.0	NA	NA	1.0	0.34	15.2	35.3
MANTER	6-9	4E	SY	64	NA	24.0	NA	27.0	NA	NA	1.0	0.35	15.6	35.3
HARRIET	0-2	6W	SL	55	NA	NA	NA	NA	NA	NA	NA	0.79	35.3	35.3
DELMONT	2-6	4S	SWG	102	32.0	NA	NA	39.0	NA	25.0	1.6	0.54	24.1	35.3
LEHR	2-6	4E	SWG	53	NA	NA	16.0	38.0	NA	NA	1.0	0.25	11.2	35.2
LOWRY	9-15	4E	SI	53	26.0	NA	19.0	37.0	NA	23.0	1.4	0.41	18.3	35.2
KADOKA	9-15	4E	SI	64	NA	25.0	NA	33.0	NA	22.0	1.0	0.31	13.9	35.2
TALLY	2-6	4E	SY	58	NA	NA	18.0	31.0	NA	NA	1.1	0.30	13.4	35.1
GETTYS	2-6	4E	TU	53	26.0	NA	15.0	38.0	NA	28.0	1.5	0.39	17.4	35.1
GETTYS	6-9	4E	TU	55	NA	NA	NA	34.0	NA	24.0	1.7	0.40	17.9	35.1
STADY	2-6	3E	SI	54	NA	NA	18.0	35.0	NA	NA	0.9	0.33	14.7	35.1
ALTVAN	0-2	4S	SI	60	18.0	26.0	18.0	25.0	NA	NA	1.1	0.32	14.3	35.0
BIDMAN	0-2	3S	CY	61	NA	20.0	NA	30.0	NA	NA	1.2	0.26	11.6	35.0
TRIPP	6-9	4E	SI	60	NA	22.0	NA	26.0	NA	NA	1.2	0.29	13.0	35.0
DICKEY	2-6	4E	SY	55	31.0	NA	NA	34.0	NA	NA	1.5	0.51	22.8	35.0
VETAL	6-9	4E	SY	65	NA	NA	NA	32.0	NA	NA	1.5	0.31	13.9	35.0
LARSON	0-2	4S	CP	55	NA	NA	16.0	31.0	NA	NA	1.3	0.28	12.5	35.0
ASSINIBOINE	0-2	4E	SY	58	NA	21.0	15.0	25.0	NA	NA	1.2	0.30	13.4	35.0
ANSELMO	2-6	3E	SY	65	NA	NA	NA	34.0	NA	NA	1.4	0.37	16.5	34.9
PENO	6-9	4E	CY	53	28.0	NA	16.0	37.0	NA	24.0	1.5	0.47	21.0	34.8
ZAHL	2-6	4E	TU	53	NA	NA	14.0	33.0	NA	NA	1.4	0.35	15.6	34.8
CHEYENNE	0-2	4S	SI	60	NA	24.0	13.0	25.0	NA	NA	1.1	0.31	13.9	34.8
RENSHAW	0-2	3S	SWG	102	32.0	NA	NA	34.0	12.0	NA	1.1	0.56	25.0	34.7
HECLA	2-6	6E	SA	55	NA	NA	NA	NA	NA	NA	1.5	0.46	20.6	34.6
SULLY	2-6	4E	TU	55	NA	NA	NA	NA	NA	NA	1.5	0.39	17.4	34.6
MILLBORD	9-15	6E	CY	63	NA	NA	NA	NA	NA	NA	1.5	0.33	14.7	34.6

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMMER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE {PCT} 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA {T/A} 14	RANGE YIELD {AUMS} 15	RANGE RATING {PCT} 16	SOIL RATING {PCT} 17
SISSETON	E	6-9	6E	TU	102	NA	NA	NA	NA	NA	NA	1.5	0.47	21.0	34.6
GETTYS	E	6-9	6E	TU	55	NA	NA	NA	NA	NA	NA	1.5	0.37	16.5	34.6
NOONAN		0-2	4S	CP	55	NA	NA	16.0	30.0	NA	NA	1.3	0.31	13.9	34.6
MANTER		2-6	4E	SY	60	NA	22.0	NA	29.0	NA	NA	1.0	0.30	13.4	34.6
METRE		0-2	4S	CY	60	NA	20.0	17.0	23.0	NA	NA	1.1	0.31	13.9	34.5
NAHON		0-2	4S	CP	55	28.0	NA	16.0	32.0	NA	NA	1.4	0.33	14.7	34.5
WHITELAKE		0-6	4E	SY	66	NA	NA	NA	33.0	NA	NA	1.4	0.52	23.2	34.4
TOBY		2-6	4E	SY	58	NA	NA	18.0	29.0	NA	NA	1.1	0.30	13.4	34.4
LAKOMA		2-6	3E	CY	63	18.0	25.0	NA	29.0	NA	32.0	1.2	0.44	19.7	34.4
HUGGINS		6-9	4E	CY	64	NA	24.0	NA	34.0	NA	22.0	0.9	0.31	13.9	34.3
VIDA		6-9	4E	SI	53	22.0	NA	16.0	35.0	NA	NA	1.5	0.41	18.3	34.3
RIDGEVIEW		6-9	4E	CY	54	20.0	NA	20.0	36.0	NA	NA	1.1	0.31	13.9	34.3
LADNER		0-2	4S	CP	58	NA	NA	17.0	31.0	NA	NA	1.1	0.18	8.0	34.3
NORREST		0-2	4S	CY	60	NA	23.0	NA	24.0	NA	NA	1.1	0.31	13.9	34.2
SULLY		6-9	4E	TU	53	NA	NA	16.0	29.0	NA	NA	1.3	0.35	15.6	34.2
BETTS		6-9	4E	TU	55	29.0	NA	NA	37.0	NA	20.0	1.8	0.40	17.9	34.2
BETTS	E	2-6	4E	TU	55	32.0	NA	NA	33.0	NA	23.0	1.7	0.42	18.8	34.2
HUGGINS		0-2	4S	CY	60	NA	23.0	NA	28.0	NA	NA	0.9	0.34	15.2	34.2
ZAHILL		6-9	4E	TU	53	NA	NA	14.0	35.0	NA	NA	1.2	0.34	15.2	34.0
INAVALE		0-2	6E	SA	66	28.0	NA	NA	32.0	NA	NA	1.6	0.50	22.3	34.0
CAPUTA		6-9	4E	CY	60	NA	21.0	17.0	21.0	NA	NA	1.0	0.26	11.6	34.0
HARRIET		0-2	6W	SL	53	NA	NA	NA	NA	NA	NA	NA	0.76	34.0	34.0
KOLLS		0-2	6S	CD	63	NA	NA	NA	NA	NA	NA	NA	0.76	34.0	34.0
ZELL		6-9	4E	TU	53	NA	NA	13.0	33.0	NA	NA	1.4	0.35	15.6	33.9
MOSHER		0-2	4S	CP	63	NA	21.0	NA	30.0	NA	22.0	1.3	0.31	13.9	33.9
JAVA		6-9	4E	SI	53	22.0	NA	17.0	38.0	NA	22.0	1.5	0.45	20.1	33.8
MOSHER		0-2	4S	CP	53	17.0	25.0	15.0	32.0	NA	24.0	1.2	0.33	14.7	33.8
TUTHILL		0-2	4E	SY	60	18.0	25.0	NA	30.0	NA	NA	1.2	0.34	15.2	33.8
ARVILLA		0-2	3E	SWG	55	NA	NA	15.0	32.0	11.0	NA	1.0	0.33	14.7	33.8
METRE		0-2	3S	CY	64	23.0	26.0	NA	29.0	NA	23.0	1.2	0.37	16.5	33.7
VEBAR		2-6	4E	SY	58	NA	NA	18.0	25.0	NA	NA	1.2	0.30	13.4	33.7
SULLY		2-6	4E	TU	63	25.0	NA	16.0	34.0	NA	NA	1.3	0.29	13.0	33.7
GLENBERG		2-6	4E	SY	60	NA	18.0	NA	28.0	NA	NA	1.3	0.40	17.9	33.6
HOVEN		0-2	6S	CD	53	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
HOVEN		0-2	6S	CD	66	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
DURRSTEIN		0-2	6W	SL	55	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
EGAS		0-2	7S	SL	55	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
MCKENZIE		0-2	6S	CD	54	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
GANNETT		0-2	5W	WL	66	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5
TONKA	DNF	0-2	4W	CD	53	NA	NA	NA	NA	NA	NA	NA	0.75	33.5	33.5

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE 1. RANGES DEVELOPED FROM CORN AND WHEAT YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CHINOOK		0-2	4E	SY	58	NA	19.0	14.0	26.0	NA	NA	NA	1.2	0.29	13.0	33.5
ORTON		0-2	3E	SY	53	22.0	NA	19.0	36.0	NA	26.0	NA	1.1	0.47	21.0	33.5
MANVEL		2-6	4E	TU	61	NA	23.0	NA	24.0	NA	NA	NA	1.0	0.26	11.6	33.5
LIHEN	E	0-2	4E	SA	54	NA	22.0	13.0	28.0	NA	NA	NA	0.9	0.40	17.9	33.3
METRE		2-6	3E	CY	64	NA	23.0	NA	28.0	NA	22.0	NA	1.1	0.37	16.5	33.3
MANTER		0-2	3E	SY	65	NA	NA	NA	33.0	NA	NA	NA	1.3	0.40	17.9	33.2
ROSEBUD		9-15	4E	SI	64	NA	25.0	NA	32.0	NA	16.0	NA	1.0	0.33	14.7	33.1
LARVIE		0-2	4S	CY	60	NA	21.0	NA	25.0	NA	NA	NA	1.1	0.34	15.2	33.1
MANVEL		0-2	4E	TU	60	NA	22.0	NA	23.0	NA	NA	NA	1.1	0.35	15.6	33.1
REDSTOE		2-6	3E	TU	55	21.0	NA	NA	46.0	NA	19.0	NA	1.6	0.42	18.8	33.1
SULLY		6-9	4E	TU	63	NA	NA	16.0	30.0	NA	NA	NA	1.1	0.27	12.1	33.1
RICHFIELD		6-9	4E	SI	60	19.0	25.0	NA	26.0	NA	NA	NA	1.2	0.29	13.0	32.9
RHAME		2-6	4E	SY	58	NA	NA	18.0	25.0	NA	NA	NA	1.1	0.30	13.4	32.9
RAZOR		0-2	3S	CY	60	NA	22.0	14.0	22.0	NA	NA	NA	1.0	0.31	13.9	32.9
MADDOCK		2-6	4E	SA	53	31.0	NA	14.0	28.0	10.0	NA	NA	1.3	0.50	22.3	32.9
ZELL	E	2-6	4E	TU	53	32.0	NA	13.0	33.0	NA	NA	NA	1.2	0.35	15.6	32.8
ALTVAN		2-6	4E	SI	60	17.0	24.0	17.0	24.0	NA	NA	NA	1.0	0.29	13.0	32.8
CHEYENNE		2-6	3E	SI	63	20.0	25.0	14.0	30.0	NA	22.0	NA	1.1	0.34	15.2	32.8
KEOTA		2-6	4E	TU	60	NA	23.0	NA	22.0	NA	NA	NA	1.0	0.35	15.6	32.7
ANSELMO		2-6	4E	SY	60	NA	21.0	NA	26.0	NA	NA	NA	1.0	0.27	12.1	32.7
CAVO		0-2	4S	CP	55	NA	NA	16.0	31.0	NA	22.0	NA	1.3	0.36	16.1	32.7
TELFER		2-6	4E	SA	53	NA	NA	15.0	29.0	NA	NA	NA	1.2	0.45	20.1	32.6
NOONAN		0-2	4S	CP	53	NA	NA	15.0	29.0	NA	NA	NA	1.2	0.28	12.5	32.6
LARSON		2-6	4S	CP	55	NA	NA	15.0	29.0	NA	NA	NA	1.2	0.25	11.2	32.6
ANSELMO		6-9	4E	SY	66	29.0	NA	NA	33.0	NA	24.0	NA	1.5	0.40	17.9	32.5
LOWRY		9-15	4E	SI	63	25.0	NA	15.0	37.0	NA	23.0	NA	1.3	0.33	14.7	32.5
DOGER		0-6	4E	SY	66	26.0	NA	NA	32.0	NA	NA	NA	1.5	0.45	20.1	32.5
GETTYS		6-9	4E	TU	53	NA	NA	13.0	36.0	NA	21.0	NA	1.4	0.37	16.5	32.5
DEGREY		0-2	4S	CP	63	NA	22.0	NA	28.0	NA	21.0	NA	1.1	0.33	14.7	32.4
MOSHER		0-2	4S	CP	64	NA	22.0	NA	28.0	NA	19.0	NA	1.2	0.30	13.4	32.4
PIERRE		0-2	4S	CY	60	17.0	21.0	18.0	24.0	NA	NA	NA	1.1	0.34	15.2	32.4
MOSHER		2-6	4S	CP	64	NA	20.0	NA	27.0	NA	NA	NA	1.0	0.28	12.5	32.4
MINNEQUA		2-6	4E	TU	61	NA	22.0	NA	23.0	NA	NA	NA	1.0	0.27	12.1	32.4
DAGLUM		2-6	4S	CP	54	NA	22.0	15.0	24.0	NA	NA	NA	0.7	0.25	11.2	32.3
COLBY		6-9	4E	TU	64	NA	23.0	NA	23.0	NA	NA	NA	0.9	0.32	14.3	32.3
SULLY		6-9	4E	TU	55	NA	NA	NA	NA	NA	NA	NA	1.4	0.37	16.5	32.3
HENKIN	E	6-9	6E	SY	55	NA	NA	NA	NA	NA	NA	NA	1.4	0.41	18.3	32.3
GLENBERG		2-6	4E	SY	61	NA	NA	NA	NA	NA	NA	NA	1.4	0.34	15.2	32.3
DUDLEY		0-2	4S	CP	55	28.0	NA	NA	32.0	NA	29.0	NA	1.3	0.36	16.1	32.3
JAVA	E	2-6	4E	SI	53	19.0	NA	16.0	37.0	NA	25.0	NA	1.3	0.45	20.1	32.2

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

APPENDIX TABLE 84. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS																
SOIL SERIES NAME 1**	SLOPE PHASE 2 (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8 SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17		
ALTVAN	6-9	4E	SI	63	NA	22.0	15.0	24.0	NA	21.0	NA	1.0	0.38	17.0	32.2	
CAVOUR	0-2	4S	CP	55	NA	NA	15.0	30.0	NA	NA	NA	1.1	0.33	14.7	32.2	
STIRUM	0-2	4W	SB	55	19.0	NA	15.0	31.0	11.0	NA	NA	1.3	0.90	40.2	32.2	
KOLLS	0-2	6S	CD	64	NA	NA	NA	NA	NA	NA	NA	NA	0.72	32.2	32.2	
REDSTOE	6-9	4E	TU	55	NA	NA	NA	42.0	NA	15.0	NA	1.4	0.40	17.9	32.2	
TUTHILL	2-6	4E	SY	60	17.0	24.0	NA	NA	NA	NA	NA	1.1	0.30	13.4	32.1	
LINTON	9-15	4E	SI	53	24.0	NA	NA	35.0	NA	NA	NA	1.4	0.43	19.2	32.1	
ALTVAN	2-6	4E	SI	61	19.0	25.0	NA	25.0	NA	NA	NA	1.1	0.30	13.4	32.1	
CHAMA	6-9	4E	SI	58	NA	20.0	13.0	25.0	NA	NA	NA	1.0	0.30	13.4	32.0	
MINNEQUA	0-2	4E	TU	60	NA	23.0	NA	22.0	NA	NA	NA	0.9	0.28	12.5	32.0	
MANVEL	6-9	4E	TU	64	NA	23.0	NA	22.0	NA	NA	NA	0.9	0.32	14.3	32.0	
CEDAR BUTTE	0-2	4S	CP	64	NA	21.0	NA	29.0	NA	20.0	NA	1.1	0.32	14.3	31.9	
TELFER	0-2	4E	SA	54	NA	NA	14.0	29.0	NA	NA	NA	1.2	0.38	17.0	31.8	
ARVILLA	2-6	3E	SWG	55	NA	NA	14.0	30.0	10.0	NA	NA	1.0	0.33	14.7	31.7	
HOLT	6-9	4E	SY	66	28.0	NA	NA	32.0	NA	NA	NA	1.3	0.42	18.8	31.7	
MOSHER	2-6	4S	CP	63	NA	18.0	NA	27.0	NA	NA	NA	1.1	0.28	12.5	31.7	
NORREST	2-6	4E	CY	60	NA	21.0	NA	23.0	NA	NA	NA	1.0	0.29	13.0	31.6	
KEOTA	6-9	4E	TU	64	NA	22.0	NA	23.0	NA	NA	NA	0.9	0.32	14.3	31.6	
ASCALON	2-6	4E	SY	61	NA	NA	NA	30.0	NA	NA	NA	1.3	0.32	14.3	31.6	
NORREST	6-9	4E	CY	64	20.0	24.0	NA	31.0	NA	18.0	NA	1.2	0.28	12.5	31.5	
RENSHAW	2-6	4S	SWG	102	27.0	NA	NA	32.0	11.0	NA	NA	1.0	0.56	25.0	31.4	
HOVEN	0-2	6S	CD	63	NA	NA	NA	NA	NA	NA	NA	NA	0.70	31.3	31.3	
MADDOCK	E 0-2	4E	SA	55	27.0	NA	14.0	28.0	NA	NA	NA	1.3	0.54	24.1	31.3	
STADY	6-9	4E	SI	53	NA	NA	14.0	36.0	NA	NA	NA	0.8	0.41	18.3	31.3	
LARVIE	2-6	4E	CY	60	NA	20.0	NA	24.0	NA	NA	NA	1.0	0.31	13.9	31.3	
MANVEL	2-6	4E	TU	60	NA	22.0	NA	22.0	NA	NA	NA	0.9	0.31	13.9	31.2	
ALTVAN	6-9	4E	SI	64	NA	24.0	NA	27.0	NA	16.0	NA	1.0	0.35	15.6	31.2	
LEHR	0-2	4S	SWG	54	NA	19.0	13.0	28.0	NA	NA	NA	0.8	0.28	12.5	31.1	
MADDOCK	E 0-2	4E	SA	53	27.0	NA	13.0	28.0	10.0	NA	NA	1.2	0.50	22.3	31.1	
WHITELAKE	0-6	4E	SY	64	NA	NA	NA	29.0	NA	NA	NA	1.3	0.40	17.9	31.0	
METRE	2-6	4E	CY	60	NA	19.0	15.0	21.0	NA	NA	NA	0.9	0.31	13.9	31.0	
CAPUTA	9-15	4E	CY	63	NA	NA	NA	NA	NA	29.0	NA	1.2	0.36	16.1	31.0	
SAVO	9-15	4E	SI	64	NA	NA	NA	31.0	NA	NA	NA	1.2	0.29	13.0	31.0	
CAVO	0-2	4S	CP	53	NA	NA	15.0	30.0	NA	21.0	NA	1.2	0.38	17.0	30.9	
OGALALA	9-15	4E	SI	64	NA	NA	NA	33.0	NA	NA	NA	1.1	0.33	14.7	30.9	
ORTON	2-6	3E	SY	53	NA	NA	15.0	33.0	NA	22.0	NA	1.0	0.45	20.1	30.9	
PAKA	6-9	3E	SI	65	26.0	NA	NA	36.0	NA	NA	NA	1.1	0.31	13.9	30.9	
BETTS	6-9	4E	TU	53	23.0	NA	14.0	37.0	NA	18.0	NA	1.4	0.37	16.5	30.9	
MACKEN	0-2	6S	CD	61	NA	NA	NA	NA	NA	NA	NA	NA	0.69	30.8	30.8	
DELMONT	6-9	4E	SWG	102	NA	NA	NA	32.0	NA	19.0	NA	1.5	0.52	23.2	30.8	

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
DAHE		6-9	4E	SI	63	23.0	21.0 14.0	31.0	NA	19.0	NA	0.9	0.33	14.7	30.6
GETTYS	E	2-6	4E	TU	53	NA	NA 13.0	30.0	NA	24.0	NA	1.2	0.37	16.5	30.6
STIRUM		0-2	4W	SB	53	19.0	NA 13.0	28.0	11.0	NA	NA	1.3	0.88	39.3	30.5
REGENT		9-15	4E	CY	54	NA	NA NA	32.0	NA	NA	NA	1.1	0.24	10.7	30.4
DAGLUM		0-2	4S	CP	58	NA	19.0 14.0	25.0	NA	NA	NA	0.7	0.18	8.0	30.3
TALLY		6-9	4E	SY	54	NA	NA NA	34.0	NA	NA	NA	1.0	0.27	12.1	30.3
NOONAN		2-6	4S	CP	53	NA	NA 14.0	27.0	NA	NA	NA	1.1	0.28	12.5	30.3
LARVIE		0-2	3S	CY	64	30.0	NA NA	26.0	NA	NA	NA	1.3	0.37	16.5	30.2
BIDMAN		2-6	4E	CY	61	NA	18.0 NA	25.0	NA	NA	NA	1.0	0.23	10.3	30.2
ARCHIN		0-2	4S	CP	58	NA	NA 17.0	28.0	NA	NA	NA	0.7	0.19	8.5	30.1
CAVO		2-6	4S	CP	55	NA	NA 15.0	29.0	NA	19.0	NA	1.2	0.36	16.1	30.1
SAVO		6-9	4E	SI	61	NA	NA NA	NA	NA	NA	NA	1.3	0.29	13.0	30.0
AKASKA		6-9	4E	SI	53	NA	NA NA	NA	NA	NA	NA	1.3	0.41	18.3	30.0
BUSE	E	6-15	6E	TU	55	NA	NA NA	NA	NA	NA	NA	1.3	0.38	17.0	30.0
OBURN		0-2	4S	CP	58	NA	18.0 12.0	28.0	NA	NA	NA	0.8	0.19	8.5	29.9
PIERRE		6-9	4E	CY	63	18.0	20.0 16.0	24.0	NA	20.0	NA	1.1	0.37	16.5	29.9
MANTER		2-6	3E	SY	65	NA	NA NA	29.0	NA	NA	NA	1.2	0.37	16.5	29.9
CHEYENNE		2-6	4E	SI	60	NA	21.0 11.0	22.0	NA	NA	NA	0.9	0.27	12.1	29.9
COLBY		2-6	4E	TU	60	NA	21.0 NA	20.0	NA	NA	NA	0.9	0.29	13.0	29.8
RENSHAW		0-2	4S	SWG	55	23.0	NA 13.0	29.0	11.0	NA	NA	0.9	0.33	14.7	29.7
HOLT		2-6	3E	SY	64	29.0	NA NA	30.0	NA	NA	NA	1.1	0.37	16.5	29.7
RAZOR		2-6	4E	CY	60	NA	19.0 13.0	21.0	NA	NA	NA	0.9	0.29	13.0	29.7
NOONAN		2-6	4S	CP	55	NA	NA NA	28.0	NA	NA	NA	1.2	0.27	12.1	29.3
DEGREY		2-6	4S	CP	63	NA	20.0 NA	26.0	NA	18.0	NA	1.0	0.29	13.0	29.3
CEDAR BUTTE		2-6	4S	CP	64	NA	20.0 NA	27.0	NA	17.0	NA	1.0	0.32	14.3	29.3
DOGER		0-6	4E	SY	65	25.0	NA NA	24.0	NA	NA	NA	1.5	0.38	17.0	29.2
DOGER		0-6	4E	SY	64	23.0	NA NA	28.0	NA	NA	NA	1.4	0.40	17.9	29.2
CAVO		2-6	4S	CP	53	NA	NA 14.0	29.0	NA	20.0	NA	1.1	0.33	14.7	29.2
LAKOMA		6-9	4E	CY	63	16.0	22.0 NA	26.0	NA	24.0	NA	1.0	0.44	19.7	29.1
CHAPPELL		0-2	3E	SY	66	26.0	NA NA	31.0	NA	NA	NA	1.1	0.50	22.3	29.1
DURRSTEIN		0-2	6W	SL	53	NA	NA NA	NA	NA	NA	NA	NA	0.65	29.0	29.0
EGAS		0-2	7S	SL	53	NA	NA NA	NA	NA	NA	NA	NA	0.65	29.0	29.0
HOVEN		0-2	6S	CD	64	NA	NA NA	NA	NA	NA	NA	NA	0.65	29.0	29.0
CAVOUR		2-6	4S	CP	55	NA	NA 13.0	28.0	NA	NA	NA	1.0	0.33	14.7	29.0
MINNEQUA		2-6	4E	TU	60	NA	21.0 NA	20.0	NA	NA	NA	0.8	0.28	12.5	29.0
DUDLEY		2-6	4S	CP	55	24.0	NA NA	29.0	NA	26.0	NA	1.2	0.34	15.2	29.0
BETTS	E	2-6	4E	TU	53	23.0	NA 14.0	32.0	NA	20.0	NA	1.1	0.39	17.4	28.9
STETTER		0-2	4S	OV	60	NA	NA NA	25.0	NA	NA	NA	1.3	0.63	28.2	28.8
LEHR		2-6	4E	SWG	54	NA	18.0 12.0	26.0	NA	NA	NA	0.7	0.25	11.2	28.8
WHITE LAKE		0-2	4E	SY	61	NA	NA NA	31.0	NA	NA	NA	1.0	0.37	16.5	28.7

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
RENSHAW		6-9	4E	SWG	102	21.0	NA NA	31.0	10.0	NA	NA	1.0	0.54	24.1	28.7
PIERRE		2-6	4E	CY	60	17.0	19.0 15.0	22.0	NA	NA	NA	0.9	0.31	13.9	28.6
DELMONT		0-2	4S	SWG	55	24.0	NA NA	32.0	NA	22.0	NA	1.2	0.33	14.7	28.6
DICKEY	E	6-15	6E	SY	102	NA	NA NA	NA	NA	NA	NA	NA	0.64	28.6	28.6
DICKEY		9-15	6E	SY	102	NA	NA NA	NA	NA	NA	NA	NA	0.64	28.6	28.6
DUNDAY		0-2	4E	SA	66	24.0	NA NA	25.0	NA	NA	NA	1.4	0.50	22.3	28.5
ASSINNIBOINE		2-6	4E	SY	58	NA	NA 14.0	22.0	NA	NA	NA	1.1	0.28	12.5	28.4
OAHE		6-9	4E	SI	53	24.0	NA 14.0	33.0	NA	20.0	NA	0.9	0.39	17.4	28.4
LIHEN		0-2	4E	SA	58	NA	NA 14.0	26.0	NA	NA	NA	0.9	0.36	16.1	28.4
MOSHER		0-2	4S	CP	60	NA	17.0 NA	20.0	NA	NA	NA	1.1	0.19	8.5	28.4
LARVIE		2-6	3E	CY	64	29.0	NA NA	24.0	NA	NA	NA	1.2	0.33	14.7	28.3
SORUM		0-2	4E	SY	58	NA	14.0 12.0	26.0	NA	NA	NA	1.0	0.30	13.4	28.3
DUNDAY		0-2	4E	SA	65	NA	NA NA	24.0	NA	NA	NA	1.3	0.38	17.0	28.3
TELFER		2-6	4E	SA	54	NA	NA 12.0	26.0	NA	NA	NA	1.1	0.35	15.6	28.2
ANSELMO		6-9	4E	SY	65	NA	NA NA	28.0	NA	NA	NA	1.1	0.34	15.2	28.2
ASCALON		2-6	4E	SY	60	NA	NA NA	28.0	NA	NA	NA	1.1	0.27	12.1	28.2
AMOR		6-9	4E	SI	58	NA	NA NA	28.0	NA	NA	NA	1.1	0.27	12.1	28.2
GLENROSS		0-2	6W	SL	54	NA	NA NA	NA	NA	NA	NA	NA	0.63	28.2	28.2
CAPUTA		9-15	4E	CY	64	NA	NA NA	NA	NA	26.0	NA	1.1	0.36	16.1	28.1
CANNING		6-9	4E	SI	53	NA	NA NA	NA	NA	26.0	NA	1.1	0.41	18.3	28.1
CHINOOK		2-6	4E	SY	58	NA	NA 13.0	23.0	NA	NA	NA	1.1	0.27	12.1	27.9
REEDER		9-15	4E	SI	54	NA	NA NA	NA	NA	NA	NA	1.2	0.29	13.0	27.7
ZAHL	E	6-9	6E	TU	53	NA	NA NA	NA	NA	NA	NA	1.2	0.33	14.7	27.7
AKASKA		6-9	4E	SI	63	NA	NA NA	NA	NA	NA	NA	1.2	0.34	15.2	27.7
MCKENZIE		0-2	6S	CD	58	NA	NA NA	NA	NA	NA	NA	NA	0.62	27.7	27.7
HEIL		0-2	6S	CD	54	NA	NA NA	NA	NA	NA	NA	NA	0.62	27.7	27.7
BIDMAN		0-2	3S	CY	60	NA	14.0 10.0	28.0	NA	NA	NA	1.0	0.29	13.0	27.6
WHITELAKE		0-6	4E	SY	65	NA	NA NA	31.0	NA	NA	NA	0.9	0.42	18.8	27.5
DEGREY		0-2	4S	CP	53	17.0	NA 15.0	27.0	NA	22.0	NA	1.1	0.33	14.7	27.5
HARRIET		0-2	6W	SL	54	NA	NA NA	NA	NA	NA	NA	NA	0.61	27.3	27.3
OGALALA		6-9	4E	SI	60	NA	NA NA	26.0	NA	NA	NA	1.1	0.29	13.0	27.1
WHITELAKE		0-2	4E	SY	60	NA	NA NA	30.0	NA	NA	NA	0.9	0.32	14.3	27.0
DUNDAY		0-2	4E	SA	64	23.0	NA NA	24.0	NA	NA	NA	1.3	0.35	15.6	27.0
CANNING		6-9	4E	SI	63	NA	NA NA	NA	NA	26.0	NA	1.0	0.38	17.0	26.9
BECKTON		0-2	4S	CP	60	NA	15.0 12.0	21.0	NA	NA	NA	0.9	0.19	8.5	26.9
KOLLS		0-2	6S	CD	60	NA	NA NA	NA	NA	NA	NA	NA	0.60	26.8	26.8
TRAVESSILLA		2-15	6S	SW	62	NA	NA NA	NA	NA	NA	NA	NA	0.60	26.8	26.8
MADDOCK	E	2-6	6E	SA	102	NA	NA NA	NA	NA	NA	NA	NA	0.60	26.8	26.8
MADDOCK		6-15	6S	SA	102	NA	NA NA	NA	NA	NA	NA	NA	0.60	26.8	26.8
BECKTON		0-2	4S	CP	61	NA	NA 13.0	22.0	NA	NA	NA	1.0	0.28	12.5	26.8

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17	
MURDO		0-6	4S	SWG	64	NA	18.0	NA	22.0	NA	NA	NA	0.7	0.32	14.3	26.7
CHAPPELL		2-6	3E	SY	66	24.0	NA	NA	28.0	NA	NA	NA	1.0	0.50	22.3	26.5
SEN		9-15	4E	SI	54	NA	NA	NA	29.0	NA	NA	NA	0.9	0.30	13.4	26.4
EGELAND	E	6-9	6E	SY	102	NA	NA	NA	NA	NA	NA	NA	0.59	26.4	26.4	
EGELAND		9-15	6E	SY	102	NA	NA	NA	NA	NA	NA	NA	0.59	26.4	26.4	
STADY		6-9	4E	SI	54	NA	NA	NA	31.0	NA	NA	NA	0.8	0.31	13.9	26.4
RENSHAW		2-6	4E	SWG	55	18.0	NA	12.0	26.0	10.0	NA	NA	0.8	0.33	14.7	26.4
KADOKA		9-15	4E	SI	66	NA	NA	NA	NA	21.0	NA	NA	1.2	0.38	17.0	26.3
MACKEN		0-2	6S	CD	60	NA	NA	NA	NA	NA	NA	NA	0.58	25.9	25.9	
FLANDREAU	E	6-9	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.58	25.9	25.9	
HECLA		6-15	6S	SA	102	NA	NA	NA	NA	NA	NA	NA	0.58	25.9	25.9	
ROSEBUD		6-9	4E	SI	60	NA	NA	NA	26.0	NA	NA	NA	1.0	0.29	13.0	25.9
CHEYENNE		6-9	4E	SI	63	18.0	19.0	11.0	24.0	NA	16.0	NA	0.9	0.30	13.4	25.9
DEGREY		2-6	4S	CP	53	17.0	NA	14.0	26.0	NA	20.0	NA	1.0	0.29	13.0	25.8
HOLT		6-9	4E	SY	64	24.0	NA	NA	26.0	NA	NA	NA	1.0	0.34	15.2	25.7
SINGSAAS		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.57	25.5	25.5	
VIENNA		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.57	25.5	25.5	
SHINDLER		9-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.57	25.5	25.5	
STIRK		0-2	6S	OV	63	NA	NA	NA	NA	NA	NA	NA	0.57	25.5	25.5	
WORTMAN		0-2	4S	CP	64	NA	14.0	NA	24.0	NA	20.0	NA	0.9	0.32	14.3	25.5
SAVO		6-9	4E	SI	60	NA	NA	NA	NA	NA	NA	NA	1.1	0.26	11.6	25.4
MAWER		2-6	4E	SY	61	NA	NA	NA	NA	NA	NA	NA	1.1	0.35	15.6	25.4
CHAMA		9-15	4E	SI	54	NA	NA	NA	25.0	NA	NA	NA	1.0	0.31	13.9	25.4
MANTER		6-9	4E	SY	65	NA	NA	NA	25.0	NA	NA	NA	1.0	0.35	15.6	25.4
CLARNO	E	9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.56	25.0	25.0	
HENKIN	E	6-9	6E	SY	102	NA	NA	NA	NA	NA	NA	NA	0.56	25.0	25.0	
LARVIE		6-9	4E	CY	64	23.0	NA	NA	NA	NA	NA	NA	1.1	0.31	13.9	24.9
DELMONT		2-6	4E	SWG	55	20.0	NA	NA	28.0	NA	20.0	NA	1.0	0.33	14.7	24.7
SORUM		2-6	4E	SY	58	NA	NA	11.0	25.0	NA	NA	NA	0.8	0.28	12.5	24.7
HOUDEK		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6	
FORMAN		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6	
GAVINS		2-25	6S	TU	102	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6	
ETHAN	E	6-9	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6	
ETHAN		9-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6	
FLANDREAU		9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6	
RENNER		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6	
TRAVESSILLA		15-40	7S	SW	62	NA	NA	NA	NA	NA	NA	NA	0.55	24.6	24.6	
MURDO		0-6	4S	SWG	63	17.0	18.0	NA	21.0	NA	NA	NA	0.7	0.25	11.2	24.3
ULYSSES		6-9	4E	SI	60	NA	NA	NA	23.0	NA	NA	NA	1.0	0.29	13.0	24.3
KADOKA		6-9	4E	SI	60	NA	NA	NA	23.0	NA	NA	NA	1.0	0.29	13.0	24.3

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
MOODY	E	9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.54	24.1	24.1
BIDMAN		2-6	4E	CY	60	NA	12.0 9.0	23.0	NA	NA	NA	0.9	0.27	12.1	23.9
SHINDLER		25-40	7E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.53	23.7	23.7
LANGHEI		9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.53	23.7	23.7
DUDA		0-2	4E	SA	64	NA	NA	24.0	NA	NA	NA	0.9	0.42	18.8	23.6
KOLLS		0-2	6S	CD	61	NA	NA	NA	NA	NA	NA	NA	0.52	23.2	23.2
HEIL		0-2	6S	CD	58	NA	NA	NA	NA	NA	NA	NA	0.52	23.2	23.2
TWILIGHT		2-6	4E	SY	58	NA	NA	NA	NA	NA	NA	1.0	0.30	13.4	23.1
WORTMAN		0-2	4S	CP	61	NA	NA	NA	NA	NA	NA	1.0	0.23	10.3	23.1
GETTYS	E	6-9	6E	TU	53	NA	NA	NA	NA	NA	NA	1.0	0.34	15.2	23.1
CAVO		6-9	6E	CP	53	NA	NA	NA	NA	NA	NA	1.0	0.31	13.9	23.1
HOUDEK		25-40	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
MADDOCK		6-15	6E	SA	55	NA	NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
RENSHAW		9-25	6E	SWG	102	NA	NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
BARNES	E	9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
BARNES		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.51	22.8	22.8
DUDA		0-2	4E	SA	66	13.0	NA	24.0	NA	NA	NA	1.2	0.54	24.1	22.7
HUGGINS		2-6	4E	CY	60	NA	NA	24.0	NA	NA	NA	0.8	0.31	13.9	22.5
PENO		9-25	6E	CY	55	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
KLOTEN		9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
SERDEN		2-15	6E	SA	55	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
DICKEY		9-15	6E	SY	55	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
DELMONT		9-25	6E	SWG	102	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
HOVEN		0-2	6S	CD	60	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
HATTIE		15-25	6E	CY	102	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
DICKEY	E	6-9	6E	SY	55	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
GAVINS		25-40	7S	TU	102	NA	NA	NA	NA	NA	NA	NA	0.50	22.3	22.3
WORTMAN		2-6	4S	CP	64	NA	13.0	NA	NA	16.0	NA	0.8	0.32	14.3	22.0
SPEARFISH		0-15	6S	SW	62	NA	NA	NA	NA	NA	NA	NA	0.49	21.9	21.9
FORMAN		25-40	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.49	21.9	21.9
BARNES		25-40	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.49	21.9	21.9
RONSON		0-2	3E	SY	66	15.0	NA	28.0	NA	NA	NA	0.8	0.46	20.6	21.8
METRE		6-9	4E	CY	64	NA	NA	24.0	NA	13.0	NA	1.0	0.33	14.7	21.7
BANKARD		0-2	6E	SA	66	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
EGELAND		9-15	6E	SY	55	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
VALENTINE		0-15	6E	SA	66	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
EGELAND	E	6-9	6E	SY	55	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
DUDA		2-9	6E	SA	66	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
REDSTOE		9-15	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
SEROCO		2-15	6E	SA	55	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
BANKS	0-2	6E	SA	53	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
STEINAUER	9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.48	21.4	21.4
DUDA	0-2	4E	SA	65	NA	NA	NA	20.0	NA	NA	NA	0.9	17.9	21.4
LOWRY	9-15	4E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
SISSETON	9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
LANGHEI	25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
FORDVILLE	9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
OKO	9-15	6E	CY	55	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
TALMO	0-9	6S	VS	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
ETHAN	9-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
BUSE	9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
VALENTINE	15-40	7E	SA	66	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
POINSETT	15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.47	21.0	21.0
LIHEN	E 2-6	6E	SA	54	NA	NA	NA	NA	NA	NA	0.9	0.31	13.9	20.8
CHAPPELL	6-9	6E	SY	66	NA	NA	NA	NA	NA	NA	0.9	0.44	19.7	20.8
BETTS	E 6-9	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.46	20.6	20.6
JAVA	E 6-9	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.46	20.6	20.6
SPEARFISH	15-40	7E	SW	62	NA	NA	NA	NA	NA	NA	NA	0.46	20.6	20.6
ORTON	6-9	4E	SY	53	NA	NA	NA	NA	15.0	NA	1.0	0.43	19.2	20.4
WORTMAN	0-2	4S	CP	60	NA	NA	NA	20.0	NA	NA	0.8	0.21	9.4	20.3
PENO	6-25	6E	CY	53	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
MADDOCK	6-15	6E	SA	53	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
SEROCO	2-15	6E	SA	53	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
SISSETON	25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
STEINAUER	25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
DUNDAY	2-9	6E	SA	66	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
GLENHAM	15-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.45	20.1	20.1
FORMAN	15-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.44	19.7	19.7
NORREST	9-15	4E	CY	64	NA	NA	NA	NA	13.0	NA	1.0	0.25	11.2	19.2
BETTS	E 9-15	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
JAVA	9-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
JAVA	E 6-9	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
JAVA	9-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
SHENA	0-9	6S	SW	66	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
SIECHE	9-15	4E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
BETTS	9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
CLARNO	15-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
KLOTEN	25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
ZELL	9-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
CLARNO	E 9-15	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2

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SOIL SERIES NAME 1**	SLOPE PHASE 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
DOGER		6-15	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
NORA	E	9-15	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
NORA		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
BARNES		15-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
GLENHAM	E	9-15	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
GLENHAM		15-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
HAVERSON		2-6	2E	SI	63	NA	NA	NA	NA	NA	NA	NA	0.43	19.2	19.2
RONSON		2-6	3E	SY	66	13.0	NA	NA	24.0	NA	NA	0.7	0.43	19.2	18.8
BANKARD		0-2	6E	SA	64	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
BANKARD		0-2	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
INAVALE		0-2	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
KLOTEN		9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
BORO		9-15	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
LAKOMA		9-25	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
VALENTINE		0-15	6E	SA	64	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
VALENTINE		0-15	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
MAX		15-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
BUSE	E	6-9	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.42	18.8	18.8
CHEYENNE		6-9	6E	SI	60	NA	NA	NA	NA	NA	NA	0.8	0.24	10.7	18.5
CLARNO		25-40	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
LOWRY		9-15	4E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
BARNES		25-40	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
HOUDEK		15-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
TABLE MOUNTAIN		9-15	4E	SI	62	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
TALMO		9-25	7E	VS	102	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
TEIFER		6-15	6E	SA	53	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
JANSEN		6-9	4E	SI	66	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
OKO		9-15	6E	CY	53	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
ORTON		9-15	6E	SY	53	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
GAVINS		2-15	6S	TU	55	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
RABER		15-25	6E	CY	53	NA	NA	NA	NA	NA	NA	NA	0.41	18.3	18.3
BANKS		0-2	6E	SA	54	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
FORMAN		25-40	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
LAKOMA		25-40	7E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
CROFTON		15-25	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
VALENTINE		15-40	7E	SA	65	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
BUSE	E	9-15	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
DUDA		2-9	6E	SA	64	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
BUSE		25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
HOLT		9-15	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
EDGELEY		15-25	6E	SI	55	NA	NA	NA	NA	NA	NA	NA	NA	0.40	17.9	17.9
DELMONT		6-15	6E	SWG	55	NA	NA	NA	NA	NA	15.0	NA	NA	0.28	12.5	17.7
SIECHE		15-25	6E	SI	102	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
SIOUX		0-9	6S	VS	102	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
CROFTON	E	9-15	6E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
TELFER		15-40	7E	SA	53	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
KLOTEN		25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
DUPREE		2-15	6S	DC	53	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
VIDA		9-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
PAKA		9-15	4E	SI	66	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
WILLIAMS		15-25	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
SHENA		0-9	6S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.39	17.4	17.4
RONSON		6-9	4E	SY	66	NA	NA	NA	19.0	NA	NA	NA	0.6	0.41	18.3	17.4
LUTE		0-2	6S	SL	66	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
ANSELMO		9-15	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
DUDA		2-9	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
SEROCO		2-15	6E	SA	54	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
BUSE		9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
VALENTINE		15-40	7E	SA	64	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
HAVERSON		2-6	2E	SI	64	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
LAPORTE		2-15	6S	SW	62	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
BETTS		9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.38	17.0	17.0
TUTHILL		9-15	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
DOGER		6-15	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
REDSTOE		9-15	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
GETTYS		9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
DOGER		6-15	6E	SY	65	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
DUNDAY		2-9	6E	SA	61	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
OAHE		9-15	6E	SI	53	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
BETTS		9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
BETTS		25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
CROFTON		25-40	7E	TU	102	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
BETTS	E	6-15	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.37	16.5	16.5
BOYD		9-25	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
SIECHE		25-40	7E	SI	102	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
TASSEL		2-15	6E	SW	66	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
CANYON		2-15	6S	SW	66	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
EXLINE		0-2	6S	TCP	102	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
MIRANDA		0-2	6S	TCP	102	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1
GAVINS		15-40	7S	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.36	16.1	16.1

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
KADOKA		15-25	6E	SI	66	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
BANKARD		0-2	6E	SA	60	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
SULLY		9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
DUNDAY		2-9	6E	SA	65	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
DUNDAY		2-9	6E	SA	60	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
ANSELMO		15-25	6E	SY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
OKREEK		9-15	6E	CY	66	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
TUTHILL		9-15	6E	SY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
MANTER		6-15	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
BUSE		25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
LAPORTE		15-40	7S	SW	62	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
PIERRE		9-25	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
SIOUX		9-40	7S	VS	102	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
GETTYS		9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.35	15.6	15.6
OKREEK		9-15	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
IMLAY		0-15	6S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
DUPREE		15-40	7S	DC	53	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
DUPREE		2-15	6S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
BOYD		25-40	7E	CY	63	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
GETTYS		25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
ALTVAN		9-15	6E	SI	63	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
CROFTON	E	6-15	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
TASSEL		15-40	7E	SW	66	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
TELFER		2-15	6E	SA	58	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
HANLY		0-2	6E	SA	58	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
ANSELMO		9-15	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
BETTS		25-40	7E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.34	15.2	15.2
ZELL	E	6-9	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
RICHFIELD		15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
SULLY		9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
SULLY		25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
TALMO		0-9	6S	VS	55	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
TELFER		6-15	6E	SA	54	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
PARSHALL		6-9	4E	SY	54	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
BETTS		25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
ZAHL		9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
LAPORTE		2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
ZELL		9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.33	14.7	14.7
CANYON		2-15	6S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
DUNDAY		2-9	6E	SA	64	NA	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
GETTYS		25-40	7E	TU	53	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
SPEARFISH		0-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
SWANBOY		0-9	6S	DC	63	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
TASSEL		2-15	6E	SW	65	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
TASSEL		2-15	6E	SW	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
TASSEL		2-15	6E	SW	64	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
TRAVESSILLA		2-25	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
GRANER		2-25	6E	PC	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
IMLAY		0-15	6S	SW	63	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
NEVEE		2-6	4E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
CAPUTA		9-15	6E	CY	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
ANSELMO		9-15	6E	SY	65	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
CROFTON		9-25	6E	TU	55	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
WANBLEE		0-9	6S	TCP	64	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
WASA		0-9	6S	DC	63	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
PENROSE		0-15	6S	SW	64	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
PIERRE		25-40	7E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
ANSELMO		6-15	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
CANYON		15-40	7S	SW	66	NA	NA	NA	NA	NA	NA	NA	0.32	14.3	14.3
COLBY		6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
VEBAR		9-25	6E	SY	54	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
CAVO		6-9	6E	CP	55	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
OGALALA		15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ZAHLILL		9-25	6E	TU	53	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ZELL		25-40	7E	TU	53	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ZEONA		0-9	6E	SA	58	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ROSEBUD		15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
OPAL		9-25	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
LIHEN		6-9	6E	SA	54	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ALTVAN		9-15	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
SIOUX		0-9	6S	VS	55	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
KEITH		15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
PROMISE		9-15	6E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
SULLY		25-40	7E	TU	53	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
TABLE MOUNTAIN		9-15	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
MOSHER		2-6	6S	CP	61	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
TELFER		15-40	7E	SA	58	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
TELFER		15-40	7E	SA	54	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
HOLT		9-15	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9
ANSELMO		15-25	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	0.31	13.9	13.9

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
VALENTINE		0-9	6E	SA	60	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
DIX		0-9	6S	SWG	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
WAYDEN		2-15	6S	SW	54	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
WORTMAN		6-9	6E	CP	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
ZAHL		25-40	7E	TU	53	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
MURDO		6-25	6S	SWG	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
DUPREE		15-40	7S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
ORELLA		0-15	6S	DC	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
CABBA		9-15	6S	SW	54	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
PENROSE		0-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
PENROSE		15-40	7S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
REDIG		6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
EPPING		0-15	6S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
INLAY		15-40	7S	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
SAMSIL		2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
KEITH		9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
KEOTA		6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
ANSELMO		15-25	6E	SY	65	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
LANTRY		9-15	6E	TU	54	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
SWANBOY		0-6	6S	DC	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
LIHEN		2-25	6E	SA	58	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
LIHEN	E	0-6	6E	SA	58	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TASSEL		15-40	7E	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TASSEL		15-40	7E	SW	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TASSEL		15-40	7E	SW	65	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TILFORD		9-15	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
COLBY		9-15	6E	TU	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
MANter		6-15	6E	SY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
MANVEL		9-25	6E	TU	64	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
TUTHILL		6-15	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
CROFTON		25-40	7E	TU	55	NA	NA	NA	NA	NA	NA	NA	NA	0.30	13.4	13.4
MOREAU		9-25	6E	CY	54	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
ASCALON		6-15	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
SPEARFISH		15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
BUTCHE		6-25	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
TALMO		0-9	6S	VS	53	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
TALMO		9-25	7S	VS	55	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
TRAVESSILLA		25-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
EPPING		0-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
TUTHILL		9-15	6E	SY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0

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SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2	LAND CAPABILITY SUBCLASS 3	RANGE SITE 4	LAND RESOURCE AREA 5	CORN GRAIN (BU/A) 6	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
PAKA	9-15	4E	SI	65	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
PIERRE	6-25	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
HUGGINS	6-9	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
IMLAY	15-40	7S	SW	63	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
CHAMA	15-25	6E	SI	54	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
RENSHAW	6-25	6E	SWG	55	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
KADOKA	15-25	6E	SI	64	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
KEOTA	6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
LAPORTE	15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
SAMSIL	2-15	6S	SW	63	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
SANSARC	2-15	6S	SW	63	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
COLBY	25-40	7E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
SATANTA	9-15	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
CONATA	2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.29	13.0	13.0
LARVIE	6-9	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
CEDAR BUTTE	6-9	6E	CP	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
CONATA	2-15	6S	SW	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
MANVEL	6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
ARVILLA	6-9	4E	SWG	55	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
BELFIELD	6-9	6E	CY	58	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
CANYON	15-40	7S	SW	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
DIX	0-9	6S	SWG	66	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
EPPING	15-40	7S	SW	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
MURDO	25-40	7S	SWG	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
JERAULD	0-6	6S	TCP	55	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
KEOTA	9-25	6E	TU	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
KYLE	6-25	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
OPAL	25-40	7E	CY	63	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
ORELLA	15-40	7S	DC	64	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
REDIG	6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
LADNER	0-2	4S	CP	54	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
ARCHIN	2-9	6E	CP	54	NA	NA	NA	NA	NA	NA	NA	0.28	12.5	12.5
RICHFIELD	9-15	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
ROSEBUD	9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
SAMSIL	15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
SATANTA	9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
SEN	15-25	6E	SI	54	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
SIOUX	9-40	7S	VS	55	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
DIX	9-25	7S	SWG	64	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
EPPING	0-15	6S	SW	60	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1

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** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
TASSFL		2-15	6E	SW	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
TUTHILL		6-15	6E	SY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
TWILIGHT		6-15	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
GRUMMIT		2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
VEBAR		6-15	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
WABEK		2-9	6S	VS	53	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
WASA		9-25	7S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
IMLAY		0-15	6S	SW	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
KADOKA		9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
CANYON		2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
LANTRY		15-25	6E	TU	54	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
LARVIE		9-25	6E	CY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
METRE		6-9	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
MIDWAY		2-15	6S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
CHAMA		9-25	6E	SI	58	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
MOREAU		25-40	7E	CY	54	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
MOREAU		6-25	6E	CY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
NEVEE		6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
ALICE		6-9	6E	SY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
NORREST		6-25	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
OKREEK		9-15	6E	CY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
ORELLA		0-15	6S	DC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
BUTCHE		25-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
PENROSE		15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
PIERRE		25-40	7E	CY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
PIERRE		6-25	6E	CY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
RAZOR		6-9	6E	CY	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
RAZOR		6-9	6E	CY	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
DEMAR		0-2	4S	CP	61	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
RICHFIELD		9-15	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	NA	0.27	12.1	12.1
RHOADES		0-6	6S	TCP	54	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
ASSINNIBOINE		6-9	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
SAVO		9-15	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
SWANBOY		0-9	6S	DC	64	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
VALENTINE		9-25	7E	SA	60	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
WAYDEN		15-40	7S	SW	54	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
ARVILLA		9-25	6E	SWG	55	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
DIX		9-25	7E	SWG	66	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
EXLINE		0-2	6S	TCP	55	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
HURLEY		0-6	6S	TCP	53	NA	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6

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SOIL SERIES NAME 1**	SLOPE PHASE (PCT) 2 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CABBA	15-40	7S	SW	54	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
MIRANDA	0-2	6S	TCP	55	NA	NA	NA	NA	NA	NA	NA	0.26	11.6	11.6
LARVIE	25-40	7E	CY	64	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
BLACKHALL	2-15	6E	SW	58	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
BROADHURST	2-15	6S	DC	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
MIDWAY	2-15	6S	SW	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
MINNEQUA	6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
MOSHER	6-9	6E	CP	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
CANYON	15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
CHANTIER	0-9	6S	DC	63	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
OGALALA	9-25	6E	SI	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
COLBY	6-25	6E	TU	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
RHAME	6-25	6E	SY	58	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SAMSIL	15-40	7S	SW	63	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SAMSIL	2-15	6S	SW	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SANSARC	15-40	7S	SW	63	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SCROGGIN	6-25	6E	TU	58	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
SULLY	9-25	6E	TU	63	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
TALMO	9-25	7S	VS	53	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
TASSEL	15-40	7E	SW	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
TWOTOP	0-9	6S	DC	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
TWOTOP	0-9	6S	DC	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
WANBLEE	0-9	6S	TCP	66	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
WINLER	0-9	6S	DC	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
WINLER	0-9	6S	DC	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
YAWDIM	2-15	6S	SW	58	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
CONATA	15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
CONATA	2-15	6S	SW	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
ALICE	6-9	6E	SY	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
DEMAR	2-6	6S	CP	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
DIX	0-9	6S	SWG	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
EPPING	15-40	7S	SW	61	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
FLEAK	2-15	6E	SW	58	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
KEOTA	25-40	7E	TU	64	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
LADNER	2-9	6E	CP	54	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
LANTRY	25-40	6E	TU	54	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
BLACKHALL	2-15	6E	SW	60	NA	NA	NA	NA	NA	NA	NA	0.25	11.2	11.2
MINNEQUA	6-25	6E	TU	61	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
MIRANDA	0-2	6S	TCP	53	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
MOREAU	25-40	7E	CY	58	NA	NA	NA	NA	NA	NA	NA	0.24	10.7	10.7

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
MOSHER		6-9	6E	CP	64	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
PIERRE		25-40	7E	CY	61	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
ANSELMO		6-15	6E	SY	60	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
RHOADES		6-15	7E	TCP	54	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
SWANBOY		9-15	7S	DC	64	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
ARVADA		0-6	6S	TCP	54	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
ASCALON		6-15	6E	SY	60	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
CAPUTA		9-15	4E	CY	60	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
ARSHER		0-9	6S	TCP	54	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
CHINOOK		6-9	6E	SY	58	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
CONATA		15-40	7S	SW	64	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
KYLE		6-25	6E	CY	61	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
MANVEL		6-25	6E	TU	61	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
MINATARE		0-2	6S	TCP	64	NA	NA NA	NA	NA	NA	NA	NA	0.24	10.7	10.7
NORREST		15-25	6E	CY	64	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
ORELLA		15-40	7S	DC	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
SAVO		9-15	6E	SI	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
SCHAMBER		9-40	7S	VS	63	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
SCHAMBER		0-9	6S	VS	63	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
SULLY		25-40	7E	TU	63	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
SWANBOY		0-6	6S	DC	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
WABEK		9-15	7S	VS	53	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
WASA		0-9	6S	DC	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
WASA		0-9	6S	DC	61	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
BECKTON		2-6	6S	CP	61	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
WORTMAN		2-6	6S	CP	61	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
CABBART		9-15	6S	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
CANYON		2-15	6S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
EPPING		15-40	7S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
GRUMMIT		15-40	7S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
IMLAY		15-25	7S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
MIDWAY		15-40	7S	SW	61	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
MURDO		6-25	6S	SWG	63	NA	NA NA	NA	NA	NA	NA	NA	0.23	10.3	10.3
MIDWAY		15-40	7S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
MINATARE		0-2	6S	TCP	63	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
MURDO		0-9	6S	SWG	60	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
SAMSIL		15-40	7S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
YAWDIM		15-40	7S	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
CABBART		15-40	7S	SW	58	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
CANYON		15-40	7S	SW	60	NA	NA NA	NA	NA	NA	NA	NA	0.22	9.8	9.8

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SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR 8	SPR 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
CHEYENNE		6-9	6E	SI	61	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
COLBY		25-40	7E	TU	60	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
CONATA		15-40	7S	SW	60	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
DIX		0-9	6S	SWG	60	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
FLEAK		15-25	7E	SW	58	NA	NA	NA	NA	NA	NA	NA	NA	0.22	9.8	9.8
WASA		9-25	7S	DC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
WORTMAN		2-6	6S	CP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
CHANTIER		9-25	7S	DC	63	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
DIX		9-40	7S	SWG	61	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
HISLE		0-9	6S	TCP	64	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
JERAULD		0-6	6S	TCP	53	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
LEHR		6-25	6E	SWG	53	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
LEHR		6-25	6E	SWG	54	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
SNOMO		6-25	6E	CS	61	NA	NA	NA	NA	NA	NA	NA	NA	0.21	9.4	9.4
MURDO		25-40	7S	SWG	63	NA	NA	NA	NA	NA	NA	NA	NA	0.20	8.9	8.9
NORREST		25-40	7E	CY	64	NA	NA	NA	NA	NA	NA	NA	NA	0.20	8.9	8.9
DIX		9-40	7S	SWG	60	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
MOSHER		2-6	6S	CP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
MURDO		9-40	7S	SWG	60	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
OBURN		2-9	6S	CP	58	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
HURLEY		0-6	6S	TCP	63	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
SCHAMBER		0-9	6S	VS	61	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
WASA		9-25	7S	DC	61	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
WORTMAN		6-9	6E	CP	61	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
WORTMAN		6-9	6E	CP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
MAITLAND		9-25	6E	VS	62	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
MINATARE		0-2	6S	TCP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.19	8.5	8.5
LISMAS		2-15	6S	SDC	60	NA	NA	NA	NA	NA	NA	NA	NA	0.18	8.0	8.0
HISLE		0-9	6S	TCP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.17	7.6	7.6
WANBLEE		0-9	6S	TCP	63	NA	NA	NA	NA	NA	NA	NA	NA	0.17	7.6	7.6
LADNER		2-9	6S	CP	58	NA	NA	NA	NA	NA	NA	NA	NA	0.16	7.1	7.1
MOSHER		6-9	6E	CP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.16	7.1	7.1
ABSHER		0-9	6S	TCP	58	NA	NA	NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
LISMAS		2-15	6S	SDC	61	NA	NA	NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
MAITLAND		25-40	7E	VS	62	NA	NA	NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
SCHAMBER		0-9	6S	VS	60	NA	NA	NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
SCHAMBER		9-40	7S	VS	61	NA	NA	NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
WANBLEE		0-9	6S	TCP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.15	6.7	6.7
BECKTON		2-6	6S	CP	60	NA	NA	NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
HISLE		0-9	6S	TCP	61	NA	NA	NA	NA	NA	NA	NA	NA	0.14	6.3	6.3

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

APPENDIX TABLE B. RATINGS DEVELOPED FROM CROP AND RANGE YIELD ESTIMATES FOR SOUTH DAKOTA SOILS*

SOIL SERIES NAME 1**	PHASE 2	SLOPE (PCT) 3	LAND CAPABILITY SUBCLASS 4	RANGE SITE 5	LAND RESOURCE AREA 6	CORN GRAIN (BU/A) 7	WHEAT (BU/A) WTR SPR 8 9	OATS (BU/A) 10	FLAX (BU/A) 11	SORGHUM GRAIN (BU/A) 12	SOY- BEANS (BU/A) 13	ALFALFA (T/A) 14	RANGE YIELD (AUMS) 15	RANGE RATING (PCT) 16	SOIL RATING (PCT) 17
LAKOA		6-25	6E	VS	61	NA	NA NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
LISMAS		15-40	7S	SDC	60	NA	NA NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
MAITLAND		9-25	6E	VS	61	NA	NA NA	NA	NA	NA	NA	NA	0.14	6.3	6.3
ARCHIN		2-9	6S	CP	58	NA	NA NA	NA	NA	NA	NA	NA	0.13	5.8	5.8
EPSIE		2-40	7S	SU	60	NA	NA NA	NA	NA	NA	NA	NA	0.13	5.8	5.8
SCHAMBER		9-40	7S	VS	60	NA	NA NA	NA	NA	NA	NA	NA	0.13	5.8	5.8
ARVADA		0-6	6S	TCP	61	NA	NA NA	NA	NA	NA	NA	NA	0.12	5.4	5.4
LAKOA		9-40	7E	VS	61	NA	NA NA	NA	NA	NA	NA	NA	0.12	5.4	5.4
LISMAS		15-40	7S	SDC	61	NA	NA NA	NA	NA	NA	NA	NA	0.12	5.4	5.4
WANBLEE		0-9	6S	TCP	61	NA	NA NA	NA	NA	NA	NA	NA	0.12	5.4	5.4
ARVADA		0-6	6S	TCP	60	NA	NA NA	NA	NA	NA	NA	NA	0.11	4.9	4.9
DAGLUM		2-6	6S	CP	58	NA	NA NA	NA	NA	NA	NA	NA	0.11	4.9	4.9
MAITLAND		25-40	7E	VS	61	NA	NA NA	NA	NA	NA	NA	NA	0.11	4.9	4.9

* A RANGE RATING (COLUMN 16) WAS COMPUTED FOR SOILS IN ALL CAPABILITY CLASSES (COLUMN 4). A CROP RATING WAS COMPUTED FOR SOILS IN CAPABILITY CLASSES 1 THROUGH 4. COLUMN 17 HEADED 'SOIL RATING' IS THE CROP RATING IF THE SOIL IS IN CAPABILITY CLASSES 1 THROUGH 4. THE RANGE RATING IS THE SOIL RATING FOR SOIL UNITS IN CAPABILITY CLASSES 5 THROUGH 7. SEE APPENDIX D DISCUSSION FOR RESTRICTIONS REGARDING THE USE OF THIS TABLE. ABBREVIATIONS USED IN THE TABLE ARE DEFINED AT THE END OF THE TABLE. CROP YIELDS BASED ON HIGH LEVEL OF MANAGEMENT, RANGE YIELDS BASED ON GOOD TO FAIR CONDITIONS. NA=CROP NOT ADAPTED OR WIDELY GROWN.

** COLUMN NUMBER

Abbreviations Used in Appendix Tables

Soil Series Phases (Column 2)

DF = soil series phase where drainage is feasible; feasibility determined by on-site inspection

DNF = soil series phase where drainage is not feasible; feasibility determined by on-site inspection

E = soil series phase moderately to severely affected by erosion

HWT = soil series phase with a high water table present

S = soil series phase influenced by high salt content

Capability Classes and Subclasses (Column 4)

Capability classes and subclasses show, in a general way, the suitability of soils for most kinds of field crops. The soils are classed according to their limitations when they are used for field crops, the risk of damage when they are used, and the way they respond to treatment. The grouping does not take into account major and generally expensive landforming that would change slope, depth, or other characteristics of the soils; does not take into consideration possible but unlikely major reclamation projects; and does not apply to rice, cranberries, horticultural crops, or other crops that require special management. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for rangeland, for forest trees, or for engineering purposes.

Land Capability Classes (arabic number)

Capability classes, the broadest groups, are designated by arabic numerals 1 through 8. The numerals indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

Class 1 = Soils have few limitations that restrict their use.

Class 2 = soils have moderate limitations that reduce the choice of plants, or that require moderate conservation practices.

Class 3 = soils have severe limitations that reduce the choice of plants, or that require special conservation practices, or both.

Class 4 = soils have very severe limitations that reduce the choice of plants, or that require very careful management, or both.

Class 5 = soils are not likely to erode but have other limitations, impractical to remove, that limit their use.

Class 6 = soils have severe limitations that make them generally unsuitable for cultivation.

Class 7 = soils have very severe limitations that make them unsuitable for cultivation.

Class 8 = soils and landforms have limitations that nearly preclude their use for commercial crop production.

Land Capability Subclasses (lower case letter)

Capability subclasses are soil groups within one class; they are designated by adding a small letter, e, w, s, or c, to the class numeral, for example, 2e. The letter shows that the main limitation is risk of erosion unless close-growing plant cover is maintained; w shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); s shows that the soil is limited mainly because it is shallow, droughty, or stony; and c, used in only some parts of the United States, shows that the chief limitation is climate that is too cold or too dry.

In class 1 there are no subclasses because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by w, s, or c because the soils in class 5 are subject to little or no erosion, though they have other limitations that restrict their use to pasture, rangeland, woodland, wildlife habitat, or recreation.

Brief Range Site Descriptions by Location (Column 5)

A. Eastern South Dakota (area east of the Missouri River plus Tripp, Gregory, and southeast corner of Todd Counties)

CD = Closed Depression - This site includes the flat or concave bottoms of closed depressions. Lack of surface drainage causes this site to be wetter than normal much of the time. However, during an abnormally dry period this site is drouthy. The principal plants in the original vegetation were: western wheatgrass and sedges.

CP = Claypan - This site includes nearly level soils that have a very dense claypan layer at a depth of 4 to 8 inches. The principal plants in the original vegetation were: western wheatgrass, green needlegrass, needleandthread, switchgrass, blue grama, and sedges.

CY = Clayey - This site includes deep soils that have a silt loam to clay surface and silty clay to clay subsoil. Permeability is moderate to slow. The principal plants in the original vegetation were: green needlegrass, big and little bluestem, western wheatgrass, and an understory of shortgrasses.

OV = Overflow - This site regularly receives additional moisture from adjacent slopes or stream overflow. The principal plants in the original vegetation were: big bluestem, green needlegrass, western wheatgrass, Canada wildrye, perennial forbs, and in some places trees or shrubs.

- SA = Sands - This site includes deep, loose, excessively drained soils that range in texture from loamy fine sand to sand. The principal plants in the original vegetation were: sand and little bluestem, prairie sandreed, needleandthread, switchgrass and browse plants such as leadplant, prairie rose, and sand cherry.
- SB = Subirrigated - This site is subirrigated most of the growing season but the water table rarely reaches the surface. The principal plants in the original vegetation were: big bluestem, prairie cordgrass, switchgrass, indiagrass, perennial forbs, such as sunflowers, and in places trees and shrubs.
- SI = Silty - This site includes deep or moderately deep soils that have a fine sandy loam to silty clay loam surface and subsoil. The principal plants in the original vegetation were: big and little bluestem, green needlegrass, western wheatgrass, needleandthread, and grama grasses.
- SL = Saline Lowland - This site includes overflow and subirrigated soils that have a concentration of soluble salts sufficient to affect the kind of vegetation. The principal plants in the original vegetation were: cordgrasses, western wheatgrass, alkaligrass, switchgrass, and the increaser saltgrass.
- SW = Shallow - This site includes soils underlain at depths of 10-20 inches by impervious materials which reduce the water-holding capacity. Principal plants in the original vegetation were: little bluestem, sideoats grama and needleandthread. Forbs such as black samson and woody plants such as leadplant and rose are of common occurrence.
- SWG = Shallow to Gravel - This site includes shallow soils that are underlain at a depth of 10 to 20 inches with coarse sand or gravel. The principal plants in the original vegetation were: needleandthread, little bluestem, prairie dropseed, sideoats grama and blue or hairy grama.
- SY = Sandy - This site includes deep, well drained soils that have a sandy loam or fine sandy loam surface that grades into sandy loam or sand in the subsoil. Principal plants in the original vegetation were: little bluestem, prairie sandreed, big bluestem and needleandthread.
- TCP = Thin Claypan - This site includes nearly level soils that have a very dense claypan layer at a depth of less than 4 inches. The principal plants in the original vegetation were: western wheatgrass and blue grama. Pricklypear cactus occurs in small amounts.
- TU = Thin Upland - This site includes steep uplands having thin soils developed in calcareous materials. The principal plants in the original vegetation were: little bluestem, big bluestem, prairie dropseed, green needlegrass, and the increasers, sideoats grama and needleandthread.
- VS = Very Shallow - This site includes soils that are underlain at less than 10 inches with loose sand or gravel. The principal plants in the original vegetation were: blue and hairy grama, sedges, needleandthread, and sideoats grama.

WL = Wet Land - This site occurs on nearly level bottom lands having soils that are wet, but ponded, during most of the year. The principal plants in the original vegetation were: prairie cordgrass, reedgrasses, sedges, and in the northern part of the state, rivergrass. This site is usually too wet for big bluestem.

B. Western South Dakota (area west of the Missouri River excluding the Black Hills and Tripp, Gregory and southeast corner of Todd Counties)

CD = Closed Depression - This site includes the flat or concave bottoms of closed depressions. Lack of surface drainage causes this site to be wetter than normal much of the time. However, during an abnormally dry period this site is drouthy. The principal plants in the original vegetation were: western and Montana wheatgrass and sedges.

CP = Claypan - This site includes nearly level soils that have a very dense claypan layer at a depth of 5 to 10 inches. The principal plants in the original vegetation were: western wheatgrass, needleandthread, blue grama, and sedges.

CY = Clayey - This site includes deep soils that have a silt loam to clay surface and silty clay to clay subsoil. Permeability is moderate to slow. The principal plants in the original vegetation were: green needlegrass, western wheatgrass, and an understory of shortgrasses.

DC = Dense Clay - This site includes shallow to deep soils having a nearly structureless clay surface underlain at 14 inches or less, by a dense clay or altered shale. The principal plants in the original vegetation were: western wheatgrass and green needlegrass. This site does not have an understory of shortgrasses. Forbs such as American vetch, wild parsley, and wild onion are common.

OV = Overflow - This site regularly receives additional moisture from adjacent slopes or stream overflow. The principal plants in the original vegetation were: western wheatgrass, green needlegrass, Canada wild-rye, big bluestem, and perennial forbs. In a few places trees or shrubs are significant.

SA = Sands - This site includes deep, loose, excessively drained soils that range in texture from loamy fine sand to sand. The principal plants in the original vegetation were: sand and little bluestem, prairie sandreed, needleandthread, and browse plants such as lead-plant, prairie rose and sand cherry.

SB = Subirrigated - This site is subirrigated most of the growing season but the water table rarely reaches the surface. The principal plants in the original vegetation were: big bluestem, prairie cordgrass, switchgrass, indiangrass, prairie sandreed, and perennial forbs such as sunflowers.

SDC = Shallow Dense Clay - This site includes shallow clay soils underlain at depths of 10 to 20 inches by unweathered shale. Principal plants in the original vegetation were western and Montana wheatgrass, green needlegrass, and plains muhly.

- SI = Silty - This site includes deep or moderately deep soils that have a very fine sandy loam to silty clay loam surface and subsoil. The principal plants in the original vegetation were: western wheatgrass, green needlegrass, needleandthread, and grama grasses.
- SL = Saline Lowland - This site includes overflow and subirrigated soil that has a concentration of soluble salts sufficient to affect the kind of vegetation. The principal plants in the original vegetation were: cordgrasses, western wheatgrass, alkaligrass, plains bluegrass and saltgrass.
- SU = Saline Upland - This site includes soils that are adversely affected by salinity or alkalinity. Internal drainage is poor. The principal plants in the original vegetation were: Montana and western wheatgrass, saltgrass, and salt tolerant shrubs such as gardner and nuttall saltbrush.
- SW = Shallow - This site includes soils underlain at depths of 10-20 inches by impervious materials which reduce the water-holding capacity. Principal plants in the original vegetation were: little bluestem, sideoats grama and needleandthread. Forbs, such as black samson, and woody plants, such as leadplant and rose, are of common occurrence.
- SWG = Shallow to Gravel - This site includes shallow soils that are underlain at a depth of 10 to 20 inches with coarse sand or gravel. The principal plants in the original vegetation were: needleandthread, blue or hairy grama, and threadleaf sedge. Forbs, such as dotted gayfeather, broom snakeweed, and sagewort are of common occurrence.
- SY = Sandy - This site includes deep, well drained soils that have a sandy loam or fine sandy loam surface that grades into sandy loam or sand in the subsoil. Principal plants in the original vegetation were: little bluestem, prairie sandreed, big and sand bluestem, western wheatgrass, and needleandthread.
- TCP = Thin Claypan - This site includes nearly level soils that have a very dense claypan layer at a depth of less than 5 inches. The principal plants in the original vegetation were: western wheatgrass and blue grama. Pricklypear cactus occurs in small amounts.
- TU = Thin Upland - This site includes steep uplands having thin slopes developed in calcareous materials. The principal plants in the original vegetation were: needleandthread, plains muhly, western wheatgrass, blue grama, threadleaf sedge, little bluestem, and sideoats grama. Forbs, such as dotted gayfeather, and shrubs, such as leadplant, may be important.
- VS = Very Shallow - This site includes soils that are underlain at less than 10 inches with loose sand or gravel. The principal plants in the original vegetation were: blue and hairy grama, sedges, and needleandthread. Forbs, such as sagewort, and shrubs, such as skunkbush sumac, are important.
- WL = Wet Land - This site occurs on nearly level bottom lands having soils that are wet, but not ponded, during most of the year. The principal

plants in the original vegetation were: prairie cordgrass, reedgrasses, sedges and in the northern part of the state, rivergrass. This site is too wet for big bluestem.

C. Black Hills

OV = Overflow - This site regularly receives additional moisture from adjacent slopes or stream overflow. The principal plants in the original vegetation were: needlegrasses, native bromes, fuzzyspike, wildrye, bluegrasses and in some places trees or shrubs.

SB = Subirrigated - This site is subirrigated most of the growing season but the water table rarely reaches the surface. The principal plants in the original vegetation were: northern and bluejoint reedgrass, big bluestem and needlegrass.

SI = Silty - This site includes deep or moderately deep soils that have a very fine sandy loam to silty clay loam surface and subsoil. The principal plants in the original vegetation were: needlegrasses, native bromes, western wheatgrass, prairie dropseed and bluegrasses.

SW = Shallow - This site includes soils underlain at depths of 10-20 inches by impervious materials which reduce the water-holding capacity. Principal plants in the original vegetation were: little bluestem, prairie dropseed, needlegrasses, western wheatgrass and bluegrasses. Forbs and woody plants are common.

VS = Very Shallow - This site includes soils that are underlain at less than 10 inches with loose sand or gravel. The principal plants in the original vegetation were: prairie dropseed, needleandthread, spike fescue, blue or hairy grama and sedges. Forbs and woody plants frequently occur.

WL = Wet Land - This site occurs on nearly level bottom lands having soils that are wet, but not ponded, during most of the year. The principal plants in the original vegetation were: slough sedge and reedgrasses and in some places willows.

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